

# 2023-2024 Undergraduate Catalog

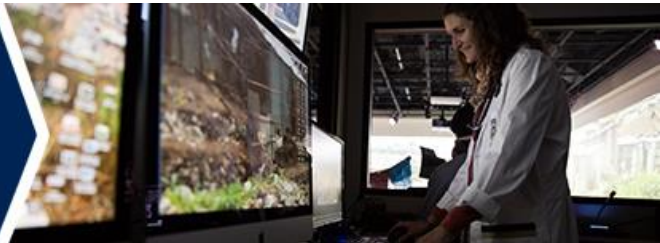
Admissions



Financial Aid



Programs



## California Baptist University

*An Institution of the California Southern Baptist Convention*

2023-2024 Undergraduate Catalog  
73rd SESSION

**California Baptist University**  
8432 Magnolia Avenue, Riverside, CA 92504-3297  
951.689.5771 • 800.782.3382

**NONDISCRIMINATION STATEMENT**

In compliance with both state and federal law; California Baptist University does not illegally discriminate on the basis of any protected category, except to the extent it is necessary to fulfill its religious purposes, so as to be in compliance with the 2000 version of the Baptist Faith and Message.

California Baptist University, an educational institution controlled by the California Southern Baptist Convention, takes seriously anti-discrimination provisions under the state law and is committed to providing a learning and living environment that promotes student safety, transparency, personal integrity, civility, and mutual respect. California Baptist University is exempted by the state from California Education Code 66270 to the extent the application of California Education Code 66270 is not consistent with the institution's religious tenets. California Baptist University retains all rights afforded it under federal law and the laws of the State of California.

**SPECIAL NOTICE**

This catalog does not constitute a contract between California Baptist University and its students. Although every effort has been made to ensure the accuracy of the content of this catalog, the University assumes no liability for any omissions or errors contained herein. California Baptist University reserves the right to alter and revise the contents of this catalog at any time.

All announcements here are subject to revision.

*Editing by Christine Dahlgren. 2023.*

# 2023-2024 Academic Calendar

## Fall Semester 2023

### Traditional Semester

#### August

9 Semester Payment Due Date

#### September

4 Labor Day Holiday (offices open)

5 Classes Begin\*

12 Last Day to Add a Class for Credit\*

19 Last Day to Drop a Class with Refund\*

19 Last Day to Turn in Credit/No Credit Request

#### November

10 Last Day to Withdraw from a Class with "W" (no refund)\*

15 Graduation Application Deadline for Spring 2024 posting date

20-24 Thanksgiving Holiday (no classes, offices closed at 12:00 noon on the 21st)

27 Classes Resume, Offices Open

#### December

7-12 Final Examinations

12 Traditional Semester Closes

13-14 Commencement Exercises (tentative)

20 Offices Closed (December 20 - January 1)

### Session 1

#### August

9 Semester Payment Due Date

#### September

4 Labor Day Holiday (offices open)

4 Classes Begin\* - Session 1 and Session 3

- 12 Last Day to Add a Class for Credit\* - Session 1 and Session 3
- 19 Last Day to Drop a Class with Refund\* - Session 1 and Session 3

#### **October**

- 3 Last Day to Withdraw from a Class with "W" (no refund)\* - Session 1
- 29 Session 1 Closes

## **Session 2**

#### **October**

- 30 Classes Begin\* - Session 2

#### **November**

- 3 Last Day to Withdraw from a Class with "W" (no refund) - Session 3
- 6 Last Day to Add a Class for Credit\* - Session 2
- 13 Last Day to Drop a Class with Refund\* - Session 2
- 15 Graduation Application Deadline for Spring 2024 posting date
- 21-26 Offices Closed (beginning at 12:00 noon on the 21st)
- 23-24 Thanksgiving Holiday (no classes)
- 25 Classes Resume
- 27 Offices Open
- 27 Last Day to Withdraw from a Class with "W" (no refund)\* - Session 2

#### **December**

- 13-14 Commencement Exercises (tentative)
- 20 Offices Closed (December 20 - January 1)
- 23 Session 2 and Session 3 Close

\* For courses with alternate begin and end dates, please see InsideCBU for alternate add, drop and withdraw dates.

# Spring Semester 2024

## Traditional Semester

### January

- 2 Offices Open
- 4 Semester Payment Due Date
- 8 Classes Begin\*
- 15 Martin Luther King Jr. Holiday (no classes, offices closed)
- 16 Last Day to Add a Class for Credit\*
- 22 Last Day to Drop a Class with Refund\*
- 22 Last Day to Turn in Credit/No Credit Request

### March

- 4 Postmark Deadline for FAFSA (Cal Grant)
- 11-15 Spring Break (no classes)
- 15 Graduation Application Deadline for Summer 2024 posting date
- 22 Last Day to Withdraw from a Class with "W" (no refund)\*
- 29 Good Friday Holiday (no classes, offices closed)
- 30-April 1 Easter Observance (classes resume at 4:00pm on April 1st, offices closed)

### April

- 2 Offices Open
- 16-20 Final Examinations
- 20 Traditional Semester Closes
- 22-24 Commencement Exercises (tentative)

## Session 1

### January

- 2 Offices Open
- 4 Semester Payment Due Date
- 8 Classes Begin\* - Session 1 and Session 3

- 15 Martin Luther King Jr. Holiday (no classes, offices closed)
- 16 Last Day to Add a Class for Credit\* - Session 1 and Session 3
- 22 Last Day to Drop a Class with Refund\* - Session 1 and Session 3

## **February**

- 5 Last Day to Withdraw from a Class with "W" (no refund)\* - Session 1

## **March**

- 3 Session 1 Closes

## **Session 2**

## **March**

- 4 Classes Begin\* - Session 2
- 8 Last Day to Withdraw from a Class with "W" (no refund)\* - Session 3
- 11 Last Day to Add a Class for Credit\* - Session 2
- 15 Graduation Application Deadline for Summer 2024 posting date
- 18 Last Day to Drop a Class with Refund\* - Session 2
- 29 Good Friday Holiday (no classes, offices closed)
- 30-April 1 Easter Observance (classes resume at 4:00pm on April 1st, offices closed)

## **April**

- 2 Last Day to Withdraw from a Class with "W" (no refund)\* - Session 2
- 2 Offices Open
- 22-24 Commencement Exercises (tentative)
- 28 Session 2 and Session 3 Close

\* For courses with alternate begin and end dates, please see InsideCBU for alternate add, drop and withdraw dates.

# Summer Semester 2024

## Traditional Semester

### May

- 6 Semester Payment Due Date
- 6 Classes Begin\*
- 13 Last Day to Add a Class for Credit\*
- 20 Last Day to Drop a Class with Refund\*
- 27 Memorial Day Holiday (no classes, offices closed)

### July

- 4 Independence Day Holiday (no classes, offices closed)
- 12 Last Day to Withdraw from a Class with "W" (no refund)\*
- 15 Graduation Application Deadline for Fall 2024 posting date

### August

- 9 Traditional Semester Closes
- 14-15 Commencement Exercises (tentative)

## Session 1

### May

- 6 Semester Payment Due Date
- 6 Classes Begin\* - Session 1 and Session 3
- 13 Last Day to Add a Class for Credit\*- Session 1 and Session 3
- 20 Last Day to Drop a Class with Refund\* - Session 1 and Session 3
- 27 Memorial Day Holiday (no classes, offices closed)

### June

- 3 Last Day to Withdraw from a Class with "W" (no refund)\* - Session 1
- 30 Session 1 Closes

## **Session 2**

### **July**

- 1    Classes Begin\* - Session 2
- 4    Independence Day Holiday (no classes, offices closed)
- 5    Last Day to Withdraw from a Class with "W" (no refund)\* - Session 3
- 8    Last Day to Add a Class for Credit\* - Session 2
- 15   Graduation Application Deadline for Fall 2024 posting date
- 15   Last Day to Drop a Class with Refund\* - Session 2
- 29   Last Day to Withdraw from a Class with "W" (no refund)\* - Session 2

### **August**

- 14-15   Commencement Exercises (tentative)
- 25    Session 2 and Session 3 Close

\* For courses with alternate begin and end dates, please see InsideCBU for alternate add, drop and withdraw dates.



# 2023-2024 Traditional Final Examination Schedule

## Fall Semester 2023

### Thursday, December 7

7:00 - 9:00	All	7:00 - 8:30	Tuesday, Thursday and Tuesday Hybrid classes
9:30 - 11:30	All	10:30 - 12:00	Tuesday, Thursday and Tuesday Hybrid classes
12:00 - 2:00	All	2:00 - 3:30	Tuesday, Thursday and Tuesday Hybrid classes
2:30 - 4:30	All	3:45 - 5:15	Tuesday, Thursday and Tuesday Hybrid classes

### Friday, December 8

7:00 - 9:00	All	7:00 - 8:00	Monday, Wednesday, Friday and Monday Hybrid classes
9:30 - 11:30	All	9:30 - 10:30	Monday, Wednesday, Friday and Monday Hybrid classes
12:00 - 2:00	All	12:00 - 1:00	Monday, Wednesday, Friday and Monday Hybrid classes
2:30 - 4:30	All	3:45 - 4:45	Monday, Wednesday, Friday and Monday Hybrid classes

### Saturday, December 9

TBD	All	TBD	Wednesday Hybrid and Thursday Hybrid classes*
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### Monday, December 11

7:00 - 9:00	All	8:15 - 9:15	Monday, Wednesday, Friday and Monday Hybrid classes
9:30 - 11:30	All	10:45 - 11:45	Monday, Wednesday, Friday and Monday Hybrid classes
12:00 - 2:00	All	1:15 - 2:15	Monday, Wednesday, Friday and Monday Hybrid classes

### Tuesday, December 12

7:00 - 9:00	All	8:45 - 10:15	Tuesday, Thursday and Tuesday Hybrid classes
9:30 - 11:30	All	12:15 - 1:45	Tuesday, Thursday and Tuesday Hybrid classes
12:00 - 2:00	All	2:30 - 3:30	Monday, Wednesday, Friday and Monday Hybrid classes

# Spring Semester 2024

## Tuesday, April 16

7:00 - 9:00	All	7:00 - 8:30	Tuesday, Thursday and Thursday Hybrid classes
9:30 - 11:30	All	10:30 - 12:00	Tuesday, Thursday and Thursday Hybrid classes
12:00 - 2:00	All	2:00 - 3:30	Tuesday, Thursday and Thursday Hybrid classes
2:30 - 4:30	All	3:45 - 5:15	Tuesday, Thursday and Thursday Hybrid classes

## Wednesday, April 17

7:00 - 9:00	All	7:00 - 8:00	Monday, Wednesday, Friday and Wednesday Hybrid classes
9:30 - 11:30	All	9:30 - 10:30	Monday, Wednesday, Friday and Wednesday Hybrid classes
12:00 - 2:00	All	12:00 - 1:00	Monday, Wednesday, Friday and Wednesday Hybrid classes
2:30 - 4:30	All	3:45 - 4:45	Monday, Wednesday, Friday and Wednesday Hybrid classes

## Thursday, April 18

7:00 - 9:00	All	8:45 - 10:15	Tuesday, Thursday and Thursday Hybrid classes
9:30 - 11:30	All	12:15 - 1:45	Tuesday, Thursday and Thursday Hybrid classes
12:00 - 2:00	All	2:30 - 3:30	Monday, Wednesday, Friday and Wednesday Hybrid classes

## Friday, April 19

7:00 - 9:00	All	8:15 - 9:15	Monday, Wednesday, Friday and Wednesday Hybrid classes
9:30 - 11:30	All	10:45 - 11:45	Monday, Wednesday, Friday and Wednesday Hybrid classes
12:00 - 2:00	All	1:15 - 2:15	Monday, Wednesday, Friday and Wednesday Hybrid classes

## Saturday, April 20

TBD	All	TBD	Monday Hybrid and Tuesday Hybrid classes*
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\* Hybrid courses with an examination time of TBD may be scheduled on the designated Saturday or an alternate exam weekday, see InsideCBU for assigned examination times. Examinations for courses with meeting patterns in the evening will be given during the final examination week at the time the class regularly meets. Courses with other meeting patterns *may* have a final exam scheduled during another week or alternative arranged time.

# **2024-2025 Academic Calendar (Proposed)**

## **Fall Semester 2024**

### **Traditional Semester**

#### **August**

1 Semester Payment Due Date

#### **September**

2 Labor Day (no classes, offices open)

3 Classes Begin\*

10 Last Day to Add a Class for Credit\*

17 Last Day to Drop a Class with Refund\*

17 Last Day to Turn in Credit/No Credit Request

#### **November**

11 Last Day to Withdraw from a Class with "W" (no refund)\*

13 Graduation Application Deadline for Spring 2025 posting date

25-29 Thanksgiving Holiday (offices closed at 12:00 noon on November 26)

#### **December**

2 Classes Resume, Offices Open

5-10 Final Examinations

10 Traditional Semester Closes

11-12 Commencement Exercises (tentative)

20 Offices Closed (December 20 - January 1)

## **Session 1**

#### **August**

1 Semester Payment Due Date

#### **September**

2 Labor Day (offices open)

- 2 Classes Begin\* - Session 1 and Session 3
- 10 Last Day to Add a Class for Credit\* - Session 1 and Session 3
- 17 Last Day to Drop a Class with Refund\* - Session 1 and Session 3

## **October**

- 1 Last Day to Withdraw from a Class with "W" (no refund)\* - Session 1
- 27 Session 1 Closes

## **Session 2**

### **October**

- 28 Classes Begin\* - Session 2

### **November**

- 1 Last Day to Withdraw from a Class with "W" (no refund)\* - Session 3
- 4 Last Day to Add a Class for Credit\* - Session 2
- 11 Last Day to Drop a Class with Refund\* - Session 2
- 13 Graduation Application Deadline for Spring 2025 posting date
- 25 Last Day to Withdraw from a Class with "W" (no refund)\* - Session 2
- 26-29 Offices Closed (beginning at 12:00 noon on November 26)
- 28-29 Thanksgiving Holiday (no classes)
- 30 Classes Resume

### **December**

- 2 Offices Open
- 11-12 Commencement Exercises (tentative)
- 20 Offices Closed (December 20 - January 1)
- 22 Session 2 and Session 3 Close

\* For courses with alternate begin and end dates, please see InsideCBU for alternate add, drop and withdraw dates.

# Spring Semester 2025

## Traditional Semester

### January

- 2 Offices Open
- 2 Semester Payment Due Date
- 13 Classes Begin\*
- 20 Martin Luther King Jr. Holiday (no classes, offices closed)
- 21 Last Day to Add a Class for Credit\*
- 27 Last Day to Drop a Class with Refund\*
- 27 Last Day to Turn in Credit/No Credit Request

### March

- 3 Postmark Deadline for FAFSA (Cal Grant)
- 10-14 Spring Break (no classes)
- 17 Graduation Application Deadline for Summer 2025 posting date
- 28 Last Day to Withdraw from a Class with "W" (no refund)\*

### April

- 18 Good Friday Holiday (no classes, offices closed)
- 19-21 Easter Observance (classes resume at 4:00pm on April 21, offices closed)
- 22 Offices Open
- 22-26 Final Examinations
- 26 Traditional Semester Closes
- 28-30 Commencement Exercises (tentative)

## Session 1

### January

- 2 Offices Open
- 2 Semester Payment Due Date
- 6 Classes Begin\* - Session 1

- 13 Last Day to Add a Class for Credit\* - Session 1 and Session 3
- 20 Martin Luther King Jr. Holiday (no classes, offices closed)
- 21 Last Day to Drop a Class with Refund\* - Session 1 and Session 3

## **February**

- 3 Last Day to Withdraw from a Class with "W" (no refund)\* - Session 1

## **March**

- 2 Session 1 Closes
- 3 Postmark Deadline for FAFSA (Cal Grant)

## **Session 2**

### **March**

- 3 Classes Begin\* - Session 2
- 7 Last Day to Withdraw from a Class with "W" (no refund)\* - Session 3
- 10 Last Day to Add a Class for Credit\* - Session 2
- 14 Graduation Application Deadline for Summer 2025 posting date
- 17 Last Day to Drop a Class with Refund\* - Session 2
- 31 Last Day to Withdraw from a Class with "W" (no refund)\* - Session 2

### **April**

- 18 Good Friday Holiday (no classes, offices closed)
- 19-21 Easter Observance (online in session, traditional resumes at 4:00pm on April 21, offices closed)
- 22 Offices Open
- 27 Session 2 and Session 3 Close
- 28-30 Commencement Exercises (tentative)

\* For courses with alternate begin and end dates, please see InsideCBU for alternate add, drop and withdraw dates.

# Summer Semester 2025

## Traditional Semester

### May

- 5 Semester Payment Due Date
- 5 Classes Begin\*
- 12 Last Day to Add a Class for Credit\*
- 19 Last Day to Drop a Class with Refund\*
- 26 Memorial Day Holiday (no classes, offices closed)

### July

- 4 Independence Day Holiday (no classes, offices closed)
- 11 Last Day to Withdraw from a Class with "W" (no refund)\*
- 14 Graduation Application Deadline for Fall 2025 posting date

### August

- 8 Traditional Semester Closes
- 13-14 Commencement Exercises (tentative)

## Session 1

### May

- 5 Semester Payment Due Date
- 5 Classes Begin\* - Session 1 and Session 3
- 12 Last Day to Add a Class for Credit\*- Session 1 and Session 3
- 19 Last Day to Drop a Class with Refund\* - Session 1 and Session 3
- 26 Memorial Day Holiday (no classes, offices closed)

### June

- 2 Last Day to Withdraw from a Class with "W" (no refund)\* - Session 1
- 29 Session 1 Closes

## **Session 2**

### **June**

30 Classes Begin\* - Session 2

### **July**

4 Independence Day Holiday (no classes, offices closed)

7 Last Day to Withdraw from a Class with "W" (no refund)\* - Session 3

7 Last Day to Add a Class for Credit\* - Session 2

14 Graduation Application Deadline for Fall 2025 posting date

14 Last Day to Drop a Class with Refund\* - Session 2

28 Last Day to Withdraw from a Class with "W" (no refund)\* - Session 2

### **August**

13-14 Commencement Exercises (tentative)

24 Session 2 and Session 3 Close

\* For courses with alternate begin and end dates, please see InsideCBU for alternate add, drop and withdraw dates.



# President's Message

**Dr. Ronald L. Ellis**

*President*

**Ms. Janie Armentrout**

*Administrative Assistant to the President*

Phone 951.343.4210

FAX 951.343.4511

*Dear Friend:*

*Welcome to California Baptist University! I look forward to greeting you personally when the opportunity permits, but for now allow me to congratulate you for deciding to pursue your educational goals at CBU and to thank you for trusting us to help you reach those goals.*



*Since 1950, students have chosen California Baptist University for the caring personal attention they receive and for high quality academic programs taught by faculty members who recognize the importance of spiritual development as well as intellectual growth.*

*CBU remains faithful to the Christian values and principles found in the Great Commission, Christ's challenge to his followers found in Matthew 28:19-20:*

*"Go ye therefore and teach all nations, baptizing them in the name of the Father, and of the Son, and of the Holy Ghost, teaching them to observe all things whatsoever I have commanded you; and lo, I am with you always, even unto the end of the world."*

*At CBU, we work hard to fulfill this commandment by integrating faith and learning and by offering a wide range of opportunities for service. Throughout Southern California and around the world, we are gaining a reputation to match our vision of "a University Committed to the Great Commission."*

*For many students, the decision to share the CBU experience marks the first step in a long-term relationship. We trust it will be a positive and rewarding experience for you. This is an exciting time to be part of the CBU community and we are genuinely pleased that you are here.*

*Once again, welcome to California Baptist University and may the Lord continue to bless!*

*Your brother in Christ,*

*Ronald L. Ellis, Ph.D.*

*President*

# The University

## History

On September 18, 1950, the Los Angeles Southern Baptist Association opened the doors of California Baptist College in El Monte to students who came seeking a liberal arts education in a Christian environment. The college began operations with 42 students in Fall 1950; 120 were enrolled during the 1950-51 academic year.

In 1955, after four years of continued growth, the college relocated to larger facilities in Riverside. Growth in all areas paved the way for the institution to become a university on September 25, 1998.

## Location and Environment

Riverside is located in the Los Angeles Basin, sixty miles east of downtown L.A. Freeways lead into Riverside from every direction, and the area is served by international airports in nearby Ontario and Los Angeles.

California Baptist University is surrounded by cultural and scientific opportunities for student of all interests, and the proximity of other colleges and universities makes possible inter-library and inter-cultural exchanges.

## Mission Statement

The primary purpose of this corporation is to conduct regular four-year college courses in education, music, sciences, and the liberal arts, and to grant certificates, diplomas, and any and all degrees evidencing completion of any course of training, together with any and all honorary degrees and to provide training for Baptist youth and others desiring to be affiliated with Baptist theology and theological instruction and such other instruction as may be needful and advantageous in preparing and qualifying ministers and others for Christian work.<sup>1</sup>

## Philosophy Statement

California Baptist University is a Christian liberal arts institution founded by Southern Baptists to serve the world. As such, the university community provides an accepting, caring Christian atmosphere in which the growth of individuals is enhanced by spiritual formation, personal development, vocational preparation, and a sound, academic, liberating education. In the midst of the pursuit of truth, individuals are encouraged to investigate, practice, and refine their aesthetic, moral, social, and spiritual values in order to prepare themselves to make substantial contributions to the cause of Christ as skilled professionals, thinking citizens, and educated persons.

## Goals

To implement its philosophy, the University strives:

1. To reflect, in life and thought, historic Southern Baptist principles, such as:
  - a. The Lordship of Jesus Christ.
  - b. The competency of the individual soul before God.
  - c. The Scriptures as the authoritative guide for doctrine and practice.
  - d. The separation of Church and State.
  - e. The autonomy of the local church.
2. To help students observe and interact with a community that effectively models Christian characteristics and values.

3. To offer a selection of programs that will attract a wide range of qualified students.
4. To encourage a free exchange of ideas by providing a wide variety of spiritual, intellectual, cultural, and social learning experiences both within and outside the classroom.
5. To encourage high standards of scholarship.
6. To provide support for students experiencing academic and personal difficulties.
7. To encourage each member of the University community to be involved in a lifelong, personal Christian pilgrimage.
8. To enable its educators to engage in continuing professional development.
9. To develop mature individuals of genuine Christian character who can contribute to churches and effect changes in society for its betterment.
10. To develop specific leadership for the churches and general work of the Southern Baptist Convention.

## University Student Outcomes

California Baptist University desires that each student acquire certain knowledge, skills, values, and aspirations during their collegiate experience. The University seeks to provide academic programs that prepare students for professional careers, as well as co-curricular programs that foster an environment supporting the intellectual, physical, social, and spiritual development of each student. Within these arenas of the student experience, the University, through its faculty and administration, has identified student outcomes as desirable and reflective of the impact it seeks to have in the lives of its students.

Upon completion of a degree program, each student at California Baptist University shall be:

### Biblically Rooted

- Demonstrate spiritual literacy, including Biblical Christian faith and practice, Baptist perspectives, and the Christian's role in fulfilling the Great Commission.

### Globally Minded

- Respect diverse religious, cultural, philosophical, and aesthetic experiences and perspectives.

### Academically Prepared

- Use critical thinking skills to demonstrate literacy: listening, speaking, writing, reading, viewing, and visual representing.
- Demonstrate competence in mathematical, scientific, and technological skills.

### Equipped to Serve

- Transfer academic studies to a profession and the workplace.
- Implement a personal and social ethic that results in informed participation in multiple levels of community.

# **Council for Christian Colleges & Universities**

California Baptist University is a member of the Council for Christian Colleges & Universities, a higher education association of more than 180 Christian institutions around the world. With campuses across the globe, including more than 150 in the U.S. and Canada and more than 30 from an additional 18 countries. Membership in CCCU provides CBU students access to numerous off-campus learning opportunities: an American Studies program in Washington, D.C.; a Contemporary Music Program; the Los Angeles Film Studies Center; and an increasing number of overseas travel programs.

## **American Studies Program (ASP)**

Founded in 1976, the American Studies Program has served hundreds of students from member institutions as a "Washington, D.C. campus." ASP uses Washington as a stimulating educational laboratory where collegians gain hands-on experience with an internship in their chosen field. Internships are tailored to fit the student's talents and aspirations and are available in a wide range of fields. They also explore pressing national and international issues in public policy seminars that are issue-oriented, interdisciplinary, and led by ASP faculty and Washington professionals. Through interdisciplinary reflection on public life and vocation, practical marketplace experiences, and community living, the purpose of the program is to create an atmosphere for students: first, to develop an appreciation for how the integral character of biblical faith relates to thinking critically about public policy and marketplace issues, and second, to nurture a desire to take up responsible Christ-centered service in their personal and public vocations, whatever their career paths or walks of life. The mission of the program is to help students gain an integral biblical faith for thinking critically about public affairs and for responding faithfully in vocational service.

## **Contemporary Music Program (CMP)**

The Contemporary Music Program provides students the opportunity to live and work in community while seeking to understand how God will have them integrate music, faith, and business. Both interdisciplinary and multidisciplinary in nature, the CMP offers two tracks: the Artist Track and the Executive Track. The Artist Track is tailored to students considering careers as vocalists, musicians, songwriters, recording artists, performers, producers, and recording engineers. The Executive Track is designed for business, arts management, marketing, communications, and other majors interested in possible careers as artist managers, agents, record company executives, music publishers, concert promoters and entertainment industry entrepreneurs. Both Artist and Executive track students receive instruction, experience, and a uniquely Christian perspective on creativity and the marketplace, while working together to create and market a recording of original music. Both tracks include course work, labs, directed study, and a practicum.

## **Los Angeles Film Studies Center (LAFSC)**

The Los Angeles Film Studies Center is designed to train students of CCCU member institutions to serve in various aspects of the film industry with both professional skill and Christian integrity. Students live, learn, and work in the L.A. area near major motion picture studios. The curriculum consists of two required seminars focusing on the role of film in culture and the relationship of faith to work in this very influential industry. In addition, students choose two elective courses from a variety of offerings in film studies. Internships in various segments of the film industry provide students with hands-on experience. The combination of the internship and seminars allow students to explore the film industry within a Christian context and from a liberal arts perspective.

# Educational Standings

California Baptist University is incorporated under the laws of the State of California as a university of arts and sciences authorized to grant the degrees of Associate of Science, Bachelor of Applied Theology, Bachelor of Arts, Bachelor of Computer Science, Bachelor of Fine Arts, Bachelor of Music, Bachelor of Science, Bachelor of Science in Biomedical Engineering, Bachelor of Science in Chemical Engineering, Bachelor of Science in Civil Engineering, Bachelor of Science in Electrical and Computer Engineering, Bachelor of Science in Engineering, Bachelor of Science in Mechanical Engineering, Bachelor of Science in Nursing, Bachelor of Science in Software Engineering, Bachelor of Social Work, Master of Architecture, Master of Arts, Master of Business Administration, Master of Music, Master of Public Administration, Master of Public Health, Master of Science, Master of Science in Counseling Psychology, Master of Science in Nursing, Master of Social Work, Doctor of Business Administration, Doctor of Education, Doctor of Nursing Practice, Doctor of Philosophy, Doctor of Psychology, Doctor of Public Administration, and Doctor of Social Work.

California Baptist University is accredited by the Western Association of Schools and Colleges Senior College and University Commission (WSCUC)\* and abides by WSCUC Policy on Substantive Change and the Policy on Distance and Technology-Mediated Instruction. Certain programs within the School of Business are accredited by the Accreditation Council for Business Schools and Programs (ACBSP); the School of Music is accredited by the National Association of Schools of Music (NASM); through the College of Behavioral and Social Sciences the counseling psychology degree program is accredited by the Board of Behavioral Sciences (BBS) and the master of social work degree program is accredited by the Council on Social Work Education (CSWE); through the College of Engineering the civil engineering, mechanical engineering, and electrical and computer engineering degree programs are accredited by the Engineering Accreditation Commission of the ABET, <http://www.abet.org>, and the construction management program is accredited through the American Council for Construction Education (ACCE); through the College of Health Science, Department of Allied Health Professions the athletic training program is accredited by the Commission on Accreditation of Athletic Training Education (CAATE) and the physical therapist assistant program is accredited by the Commission on Accreditation in Physical Therapy Education (CAPTE); through the College of Nursing the nursing programs are accredited by the Commission on Collegiate Nursing Education (CCNE); through the College of Architecture, Visual Arts, and Design the master of architecture degree program is accredited by the National Architectural Accrediting Board (NAAB).

California Baptist University is approved for teacher education by the State of California Commission on Teacher Credentialing and approved by the California Board of Registered Nursing for baccalaureate and entry level master programs in registered nursing.

The University also holds memberships in the Association of Independent California Colleges and Universities, the International Association of Baptist Colleges and Universities, and the Council for Christian Colleges & Universities.

Graduates of California Baptist University are earning advanced degrees in leading colleges, universities, and seminaries of the United States. All women graduates are eligible for membership in the American Association of University Women. Accreditation letters may be viewed in the Office of the Provost.

<sup>1</sup> Articles of Incorporation of The California Baptist College, 1954.

\* Western Association of Schools & Colleges Senior College and University Commission

Senior College & University Commission  
985 Atlantic Avenue, Suite 100  
Alameda, CA 94501

Phone: 510.748.9001  
Fax: 510.748.9797  
Web Site: [www.wascsenior.org](http://www.wascsenior.org)

# Bachelor Degree Requirements for All Programs

## General Education Requirements Bachelor Degree

for All Programs (Traditional and Online)

<b>Foundations</b>	<b>6-11 Units</b>
Composition (ENG 113, or both 113E and 113L)	0-4
Intermediate Composition (ENG 123, or both 123E and 123L)	3-4
Mathematics (MAT 115 or STA 144, or higher)	3
<b>Biblical and Theological Core</b>	<b>9 Units</b>
Christian Studies	
<b>Civic World</b>	<b>6 Units</b>
Political Worldview (WLD 161)	
Economics	
History	
Political Science	
Law	
<b>Creative World</b>	<b>3 Units</b>
Creative Worldview (WLD 171)	
Creative Writing	
Design	
Film Production (FLP)	
Fine Art	
Graphic Design	
Illustration	
Music	
Photography	

Theatre

**Cultural World**

**3 Units**

Cultural Worldview (WLD 181)

English

Film (FLM)

Foreign Language

Philosophy

Humanities

**Natural World**

**4 units**

Natural Worldview (WLD 121)

Biological Science

Environmental Science

Chemical Science

Physical Science

Physics

**Personal World**

**3 units**

Finance

Foreign Language

Leadership

Technology

Intercultural Perspectives

Kinesiology

Health Science/Nutrition

**Social World**

**6 units**

Social Worldview (WLD 141)

Anthropology

Behavioral Science/Christian Behavioral Science

Communication Studies

Psychology

Public Relations

Social Work

Sociology

**Total General Education Units**

**40-45**

- Courses may not double count in the general education, but may be applied to a major, minor, or concentration.
- Students are required to enroll in the composition requirements until successfully completed.
- Introduction to discipline courses are not considered part of GE.
- General education requirements are waived, with the exception of the Biblical and Theological Core (CST) and two semesters of English composition (ENG 113, or both 113E and 113L; and ENG 123, or both 123E and 123L), for individuals transferring to California Baptist University (CBU) with a California State University (CSU) General Education Breadth or IGETC certified associate's degree.
- General education requirements are waived, with the exception of the Biblical and Theological Core (CST), for individuals transferring to California Baptist University (CBU) with an approved ADT from a California Community College or an approved Associates Degree from a regionally accredited institution outside of California.
- Students must complete ENG 123, or both ENG 123E and 123L with a grade of C- or better or demonstrate a comparable level of writing competence to fulfill general education requirements; students are required to enroll in ENG 123, or both ENG 123E and 123L until the course is successfully completed.
- Online students may replace three (3) units of Biblical and Theological Core (CST) with Philosophy.



# Associate Degree Requirements for Traditional Programs

## General Education Requirements Associate Degree

for Traditional Program

<b>Competency Requirements</b>	<b>0-7 Units</b>
Composition (ENG 113, or both 113E and 113L)	0-4
Mathematics (MAT 115, MAT 123, or SAT II Math 1C score of 550)	0-3
<b>Core Curriculum</b>	<b>22-23 Units</b>
Behavioral Science	3
ENG 123, or both 123E and 123L	3-4
Communication Arts	3
Art or Music	3
History, Philosophy, Political Science	3
Lab Science	4
Christian Studies	3
<b>Total General Education</b>	<b>22-30 Units</b>

- Courses may not double count for core curriculum categories, but they may be applied to a major, minor or concentration as well as the core curriculum
- Students are required to enroll in the composition requirements until successfully completed.

### Graduation Check List

- Complete at least 60 semester units of credit
- Complete at least 30 units in residence at CBU
- Earn a cumulative grade point average of at least 2.0 overall with no grade below C- in the major field of study
- Complete all general education requirements
- Complete all coursework in a major as selected from the University Catalog
- Complete a graduation application for planned graduation date
- Satisfy all financial obligations
- Be in good academic standing (not suspended or academically disqualified) at the time of completion

# Division of Academic Affairs

**Dr. Charles D. Sands**

*Provost and Senior Vice President for Academic Affairs*

**Ms. Claudia Valdez**

*Administrative Assistant*

Phone 951.343.4213

FAX 951.343.4572

provostoffice@calbaptist.edu

## Academic Affairs Division Contact Personnel

**Mr. Mark Roberson**

*Dean, College of Architecture,  
Visual Arts, and Design*

951.552.8652

maroberson@calbaptist.edu

**Dr. Lisa Hernandez**

*Dean, College of Arts and Sciences*

951.343.4767

lhernandez@calbaptist.edu

**Dr. Jacqueline Gustafson**

*Dean, College of Behavioral  
and Social Sciences*

951.343.4487

jgustafson@calbaptist.edu

**Dr. Philip Van Haaster**

*Dean, Gordon and Jill Bourns  
College of Engineering*

951.343.4841

pvanhaaster@calbaptist.edu

**Dr. David Pearson**

*Dean, College of Health Science*

951.343.4619

dpearson@calbaptist.edu

**Dr. Karen Bradley**

*Vice President, CBU Health  
Dean, College of Nursing*

951.552.8913

kbradley@calbaptist.edu

**Dr. Tim Gramling**

*Vice President for Diversity  
Dean, Dr. Robert K. Jabs  
School of Business*

**Dr. Joseph Bolin**

*Dean, Shelby and Ferne Collinsworth  
School of Performing Arts*

951.343.4251

jbolin@calbaptist.edu

**Dr. Wayne Fletcher**

*Associate Provost, Academic Services*

951.552.8175

wfletcher@calbaptist.edu

**Dr. Elizabeth Morris**

*Associate Provost, Educational Effectiveness*

951.343.4507

emorris@calbaptist.edu

**Dr. Elisa Shepard**

*Associate Provost, Online Education*

951.343.9946

eshepard@calbaptist.edu

**Dr. Tracy Ward**

*Associate Provost, Administration*

951.343.4552

tward@calbaptist.edu

**Dr. Steve Emerson**

*Director of Library*

951.343.4415

semerson@calbaptist.edu

**Dr. Steve Neilsen**

*Dean of Academic Persistence and Support*

951.343.4614

sneilsen@calbaptist.edu

**Dr. Rich Simpson**

*University Registrar*

951.552.8324  
tgramling@calbaptist.edu

**Dr. Christopher Morgan**  
*Dean, School of Christian Ministries*  
951.343.4248  
cmorgan@calbaptist.edu

**Dr. Robin Duncan**  
*Dean, Dr. Bonnie G. Metcalf  
School of Education*  
951.552.8948  
rduncan@calbaptist.edu

951.343.4579  
rsimpson@calbaptist.edu

**Dr. Tae Sung**  
*Dean of Student Success*

951.552.8992  
tsung@calbaptist.edu

# College of Architecture, Visual Arts, and Design

**Mr. Mark Roberson**

*Dean*

**Dr. Matthew Niermann**

*Associate Dean*

**Dr. Katherine Papineau**

*Associate Dean*

**Mr. Rene Lopez**

*Director of Academic Operations*

Phone 951.552.8910

## Faculty Information

The College of Architecture, Visual Arts, and Design embraces the entire spectrum of design-oriented disciplines, all students will experience our interdisciplinary approach to learning that offers unique and unlimited opportunities for collaboration, inspiration, and most importantly, a deep and well-rounded education. And building on this broad foundation, the college is continually expanding our program offerings to ensure our students continue to receive the most innovative and comprehensive education.

Students also benefit from a practice-based approach that connects them directly with professional organizations throughout Southern California, exposing them to real business situations, and often allowing them to take part in the professional process through mentoring and internships. What makes the College of Architecture, Visual Arts, and Design truly unique is that we teach these programs from a Christian worldview, encouraging students to use their creative talents to engage and inspire the world around them.

## Major

### Architecture, BA

The Architecture major creates a rich academic environment marked by the confluence of advanced practice, contemporary theory, and social engagement. Our primary goal is to help students develop the capacity and judgment necessary to understand the built environment and generate architecture as a critical response, so that each student can engage both the discipline of architecture and the multiple discourses - artistic, technological, social, political, environmental, economic, spiritual - necessary to be a successful practitioner and a conscientious citizen with a Biblical worldview.

The Bachelor of Arts in Architecture at CBU is intended as a degree that will allow a student to proceed onto graduate studies, or into the workforce, in architecture or another discipline. It is not designed to be an accredited, professional degree and therefore does not satisfy the qualifications for licensure as an architect in most states in the U.S.

## Traditional Major Program Requirements (90-105 units)

### Lower Division Requirements

- ARC 120 - Design Communication
- ARC 122 - Design Fundamentals
- ARC 210 - Design Studio I

- ARC 212 - Design Studio II
- ARC 220 - Computer Modeling
- ARC 240 - Architectural History I
- ARC 242 - Architectural History II
- ARC 280 - Materials and Methods
- DES 110 - Creativity: Process and Purpose
- MAT 245 - Analytical Geometry and Calculus I **OR**
- MAT 145 - Mathematical Methods in the Natural Sciences
- PHY 115 - Physics for Architects with Lab

## Upper Division Requirements

- ARC 310 - Design Studio III
- ARC 312 - Design Studio IV
- ARC 350 - Architectural Theory I
- ARC 370 - Professional Preparation
- ARC 380 - Thermal Environmental Systems
- ARC 385 - Luminous and Sonic Environmental Systems
- ARC 393 - Structural Systems I
- ARC 410 - Design Studio V
- ARC 493 - Structural Systems II
- ENT 357 - Small Business Management

## Upper Division Elective Requirements

Complete six (6) units from the following:

- ARC 412 - Design Studio VI
- ARC 460 - International Design Seminar
- ARC 462 - International History and Theory Seminar
- ARC 480 - Advanced Sustainable Systems
- BUS 475 - Project and Team Management
- DES 310 - Creativity: Collaboration and Context

## Optional Concentration Courses (12-15 units)

Students have the option of completing a concentration in one of the following: Architectural Representation; Construction Management; Human Factors in Design; Religion and the Built Environment

### Architectural Representation (15 units)

#### Lower Division Requirement

- GDM 215 - Principles: Introduction to Graphic Design

#### Upper Division Requirements

Complete twelve (12) units from the following:

- GDM 315 - Practice: Designing Brand Identity
- GDM 351 - 3D Concept Design I
- GDM 353 - 3D Concept Design II
- GDM 354 - Mixed Reality Concept Design

## Construction Management (12 units)

Complete twelve (12) units from the following:

- CON 330 - Construction Safety
- CON 350 - Project Delivery, Law and Contracts
- CON 430 - Advanced Estimating
- CON 460 - Construction Planning and Scheduling
- EGR 451 - Project and Construction Management

## Human Factors in Design (12 units)

Complete twelve (12) units from the following:

- ANT 325 - Physical Anthropology and Archaeology
- ANT 340 - Theory in Anthropology
- ANT 410 - Economic and Political Anthropology
- PSY 305 - Developmental Psychology: Child
- PSY 315 - Developmental Psychology: Adolescence and Adulthood
- PSY 328 - Cognitive Psychology
- PSY 338 - Sensation and Perception
- PSY 458 - Motivation and Emotion
- SOC 335 - Social Problems
- SOC 338 - Group Dynamics and Social Movements
- SOC 348 - Sociology of Aging
- SOC 355 - Social Stratification

## Religion and the Built Environment (12 units)

Complete twelve (12) units from the following:

- ANT 460 - Religion and Culture
- CBS 403 - Congregation and Community
- CBS 420 - Behavioral Implications of Theology
- CST 360 - Church History
- PHI 353 - Comparative Religions
- SOC 349 - Sociology of Religion

## Art Education, BA

The Art Education major will prepare students for visual art teaching careers working in the context of K-12 education. Candidates for the Art Education major will complete the state-approved Visual Art Single Subject Matter Program, which will satisfy the subject-matter competency requirement from the California Commission on Teacher Credentialing (CTC). As a state-approved teacher preparation program, the requirements for the Visual Art Single Subject Matter Program are subject to revision at any time by state or federal law. Art Education majors will be eligible to obtain a California teaching credential, by completing the professional methods courses with fieldwork and student teaching after applying and being admitted to the Preliminary Single Subject credential program under the School of Education.

Students choosing the Art Education major must additionally be admitted into the Credential program for Preliminary Single Subject Credential. Students who do not meet the credential requirements may not be able to complete the major due to accreditation requirements.

Candidates must complete all credential and state requirements to be eligible for a credential. Credential requirements can be obtained from the School of Education credential program advisors.

## Traditional Major Program Requirements (98 units)

### Lower Division Requirements

- ART 201 - Principles of Design and Color
- ART 208 - Studio Drawing I
- ART 225 - Sculpture I
- ART 232 - Ceramics I
- ART 241 - Global History of Art: Ancient to Medieval
- ART 242 - Global History of Art: Renaissance to Contemporary
- ART 283 - Painting I
- DES 101 - Design Technology Applications I
- DES 110 - Creativity: Process and Purpose
- ILL 250 - Digital Painting I
- PHO 105 - Digital Photography

### Upper Division Requirements

- ART 300 - Advanced Art
- ART 301 - Color, Theory, and Application
- ART 304 - Perspective Drawing
- ART 305 - Figure Drawing I
- ART 325 - Sculpture II **OR**
- ART 353 - Ceramics II
- ART 383 - Painting II **OR**
- ILL 350 - Digital Painting II
- ART 415 - Aesthetics and the Classroom
- DES 310 - Creativity: Collaboration and Context

- PHI 312 - Beauty

## Upper Division Art History and Art Theory Coursework

Complete three (3) units from the following:

- ART 345 - Nineteenth Century Art History
- ART 346 - History of Modern Painting
- ART 347 - Contemporary Art History
- ART 351 - Museum Studies
- ART 361 - Art of Latin America
- ART 371 - Art of Southeast Asia
- ART 381 - Women in the Arts
- ART 391 - Art Theory
- ART 412 - Topics in Art History

## Preliminary Single Subject Credential

- EDU 407 - Reading and Writing in the Content Areas
- EDU 411 - Theories and Methods of Teaching Diverse Students
- EDU 451 - Classroom Management and Ethics for Middle and High School Teachers
- EDU 452 - The Exceptional Child in Middle and High School Settings
- EDU 481 - Initial Clinical Practice: Preliminary Single Subject Credential
- EDU 482 - Final Clinical Practice: Preliminary Single Subject Credential
- EDU 490V - Subject Area Specialization: Visual Art
- EDU 497 - Secondary Methods
- EDU 499 - Student Teaching Portfolio
- SPE 430 - Professional Relationships in Middle and High School Settings

## Art Therapy Studies, BA

The pre-professional Art Therapy degree prepares students for graduate study in the field of Art Therapy or Counselling by fulfilling the undergraduate requirements for graduate school admission set forth by The American Art Therapy Association. Certified practitioners of Art Therapy integrate the practice of studio arts and the fields of human development with current theories and models of counseling.

## Traditional Major Program Requirements (63 units)

### Lower Division Requirements

- ART 201 - Principles of Design and Color
- ART 208 - Studio Drawing I
- ART 225 - Sculpture I
- ART 232 - Ceramics I
- ART 283 - Painting I
- DES 110 - Creativity: Process and Purpose
- PSY 213 - General Psychology



- STA 144 - Introduction to Statistics

## Upper Division Requirements

- ART 300 - Advanced Art
- ART 301 - Color, Theory, and Application
- ART 325 - Sculpture II **OR**
- ART 353 - Ceramics II **OR**
- ART 383 - Painting II
- ART 495 - Art Therapy Studio
- PSY 320 - Life-Span Development
- PSY 322 - Theories of Personality
- PSY 328 - Cognitive Psychology
- PSY 346 - Abnormal Psychology
- PSY 376 - Art Therapy

## Upper Division Elective Requirements

Complete six (6) units from the following:

- BEH 440 - Field Experience
- PSY 305 - Developmental Psychology: Child **OR**
- PSY 315 - Developmental Psychology: Adolescence and Adulthood
- PSY 422 - Theories of Counseling
- PSY 443 - Social Psychology
- PSY 473 - Psychophysiology

## Film, BA

Film is the most culturally influential artistic medium in our era. The Film major equips students both to understand film as a culture-shaping force and to pursue diverse careers in the entertainment industry. Students choose one of four concentrations: Film and Screen Media Studies, Film Post Production, Film Production, or Screenwriting. Film majors develop valuable technical knowledge and experience as well as sharp critical thinking skills and significant audio-visual literacy. In a world that increasingly relies on visual information, a comprehension of how meaning grows out of the moving image is indispensable to a deeper social and cultural understanding. Our majors have the opportunity to learn how to apply this knowledge to filmmaking by creating high quality films on state-of-the-art equipment, writing screenplays and teleplays, and exploring the best of global cinema.

## Traditional Major Program Requirements (39-54 units)

### Lower Division Requirements

- DES 110 - Creativity: Process and Purpose
- FLM 105 - Introduction to Film
- FLM 150 - Film History

- FLM 250 - Film Theory and Criticism

## Upper Division Requirements

- FLM 450 - World Cinema
- FLM 499 - Senior Capstone Project

## Concentration Courses (21-36 units)

Students must complete all requirements in one of the following concentrations: Film and Screen Media Studies; Film Post Production; Film Production; Screenwriting

### Film and Screen Media Studies (21 units)

#### Core Requirements

- FLM 340 - Major Directors
- FLM 350 - Film and Literature
- FLM 420 - Independent Film and Counter-Cinema
- FLM 470 - Adaptation and Intertextuality

#### Elective Requirements

Complete nine (9) additional units from the following:

- ART 385 - Film as Visual Art
- DES 310 - Creativity: Collaboration and Context
- FLM 200 - Special Topics in Film
- FLM 210 - Film Genre
- FLM 300 - National Cinema
- FLM 301 - Basic Screenwriting
- FLM 302 - Writing Short Screenplays
- FLM 303 - Asian Cinema
- FLM 305 - Christianity and Film
- FLM 320 - Sundance Film Festival with Windrider Forum
- FLM 370 - Writing for Streaming Media
- FLM 390 - Film Industry
- FLM 400 - Special Topics in Film
- FLM 403 - Writing Adapted Screenplays
- FLM 491 - Film Practicum
- FLP 170 - Film Production I: Visual Storytelling
- FLP 180 - Video Editing and Post Production I
- FLP 306 - Film Production II: Creative Producing
- FLP 360 - Cinematography
- FLP 406 - Film Directing
- MUS 386 - Audio Recording and Studio Techniques I
- THE 113 - Makeup for Stage and Screen

## Film Post Production (36 units)

### Core Requirements

- DES 310 - Creativity: Collaboration and Context
- FLM 301 - Basic Screenwriting
- FLP 170 - Film Production I: Visual Storytelling
- FLP 180 - Video Editing and Post Production I
- GDM 351 - 3D Concept Design I
- GDM 352 - Visual Effects Concept Design
- MUS 377 - Post Production and Editing
- MUS 386 - Audio Recording and Studio Techniques I
- MUS 487 - Sound Design for Film and Multimedia

### Film Studies Elective Requirement

Complete three (3) additional units from the following:

- FLM 200 - Special Topics in Film
- FLM 210 - Film Genre
- FLM 300 - National Cinema
- FLM 303 - Asian Cinema
- FLM 305 - Christianity and Film
- FLM 320 - Sundance Film Festival with Windrider Forum
- FLM 340 - Major Directors
- FLM 350 - Film and Literature
- FLM 390 - Film Industry
- FLM 400 - Special Topics in Film
- FLM 420 - Independent Film and Counter-Cinema
- FLM 470 - Adaptation and Intertextuality

### Film Production Elective Requirements

Complete six (6) additional units from the following:

- ART 385 - Film as Visual Art
- FLM 491 - Film Practicum
- FLP 306 - Film Production II: Creative Producing
- FLP 360 - Cinematography
- FLP 406 - Film Directing
- GDM 354 - Mixed Reality Concept Design
- MUS 309 - History of Film Music
- MUS 387 - Audio Recording and Studio Techniques II
- THE 113 - Makeup for Stage and Screen

## Film Production (36 units)

### Core Requirements

- DES 310 - Creativity: Collaboration and Context
- FLM 301 - Basic Screenwriting
- FLM 390 - Film Industry
- FLP 170 - Film Production I: Visual Storytelling
- FLP 180 - Video Editing and Post Production I
- FLP 306 - Film Production II: Creative Producing
- FLM 350 - Film and Literature
- FLP 360 - Cinematography
- FLP 406 - Film Directing
- MUS 386 - Audio Recording and Studio Techniques I

### Film Studies Elective Requirement

Complete three (3) additional units from the following:

- FLM 200 - Special Topics in Film
- FLM 210 - Film Genre
- FLM 300 - National Cinema
- FLM 303 - Asian Cinema
- FLM 305 - Christianity and Film
- FLM 320 - Sundance Film Festival with Windrider Forum
- FLM 340 - Major Directors
- FLM 350 - Film and Literature
- FLM 400 - Special Topics in Film
- FLM 420 - Independent Film and Counter-Cinema
- FLM 470 - Adaptation and Intertextuality

### Film Production Elective Requirement

Complete three (3) additional units from the following:

- ART 385 - Film as Visual Art
- FLM 302 - Writing Short Screenplays
- FLM 370 - Writing for Streaming Media
- FLM 403 - Writing Adapted Screenplays
- FLM 491 - Film Practicum
- GDM 352 - Visual Effects Concept Design
- MUS 309 - History of Film Music
- MUS 377 - Post Production and Editing
- MUS 487 - Sound Design for Film and Multimedia
- THE 113 - Makeup for Stage and Screen

### Screenwriting (30 units)

### Core Requirements

- ENG 201 - Introduction to Literature **OR**
- ENG 273 - Introduction to Creative Writing

- FLM 301 - Basic Screenwriting
- FLM 302 - Writing Short Screenplays
- FLM 350 - Film and Literature
- FLM 370 - Writing for Streaming Media
- FLM 403 - Writing Adapted Screenplays
- FLM 470 - Adaptation and Intertextuality

## Elective Requirements

Complete nine (9) additional units from the following:

- ART 385 - Film as Visual Art
- DES 310 - Creativity: Collaboration and Context
- FLM 200 - Special Topics in Film
- FLM 300 - National Cinema
- FLM 303 - Asian Cinema
- FLM 305 - Christianity and Film
- FLM 320 - Sundance Film Festival with Windrider Forum
- FLM 340 - Major Directors
- FLM 390 - Film Industry
- FLM 400 - Special Topics in Film
- FLM 420 - Independent Film and Counter-Cinema
- FLM 491 - Film Practicum
- FLP 170 - Film Production I: Visual Storytelling
- FLP 180 - Video Editing and Post Production I
- FLP 306 - Film Production II: Creative Producing
- FLP 360 - Cinematography
- FLP 406 - Film Directing
- THE 113 - Makeup for Stage and Screen

## Fine Art, BA

The Fine Art program offers a curriculum intended to stimulate creative ability, impart effective technique and foster an understanding and appreciation of the dynamic role of visual art in culture, whether defined locally or globally and grounded in a Biblical worldview. While recognizing the unique intersection of technology and tradition that has transformed the practice of visual art in our time, the program emphasizes traditional media: drawing, painting, printmaking and sculpture. The result is to provide quality professional preparation that can be realized in market-based applications and/or further graduate-level studies.

## Traditional Major Program Requirements (67 units)

### Lower Division Requirements

- ART 201 - Principles of Design and Color
- ART 208 - Studio Drawing I
- ART 225 - Sculpture I
- ART 232 - Ceramics I
- ART 241 - Global History of Art: Ancient to Medieval

- ART 242 - Global History of Art: Renaissance to Contemporary
- ART 283 - Painting I
- DES 101 - Design Technology Applications I
- DES 110 - Creativity: Process and Purpose
- ILL 250 - Digital Painting I

## Upper Division Requirements

- ART 300 - Advanced Art
- ART 301 - Color, Theory, and Application
- ART 304 - Perspective Drawing
- ART 305 - Figure Drawing I
- ART 325 - Sculpture II **OR**
- ART 353 - Ceramics II
- ART 383 - Painting II **OR**
- ILL 350 - Digital Painting II
- ART 499 - Senior Exhibition
- DES 310 - Creativity: Collaboration and Context
- PHI 312 - Beauty

## Upper Division Art History and Theory Elective Requirements

Complete three (3) units from the following:

- ARC 350 - Architectural Theory I
- ART 345 - Nineteenth Century Art History
- ART 346 - History of Modern Painting
- ART 347 - Contemporary Art History
- ART 351 - Museum Studies
- ART 361 - Art of Latin America
- ART 371 - Art of Southeast Asia
- ART 381 - Women in the Arts
- ART 391 - Art Theory
- ART 412 - Topics in Art History

## Graphic Design and Digital Media, BA (Online)

### Online Major Program Requirements (48 units)

#### Prerequisites to Program

- ART 204 - Drawing I
- ENG 113 - Composition
- ENG 123 - Intermediate Composition

## Lower Division Requirements

- GDM 110 - Fundamental Design
- GDM 120 - Fundamental Typography
- GDM 130 - Fundamental Image
- GDM 140 - Fundamental Web

## Upper Division Requirements

- GDM 305 - History of Graphic Design
- GDM 310 - Intermediate Design
- GDM 320 - Intermediate Typography
- GDM 330 - Intermediate Image
- GDM 340 - Intermediate Web
- GDM 410 - Advanced Design
- GDM 420 - Advanced Typography
- GDM 430 - Advanced Image
- GDM 440 - Advanced Web
- GDM 499 - Senior Project

## Additional Program Courses

- CST 100 - Overview of the Bible
- CST 300-400 Upper Division Christian Studies (3 units)

## Graphic Design and Visual Experience, BA

The Graphic Design and Visual Experience major is a multidisciplinary program that prepares students to think critically, creatively, and experimentally, in pursuit of creating relevant, meaningful design solutions. The major prepares students for careers as practitioners and art directors in professions including graphic design, experience design, emerging media, 3D, animation and motion design. This studio-based major gives student's a rigorous education that results in a competitive, well-rounded portfolio that stands out in the graphic design industry.

## Traditional Major Program Requirements (66-69 units)

### Lower Division Requirements

- ART 201 - Principles of Design and Color
- ART 204 - Drawing I
- DES 101 - Design Technology Applications I
- DES 110 - Creativity: Process and Purpose
- GDM 215 - Principles: Introduction to Graphic Design
- GDM 225 - Principles: Letterforms and Structure
- GDM 235 - Principles: Image Visualization
- GDM 240 - Principles: Innovations in Design
- PHO 105 - Digital Photography

## Upper Division Requirements

- DES 310 - Creativity: Collaboration and Context
- DES 498 - Portfolio
- GDM 315 - Practice: Designing Brand Identity
- GDM 325 - Practice: Typographic Form and Space
- GDM 335 - Conceptual Image Making
- GDM 371 - User Interface and User Experience Design I
  
- GDM 342 - Motion Design I **OR**
- GDM 351 - 3D Concept Design I
  
- GDM 495 - Design Capstone
- PHI 312 - Beauty

## Concentration Courses (12-15 units)

Students must complete all requirements in one of the following concentrations: Graphic Design; Illustration; Motion Design; Photography; Visual Experience Design

### Graphic Design (15 units)

#### Core Requirements

- GDM 415 - Studio: Visual Systems Design (6 units)
- GDM 425 - Studio: Typographic Hierarchies
- GDM 435 - Studio: Image and Art Direction

#### Elective Requirement

Complete three (3) additional units from the following:

- GDM 342 - Motion Design I
- GDM 351 - 3D Concept Design I
- GDM 371 - User Interface and User Experience Design I
- GDM 425 - Studio: Typographic Hierarchies
- GDM 435 - Studio: Image and Art Direction
- ILL 350 - Digital Painting II
- PHO 332 - Studio Lighting

### Illustration (15 units)

#### Core Requirements

- GDM 425 - Studio: Typographic Hierarchies
- ILL 210 - Illustration I
- ILL 310 - Illustration II
- ILL 350 - Digital Painting II



## Elective Requirement

Complete three (3) additional units from the following:

- GDM 415 - Studio: Visual Systems Design
- GDM 425 - Studio: Typographic Hierarchies
- GDM 435 - Studio: Image and Art Direction

## Motion Design (12 units)

- GDM 342 - Motion Design I **OR**
- GDM 351 - 3D Concept Design I
- GDM 343 - Motion Design II
- GDM 352 - Visual Effects Concept Design
- GDM 455 - Studio: Visual Experience Design

## Photography (15 units)

### Core Requirements

- GDM 435 - Studio: Image and Art Direction
- PHO 332 - Studio Lighting
- PHO 350 - Digital Printing and Color Management
- PHO 432 - Location Lighting

## Elective Requirement

Choose three (3) additional units from the following:

- GDM 415 - Studio: Visual Systems Design
- GDM 425 - Studio: Typographic Hierarchies

## Visual Experience Design (15 units)

- GDM 351 - 3D Concept Design I
- GDM 352 - Visual Effects Concept Design
- GDM 353 - 3D Concept Design II
- GDM 354 - Mixed Reality Concept Design
- GDM 455 - Studio: Visual Experience Design

## **Illustration, BA**

The Bachelor of Arts in Illustration degree develops students in the art of visual and conceptual storytelling in a variety of artistic mediums, preparing them to pursue a career as a professional illustrator.

## Traditional Major Program Requirements (70 Units)

## Lower Division Requirements

- ART 201 - Principles of Design and Color
- ART 208 - Studio Drawing I
- ART 283 - Painting I *OR*
- GDM 215 - Principles: Introduction to Graphic Design **OR**
- GDM 225 - Principles: Letterforms and Structure
- BIO 153 - Anatomy and Physiology I
- DES 101 - Design Technology Applications I
- DES 110 - Creativity: Process and Purpose
- ILL 210 - Illustration I
- ILL 250 - Digital Painting I
- GDM 240 - Principles: Innovations in Design **OR**
- ART 242 - Global History of Art: Renaissance to Contemporary
- KIN 264 - Movement Anatomy

## Upper Division Requirements

- ART 304 - Perspective Drawing
- ART 305 - Figure Drawing I
- DES 310 - Creativity: Collaboration and Context
- DES 498 - Portfolio
- ENG 371 - The Graphic Novel
- ILL 305 - The Figure in Motion (4 units)
- ILL 310 - Illustration II
- ILL 350 - Digital Painting II
- ILL 400 - Special Topics in Illustration
- ILL 410 - Illustration Studio (6 units)
- PHI 312 - Beauty

## Optional Concentration Courses (12-15 units)

Students have the option of completing a concentration in one of the following: Fine Art; Motion Design

### Fine Art

- ART 283 - Painting I
- ART 300 - Advanced Art **OR**
- ART 383 - Painting II
- ART 301 - Color, Theory, and Application

### Motion Design

- GDM 215 - Principles: Introduction to Graphic Design
- GDM 315 - Practice: Designing Brand Identity

- GDM 342 - Motion Design I
- GDM 343 - Motion Design II
- GDM 352 - Visual Effects Concept Design

## **Interior Design, BA**

The Interior Design major develops students in the art of applying artistic principles and techniques to the professional planning, designing, equipping, and furnishing of interior spaces - preparing them to pursue professional practice as interior designers.

### **Traditional Major Program Requirements (65 units)**

#### **Lower Division Requirements**

- ARC 120 - Design Communication
- ARC 122 - Design Fundamentals
- ARC 220 - Computer Modeling
- ARC 242 - Architectural History II
- DES 110 - Creativity: Process and Purpose
- IND 250 - Space Planning and Code
- IND 280 - Materials, Finishes, and Sourcing

#### **Upper Division Requirements**

- ARC 385 - Luminous and Sonic Environmental Systems
- ART 301 - Color, Theory, and Application
- DES 310 - Creativity: Collaboration and Context
- DES 498 - Portfolio
- ENT 357 - Small Business Management
- IND 310 - Interior Design Studio I
- IND 312 - Interior Design Studio II
- IND 340 - The Historic Interior
- IND 410 - Interior Design Studio III
- IND 412 - Interior Design Studio IV

## **Photography, BA**

The Photography major explores the practice and theory of photography via technical understandings and methodological explorations of the photography medium as applied to commercial, fine art, and social practice. Through the introduction of narrative, conceptual development, and Christian worldview - students will acquire a unique stylistic aesthetic and photographic voice leading to a professional portfolio.

### **Traditional Major Program Requirements (54 units)**

#### **Lower Division Requirements**

- DES 110 - Creativity: Process and Purpose
- PHO 105 - Digital Photography
- PHO 110 - Commercial Photography
- PHO 120 - Fine Art Photography
- PHO 140 - History of Photography
- PHO 250 - Post-Production

## Upper Division Requirements

- DES 310 - Creativity: Collaboration and Context
- PHO 310 - Process and Practice
- PHO 330 - Visual Storytelling
- PHO 332 - Studio Lighting
- PHO 350 - Digital Printing and Color Management
- PHO 400 - Special Topics in Photography
- PHO 415 - Context and Narrative
- PHO 432 - Location Lighting
- PHO 433 - Studio Practice
- PHO 450 - Digital Asset Management
- PHO 485 - Photography Business
- PHO 499 - Portfolio and Gallery

## Minor

### Art History Minor

#### Traditional Minor Program Requirements (21-22 units)\*

\* Fine Art majors and minors must complete nine (9) additional Art History or Theory elective units unique to the Art History minor.

## Lower Division Requirements

- ART 241 - Global History of Art: Ancient to Medieval
- ART 242 - Global History of Art: Renaissance to Contemporary

## Lower Division Studio Elective Requirement

Complete three to four (3-4) units from the following:

- ART 201 - Principles of Design and Color
- ART 204 - Drawing I
- ART 225 - Sculpture I
- ART 232 - Ceramics I
- DES 110 - Creativity: Process and Purpose

## Upper Division Art History and Theory Elective Requirements

Complete twelve (12) units from the following:

- ARC 350 - Architectural Theory I
- ART 345 - Nineteenth Century Art History
- ART 346 - History of Modern Painting
- ART 347 - Contemporary Art History
- ART 351 - Museum Studies
- ART 361 - Art of Latin America
- ART 371 - Art of Southeast Asia
- ART 381 - Women in the Arts
- ART 412 - Topics in Art History
- ART 430 - Art and the Bible
- FLM 300 - National Cinema
- FLM 450 - World Cinema
- GDM 305 - History of Graphic Design

## Film Minor

### Traditional Minor Program Requirements (21 units)

#### Lower Division Requirements

- FLM 105 - Introduction to Film
- FLM 150 - Film History
- FLM 250 - Film Theory and Criticism **OR**
- FLP 170 - Film Production I: Visual Storytelling

#### Upper Division Elective Requirements

Complete twelve (12) additional units from the following:

- FLM 300 - National Cinema
- FLM 301 - Basic Screenwriting
- FLM 302 - Writing Short Screenplays
- FLM 303 - Asian Cinema
- FLM 305 - Christianity and Film
- FLM 340 - Major Directors
- FLM 350 - Film and Literature
- FLM 370 - Writing for Streaming Media
- FLM 390 - Film Industry
- FLM 400 - Special Topics in Film
- FLM 403 - Writing Adapted Screenplays
- FLM 420 - Independent Film and Counter-Cinema
- FLM 430 - Film and Sound
- FLM 450 - World Cinema

- FLM 470 - Adaptation and Intertextuality
- FLM 491 - Film Practicum (1-15 units)
- FLP 306 - Film Production II: Creative Producing
- FLP 360 - Cinematography
- FLP 380 - Video Editing and Post Production II
- FLP 406 - Film Directing

## **Fine Art Minor**

The Fine Art minor offers a curriculum intended to stimulate creative ability, impart effective technique and foster an understanding and appreciation of the dynamic role of visual art in culture, whether defined locally or globally and grounded in a Biblical worldview.

### **Traditional Minor Program Requirements (24-25 units)**

#### **Lower Division Requirement**

- ART 201 - Principles of Design and Color
- ART 208 - Studio Drawing I
- ART 241 - Global History of Art: Ancient to Medieval **OR**
- ART 242 - Global History of Art: Renaissance to Contemporary

#### **Lower Division Studio Elective Requirement**

Complete three to four (3-4) units from the following:

- ART 225 - Sculpture I
- ART 232 - Ceramics I
- ART 283 - Painting I

#### **Upper Division Requirement**

- ART 301 - Color, Theory, and Application

#### **Upper Division Studio Art Elective Requirements**

Complete eight (8) units from the following:

- ART 300 - Advanced Art
- ART 305 - Figure Drawing I
- ART 325 - Sculpture II
- ART 353 - Ceramics II
- ART 383 - Painting II

## **Illustration Minor**

### Traditional Minor Program Requirements (23 Units)

#### Lower Division Requirements

- ART 208 - Studio Drawing I
- ILL 210 - Illustration I
- ILL 250 - Digital Painting I

#### Upper Division Requirements

- ART 305 - Figure Drawing I
- ILL 310 - Illustration II
- ILL 350 - Digital Painting II
- ILL 410 - Illustration Studio *OR*
- ILL 400 - Special Topics in Illustration

## **Photography Minor**

### Traditional Minor Program Requirements (24 units)

#### Lower Division Requirements

- PHO 105 - Digital Photography
- PHO 140 - History of Photography
- PHO 250 - Post-Production

#### Upper Division Requirements

- PHO 310 - Process and Practice
- PHO 330 - Visual Storytelling
- PHO 332 - Studio Lighting
- PHO 350 - Digital Printing and Color Management
- PHO 432 - Location Lighting

## **Visual Experience Design Minor**

### Traditional Minor Program Requirements (18 units)

#### Lower Division Requirements

- DES 101 - Design Technology Applications I
- GDM 215 - Principles: Introduction to Graphic Design

## Upper Division Requirements

- GDM 351 - 3D Concept Design I
- GDM 371 - User Interface and User Experience Design I

## Upper Division Elective Requirements

Complete six (6) units from the following:

- GDM 352 - Visual Effects Concept Design
- GDM 353 - 3D Concept Design II
- GDM 354 - Mixed Reality Concept Design
- GDM 400 - Special Topics in Graphic Design
- GDM 455 - Studio: Visual Experience Design



# College of Arts and Sciences

**Dr. Lisa Hernandez**

*Dean*

**Dr. Laura Veltman**

*Associate Dean of the Division of Arts and Letters*

**Dr. Thomas Ferko**

*Associate Dean of the Division of Natural and Mathematical Sciences*

**Dr. Thomas Schneider**

*Associate Dean for Online Education*

**Zara Melcher**

*Administrative Assistant*

Phone 951.343.4363

[zmelcher@calbaptist.edu](mailto:zmelcher@calbaptist.edu)

## Faculty Information

The College of Arts and Sciences comprises six departments: the Division of Arts and Letters, which includes Communication Arts, History and Government, and Modern Languages and Literature; and the Division of Natural and Mathematical Sciences, which includes Biological Sciences, Chemical Sciences, and Mathematical Sciences. Together they reflect and promote studies in and personal pursuit of the finest in human artistic, intellectual, scientific and spiritual achievements. All curricula are aimed at enriching the lives of our students by enabling them to grow in sensitivity to themselves, their heritages, and the world around them.

Integration of faith with learning is key both to our identity and our mission, our tasks and our goals. Our commitment to applying faith to life is second to none. If you want to pursue a job to earn a living, a degree program in most any university will do. But if you want to pursue a calling, CBU and the programs in the College of Arts and Sciences will prepare you for the race.

## Division

Arts and Letters

Laura Veltman, Ph.D.

### Departments

Communication Arts

Victoria Brodie, Ed.D.

History and Government

Chase Porter, Ph.D.

Modern Languages and Literature

Erika Travis, Ph.D.

## Division

Natural and Mathematical Sciences

Thomas Ferko, Ph.D.

### Departments

Biological Sciences

Bruce Prins, Ph.D.

Chemical Sciences

Patrick Schacht, Ph.D.

Mathematical Sciences

Robert Willett, Ph.D.

## **Division of Arts and Letters - Department of Communication Arts**

### **Division of Arts and Letters**

#### **Dr. Laura Veltman**

*Associate Dean of the Division of Arts and Letters*

#### **Sean Langevin**

*Administrative Secretary*

Phone 951.343.4590

slangevin@calbaptist.edu

#### **Faculty Information**

The Division of Arts and Letters consists of three departments: Communication Arts, History and Government, and Modern Languages and Literature. Most of our programs are rooted in traditional disciplines that have stood the test of time in academia, and all of the programs equip our students with the necessary tools for today's global market while training them in the skills they need to conquer the challenges of tomorrow.

### **Department of Communication Arts**

#### **Dr. Victoria Brodie**

*Chair*

#### **Patty VanBuskirk**

*Department Secretary*

Phone 951.343.4964

pvanbuskirk@calbaptist.edu

#### **Faculty Information**

Communication is a foundational skill in all sectors of the professional world. And, in a rapidly shifting environment, there has never been a more pressing need for excellent communicators.

Our programs integrate deep conceptual knowledge with strong practical experience, through close collaboration with faith-based faculty mentors whose influence stretches from scholarly research to creative communication production. As a result, students do more than master the technical skills of the discipline - they learn to think critically about the way messages are created, conveyed, and consumed in modern society.

With so many unique ways to communicate, the Communication Arts department offers Bachelor of Arts degrees in Communication Studies, Public Relations, Strategic Communication, and Journalism and New Media. In addition, we offer a Master of Arts degree in Strategic Communication. In the Communication Arts department, we are preparing students for careers in a wide variety of communication professions. In this dynamically changing communication landscape, strong communication skills through multitude of platforms translates to professional success.

# Major

## Communication Studies, BA

The Bachelor of Arts in Communication Studies provides a thoroughly integrated yet individual degree program that prepares students for careers in the dynamically changing world of communication. In addition, the program provides a foundation for those graduates who wish to pursue advanced degrees. Through coursework and extracurricular experiences, Communication Studies majors develop a set of skills in digital, oral, written, and visual communication that enables them to research, design, present, and evaluate messages across diverse contexts and from a variety of platforms, including social media and digital communication technology.

### Traditional Major Program Requirements (36 units)

#### Lower Division Requirements

- COM 113 - Oral Communication

#### Upper Division Requirements

- COM 308 - Interpersonal Communications
- COM 340 - Rhetoric and Persuasion
- COM 403 - Communication Theory
- COM 425 - Organizational Communication

### Concentration Requirements (21 units)

Students must complete all requirements in one of the following concentrations: Digital Communication; Speech Communication

#### Digital Communication

- COM 420 - Strategic Communication and Global Engagement
- COM 430 - Communication Research and Methods
- JRN 150 - Media and Society
- JRN 370 - Social Media Strategies

#### Digital Communication Additional Requirements

Complete nine (9) additional units from the following:

- COM 306 - Small Group Communication
- COM 400 - Special Topics in Communication Studies
- COM 435 - Gender and Communication
- COM 450 - Internship in Communication Studies
- ENG 382 - Introduction to Digital Studies
- JRN 325 - Principles of Podcasting and Broadcasting
- PRL 300 - Public Relations

## Speech Communication

- COM 210 - Forensic Workshop
- COM 306 - Small Group Communication
- COM 333 - Oral Interpretation and Readers Theatre
- COM 401 - Argumentation and Debate
- COM 405 - Rhetorical Criticism

## Speech Communication Additional Requirements

Complete six (6) additional units from the following:

- COM 400 - Special Topics in Communication Studies
- COM 410 - Forensic Workshop
- COM 435 - Gender and Communication
- COM 450 - Internship in Communication Studies
- ICS 430 - Intercultural Communication and Practice
- PRL 300 - Public Relations
- THE 312 - Drama in the Classroom
- THE 313 - Advanced Makeup

## Journalism and New Media, BA

The Journalism and New Media major seeks to develop students' skills in writing and multimedia storytelling through professional-level research and investigation, interviewing and reporting, explanatory and analytical media writing, editing, layout and design, and media law and ethical issues.

## Traditional Major Program Requirements (45 units)

### Lower Division Requirements

- JRN 150 - Media and Society
- JRN 170 - Writing for Mass Media
- JRN 210 - Photojournalism
- JRN 215 - News Production for Broadcast and Print Journalism
- JRN 254 - Publication Layout and Design

### Upper Division Requirements

- JRN 312 - Magazine and Feature Writing
- JRN 315 - News Reporting
- JRN 320 - Media Law, Ethics, and Copyright
- JRN 349 - Editing for Print and Online Media
- JRN 415 - Advanced News Production for Broadcast and Print Journalism
- JRN 430 - Multimedia Reporting, Editing, and Producing

## Concentration Courses (12 units)

Students must complete all requirements in one of the following concentrations: Broadcast Journalism; Photojournalism; Writing and Publishing

### Broadcast Journalism

- JRN 325 - Principles of Podcasting and Broadcasting
- JRN 360 - Audio and Video Newsgathering
- JRN 400 - Special Topics in Journalism **OR**
- JRN 450 - Internship in Journalism (3 units)
- JRN 470 - Reporting and Producing for Broadcast Media

### Photojournalism

- JRN 310 - Advanced Photojournalism
- JRN 400 - Special Topics in Journalism *OR*
- JRN 450 - Internship in Journalism (3 units)
- JRN 410 - Editing for Photojournalism
- JRN 414 - Visual Documentary Reporting

### Writing and Publishing

- JRN 370 - Social Media Strategies
- JRN 440 - Writing Columns and Blogs
- JRN 460 - Investigative Reporting
- PRL 302 - Public Relations Writing

## Public Relations, BA

The Bachelor of Arts in Public Relations is designed to develop our next generations of innovative public relations leaders. Throughout this program, students learn about the many nuances of public relations that foster success in the professional arena. Students will be equipped to serve as ethical practitioners and relational champions for organizations. With courses focused on the numerous platforms of public relations, students will be well versed in the academic underpinnings of communication and how they relate to creating powerful messages that move and influence people. Students will learn to communicate strategically through a Christian worldview, whether that messaging is via social media, online, in-person events, through public relations campaigns, during a crisis, or managing an organization's reputation. This program allows students to prepare for the future of public relations.

## Traditional Major Program Requirements (45 units)

### Lower Division Requirements

- JRN 150 - Media and Society
- JRN 170 - Writing for Mass Media
- JRN 254 - Publication Layout and Design

- PRL 202 - Introduction to Public Relations

## Upper Division Requirements

- JRN 312 - Magazine and Feature Writing
- JRN 320 - Media Law, Ethics, and Copyright
- PRL 302 - Public Relations Writing
- PRL 310 - Public Relations Issues and Crisis Management
- PRL 315 - Strategic Event Planning and Experience Management
- PRL 375 - Campaigns and Reputation Management
- PRL 450 - Public Relations Internship
- PRL 475 - Capstone: Leadership and Advanced Campaign Design

## Emphasis Requirements (9 units)

Students must complete all requirements in one of the following: New Media; Professional Management

### New Media

- JRN 325 - Principles of Podcasting and Broadcasting
- JRN 360 - Audio and Video Newsgathering
- JRN 370 - Social Media Strategies

### Professional Management

- COM 425 - Organizational Communication
- PRL 300 - Public Relations
- PRL 320 - Business Literacy for Public Relations Professionals

## Strategic Communication, BA (Online)

The purpose of the online Bachelor of Arts in Strategic Communication degree program is a broad-based course of study designed to deepen students' understanding of the historical, cultural, social, global, and political dimensions of communication. In doing so, coursework will equip students with the tools to examine the role of communication in all areas of life while challenging them to integrate biblical thought within contemporary cultural concepts. Graduates will exhibit values of professional and academic integrity, ethics, diversity, collegiality, community engagement, and proficiency in analyzing the role of a Christian worldview in all facets of communication.

## Online Major Program Requirements (45 units)

### Prerequisites to Program

- ENG 113 - Composition
- ENG 123 - Intermediate Composition

## Lower Division Requirements

- COM 113 - Oral Communication
- COM 250 - Introduction to Communication Studies
- JRN 150 - Media and Society

## Upper Division Requirements

- COM 308 - Interpersonal Communications
- COM 340 - Rhetoric and Persuasion
- COM 375 - Legal, Ethical, and Social Foundations of Communication
- COM 403 - Communication Theory
- COM 420 - Strategic Communication and Global Engagement
- COM 425 - Organizational Communication
- COM 430 - Communication Research and Methods
- COM 440 - Digital Trends in Communication
- COM 485 - Principles of Communication Management and Programming
- PRL 300 - Public Relations
- PRL 402 - Public Relations Research and Campaigns

## Additional Program Courses

- CST 100 - Overview of the Bible
- CST 300-400 Upper Division Christian Studies (3 units)

## Minor

### Communication Studies Minor

#### Traditional Minor Program Requirements (21 units)

#### Lower Division Requirements

#### Forensic Workshop Requirements

Complete three (3) units from the following:

- COM 210 - Forensic Workshop **OR**
- COM 410 - Forensic Workshop

#### Additional Lower Division Requirement

- COM 113 - Oral Communication

#### Upper Division Requirements

Complete fifteen (15) units from the following:

- COM 306 - Small Group Communication

- COM 333 - Oral Interpretation and Readers Theatre
- COM 340 - Rhetoric and Persuasion
- COM 400 - Special Topics in Communication Studies
- COM 401 - Argumentation and Debate
- COM 403 - Communication Theory
- COM 405 - Rhetorical Criticism
- COM 425 - Organizational Communication
- COM 435 - Gender and Communication
- COM 450 - Internship in Communication Studies
- PRL 300 - Public Relations

## **Journalism and New Media Minor**

### **Traditional Minor Program Requirements (24 units)**

#### **Lower Division Requirements**

- JRN 150 - Media and Society
- JRN 170 - Writing for Mass Media
- JRN 210 - Photojournalism
- JRN 215 - News Production for Broadcast and Print Journalism

#### **Upper Division Requirements**

- JRN 312 - Magazine and Feature Writing
- JRN 315 - News Reporting
- JRN 430 - Multimedia Reporting, Editing, and Producing

#### **Upper Division Elective Requirement**

Complete three (3) units from the following:

- JRN 310 - Advanced Photojournalism
- JRN 320 - Media Law, Ethics, and Copyright
- JRN 325 - Principles of Podcasting and Broadcasting
- JRN 340 - Sports Writing
- JRN 349 - Editing for Print and Online Media
- JRN 360 - Audio and Video Newsgathering
- JRN 370 - Social Media Strategies
- JRN 400 - Special Topics in Journalism
- JRN 415 - Advanced News Production for Broadcast and Print Journalism
- JRN 440 - Writing Columns and Blogs
- JRN 460 - Investigative Reporting
- JRN 470 - Reporting and Producing for Broadcast Media

## **Photojournalism Minor**



Students in the photojournalism minor develop the skill of using photography to tell a journalistic story. In addition, students gain artistic and technical skills, such as photo composition, focus, lighting techniques, and photo editing, as well as journalistic skills relating to subjects, reporters, and editors. The photojournalism minor gives aspiring media photographers the education, experience, and opportunity needed to competitively enter the journalism field post-graduation.

## Traditional Minor Program Requirements (18 units)

### Lower Division Requirements

- JRN 170 - Writing for Mass Media
- JRN 210 - Photojournalism

### Upper Division Requirements

- JRN 310 - Advanced Photojournalism
- JRN 410 - Editing for Photojournalism

### Upper Division Elective Requirements

Complete six (6) units from the following:

- JRN 414 - Visual Documentary Reporting
- JRN 450 - Internship in Journalism
- JRN 475 - Editorial Portfolio Production

## Public Relations Minor

## Traditional Minor Program Requirements (24 units)

### Lower Division Requirements

- JRN 150 - Media and Society
- JRN 170 - Writing for Mass Media
- PRL 202 - Introduction to Public Relations

### Upper Division Requirements

- JRN 320 - Media Law, Ethics, and Copyright
- JRN 325 - Principles of Podcasting and Broadcasting
- JRN 349 - Editing for Print and Online Media
- PRL 300 - Public Relations
- PRL 302 - Public Relations Writing

# **Division of Arts and Letters - Department of History and Government**

## **Division of Arts and Letters**

### **Dr. Laura Veltman**

*Associate Dean of the Division of Arts and Letters*

### **Sean Langevin**

*Administrative Secretary*

Phone 951.343.4590

FAX 951.343.4661

slangevin@calbaptist.edu

### **Faculty Information**

The Division of Arts and Letters consists of three departments: Communication Arts, History and Government, and Modern Languages and Literature. While most of our programs are rooted in traditional disciplines that have stood the test of time in academia, we equip our students with the necessary tools for today's global market while training them in the skills they need to conquer the challenges of tomorrow.

## **Department of History and Government**

### **Dr. Chase Porter**

*Chair*

### **Laura Egan**

*Department Secretary*

Phone 951.343.4656

legan@calbaptist.edu

### **Faculty Information**

The mission of the Department of History and Government is to teach students to recognize, analyze, and engage the central issues of human existence in a historical and political context and, as citizens, pursue integration of faith in learning and living. Consistent with this mission, the Department of History and Government provides a theoretical foundation and practical experience in preparation for a wide range of career opportunities. Positions in public and private education, public service, public safety, law enforcement, ministry, higher education, non-profit and graduate study in various fields including law, political science, and history are supported by the Department. Public administration graduate programs within the department develop in-service practitioners for a range of international and domestic professions within the public and non-profit sectors.

## **Major**

### **Criminal Justice, BS**

The Criminal Justice prepares students for careers in a variety of local, state, and federal law enforcement agencies, and for graduate study in related fields.

### **Traditional Major Program Requirements (42 units)**

## Lower Division Requirements

- CJS 113 - Introduction to Criminal Justice
- POL 213 - American Government
- POL 223 - State and Local Government

## Upper Division Requirements

- CJS 341 - Minorities and the Criminal Justice System
- CJS 401 - Crime and Delinquency
- CJS 485 - Methods of Research for Criminal Justice
- POL 485 - Constitutional Law II

## Concentration Courses (21 units)

Students must complete all requirements in the Administration of Justice concentration

### Administration of Justice

- CJS 301 - Fundamentals of Criminal Law
- CJS 321 - Courts and Criminal Procedures
- CJS 331 - Police Systems and Practices
- CJS 496 - Institutional and Community Corrections
- CJS 499 - Senior Project

### Administration of Justice Elective Requirements

Complete six (6) units from the following:

- CJS 400 - Special Topics
- CJS 402 - Hate Crime
- CJS 403 - Mass Media, Culture, and Crime
- CJS 421 - Narcotics
- CJS 441 - Fundamentals of Criminal Investigation and Report Writing
- CJS 497 - Comparative Criminal Justice

## **Criminal Justice, BS (Online)**

## Online Major Program Requirements (45-48 units)

### Prerequisites to Program

- ENG 113 - Composition
- ENG 123 - Intermediate Composition
- MAT 115 - Intermediate Algebra

## Lower Division Requirements

\*Active duty law enforcement may be eligible for CJS 113 exemption

- CJS 113 - Introduction to Criminal Justice \*
- POL 213 - American Government
- POL 223 - State and Local Government

## Upper Division Requirements

- CJS 341 - Minorities and the Criminal Justice System
- CJS 401 - Crime and Delinquency
- CJS 485 - Methods of Research for Criminal Justice
- POL 485 - Constitutional Law II

## Concentration Courses

### Law Enforcement and Homeland Security

- CJS 304 - Ethics for Law Enforcement
- CJS 350 - Emergency Management
- CJS 355 - Information Management
- CJS 360 - Historical Perspectives of Criminal Justice
- CJS 472 - Terrorism and Homeland Security
- CJS 497 - Comparative Criminal Justice
- PAD 493 - Principles of Public Administration

## Additional Program Courses

- CST 100 - Overview of the Bible
- CST 300-400 Upper Division Christian Studies (3 units)

## History, BA

The History major equips students for graduate study in history, the humanities, and secondary education. The History curriculum provides courses in three areas of study: American History, European History, and World History. Some requirements may be met through study abroad opportunities. (See the Education section for the Professional Methods Program for Single Subject Credential Students.)

## Traditional Major Program Requirements (46 units)

### Lower Division Requirements

- HIS 101 - Introduction to the Discipline of History
- HIS 213 - History of the United States to Reconstruction
- HIS 215 - World History Since 1500

- HIS 223 - History of the United States since the Civil War
- HIS 225 - World History to 1500 **OR**
- HUM 213 - Humanities I

## Upper Division Requirements

- HIS 490 - Historiography
- HIS 499 - Senior Project

## Breadth Requirement

Complete three (3) units from each of the following categories: American History; European History; World History.

### American History

- HIS 472 - Colonial America, 1607-1787
- HIS 474 - Early American Republic, 1787-1848
- HIS 476 - The Emergence of Modern America, 1865-1919
- HIS 478 - Modern America, 1920-1989

### European History

- HIS 343 - Twentieth Century Europe
- HIS 353 - Renaissance and Reformation Europe
- HIS 360 - Enlightenment Europe
- HIS 423 - Medieval Civilization

### World History

- HIS 305 - History of China
- HIS 315 - Latin American History
- HIS 330 - Asian Culture and History
- HIS 350 - The Classical World

## Emphasis Requirements

Complete nine (9) units from one (1) of the following categories: American History; European History; World History.

### American History

- HIS 472 - Colonial America, 1607-1787
- HIS 474 - Early American Republic, 1787-1848
- HIS 476 - The Emergence of Modern America, 1865-1919
- HIS 478 - Modern America, 1920-1989

### European History

- HIS 343 - Twentieth Century Europe
- HIS 353 - Renaissance and Reformation Europe
- HIS 360 - Enlightenment Europe
- HIS 423 - Medieval Civilization

## World History

- HIS 305 - History of China
- HIS 315 - Latin American History
- HIS 330 - Asian Culture and History
- HIS 350 - The Classical World

## Upper Division Elective Requirements

Complete nine (9) additional units from the following:

- HIS 305 - History of China
- HIS 311 - Minorities in America
- HIS 315 - Latin American History
- HIS 330 - Asian Culture and History
- HIS 333 - Nineteenth Century Europe
- HIS 343 - Twentieth Century Europe
- HIS 353 - Renaissance and Reformation Europe
- HIS 360 - Enlightenment Europe
- HIS 363 - History of England to 1688
- HIS 373 - History of England since 1688
- HIS 401 - Special Topics in U.S. History
- HIS 402 - Special Topics in Non-U.S. History
- HIS 403 - Special Topics in European History
- HIS 404 - Special Topics in World History
- HIS 423 - Medieval Civilization
- HIS 430 - Cross and the Crescent
- HIS 440 - History of Greece and Rome through Film
- HIS 472 - Colonial America, 1607-1787
- HIS 474 - Early American Republic, 1787-1848
- HIS 476 - The Emergence of Modern America, 1865-1919
- HIS 478 - Modern America, 1920-1989
- HIS 491 - Internship in History
- HUM 325 - Culture and the Museum
- HUM 335 - The Holocaust and the Humanities

## International Studies, BA

International Studies is an interdisciplinary major that helps prepare students to work with for-profit and non-profit organizations, government agencies, or ministries that have a global footprint. In addition to completing an interdisciplinary core, International Studies majors will select a discipline-specific concentration and satisfy a cross-cultural experience requirement.

## Traditional Major Program Requirements (51-63 units)

### Lower Division Requirements

- ANT 225 - Cultural Anthropology
- BUS 218 - Macroeconomics
- ICS 105 - Introduction to Global Studies
- POL 250 - Introduction to International Politics
- POL 255 - Introduction to Comparative Politics

### Upper Division Requirements

- ANT 350 - Language and Culture
- ENG 463 - Language Structure and Acquisition
- HIS 325 - Non-Western Culture and History
- ICS 430 - Intercultural Communication and Practice
- POL 415 - World Geography
- POL 437 - Globalization
- POL 450 - Research Methods in Political Science
  
- POL 499 - Senior Project **OR**
- POL 446 - International Relations Internship

### Concentration Courses (12 units)

Students must complete all requirements in one of the following concentrations: International Business; International Relations; Global Ministry

#### International Business

- BUS 334 - International Business
- BUS 454 - International Management
- MKT 333 - Principles of Marketing
- MKT 444 - International Marketing

#### International Relations

- POL 350 - International Relations Theory
- POL 439 - International Conflict
- POL 444 - International Law
- POL 454 - International Organizations

#### Global Ministry

- ICS 305 - Global Christianity
- ICS 375 - Human Rights

- ICS 410 - Global and Urban Ministries
- PHI 353 - Comparative Religions

## Cross Cultural Experience Requirement

Students may satisfy the Cross Cultural Experience Requirement with a semester long education and/or ministry experience in a foreign country or International Service Projects in two different countries. The chair of the Department of History and Government must approve all cross cultural experiences used by students to meet this requirement.

## Optional Concentration (12 units)

Students may complete all requirements in the following optional concentration: Modern Languages

### Modern Languages (12 units)

#### Core Requirements

Complete six (6) units in any of the following areas:

ASL - American Sign Language

CHI - Chinese

FRE - French

RUS - Russian

SPA - Spanish

#### Upper Division Requirements

Complete six (6) additional upper division units in any of the following areas:

ASL - American Sign Language (300 or 400 level)

SPA - Spanish (300 or 400 level)

## Political Science with Pre-Law Emphasis, BA

The Political Science Major with an emphasis in Pre-Law is a partnership 3+3 program between California Baptist University and Trinity Law School. The program provides students majoring in Political Science with the opportunity to prepare themselves to succeed in law school and to complete a baccalaureate degree and Doctor of Jurisprudence degree in six years. Trinity Law School is accredited by the Committee of Bar Examiners of the State Bar of California.

## Traditional Major Program Requirements (42 units)

### Lower Division Requirements

- POL 213 - American Government
- POL 223 - State and Local Government



## Upper Division Requirements

- POL 431 - Christianity and Citizenship
- POL 450 - Research Methods in Political Science
- POL 499 - Senior Project

## Pre-Law Requirements

- PAD 453 - Administrative Law and Bureaucracy
- PHI 300 - Logic
- PHI 323 - Ethics
- PHI 324 - Applied Ethics
- POL 330 - Law and Literature
- POL 440 - Pre-Law Internship (3 units)
- POL 484 - Constitutional Law I

## Political Philosophy Requirement

Complete six (6) units from the following:

- POL 423 - Classical Political Philosophy
- POL 425 - Modern Political Philosophy
- POL 429 - Critical Political Philosophy and Postmodernism

## Additional 3+3 Program Requirements

Maintain a minimum 3.0 cumulative grade point average to sustain candidacy in the 3+3 program.

Complete all CBU residency and general education requirements \*

Complete all requirements for the Political Science Major with a Pre-Law Emphasis \*

Complete a minimum of ninety-eight (98) semester units of undergraduate study. \*

Receive an LSAT score of 143 or higher by the first semester of the junior year

Complete the Trinity Law School application process by the first semester of the junior year

\* Requirement must be satisfied prior to transfer to Trinity Law School.

## Transfer Course 3+3 Program Requirements

Successfully complete and transfer the first year legal studies coursework from Trinity Law School \*

\* A maximum of thirty (30) units may be transferred and are subject to the transfer restriction policies. Coursework completed at Trinity Law School will not be computed into the California Baptist University grade point average.

## Political Science, BA

The Political Science major provides students with theoretical foundations and practical experience in preparation for opportunities available in the fields of political science and public administration, including career positions with local, state and federal governments; fellowship posts for graduate and legal studies; careers in education and various levels of political leadership. Students are encouraged to seek internship opportunities through the department. (See the Single Subject Credential section for the Professional Methods Program for Single Subject Credential Students.)

## Traditional Major Program Requirements (40 units)

### Lower Division Requirement

- POL 101 - Introduction to the Political Science Discipline
- POL 213 - American Government

### Lower Division Elective Requirements

Complete three (3) units from the following:

- POL 223 - State and Local Government
- POL 250 - Introduction to International Politics
- POL 255 - Introduction to Comparative Politics

### Upper Division Requirements

- POL 431 - Christianity and Citizenship
- POL 450 - Research Methods in Political Science
- POL 499 - Senior Project

### American Institutions and Processes Elective Requirement

Complete three (3) units from the following:

- PAD 465 - Policy Process and Analysis
- POL 323 - Political Parties and Interest Groups
- POL 390 - Congress and the Presidency
- POL 395 - Political Economy
- POL 435 - Campaigns and Elections
- POL 484 - Constitutional Law I
- POL 485 - Constitutional Law II

### International Relations Elective Requirement

Complete three (3) units from the following:

- POL 350 - International Relations Theory
- POL 415 - World Geography
- POL 437 - Globalization
- POL 439 - International Conflict
- POL 443 - Diplomatic History of the United States
- POL 444 - International Law
- POL 454 - International Organizations
- POL 471 - Terrorism

### Political Philosophy Elective Requirement

Complete three (3) units from the following:

- POL 395 - Political Economy
- POL 423 - Classical Political Philosophy
- POL 425 - Modern Political Philosophy
- POL 427 - American Political Theory
- POL 429 - Critical Political Philosophy and Postmodernism

## Pre-Law Elective Requirement

Complete three (3) units from the following:

- CJS 301 - Fundamentals of Criminal Law
- CJS 321 - Courts and Criminal Procedures
- PAD 453 - Administrative Law and Bureaucracy
- PHI 300 - Logic **OR**
- PHI 324 - Applied Ethics
- POL 330 - Law and Literature
- POL 444 - International Law
- POL 484 - Constitutional Law I
- POL 485 - Constitutional Law II

## Public Administration Elective Requirement

Complete three (3) units from the following:

- PAD 451 - Executive Leadership and Management
- PAD 453 - Administrative Law and Bureaucracy
- PAD 465 - Policy Process and Analysis
- PAD 491 - Public Personnel Management
- PAD 493 - Principles of Public Administration
- POL 395 - Political Economy

## Concentration Courses (9 units)

Students must complete at least nine (9) units, not completed in the core, in one of the following concentrations: American Institutions and Processes; International Relations; Political Philosophy; Pre-Law; Public Administration. Political Science majors may not use any one course to satisfy two or more concentration requirements.

### American Institutions and Processes

Complete nine (9) units from the following:

- PAD 465 - Policy Process and Analysis
- POL 323 - Political Parties and Interest Groups
- POL 390 - Congress and the Presidency
- POL 395 - Political Economy
- POL 435 - Campaigns and Elections

- POL 445 - American Institutions and Processes Internship
- POL 484 - Constitutional Law I
- POL 485 - Constitutional Law II

## International Relations

Complete nine (9) units from the following:

- POL 350 - International Relations Theory
- POL 415 - World Geography
- POL 437 - Globalization
- POL 439 - International Conflict
- POL 443 - Diplomatic History of the United States
- POL 444 - International Law
- POL 446 - International Relations Internship
- POL 454 - International Organizations
- POL 471 - Terrorism

## Political Philosophy

Complete nine (9) units from the following:

- POL 395 - Political Economy
- POL 423 - Classical Political Philosophy
- POL 425 - Modern Political Philosophy
- POL 427 - American Political Theory
- POL 429 - Critical Political Philosophy and Postmodernism

## Pre-Law

Complete nine (9) units from the following:

Recommend completion of POL 484 and POL 485

- CJS 301 - Fundamentals of Criminal Law
- CJS 321 - Courts and Criminal Procedures
- PAD 453 - Administrative Law and Bureaucracy
- PHI 300 - Logic **OR**
- PHI 324 - Applied Ethics
- POL 330 - Law and Literature
- POL 440 - Pre-Law Internship
- POL 444 - International Law
- POL 484 - Constitutional Law I
- POL 485 - Constitutional Law II

## Public Administration

Complete nine (9) units from the following:

- PAD 451 - Executive Leadership and Management
- PAD 453 - Administrative Law and Bureaucracy
- PAD 465 - Policy Process and Analysis
- PAD 491 - Public Personnel Management
- PAD 493 - Principles of Public Administration
- POL 395 - Political Economy
- POL 447 - Public Administration Internship

## **Public Administration, BA (Online)**

### **Online Major Program Requirements (48 units)**

#### **Prerequisites to Program**

- ENG 113 - Composition
- ENG 123 - Intermediate Composition

#### **Lower Division Requirements**

- POL 213 - American Government
- POL 223 - State and Local Government
- POL 255 - Introduction to Comparative Politics

#### **Upper Division Requirements**

- PAD 451 - Executive Leadership and Management
- PAD 452 - Organizational Theory and Design
- PAD 453 - Administrative Law and Bureaucracy
- PAD 490 - Contemporary Issues in Public Administration
- PAD 491 - Public Personnel Management
- PAD 493 - Principles of Public Administration
- POL 395 - Political Economy
- POL 450 - Research Methods in Political Science
- PAD 465 - Policy Process and Analysis
- POL 485 - Constitutional Law II
- PST 300 - Career and Professional Development

#### **Additional Program Courses**

- CST 100 - Overview of the Bible
- CST 300-400 Upper Division Christian Studies (3 units)

## **Minor**

### **Classics Minor**

## Traditional Minor Program Requirements (18 units)

### Lower Division Requirements

- GRK 213 - Introduction to Koiné Greek I
- GRK 223 - Introduction to Koiné Greek II **OR**
- LAT 115 - Latin I

### Upper Division Requirements

Complete twelve (12) units from the following:

- ENG 323 - Classical Literature
- HIS 350 - The Classical World
- HIS 405 - Classical Sport and Culture
- HIS 440 - History of Greece and Rome through Film
- POL 423 - Classical Political Philosophy

## **Criminal Justice Minor**

## Traditional Minor Program Requirements (21 units)

### Lower Division Requirement

- CJS 113 - Introduction to Criminal Justice

### Upper Division Requirements

- CJS 301 - Fundamentals of Criminal Law
- CJS 331 - Police Systems and Practices
- CJS 496 - Institutional and Community Corrections

### Upper Division Elective Requirements

Complete nine (9) additional units from the following:

- CJS 321 - Courts and Criminal Procedures
- CJS 341 - Minorities and the Criminal Justice System
- CJS 400 - Special Topics
- CJS 401 - Crime and Delinquency
- CJS 402 - Hate Crime
- CJS 403 - Mass Media, Culture, and Crime
- CJS 421 - Narcotics
- CJS 441 - Fundamentals of Criminal Investigation and Report Writing
- CJS 485 - Methods of Research for Criminal Justice
- CJS 497 - Comparative Criminal Justice

- PAD 493 - Principles of Public Administration

## **Humanities Minor**

### **Traditional Minor Program Requirements (18 units)**

#### **Lower Division Requirements**

- HUM 213 - Humanities I
- HUM 223 - Humanities II

#### **Upper Division Requirements**

Complete twelve (12) units from the following:

- HIS 330 - Asian Culture and History
- HIS 440 - History of Greece and Rome through Film
- HUM 325 - Culture and the Museum
- HUM 335 - The Holocaust and the Humanities
- HUM 400 - Special Topics in Humanities

## **Political Science Minor**

### **Traditional Minor Program Requirements (21 units)**

#### **Lower Division Requirements**

- POL 213 - American Government
- POL 223 - State and Local Government

#### **Upper Division Requirements**

- POL 395 - Political Economy
- Complete twelve (12) upper division units in Political Science

## **Certificate**

### **Pre-Law Certificate**

The department strongly recommends a double major in Political Science and Philosophy for those students who are planning to enter law school. The department also offers a Pre-Law certificate program, and provides a full range of counseling services in preparation for law school. The Pre-Law certificate offers a specific series of courses intended to prepare students for both the LSAT and law school. The Pre-Law certificate is issued by the Office of the University Registrar upon student request and completion of the below courses. Students can also receive active advice for the LSAT examination. Dr. James Bishop serves as the Pre-Law program advisor.

## Traditional Certificate Program Requirements (36 units)

### Lower Division Requirements

- POL 213 - American Government
- POL 223 - State and Local Government

### Upper Division Requirements

- PAD 453 - Administrative Law and Bureaucracy
- PHI 300 - Logic
- PHI 323 - Ethics
- PHI 324 - Applied Ethics
- POL 330 - Law and Literature
- POL 440 - Pre-Law Internship (3 units)
- POL 484 - Constitutional Law I

### Upper Division Elective Requirements

Complete six (6) units from the following:

- PHI 363 - Reality
- POL 423 - Classical Political Philosophy
- POL 425 - Modern Political Philosophy
- POL 429 - Critical Political Philosophy and Postmodernism

### Upper Division Breadth Elective Requirement

Complete one course from the following that is not included in the student's general education core curriculum:

- ENG 303 - Topics in World Literature
- ENG 313 - American Multicultural Literature
- ENG 333 - Seventeenth Century British Literature
- ENG 343 - Eighteenth and Nineteenth Century British Literature
- ENG 345 - Nineteenth Century American Literature
- ENG 413 - Shakespeare Studies
- ENG 440 - Modern American Literature
- ENG 443 - Contemporary American Literature
- ENG 460 - Modern and Contemporary British Literature

## Public Administration Certificate

Designed primarily for government employees and persons seeking employment in the public sector, the program for a certificate in Public Administration provides both practical and theoretical training in this field. The Public Administration certificate is issued by the Office of the University Registrar upon student request and completion of the below courses.



## Traditional Certificate Program Requirements (18 units)

### Certificate Requirements

- PAD 451 - Executive Leadership and Management
- PAD 453 - Administrative Law and Bureaucracy
- PAD 465 - Policy Process and Analysis
- PAD 491 - Public Personnel Management
- PAD 493 - Principles of Public Administration
- POL 395 - Political Economy

# **Division of Arts and Letters - Department of Modern Languages and Literature**

## **Division of Arts and Letters**

**Dr. Laura Veltman**

*Associate Dean of the Division of Arts and Letters*

**Sean Langevin**

*Administrative Secretary*

Phone 951.343.4590

FAX 951.343.4661

slangevin@calbaptist.edu

### **Faculty Information**

The Division of Arts and Letters consists of three departments: Communication Arts, History and Government, and Modern Languages and Literature. While most of our programs are rooted in traditional disciplines that have stood the test of time in academia, we equip our students with the necessary tools for today's global market while training them in the skills they need to conquer the challenges of tomorrow.

## **Department of Modern Languages and Literature**

**Dr. Erika Travis**

*Chair*

**Sean Langevin**

*Administrative Secretary*

Phone 951.343.4590

FAX 951.343.4661

slangevin@calbaptist.edu

### **Faculty Information**

The Modern Languages and Literature Department provides a variety of courses in language acquisition, composition, literature, critical theory, cultural studies, linguistics, digital literary studies, and creative writing. The department also presents students with the opportunity to participate in dynamic learning experiences through diverse fields of study. The Modern Languages and Literature Department offers degrees in creative writing, English language and literature, Spanish language and literature, liberal arts, and interdisciplinary studies. The department also offers a master's program in English for students desiring advanced study in the discipline, with emphases including digital literary studies, English pedagogy, literature, and teaching English to speakers of other languages (TESOL).

The English and Creative Writing programs are dedicated to fostering students' interests and abilities. English and Creative Writing provide students across disciplines with dynamic General Education opportunities to develop foundations in reading, writing, critical thinking, and interpretation. English and Creative Writing students are drawn to our undergraduate curriculum because it nourishes their love of reading and writing in English and also prepares them for a wide range of professions and ministries: to become teachers in secondary education; to go into journalism, library science, or publishing; to embark on Christian missions; to work in commerce, industry, and government; to succeed as creative writers; or to further education by attending graduate schools of law, medicine, business, literature, etc. For students seeking a double major or minor, English and Creative Writing degrees provide students a valuable means of enriching their future professions. Students interested in teaching at elementary schools may seek a minor in English, which affords them an area of specialization within the Multiple Subjects credential. Students interested in

teaching English to speakers of other languages (TESOL) or at secondary schools are encouraged to contact program instructors or advisors.

The program in Spanish serves students seeking to develop the ability to communicate effectively in one of the most widely spoken languages in the world. Students may major or minor in Spanish or take courses to meet General Education requirements. For students seeking a second major or minor, Spanish offers a high degree of compatibility with fields ranging from business to healthcare to journalism to ministry. The Spanish program's primary goal is give students the bilingual proficiency and multicultural adaptability to succeed in a multilingual global environment. Lower-division courses train students in basic communication skills, while upper-division classes equip students with the linguistic and cultural skills needed for diverse interactions in a variety of career paths. Students who have taken two or more years of Spanish in high school or college may choose to take a placement test administered by the department in order to be exempt from lower-division requirements. (Note: in this case, however, no credit shall be given for placing out of lower-division courses.) For those who begin the program with a linguistic ability above the intermediate level, it is wise to consult program instructors or advisors for an appropriate, well-constructed academic plan.

The programs in liberal arts and interdisciplinary studies encourage students to discover the rich synergy of learning across disciplines. Students gain a strong foundation by taking courses across the curriculum while also being able to focus on particular areas of emphasis, giving students the ability to customize their major to a high degree. Students majoring in Liberal Arts or Interdisciplinary Studies learn to synthesize their knowledge creatively and critically, reflected in a cumulative project. Students within these majors are prepared to explore and evaluate a wide range of problems and solutions from multiple perspectives, including a biblical worldview.

## **Major**

### **Creative Writing, BFA**

The Creative Writing major allows students to write fiction and poetry in multi-tiered workshops that culminate in a final writing project of publishable quality. The program offers instruction in other genres of writing and in literary editing and publishing, and it includes substantial coursework in literature. The skills students acquire in this program will equip them for all types of careers where keen, lucid writing is expected, whether analytical, editorial, or creative. This program also prepares students for graduate study in both Creative Writing and English.

### **Traditional Major Program Requirements (51-52 units)**

#### **Lower Division Requirements**

- ENG 101 - Introduction to the Discipline
- ENG 201 - Introduction to Literature
- ENG 273 - Introduction to Creative Writing

#### **Lower Division Elective Requirements**

Complete six (6) units from the following:

- ENG 213 - British Literature Pre-1750
- ENG 223 - British Literature Post-1750
- ENG 233 - American Literature Pre-1865
- ENG 243 - American Literature Post-1865
- ENG 253 - World Literature Pre-1650

- ENG 263 - World Literature Post-1650

## Upper Division Requirements

- ENG 431 - Literary Journal Editing and Publishing
- ENG 498 - Capstone in Creative Writing

## Upper Division Creative Writing Requirements

Complete one (1) of the following sequences:

- ENG 384 - Writing Fiction
- ENG 484 - Advanced Fiction Writing
- OR*
- ENG 385 - Writing Poetry
- ENG 485 - Advanced Poetry Writing

## Upper Division Creative Writing Elective Requirements

Complete six (6) additional creative writing units from the following:

- ENG 384 - Writing Fiction
- ENG 385 - Writing Poetry
- ENG 386 - Writing Creative Nonfiction
- ENG 411 - Special Topics in Creative Writing
- ENG 484 - Advanced Fiction Writing
- ENG 485 - Advanced Poetry Writing

## Upper Division Writing Elective Requirement

Complete three (3) additional creative writing units from the following:

- ENG 384 - Writing Fiction
- ENG 385 - Writing Poetry
- ENG 386 - Writing Creative Nonfiction
- ENG 411 - Special Topics in Creative Writing
- ENG 484 - Advanced Fiction Writing
- ENG 485 - Advanced Poetry Writing
- FLM 301 - Basic Screenwriting
- JRN 312 - Magazine and Feature Writing

## Upper Division Editing, Language, and Theory Elective Requirements

Complete six (6) units from the following:

- COM 405 - Rhetorical Criticism
- ENG 401 - Literary Theory and Criticism
- ENG 454 - Writing in Context

- ENG 463 - Language Structure and Acquisition
- ENG 491 - Internship
- JRN 349 - Editing for Print and Online Media
- PHI 312 - Beauty

## Christian Literary Studies Requirement

Complete three (3) units from the following:

- ENG 365 - Christian Classics
- ENG 366 - Faith and Literature

## Upper Division Literature Elective Requirement

Complete three (3) units of literature from the following:

- ENG 313 - American Multicultural Literature
- ENG 314 - Global Literature
- ENG 323 - Classical Literature
- ENG 333 - Seventeenth Century British Literature
- ENG 343 - Eighteenth and Nineteenth Century British Literature
- ENG 345 - Nineteenth Century American Literature
- ENG 355 - Folklore and Fairy Tales
- ENG 365 - Christian Classics
- ENG 366 - Faith and Literature
- ENG 400 - Special Topics in English
- ENG 409 - Good Books
- ENG 413 - Shakespeare Studies
- ENG 420 - Special Topics in American Literature
- ENG 430 - Special Topics in British Literature
- ENG 440 - Modern American Literature
- ENG 443 - Contemporary American Literature
- ENG 460 - Modern and Contemporary British Literature

## Upper Division Literature and the Arts Elective Requirements

Complete five to six (5-6) additional units from the following:

- ART 346 - History of Modern Painting
- ART 385 - Film as Visual Art
- COM 333 - Oral Interpretation and Readers Theatre
- ENG 303 - Topics in World Literature
- ENG 313 - American Multicultural Literature
- ENG 323 - Classical Literature
- ENG 333 - Seventeenth Century British Literature
- ENG 343 - Eighteenth and Nineteenth Century British Literature
- ENG 345 - Nineteenth Century American Literature
- ENG 353 - Introduction to Children's Literature

- ENG 354 - Children's Classics
- ENG 355 - Folklore and Fairy Tales
- ENG 363 - Introduction to Young Adult Literature
- ENG 365 - Christian Classics
- ENG 366 - Faith and Literature
- ENG 371 - The Graphic Novel
- ENG 400 - Special Topics in English
- ENG 401 - Literary Theory and Criticism
- ENG 409 - Good Books
- ENG 413 - Shakespeare Studies
- ENG 420 - Special Topics in American Literature
- ENG 430 - Special Topics in British Literature
- ENG 440 - Modern American Literature
- ENG 443 - Contemporary American Literature
- ENG 454 - Writing in Context
- ENG 460 - Modern and Contemporary British Literature
- ENG 463 - Language Structure and Acquisition
- FLM 350 - Film and Literature
- FLM 470 - Adaptation and Intertextuality
- MUS 332 - Psalms, Hymns, and Spiritual Songs
- THE 332 - Theatre History I
- THE 342 - Theatre History II

## Optional Concentrations

Students can earn an optional concentration in one of the following areas: Digital Literary Studies; Journalism and New Media.

\*Each optional concentration requires the completion of twelve (12) distinct units beyond the major.

### Digital Literary Studies

#### Digital Literary Core Requirements

Complete nine (9) units from the following:

- ENG 302 - Professional Writing
- ENG 382 - Introduction to Digital Studies
- ENG 454 - Writing in Context
- ENG 491 - Internship

#### Digital Literary Additional Requirement

Complete three (3) additional units from the following:

- ENG 313 - American Multicultural Literature
- ENG 314 - Global Literature
- ENG 323 - Classical Literature

- ENG 333 - Seventeenth Century British Literature
- ENG 343 - Eighteenth and Nineteenth Century British Literature
- ENG 345 - Nineteenth Century American Literature
- ENG 353 - Introduction to Children's Literature
- ENG 354 - Children's Classics
- ENG 355 - Folklore and Fairy Tales
- ENG 363 - Introduction to Young Adult Literature
- ENG 365 - Christian Classics
- ENG 366 - Faith and Literature
- ENG 371 - The Graphic Novel
- ENG 409 - Good Books
- ENG 413 - Shakespeare Studies
- ENG 420 - Special Topics in American Literature
- ENG 430 - Special Topics in British Literature
- ENG 440 - Modern American Literature
- ENG 443 - Contemporary American Literature
- ENG 460 - Modern and Contemporary British Literature

## Journalism and New Media

### Journalism and New Media Core Requirements

- JRN 170 - Writing for Mass Media
- JRN 320 - Media Law, Ethics, and Copyright

### Journalism and New Media Additional Requirements

Complete six (6) units from the following:

\*Only one course may be taken at the 200 level

- JRN 210 - Photojournalism
- JRN 215 - News Production for Broadcast and Print Journalism
- JRN 254 - Publication Layout and Design
- JRN 349 - Editing for Print and Online Media
- JRN 370 - Social Media Strategies
- JRN 430 - Multimedia Reporting, Editing, and Producing
- JRN 440 - Writing Columns and Blogs
- JRN 460 - Investigative Reporting

## English, BA

English majors actively engage with literature from classical to contemporary authors. The program cultivates close analysis of literary texts and relevant contexts as well as develops students' skills in mindful interpretation through the study and application of literary theory. Students reflect upon and respond to literature from diverse cultures, perspectives, and genres, discussing literature in terms of their own worldview as well as Biblical principles. The English major prepares students for careers in a wide range of professions and ministries including secondary education; writing, editing, and publishing; commerce, industry, and government; and graduate study. Students

interested in English Subject Matter Competence should contact the program advisor. English majors are encouraged to consult and collaborate with program instructors to develop the best approach to their studies.

## Major Program Requirements (43-55 units)

### Introductory Concepts and Approaches

- ENG 100 - Introduction to Technology in Literary Studies *OR*
- ENG 101 - Introduction to the Discipline
- ENG 201 - Introduction to Literature
- ENG 213 - British Literature Pre-1750 **OR**
- ENG 223 - British Literature Post-1750
- ENG 233 - American Literature Pre-1865 **OR**
- ENG 243 - American Literature Post-1865
- ENG 253 - World Literature Pre-1650 **OR**
- ENG 263 - World Literature Post-1650 *OR*
- ENG 273 - Introduction to Creative Writing

### Foundations in Literary Studies and Traditions

- ENG 401 - Literary Theory and Criticism
- ENG 413 - Shakespeare Studies **OR**
- ENG 323 - Classical Literature

### Professional Development

\* ENG 463 is required for students completing the optional TESOL concentration.

- ENG 302 - Professional Writing **OR**
- ENG 382 - Introduction to Digital Studies *OR*
- ENG 350 - Research and Writing in Literature and Language
- ENG 454 - Writing in Context **OR**
- ENG 463 - Language Structure and Acquisition \*
- ENG 499 - Capstone Project

### American Literature

Complete three (3) units from the following:

- ENG 345 - Nineteenth Century American Literature
- ENG 420 - Special Topics in American Literature
- ENG 440 - Modern American Literature
- ENG 443 - Contemporary American Literature

### British Literature

Complete three (3) units from the following:



- ENG 333 - Seventeenth Century British Literature
- ENG 343 - Eighteenth and Nineteenth Century British Literature
- ENG 430 - Special Topics in British Literature
- ENG 460 - Modern and Contemporary British Literature

## Diverse Perspectives

Complete three (3) units from the following:

- ENG 313 - American Multicultural Literature
- ENG 314 - Global Literature

## Christian Literary Studies

Complete three (3) units from the following:

- ENG 365 - Christian Classics
- ENG 366 - Faith and Literature

## Elective Requirements

Complete three (3) additional units from the following, which have not previously been taken:

- ENG 302 - Professional Writing
- ENG 303 - Topics in World Literature
- ENG 313 - American Multicultural Literature
- ENG 314 - Global Literature
- ENG 323 - Classical Literature
- ENG 333 - Seventeenth Century British Literature
- ENG 343 - Eighteenth and Nineteenth Century British Literature
- ENG 345 - Nineteenth Century American Literature
- ENG 353 - Introduction to Children's Literature
- ENG 354 - Children's Classics
- ENG 355 - Folklore and Fairy Tales
- ENG 360 - Detective Fiction
- ENG 363 - Introduction to Young Adult Literature
- ENG 365 - Christian Classics
- ENG 366 - Faith and Literature
- ENG 371 - The Graphic Novel
- ENG 382 - Introduction to Digital Studies
- ENG 399 - Independent Study
- ENG 400 - Special Topics in English
- ENG 409 - Good Books
- ENG 413 - Shakespeare Studies
- ENG 420 - Special Topics in American Literature
- ENG 430 - Special Topics in British Literature
- ENG 440 - Modern American Literature
- ENG 443 - Contemporary American Literature

- ENG 460 - Modern and Contemporary British Literature
- ENG 491 - Internship

## Optional Concentrations (12 units)

Students can earn optional concentration in one of the following areas: Children's Literature; Creative Writing; Digital Literary Studies; Modern Languages; TESOL

\*Each optional concentration requires the completion of a minimum of twelve (12) distinct units beyond the major. Students are not eligible to complete a minor and a concentration in the same subject (i.e. Children's Literature; Creative Writing; Writing and Digital Studies/Digital Literary Studies; TESOL).

## Children's Literature

### Upper Division Requirements

- ENG 353 - Introduction to Children's Literature
- ENG 354 - Children's Classics
- ENG 355 - Folklore and Fairy Tales
- ENG 363 - Introduction to Young Adult Literature

## Creative Writing

### Upper Division Requirements

Complete nine (9) upper division units from the following:

- ENG 384 - Writing Fiction
- ENG 385 - Writing Poetry
- ENG 386 - Writing Creative Nonfiction
- ENG 411 - Special Topics in Creative Writing
- ENG 431 - Literary Journal Editing and Publishing
- ENG 484 - Advanced Fiction Writing
- ENG 485 - Advanced Poetry Writing

### Upper Division Writing Elective Requirement

Complete three (3) additional upper division units from the following:

- ENG 384 - Writing Fiction
- ENG 385 - Writing Poetry
- ENG 386 - Writing Creative Nonfiction
- ENG 411 - Special Topics in Creative Writing
- ENG 431 - Literary Journal Editing and Publishing
- ENG 484 - Advanced Fiction Writing
- ENG 485 - Advanced Poetry Writing
- FLM 301 - Basic Screenwriting
- JRN 312 - Magazine and Feature Writing

## Digital Literary Studies

### Upper Division Requirements

- ENG 302 - Professional Writing **OR**
- ENG 382 - Introduction to Digital Studies

### Upper Division Digital Literary Studies Elective Requirements

Complete six (6) additional upper division units from the following:

- ENG 431 - Literary Journal Editing and Publishing
- ENG 454 - Writing in Context
- ENG 491 - Internship

### Additional Upper Division Elective Requirement

Complete three (3) additional upper division units from the following:

- ENG 314 - Global Literature
- ENG 323 - Classical Literature
- ENG 333 - Seventeenth Century British Literature
- ENG 343 - Eighteenth and Nineteenth Century British Literature
- ENG 345 - Nineteenth Century American Literature
- ENG 353 - Introduction to Children's Literature
- ENG 354 - Children's Classics
- ENG 355 - Folklore and Fairy Tales
- ENG 363 - Introduction to Young Adult Literature
- ENG 365 - Christian Classics
- ENG 399 - Independent Study
- ENG 400 - Special Topics in English
- ENG 409 - Good Books
- ENG 431 - Literary Journal Editing and Publishing
- ENG 440 - Modern American Literature
- ENG 443 - Contemporary American Literature
- ENG 454 - Writing in Context
- ENG 460 - Modern and Contemporary British Literature
- ENG 491 - Internship

## Modern Languages

Complete twelve (12) units of ASL, CHI, FRE, RUS, and/or SPA, with at least six (6) units of upper-division ASL and/or SPA.

## TESOL (Teaching English to Speakers of Other Languages)

\*Students completing the TESOL concentration must complete ENG 463 within the Professional Development core of the English major.

## Upper Division Requirements

- ENG 442 - Teaching Second Language Writing
- ENG 446 - Teaching Second Language Reading
- ENG 452 - Second Language Curriculum Development and Assessment
- ENG 472 - Theory and Methods of TESOL

## English, BA (Online)

English majors actively engage with literature from classical to contemporary authors. The program cultivates close analysis of literary texts and relevant contexts as well as develops students' skills and mindful interpretation through the study and application of literary theory. The English major prepare students for careers in a wide range of professions and ministries including secondary education; writing, editing, and publishing; commerce, industry, and government; and graduate study. Students interested in the English Subject Matter Competence should contact the program adviser. English majors are encouraged to consult and collaborate with program instructors to develop the best approach to their studies.

## Online Major Program Requirements (49 units)

### Prerequisites to Program

- ENG 113 - Composition
- ENG 123 - Intermediate Composition

### Introductory Concepts and Approaches

- ENG 100 - Introduction to Technology in Literary Studies
- ENG 201 - Introduction to Literature
- ENG 213 - British Literature Pre-1750
- ENG 223 - British Literature Post-1750
- ENG 233 - American Literature Pre-1865
- ENG 243 - American Literature Post-1865
- ENG 273 - Introduction to Creative Writing

### Foundations in Literary Studies and Traditions

- ENG 401 - Literary Theory and Criticism
- ENG 413 - Shakespeare Studies

### Professional Development

- ENG 350 - Research and Writing in Literature and Language
- ENG 463 - Language Structure and Acquisition
- ENG 499 - Capstone Project

### American Literature

- ENG 440 - Modern American Literature

## British Literature

- ENG 343 - Eighteenth and Nineteenth Century British Literature

## Diverse Perspectives

- ENG 313 - American Multicultural Literature

## Christian Literary Studies

- ENG 365 - Christian Classics

## Elective Requirements

- ENG 303 - Topics in World Literature
- ENG 353 - Introduction to Children's Literature
- ENG 360 - Detective Fiction
- ENG 363 - Introduction to Young Adult Literature

## Additional Program Courses

- CST 100 - Overview of the Bible

## **Interdisciplinary Studies, BA (Online)**

### Online Major Program Requirements (48 units)

#### Prerequisites to Program

- ENG 113 - Composition
- ENG 123 - Intermediate Composition

#### Upper Division Requirements

- LDR 330 - Personal Leadership
- IDS 498 - Interdisciplinary Studies Capstone  
Areas of Emphasis I\*:
- Four (4) courses
- Minimum of twelve (12) units, nine (9) of which must be upper division  
Areas of Emphasis II\*:
- Four (4) courses
- Minimum of twelve (12) units, nine (9) of which must be upper division  
Areas of Emphasis III\*:

- Four (4) courses
- Minimum of twelve (12) units, nine (9) of which must be upper division  
\*Students may choose only two areas of emphases by completing the following for each emphasis:
- six (6) courses
- Minimum of eighteen (18) units, twelve (12) of which must be upper division

## Additional Program Courses

- CST 100 - Overview of the Bible
- CST 300-400 Upper Division Christian Studies (3 units)

## Areas of Emphasis

Students may choose areas of emphasis in each of the following areas:

- Accounting (ACC)
- Business Administration (minimum 9 units of BUS, additional units can be taken from ACC and MKT)
- Christian Ministries (APT, CST, ICS)
- Communication Studies (COM, JRN, PRL)
- Computer Information Technology (CIT)
- Criminal Justice (CJS)
- Early Childhood Studies (ECS)
- English (ENG)
- Graphic Design and Digital Media (GDM)
- Healthcare Administration and Management (minimum 9 units of HCA, additional units can be taken from HSC)
- History (HIS)
- Kinesiology (KIN)
- Marketing (MKT)
- Organizational Leadership (LDR)
- Psychology (PSY)
- Political Science (POL)
- Public Health (HSC)
- Sociology (SOC)

## Liberal Arts, BA

The liberal arts major exposes students to the breadth and depth of human knowledge through study of the humanities and sciences as well as through specialization in one or more concentrations. Students are well prepared to think deeply and creatively, developing the intellectual flexibility to explore and evaluate a wide range of problems and solutions from multiple perspectives, including a biblical worldview. Students in this major are equipped to serve in local and global contexts as well-rounded citizens whose interdisciplinary skills and knowledge enable them to contribute to human flourishing.

## Traditional Major Program Requirements (97-109 units)

### Introduction to the Liberal Arts

- LBA 101 - Introduction to the Liberal Arts

## Foundations

- HUM 213 - Humanities I
- HUM 223 - Humanities II
- WLD 171 - Creative Arts and the Christian Imagination **OR**
- WLD 181 - Goodness, Truth and Beauty *OR*
- PHI 213 - Introduction to Philosophy
- ENG 201 - Introduction to Literature
- ART 241 - Global History of Art: Ancient to Medieval *OR*
- ART 242 - Global History of Art: Renaissance to Contemporary *OR*
- FLM 105 - Introduction to Film
- CST 110 - Old Testament Survey
- CST 130 - New Testament Survey

## History and Society

- HIS 2xx course *OR*
- POL 2xx course *OR*
- ANT 225 - Cultural Anthropology *OR*
- BUS 212 - Economics, Life, and Society *OR*
- BUS 218 - Macroeconomics *OR*
- PSY 213 - General Psychology *OR*
- SOC 213 - Introduction to Sociology
- Upper Division HIS course
- Upper Division POL course
- Three (3) additional units of HIS or POL

## Languages

Complete twelve (12) units from the following areas; at least six (6) units must have the same prefix:

- CIS 268 - Computer Programming Languages
- ASL
- CHI
- FRE
- GRK
- HEB
- LAT
- RUS
- SPA

## Literature

- ENG 2xx (one course, excluding ENG 200)

Complete nine (9) units from the following:

- ENG 303 - Topics in World Literature
- ENG 313 - American Multicultural Literature
- ENG 314 - Global Literature
- ENG 323 - Classical Literature
- ENG 333 - Seventeenth Century British Literature
- ENG 343 - Eighteenth and Nineteenth Century British Literature
- ENG 345 - Nineteenth Century American Literature
- ENG 353 - Introduction to Children's Literature
- ENG 354 - Children's Classics
- ENG 355 - Folklore and Fairy Tales
- ENG 360 - Detective Fiction
- ENG 363 - Introduction to Young Adult Literature
- ENG 365 - Christian Classics
- ENG 366 - Faith and Literature
- ENG 371 - The Graphic Novel
- ENG 382 - Introduction to Digital Studies
- ENG 409 - Good Books
- ENG 413 - Shakespeare Studies
- ENG 420 - Special Topics in American Literature
- ENG 430 - Special Topics in British Literature
- ENG 440 - Modern American Literature
- ENG 443 - Contemporary American Literature
- ENG 454 - Writing in Context
- ENG 460 - Modern and Contemporary British Literature
- ENG 463 - Language Structure and Acquisition

## Mathematics

- MAT 123 - Survey of Mathematics

## Mathematics Additional Requirements

Complete nine (9) units from the following:

- MATxxx (MAT 115 or higher, excluding MAT 123)
- STA 144 - Introduction to Statistics

## Science

Select twelve (12) units from at least two of the following areas (prefixes):

- BIO
- CHE



- ENV
- PHY

## Capstone

This capstone can be co-located or replaced with another three (3) units capstone course with instructor and department chair approval.

- LBA 499 - Capstone

## Concentration Courses (12 units) Optional Second Concentration (12 units)

Students must select at least one concentration of twelve (12) upper division units in one of the following areas: Art History; American Studies; American Sign Language; Anthropology; Biology; British Studies; Business Administration; Chemistry; Children's Literature; Christian Behavioral Science; Christian Studies; Communications; Criminal Justice; Creative Writing; Early Childhood Studies; English Language and Literature; Entrepreneurship; Environmental Science; European Studies; Film Studies; Global Studies; History; Humanities; Intercultural Studies; Interdisciplinary Studies; Journalism and News Media; Kinesiology; Leadership; Marketing; Mathematics; Music; Philosophy; Political Science; Psychology; Public Relations; Real Estate Management; Science; Single-Discipline Specialization; Sociology; Social Work; Spanish; Spanish for Teachers; Statistics; Teaching English to Speakers of Other Languages (TESOL); Visual Media; Worship Arts; Writing. Students may not use any courses for both the core and concentration requirements.

Students have the option of selecting a second concentration of twelve (12) upper division units but may not reuse any courses from the core and first concentration.

## Art History

Complete twelve (12) units from the following:

(Students should plan to take ART 241 or 242 in the Foundations core.)

- ART 345 - Nineteenth Century Art History
- ART 346 - History of Modern Painting
- ART 347 - Contemporary Art History
- ART 351 - Museum Studies
- ART 361 - Art of Latin America
- ART 371 - Art of Southeast Asia
- ART 381 - Women in the Arts
- ART 412 - Topics in Art History
- ART 430 - Art and the Bible

## American Studies

Complete twelve (12) units from at least two areas (prefixes) from the following courses:

- ASL 415 - American Deaf Culture
- ENG 313 - American Multicultural Literature
- ENG 345 - Nineteenth Century American Literature
- ENG 420 - Special Topics in American Literature

- ENG 440 - Modern American Literature
- ENG 443 - Contemporary American Literature
- HIS 393 - History of California
- HIS 401 - Special Topics in U.S. History
- HIS 472 - Colonial America, 1607-1787
- HIS 474 - Early American Republic, 1787-1848
- HIS 475 - The Civil War and Its Political Crises, 1848-1865
- HIS 476 - The Emergence of Modern America, 1865-1919
- HIS 478 - Modern America, 1920-1989
- MSL 451 - Seminar in Military History
- POL 323 - Political Parties and Interest Groups
- POL 390 - Congress and the Presidency
- POL 427 - American Political Theory
- POL 435 - Campaigns and Elections
- SOC 323 - Marriage and the Family
- SOC 345 - Race and Ethnicity

## American Sign Language

Complete twelve (12) units from the following:

(Students should plan to take ASL 225 in the Languages core.)

- ASL 307 - Deaf Ministry
- ASL 315 - Deaf Studies
- ASL 325 - American Sign Language Linguistics
- ASL 415 - American Deaf Culture
- ASL 425 - Introduction to Interpreting for the Deaf

## Anthropology

Complete twelve (12) upper division units in ANT.

## Biology

Complete twelve (12) upper division units in BIO.

(Students should plan to take BIO 146 in the Science core.)

## British Studies

Complete twelve (12) units from at least two areas (prefixes) from the following courses:

- CJS 497 - Comparative Criminal Justice
- ENG 333 - Seventeenth Century British Literature
- ENG 343 - Eighteenth and Nineteenth Century British Literature
- ENG 413 - Shakespeare Studies
- ENG 430 - Special Topics in British Literature
- ENG 460 - Modern and Contemporary British Literature

- HIS 363 - History of England to 1688
- HIS 373 - History of England since 1688

## Business Administration

Complete twelve (12) upper division units in BUS.

## Chemistry

Complete twelve (12) upper division units in CHE.

(Students should plan to take CHE 115, 115L, 125, and 125L in the Science core.)

## Children's Literature

- ENG 353 - Introduction to Children's Literature
- ENG 354 - Children's Classics
- ENG 355 - Folklore and Fairy Tales
- ENG 363 - Introduction to Young Adult Literature

## Christian Behavioral Science

Complete twelve (12) upper division units in CBS.

## Christian Studies

Complete twelve (12) upper division units in CST.

## Communications

Complete twelve (12) units from the following:

- COM 306 - Small Group Communication
- COM 308 - Interpersonal Communications
- COM 333 - Oral Interpretation and Readers Theatre
- COM 340 - Rhetoric and Persuasion
- COM 403 - Communication Theory
- COM 410 - Forensic Workshop
- COM 425 - Organizational Communication
- COM 435 - Gender and Communication

## Creative Writing

Complete twelve (12) units from the following:

- ENG 384 - Writing Fiction
- ENG 385 - Writing Poetry
- ENG 386 - Writing Creative Nonfiction

- ENG 411 - Special Topics in Creative Writing
- ENG 431 - Literary Journal Editing and Publishing
- ENG 484 - Advanced Fiction Writing
- ENG 485 - Advanced Poetry Writing
- FLM 301 - Basic Screenwriting
- FLM 302 - Writing Short Screenplays
- FLM 403 - Writing Adapted Screenplays

## Criminal Justice

Complete twelve (12) units from the following:

- CJS 301 - Fundamentals of Criminal Law
- CJS 401 - Crime and Delinquency
- CJS 403 - Mass Media, Culture, and Crime
- CJS 497 - Comparative Criminal Justice
- POL 330 - Law and Literature
- POL 485 - Constitutional Law II

## Early Childhood Studies

Complete twelve (12) upper division units in ECH.

## English Language and Literature

Complete twelve (12) units from the following:

- ENG 303 - Topics in World Literature
- ENG 313 - American Multicultural Literature
- ENG 314 - Global Literature
- ENG 323 - Classical Literature
- ENG 333 - Seventeenth Century British Literature
- ENG 343 - Eighteenth and Nineteenth Century British Literature
- ENG 345 - Nineteenth Century American Literature
- ENG 353 - Introduction to Children's Literature
- ENG 355 - Folklore and Fairy Tales
- ENG 360 - Detective Fiction
- ENG 363 - Introduction to Young Adult Literature
- ENG 365 - Christian Classics
- ENG 366 - Faith and Literature
- ENG 371 - The Graphic Novel
- ENG 382 - Introduction to Digital Studies
- ENG 409 - Good Books
- ENG 413 - Shakespeare Studies
- ENG 420 - Special Topics in American Literature
- ENG 430 - Special Topics in British Literature
- ENG 440 - Modern American Literature
- ENG 443 - Contemporary American Literature

- ENG 454 - Writing in Context
- ENG 460 - Modern and Contemporary British Literature
- ENG 463 - Language Structure and Acquisition

## Entrepreneurship

Complete twelve (12) upper division units in ENT.

## Environmental Science

Complete twelve (12) upper division units in ENV.

(Students should plan to take ENV 101 in the Science core.)

## European Studies

Complete twelve (12) units from at least two areas (prefixes) from the following courses:

- ART 345 - Nineteenth Century Art History
- ENG 323 - Classical Literature
- ENG 333 - Seventeenth Century British Literature
- ENG 343 - Eighteenth and Nineteenth Century British Literature
- ENG 413 - Shakespeare Studies
- ENG 430 - Special Topics in British Literature
- ENG 460 - Modern and Contemporary British Literature
- HIS 333 - Nineteenth Century Europe
- HIS 343 - Twentieth Century Europe
- HIS 353 - Renaissance and Reformation Europe
- HIS 360 - Enlightenment Europe
- HIS 363 - History of England to 1688
- HIS 373 - History of England since 1688
- HIS 403 - Special Topics in European History
- HIS 423 - Medieval Civilization
- HIS 430 - Cross and the Crescent
- MUS 301 - Survey of Music History
- PHI 301 - History of Western Philosophy I
- PHI 302 - History of Western Philosophy II
- POL 423 - Classical Political Philosophy
- POL 425 - Modern Political Philosophy
- THE 332 - Theatre History I

## Film Studies

Complete twelve (12) units from the following:

- FLM 300 - National Cinema
- FLM 301 - Basic Screenwriting \*
- FLM 302 - Writing Short Screenplays \*

- FLM 305 - Christianity and Film
  - FLM 340 - Major Directors
  - FLM 350 - Film and Literature
  - FLM 420 - Independent Film and Counter-Cinema
  - FLM 470 - Adaptation and Intertextuality
- \*Students should plan to take FLM 105 in the Foundations core.

## Global Studies

Complete twelve (12) units from at least two areas (prefixes) from the following courses:

- ANT 360 - Globalization and Culture
- ART 347 - Contemporary Art History \*
- BUS 352 - Global Supply Chain Management
- BUS 363 - Microfinance
- COM 420 - Strategic Communication and Global Engagement
- CST 425 - Christian Social Ethics
- ENG 303 - Topics in World Literature
- ENG 314 - Global Literature
- ENT 362 - Social Entrepreneurship
- ENV 390 - Stewardship of the Environment
- HIS 305 - History of China
- HIS 315 - Latin American History
- HIS 325 - Non-Western Culture and History
- HIS 404 - Special Topics in World History
- ICS 305 - Global Christianity
- ICS 325 - Spiritual Formations for Global Engagement
- ICS 375 - Human Rights
- ICS 410 - Global and Urban Ministries
- ICS 430 - Intercultural Communication and Practice
- PHI 353 - Comparative Religions
- POL 350 - International Relations Theory
- POL 395 - Political Economy
- POL 415 - World Geography
- POL 437 - Globalization
- POL 439 - International Conflict
- POL 444 - International Law
- POL 454 - International Organizations
- POL 471 - Terrorism

\*Students should plan to take ART 241 or 242 in the Foundations core.

## History

Complete twelve (12) upper division units in HIS.

## Humanities

- HIS 325 - Non-Western Culture and History

- HUM 325 - Culture and the Museum
- HUM 335 - The Holocaust and the Humanities
- HUM 400 - Special Topics in Humanities

## Intercultural Studies

Complete twelve (12) upper division units in ICS.

## Interdisciplinary Studies

Complete twelve (12) upper division units from at least two areas (prefixes).

## Journalism and News Media

Complete twelve (12) units from the following:

- JRN 312 - Magazine and Feature Writing
- JRN 320 - Media Law, Ethics, and Copyright
- JRN 325 - Principles of Podcasting and Broadcasting
- JRN 370 - Social Media Strategies
- JRN 371 - Applied Journalism Production

## Kinesiology

Complete twelve (12) upper division units in KIN.

## Leadership

Complete twelve (12) upper division units in LDR.

## Marketing

Complete twelve (12) upper division units in MKT.

## Mathematics

Complete twelve (12) upper division units in MAT.

(Students should plan to take MAT 245 in the Mathematics core.)

## Music

Complete twelve (12) units from the following:

- MUS 301 - Survey of Music History
- MUS 306 - History of Popular Music
- MUS 308 - History of Jazz
- MUS 309 - History of Film Music

- MUS 360 - Theology, History, and Practice of Worship

## Philosophy

Complete twelve (12) upper division units in PHI.

## Political Science

Complete twelve (12) upper division units in POL.

## Psychology

Complete twelve (12) upper division units in PSY.

## Public Relations

- JRN 325 - Principles of Podcasting and Broadcasting *OR*
- JRN 370 - Social Media Strategies
  
- PRL 300 - Public Relations
- PRL 302 - Public Relations Writing
- PRL 310 - Public Relations Issues and Crisis Management

## Real Estate Management

Complete twelve (12) upper division units in REM.

## Science

Complete twelve (12) upper division units from at least two of the following areas (prefixes):

- BIO
- CHE
- ENV
- PHY

## Single Discipline Specialization

Complete twelve (12) upper division units from a single area (prefix).

## Sociology

Complete twelve (12) upper division units in SOC.

## Social Work

Complete twelve (12) upper division units in SWK.



## Spanish

Complete twelve (12) upper division units in SPA.

(Students should plan to take SPA 223, 230, or 233 in the Languages core.)

## Spanish for Teachers

(Students should plan to take SPA 223, 230, or 233 in the Languages core.)

- SPA 324 - Iberian Civilization and Culture
- SPA 325 - Spanish Grammar in Context and Composition
- SPA 411 - Spanish-English Comparative Structures
- SPA 470 - Spanish for Education

## Statistics

Complete twelve (12) upper division units in STA.

## Teaching English to Speakers of Other Languages (TESOL)

This concentration earns the TESOL certificate.

(Students must take ENG 463 in the Literature core.)

- ENG 442 - Teaching Second Language Writing
- ENG 446 - Teaching Second Language Reading
- ENG 452 - Second Language Curriculum Development and Assessment
- ENG 472 - Theory and Methods of TESOL

## Visual Media

Complete twelve (12) units from the following:

- ART 326 - Contemporary Art Issues \*
- ART 347 - Contemporary Art History \*
- ART 385 - Film as Visual Art
- ART 387 - Contemporary Visual Arts and Culture
- CJS 403 - Mass Media, Culture, and Crime
- ENG 353 - Introduction to Children's Literature
- ENG 371 - The Graphic Novel
- ENG 382 - Introduction to Digital Studies
- FLM 301 - Basic Screenwriting \*\*
- FLM 302 - Writing Short Screenplays \*\*
- GDM 335 - Conceptual Image Making
- GDM 354 - Mixed Reality Concept Design
- JRN 310 - Advanced Photojournalism
- JRN 410 - Editing for Photojournalism
- JRN 414 - Visual Documentary Reporting

\*Students should plan to take ART 241 or 242 in the Foundations core.

\*\*Students should plan to take FLM 105 in the Foundations core.

## Worship Arts

Complete twelve (12) units from the following:

- MUS 304 - Craft of Ministry I
- MUS 332 - Psalms, Hymns, and Spiritual Songs (2 units)
- MUS 360 - Theology, History, and Practice of Worship
- MUS 370 - Worship Technology
- MUS 404 - Craft of Ministry II (2 units)\*
- MUS 434 - Creative Worship Planning (2 units)

\*Requires MUS 302

## Writing

Complete twelve (12) units from at least two areas (prefixes) from the following courses:

- ALH 405 - Grant Writing
- CJS 441 - Fundamentals of Criminal Investigation and Report Writing
- ENG 302 - Professional Writing
- ENG 384 - Writing Fiction
- ENG 385 - Writing Poetry
- ENG 386 - Writing Creative Nonfiction
- ENG 411 - Special Topics in Creative Writing
- ENG 431 - Literary Journal Editing and Publishing
- ENG 454 - Writing in Context
- ENG 463 - Language Structure and Acquisition
- ENG 484 - Advanced Fiction Writing
- ENG 485 - Advanced Poetry Writing
- FLM 301 - Basic Screenwriting \*
- FLM 302 - Writing Short Screenplays \*
- FLM 370 - Writing for Streaming Media
- FLM 403 - Writing Adapted Screenplays
- JRN 312 - Magazine and Feature Writing
- JRN 340 - Sports Writing
- JRN 349 - Editing for Print and Online Media
- JRN 440 - Writing Columns and Blogs
- PRL 302 - Public Relations Writing
- THE 424 - Scriptwriting

\*Students should plan to take FLM 105 in the Foundations core.

## Spanish, BA

The Spanish major is designed to provide students with a quality undergraduate preparation for careers in teaching, translation and interpretation while also serving as a useful preparation for missionaries, business administrators, social workers, health care professionals, journalists, and for graduate studies. Since bilingual proficiency and multicultural

adaptability are an integral part of the Spanish program, students with a major, minor, or concentration in Spanish are encouraged to participate in study abroad opportunities in Spanish-speaking countries.

(also see Spanish for Healthcare Professions Minor)

## Traditional Major Program Requirements (40-52 units)

### Prerequisites

- SPA 115 - Elementary Spanish I **AND**
- SPA 125 - Elementary Spanish II
- **OR**
- SPA 130 - Spanish for Heritage Speakers I

### Lower Division Requirements

\*Replace with upper division units in Spanish if exempted by exam or assessment.

\*\*Replace with upper division units in Spanish for students fluent in the Spanish Language.

- SPA 101 - Introduction to the Discipline
- SPA 213 - Intermediate Spanish I **AND**
- SPA 223 - Intermediate Spanish II
- **OR**
- SPA 230 - Spanish for Heritage Speakers II \* **AND**
- Three (3) additional units in Spanish
- SPA 233 - Intermediate Conversational Spanish \*\*

### Upper Division Requirements

- HIS 315 - Latin American History
- SPA 324 - Iberian Civilization and Culture
- SPA 325 - Spanish Grammar in Context and Composition
- SPA 499 - Capstone

## Concentration Courses (18 units)

Students must complete one (1) of the following required concentrations: Spanish for Professions; Traditional/Teaching

### Spanish for Professions

- SPA 305 - Conversational Spanish for the Professions
- SPA 335 - Spanish in the Professions
- SPA 411 - Spanish-English Comparative Structures
- SPA 465 - Spanish-English Translation and Interpretation
- Complete six (6) additional upper division units in Spanish

## Traditional/Teaching

- SPA 345 - Survey of Iberian Literature I
- SPA 365 - Survey of Iberian Literature II
- SPA 414 - Latin American Literature I
- SPA 424 - Latin American Literature II
- Complete six (6) additional upper division units in Spanish

## Optional Additional Concentrations (12 units\*)

Students can earn optional concentration in one of the following areas: Hispanic Literature and Film\*; Spanish Teaching

\*Completing the Hispanic Literature and Film optional concentration requires the completion of twelve (12) distinct units beyond the major.

### Hispanic Literature and Film\*

\*Students can earn an optional concentration in Hispanic Literature and Film by completing the Hispanic Literature and Film certificate requirements. The Hispanic Literature and Film certificate is issued by the Office of the University Registrar upon student request and completion of these courses.

### Upper Division Requirements

- SPA 330 - Hispanic Literature and Film
- SPA 339 - Modern Mexican Literature and Film

### Additional Upper Division Requirements

Complete six (6) units from the following:

- SPA 305 - Conversational Spanish for the Professions
- SPA 315 - Introduction to Hispanic Literature
- SPA 335 - Spanish in the Professions
- SPA 400 - Special Topics

### Spanish Teaching

- SPA 315 - Introduction to Hispanic Literature
- SPA 330 - Hispanic Literature and Film **OR**
- SPA 339 - Modern Mexican Literature and Film
- SPA 411 - Spanish-English Comparative Structures
- SPA 470 - Spanish for Education

## Subject Matter Preparation Program in Spanish

The Single Subject Matter Preparation (SSMP) Program in Spanish consists of approved Spanish courses selected to provide undergraduate students the academic background necessary to qualify them to teach Spanish courses in grades seven through twelve. To obtain a Single Subject Credential in Spanish the student must

1. Obtain an undergraduate degree.
2. Demonstrate subject competence in Spanish in one of two ways: Earn a passing score on a Spanish examination that has been adopted by the Commission on Teacher Credentialing or complete a commission approved SSMP program. The SSMP Program from CBU is an approved CTC program.
3. Complete a teaching credential program.

Students interested in the Subject Matter Preparation Program should contact their Faculty Advisor in the Spanish Department. Students seeking a teaching credential should contact the Teacher Education Credential Program within the School of Education. (Also see Preliminary Single Subject Credential for the Professional Methods Program for Single Subject Credential Students.)

## **Minor**

### **American Sign Language Minor**

The American Sign Language (ASL) minor is designed to provide students with a quality undergraduate preparation that will enhance careers in Education, Speech-Language Pathology, Medical Practice, Law, Law Enforcement, Arts and Entertainment, Christian Ministry, Counseling, and other fields of public service. In addition to developing practical conversational skills in ASL, students will gain theoretical and experiential awareness of Deaf culture and community.

### **Traditional Minor Program Requirements (18 units)**

#### **Prerequisites**

- ASL 115 - American Sign Language I
- ASL 125 - American Sign Language II

#### **Lower Division Requirements**

- ASL 215 - Intermediate American Sign Language I
- ASL 225 - Intermediate American Sign Language II

#### **Upper Division Requirements**

- ASL 315 - Deaf Studies
- ASL 325 - American Sign Language Linguistics
- ASL 415 - American Deaf Culture

#### **Upper Division Elective Requirement**

Complete three (3) units from the following:

- ASL 307 - Deaf Ministry
- ASL 425 - Introduction to Interpreting for the Deaf

## **Children's Literature Minor**

### **Traditional Minor Program Requirements (18 units)**

#### **Lower Division Requirement**

- ENG 201 - Introduction to Literature

#### **Upper Division Requirements**

- ENG 353 - Introduction to Children's Literature
- ENG 354 - Children's Classics
- ENG 355 - Folklore and Fairy Tales
- ENG 363 - Introduction to Young Adult Literature

#### **Upper Division Elective Requirement**

Complete three (3) additional units from the following:

- ECH 435 - Cross Cultural Perspectives of Children including Children with Disabilities
- ENG 313 - American Multicultural Literature
- ENG 343 - Eighteenth and Nineteenth Century British Literature
- ENG 409 - Good Books
- ENG 463 - Language Structure and Acquisition
- PSY 305 - Developmental Psychology: Child
- THE 312 - Drama in the Classroom

## **Creative Writing Minor**

### **Traditional Minor Program Requirements (18 units)**

#### **Lower Division Requirement**

- ENG 273 - Introduction to Creative Writing

#### **Upper Division Requirements**

Complete one of the following sequences:

- ENG 384 - Writing Fiction
- ENG 484 - Advanced Fiction Writing
- OR**
- ENG 385 - Writing Poetry
- ENG 485 - Advanced Poetry Writing

#### **Upper Division Writing Elective Requirements**

Complete six (6) units from the following:

- ENG 384 - Writing Fiction
- ENG 385 - Writing Poetry
- ENG 386 - Writing Creative Nonfiction
- ENG 411 - Special Topics in Creative Writing
- ENG 431 - Literary Journal Editing and Publishing
- ENG 484 - Advanced Fiction Writing
- ENG 485 - Advanced Poetry Writing

## Upper Division Elective Requirement

Complete three (3) additional units from the following:

- ENG 384 - Writing Fiction
- ENG 385 - Writing Poetry
- ENG 386 - Writing Creative Nonfiction
- ENG 411 - Special Topics in Creative Writing
- ENG 431 - Literary Journal Editing and Publishing
- ENG 484 - Advanced Fiction Writing
- ENG 485 - Advanced Poetry Writing
- FLM 301 - Basic Screenwriting
- JRN 312 - Magazine and Feature Writing

## English Minor

### Traditional Minor Program Requirements (18 units)

#### Lower Division Requirement

- ENG 201 - Introduction to Literature

#### Lower Division Elective Requirement

Complete three (3) units from the following:

- ENG 213 - British Literature Pre-1750
- ENG 223 - British Literature Post-1750
- ENG 233 - American Literature Pre-1865
- ENG 243 - American Literature Post-1865
- ENG 253 - World Literature Pre-1650
- ENG 263 - World Literature Post-1650

#### Upper Division Requirements

Complete twelve (12) upper division units in English

## Spanish for Healthcare Professions Minor

The Spanish for Healthcare Professions minor provides concentrated preparation in the study of language and culture in the healthcare field. Given the ever-growing need for bilingual doctors, nurses, and other health care professionals due to the consistently growing population of Spanish speakers in the US, students graduating with this minor will be well equipped and at an advantage to many of their peers when applying for positions within the healthcare professions.

## Traditional Minor Program Requirements (19 units)

### Prerequisites

Complete one of the following course sequences:

- SPA 110 - Spanish for Health Care Professionals I **AND**
- SPA 120 - Spanish for Health Care Professionals II  
**OR**
- SPA 115 - Elementary Spanish I **AND**
- SPA 125 - Elementary Spanish II  
**OR**
- SPA 130 - Spanish for Heritage Speakers I

### Lower Division Requirements

\*Replace with upper division units in Spanish if exempted by exam or assessment.

- SPA 101 - Introduction to the Discipline
- SPA 213 - Intermediate Spanish I **AND**
- SPA 223 - Intermediate Spanish II  
**OR**
- SPA 230 - Spanish for Heritage Speakers II \* **AND**
- Three (3) additional units in Spanish

### Upper Division Requirements

- SPA 335 - Spanish in the Professions
- SPA 337 - Advanced Spanish for Healthcare Professions
- SPA 465 - Spanish-English Translation and Interpretation

### Upper Division Elective Requirement

- Complete three (3) additional units in Spanish

## Spanish Minor

## Traditional Minor Program Requirements (18 units)

### Prerequisites



- SPA 115 - Elementary Spanish I **AND**
- SPA 125 - Elementary Spanish II
- OR**
- SPA 130 - Spanish for Heritage Speakers I

## Lower Division Requirements

\*Replace with upper division units in Spanish if exempted by exam or assessment.

- SPA 101 - Introduction to the Discipline
- SPA 213 - Intermediate Spanish I **AND**
- SPA 223 - Intermediate Spanish II
- OR**
- SPA 230 - Spanish for Heritage Speakers II \* **AND**
- Three (3) additional units in Spanish

## Upper Division Requirements

- SPA 315 - Introduction to Hispanic Literature
- SPA 325 - Spanish Grammar in Context and Composition
- Six (6) additional upper division units in Spanish

## Teachers of English to Speakers of Other Languages (TESOL) Minor

The TESOL minor includes concentrated coursework in TESOL designed for students from all disciplines who wish to supplement their academic interest or goals. The TESOL minor is especially valuable for students who seek work or ministry opportunities - at home or abroad - with speakers of languages other than English.

## Traditional Minor Program Requirements (18 units)

### Upper Division Requirements

- ENG 432 - Sociolinguistics
- ENG 442 - Teaching Second Language Writing
- ENG 446 - Teaching Second Language Reading
- ENG 452 - Second Language Curriculum Development and Assessment
- ENG 463 - Language Structure and Acquisition
- ENG 472 - Theory and Methods of TESOL

## Writing and Digital Studies Minor

The Writing and Digital Studies minor is designed to complement a broad range of majors and to prepare students for professional writing in a digital environment by developing and translating their written, analytical, and research skills into the workplace. It explores a variety of digital platforms for both analysis and expression.

## Traditional Minor Program Requirements (18 units)

## Lower Division Requirements

- ENG 201 - Introduction to Literature **OR**
- ENG 273 - Introduction to Creative Writing
- JRN 216 - Digital Storytelling **OR**
- HUM 213 - Humanities I **OR**
- HUM 223 - Humanities II

## Upper Division Requirements

- ENG 302 - Professional Writing
- ENG 382 - Introduction to Digital Studies

## Writing and Practical Application Elective Requirement

Complete three (3) units from the following:

- ENG 431 - Literary Journal Editing and Publishing
- ENG 454 - Writing in Context
- ENG 491 - Internship

## Upper Division Breadth Elective Requirement

Complete three (3) units from the following:

- ART 351 - Museum Studies
- ART 385 - Film as Visual Art
- ART 387 - Contemporary Visual Arts and Culture
- ART 430 - Art and the Bible
- ENG 303 - Topics in World Literature
- ENG 323 - Classical Literature
- ENG 333 - Seventeenth Century British Literature
- ENG 343 - Eighteenth and Nineteenth Century British Literature
- ENG 353 - Introduction to Children's Literature
- ENG 354 - Children's Classics
- ENG 355 - Folklore and Fairy Tales
- ENG 363 - Introduction to Young Adult Literature
- ENG 365 - Christian Classics
- ENG 399 - Independent Study
- ENG 400 - Special Topics in English
- ENG 431 - Literary Journal Editing and Publishing
- ENG 440 - Modern American Literature
- ENG 443 - Contemporary American Literature
- ENG 454 - Writing in Context
- ENG 460 - Modern and Contemporary British Literature
- ENG 491 - Internship

- FLM 305 - Christianity and Film
- FLM 350 - Film and Literature
- HIS 440 - History of Greece and Rome through Film
- HUM 325 - Culture and the Museum
- JRN 320 - Media Law, Ethics, and Copyright
- JRN 349 - Editing for Print and Online Media
- JRN 370 - Social Media Strategies
- POL 330 - Law and Literature

## **Certificate**

### **Advanced Proficiency in Written and Oral Spanish Certificate**

The Advanced Proficiency in Written and Oral Spanish Certificate is issued by the Office of the University Registrar upon student request and completion of the below courses.

#### **Traditional Certificate Program Requirements (12 units)**

##### **Certificate Requirements**

\*Replace with upper division units in Spanish if exempted by exam or assessment.

- SPA 213 - Intermediate Spanish I **AND**
- SPA 223 - Intermediate Spanish II
- **OR**
- SPA 230 - Spanish for Heritage Speakers II \* **AND**
- Three (3) additional units in Spanish
- SPA 325 - Spanish Grammar in Context and Composition
- Three (3) additional upper division units in Spanish

### **Children's Literature Certificate**

The Children's Literature Certificate is issued by the Office of the University Registrar upon student request and completion of the below courses. The certificate includes concentrated coursework in children's literature designed for students who wish to supplement their academic interest or goals.

#### **Traditional Certificate Program Requirements (12 units)**

##### **Certificate Requirements**

- ENG 353 - Introduction to Children's Literature
- ENG 363 - Introduction to Young Adult Literature

##### **Certificate Elective Requirements**

Complete six (6) units from the following:

\* Special Topics courses must be approved by the Department of Modern Languages and Literature to meet certificate requirements.

- ENG 200 - Special Topics in English \*
- ENG 354 - Children's Classics
- ENG 355 - Folklore and Fairy Tales
- ENG 400 - Special Topics in English \*

## **Hispanic Literature and Film Certificate**

### **Traditional Certificate Program Requirements (12 units)**

The Hispanic Literature and Film Certificate is issued by the Office of the University Registrar upon student request and completion of the below courses.

#### **Upper Division Requirements**

- SPA 330 - Hispanic Literature and Film
- SPA 339 - Modern Mexican Literature and Film

#### **Additional Upper Division Requirements**

Complete six (6) units from the following:

- SPA 305 - Conversational Spanish for the Professions
- SPA 315 - Introduction to Hispanic Literature
- SPA 335 - Spanish in the Professions
- SPA 400 - Special Topics

## **Teachers of English to Speakers of Other Languages (TESOL) Certificate**

The TESOL Certificate is issued by the Office of the University Registrar upon student request and completion of the below courses. The certificate includes concentrated coursework in TESOL designed for students with a major outside the English program who wish to supplement their academic interest or goals.

### **Traditional Certificate Program Requirements**

#### **Certificate Requirements (15 units)**

- ENG 442 - Teaching Second Language Writing
- ENG 446 - Teaching Second Language Reading
- ENG 452 - Second Language Curriculum Development and Assessment
- ENG 463 - Language Structure and Acquisition
- ENG 472 - Theory and Methods of TESOL

# **Division of Natural and Mathematical Sciences - Department of Biological Sciences**

## **Division of Natural and Mathematical Sciences**

### **Dr. Thomas Ferko**

*Associate Dean of the Division of Natural and Mathematical Sciences*

### **Allie Floyd**

*Director of Academic Operations*

Phone 951.343.4380

FAX 951.343.4584

afloyd@calbaptist.edu

### **Faculty Information**

The Division of Natural and Mathematical Sciences consists of the following three departments: Biological Sciences, Chemical Sciences, and Mathematical Sciences. We are committed to preparing students for careers in mathematics and science and science-related fields. Our students are successfully transitioning into professional or graduate schools, into the classroom as teachers, or directly into the workforce in a variety of careers. Students have the opportunity to work with our faculty on research, present their research at California Baptist University and outside conferences, as well as work in our labs. Our diverse, highly qualified and caring faculty is interested in helping to develop the whole person so that our students will leave California Baptist University as Christian scholars who can make a positive impact in our world.

## **Department of Biological Sciences**

### **Dr. Bruce Prins**

*Chair*

### **Laura Flood**

*Administrative Secretary*

Phone 951.552.8988

FAX 951.343.4584

lflood@calbaptist.edu

A bachelor's degree in the Department of Biological Sciences from California Baptist University is a great start toward many exciting career opportunities, especially those related to healthcare, solving environmental challenges, working with animals, teaching, research, sustainable development, and more. Students will be prepared to join the growing number of people and organizations around the globe who are focused on helping others meet their basic human needs, including healthcare and developing sustainable communities.

The Biomedical Sciences major is tailored for students seeking careers in various biomedical professions, including medicine, dentistry, pharmacy, physician assistant, physical therapy, podiatry, optometry, veterinary and others.

The Biology Major is for students who want to go to medical or other professional schools, who want teach, or who just have a general interest in biology.

The Environmental Science major is focused on learning about and solving environmental challenges.

We are very proud of the success our graduates are having. Our faculty are personally invested in the students, and opportunities for students to be involved in research and student organizations are plentiful. These interactions will help in choosing a career goal that fits their strengths, helps realize their goals, and allows them to live their purpose.

## Major

### Biology, BS

This Biology program provides the core curricular needs for the life sciences, and prepares its majors for the pursuit of graduate studies, professional studies, teaching at the secondary level, or research in the biological sciences. Students interested in teaching at the secondary level should see the Education section for the Professional Methods Program for Single Subject Credential Students.

### Traditional Major Program Requirements (64-68 units)

#### Lower Division Requirements

- BIO 101 - Orientation to the Discipline
- BIO 146 - General Biology I with Lab
- BIO 148 - General Biology II with Lab
- CHE 115 - General Chemistry I
- CHE 115L - General Chemistry I Lab
- CHE 125 - General Chemistry II
- CHE 125L - General Chemistry II Lab
- MAT 145 - Mathematical Methods in the Natural Sciences **OR**
- MAT 245 - Analytical Geometry and Calculus I
- PHY 214 - Physics I
- PHY 214L - Physics I Lab
- PHY 224 - Physics II
- PHY 224L - Physics II Lab

#### Upper Division Requirements

- BIO 313 - Genetics
- BIO 330 - Cell and Molecular Biology with Lab
- CHE 351 - Organic Chemistry I with Lab
- CHE 352 - Organic Chemistry II with Lab

#### Practicum Requirement

Complete three (3) units from the following:

- BIO 380 - Biology Seminar
- BIO 490 - Research in Biology
- BIO 491 - Internship in Biology
- BIO 499 - Biology Capstone

## Concentration Courses (16-20 units)

Students must complete all requirements in one of the following concentrations: Environmental Science; General Biology; Secondary Biology Education

### Environmental Science (16 units)

- BIO 114 - General Botany with Lab
- BIO 302 - Ecology with Lab
- ENV 360 - Environmental Chemistry with Lab
- SCI 412 - Topics Marine Science

### General Biology (16 units)

- BIO 114 - General Botany with Lab
- Complete twelve (12) additional upper division units in biology and SCI 412

### Secondary Biology Education (20 units)

- BIO 114 - General Botany with Lab
- BIO 302 - Ecology with Lab
- BIO 344 - Vertebrate Physiology with Lab
- ENV 451 - Advanced Geoscience with Lab
- PHY 301 - Astronomy II
- PHY 301L - Astronomy II Lab

## Recommended Courses

- PHY 214D - Physics I Discussion
- PHY 224D - Physics II Discussion

## Biomedical Sciences, BS

This major prepares students for careers in biomedical sciences, including as physicians, dentists, pharmacists, podiatrists, graduate nursing, physician assistants, physical therapists, optometrists, and veterinarians. The curriculum provides necessary application course requirements and preparation for success in graduate programs. Emphasis is placed on human biology, pathobiology, and pharmacology.

## Traditional Major Program Requirements (74 units)

### Lower Division Requirements

- BIO 101 - Orientation to the Discipline
- BIO 146 - General Biology I with Lab
- BIO 148 - General Biology II with Lab
- CHE 115 - General Chemistry I

- CHE 115L - General Chemistry I Lab
- CHE 125 - General Chemistry II
- CHE 125L - General Chemistry II Lab
- MAT 145 - Mathematical Methods in the Natural Sciences **OR**
- MAT 245 - Analytical Geometry and Calculus I
- PHY 214 - Physics I
- PHY 214L - Physics I Lab
- PHY 224 - Physics II
- PHY 224L - Physics II Lab
- STA 144 - Introduction to Statistics

## Upper Division Requirements

- BIO 305 - Microbiology with Lab
- BIO 330 - Cell and Molecular Biology with Lab
- BIO 353 - Advanced Human Anatomy and Physiology I with Lab
- BIO 363 - Advanced Human Anatomy and Physiology II with Lab
- BIO 440 - Pharmacology with Discussion
- CHE 351 - Organic Chemistry I with Lab
- CHE 352 - Organic Chemistry II with Lab
- CHE 443 - Biochemistry I with Lab

## Upper Division Research Requirement

Complete at least two (2) units of either:

- BIO 490 - Research in Biology *OR*
- BIO 491 - Internship in Biology *OR*
- BIO 499 - Biology Capstone

## Upper Division Electives

Complete eight (8) units from the following:

- BIO 313 - Genetics
- BIO 324 - Developmental Biology with Lab
- BIO 412 - Topics in Biology
- BIO 425 - Cancer Biology
- BIO 489 - Immunology and Molecular Pathogenesis with Lab

## Recommended Courses

- PHY 214D - Physics I Discussion
- PHY 224D - Physics II Discussion

## Environmental Science, BS



The Environmental Science degree program is designed for students who wish to receive a comprehensive environmental science education for the purpose of research into and management of Earth's natural resources, and for promotion of environmental protection of these resources for public health and welfare. The major prepares students for careers in private, state and federal environmental roles. The major is designed for students who have a desire to solve environmental challenges and be involved in their solutions.

## Traditional Major Program Requirements (62 units)

### Lower Division Requirements

- BIO 114 - General Botany with Lab
- BIO 146 - General Biology I with Lab
- BIO 148 - General Biology II with Lab
- CHE 115 - General Chemistry I
- CHE 115L - General Chemistry I Lab
- CHE 125 - General Chemistry II
- CHE 125L - General Chemistry II Lab
- ENV 110 - Introduction to Environmental Science with Lab
- STA 144 - Introduction to Statistics

### Upper Division Requirements

- BIO 302 - Ecology with Lab
- ENV 360 - Environmental Chemistry with Lab
- ENV 370 - Soil and Water
- ENV 380 - Environmental Science Seminar
- ENV 390 - Stewardship of the Environment
- ENV 450 - Environmental Organic Chemistry with Lab
- ENV 470 - Advanced Environmental Science with Lab

### Upper Division Elective Requirements

Complete twelve (12) additional upper division units from:

- CIS 465 - Essentials of Geographic Information Systems
- ENV 310 - Sustainable Agriculture and Population Dynamics
- ENV 350L - Urban Agriculture Lab
- ENV 400 - Special Topics in Environmental Science
- ENV 400L - Special Topics in Environmental Science Lab
- ENV 430 - Sustainability and Conservation with Lab
- ENV 451 - Advanced Geoscience with Lab
- ENV 490 - Research in Environmental Science
- ENV 495 - Field Practicum **OR**
- ENV 495G - Field Practicum
- SCI 412 - Topics Marine Science

## **Minor**

### **Biology Minor**

#### Traditional Minor Program Requirements (27 units)

##### Lower Division Requirements

- BIO 146 - General Biology I with Lab
- BIO 148 - General Biology II with Lab
- CHE 115 - General Chemistry I
- CHE 115L - General Chemistry I Lab
- CHE 125 - General Chemistry II
- CHE 125L - General Chemistry II Lab

##### Upper Division Requirements

- BIO 305 - Microbiology with Lab
- Four (4) additional upper division units in Biology with a Lab or Discussion
- Three (3) additional upper division units in Biology

### **Environmental Science Minor**

#### Traditional Minor Program Requirements (24 units)

##### Lower Division Requirements

- BIO 146 - General Biology I with Lab
- CHE 115 - General Chemistry I
- CHE 115L - General Chemistry I Lab
- ENV 110 - Introduction to Environmental Science with Lab

##### Upper Division Elective Requirements

Complete twelve (12) upper division units from:

- ENV **OR**
- BIO 302 - Ecology with Lab *OR*
- SCI 412 - Topics Marine Science

### **Sustainability Minor**

#### Traditional Minor Program Requirements (18 units)

## Lower Division Requirement

- ENV 110 - Introduction to Environmental Science with Lab

## Upper Division Requirements

- CIS 465 - Essentials of Geographic Information Systems
- ENV 310 - Sustainable Agriculture and Population Dynamics
- ENV 350L - Urban Agriculture Lab
- ENV 370 - Soil and Water
- ENV 430 - Sustainability and Conservation with Lab

## Division of Natural and Mathematical Sciences - Department of Chemical Sciences

### Division of Natural and Mathematical Sciences

#### **Dr. Thomas Ferko**

*Associate Dean of the Division of Natural and Mathematical Sciences*

#### **Allie Floyd**

*Director of Academic Operations*

Phone 951.343.4380

FAX 951.343.4584

afloyd@calbaptist.edu

#### **Faculty Information**

The Division of Natural and Mathematical Sciences consists of the following three departments: Biological Sciences, Chemical Sciences, and Mathematical Sciences. We are committed to preparing students for careers in mathematics and science and science-related fields. Our students are successfully transitioning into professional or graduate schools, into the classroom as teachers, or directly into the workforce in a variety of careers. Students have the opportunity to work with our faculty on research, present their research at California Baptist University and outside conferences, as well as work in our labs. Our diverse, highly qualified and caring faculty is interested in helping to develop the whole person so that our students will leave California Baptist University as Christian scholars who can make a positive impact in our world.

## Department of Chemical Sciences

#### **Dr. Patrick Schacht**

*Chair*

#### **Kimberlee Bartholomew**

*Department Secretary*

Phone 951.552.8662

FAX 951.343.4584

kbartholomew@calbaptist.edu

The Department of Chemical Sciences offers majors and minors that will help prepare students for a variety of careers. Students can work in fields at the forefront of science - helping to develop the technologies of tomorrow, or in a variety of careers which require a background in chemistry.

A major in chemistry can lead to work in industries that produce pharmaceuticals, personal care products, plastics, household chemicals, foods and beverages, and thousands of other materials relied upon for everyday life. Chemists also conduct research to better understand nature and solve significant problems, such as developing alternative fuels and understanding climate change. Many of our graduates continue on to graduate school to further prepare them for research-related careers while other students pursue careers as secondary school teachers, scientists in private labs, or employment in governmental agencies.

The biochemistry and molecular biology major is designed with courses that will either prepare students for, or directly cover, topics that are at the convergence of chemistry and biology. This major is rigorous and comprehensive, preparing students for graduate and professional programs in the biomedical sciences and the same careers as biology and chemistry majors.

The forensic chemistry major prepares students to be competitive for entry level employment in forensic science-related positions while also providing a strong background in chemistry that can lead to other careers. By choosing either a concentration in Criminal Justice Systems or Criminalistics, students will gain advanced experience in one of these areas, depending on the career direction that the student wants to pursue.

The Pharmaceutical Sciences major provides a comprehensive preparation for students who wish to pursue a career as a pharmacist or in the pharmaceutical industry.

Students will learn under professors who are dedicated to their students. Most major classes are taught by full-time faculty members. We have state-of-the-art equipment and facilities that are dedicated solely for use by our students in both classes and research.

## **Major**

### **Biochemistry and Molecular Biology, BS**

Biochemistry and Molecular Biology majors study the area of science where biology and chemistry intersect. It is an ideal major for students with strong interest in both biology and chemistry as it prepares students for graduate studies and professional studies in medical sciences, in addition to industry and government careers that require in-depth knowledge of either chemistry or biology.

### **Traditional Major Program Requirements (75 units)**

#### **Lower Division Requirements**

- BIO 146 - General Biology I with Lab
- BIO 148 - General Biology II with Lab
- CHE 101 - Orientation to the Discipline
- CHE 115 - General Chemistry I
- CHE 115L - General Chemistry I Lab
- CHE 125 - General Chemistry II
- CHE 125L - General Chemistry II Lab
- CHE 230 - Introduction to Molecular Modeling
- MAT 245 - Analytical Geometry and Calculus I
- MAT 255 - Analytical Geometry and Calculus II

- PHY 214 - Physics I
- PHY 214L - Physics I Lab
- PHY 224 - Physics II
- PHY 224L - Physics II Lab

## Upper Division Requirements

- BIO 330 - Cell and Molecular Biology with Lab
- BIO 430 - Laboratory Techniques in Molecular Biology
- BIO 435 - Proteomics, Genomics, and Bioinformatics with Lab
- CHE 321 - Quantitative Chemical Analysis with Lab
- CHE 351 - Organic Chemistry I with Lab
- CHE 352 - Organic Chemistry II with Lab
- CHE 415 - Physical Chemistry I
- CHE 443 - Biochemistry I with Lab
- CHE 444 - Biochemistry II with Lab

## Upper Division Elective Requirement

Complete four (4) units from the following:

- BIO 313 - Genetics
- BIO 440 - Pharmacology with Discussion
- BIO 489 - Immunology and Molecular Pathogenesis with Lab

## Upper Division Research Requirement

Complete a four (4) unit sequence from the following:

- BIO 380 - Biology Seminar
- BIO 490 - Research in Biology (3 units)
- OR**
- CHE 480 - Chemistry Research Seminar
- CHE 490 - Research in Chemistry (3 units)

## Recommended Courses

- PHY 214D - Physics I Discussion
- PHY 224D - Physics II Discussion

## Chemistry, BS

The Chemistry major prepares students for employment in industry, government, and academia in positions that require an in-depth knowledge of chemistry. The major also prepares students to be chemistry teachers and for graduate study in scientific disciplines related to chemistry. Students interested in teaching at the secondary level should see the School of Education section for more information.

## Traditional Major Program Requirements (63 units)

### Lower Division Requirements

- CHE 101 - Orientation to the Discipline
- CHE 115 - General Chemistry I
- CHE 115L - General Chemistry I Lab
- CHE 125 - General Chemistry II
- CHE 125L - General Chemistry II Lab
- CHE 230 - Introduction to Molecular Modeling
- MAT 245 - Analytical Geometry and Calculus I
- MAT 255 - Analytical Geometry and Calculus II
- PHY 214 - Physics I
- PHY 214L - Physics I Lab
- PHY 224 - Physics II
- PHY 224L - Physics II Lab

### Upper Division Requirements

- CHE 321 - Quantitative Chemical Analysis with Lab
- CHE 341 - Advanced Inorganic Chemistry with Lab
- CHE 351 - Organic Chemistry I with Lab
- CHE 352 - Organic Chemistry II with Lab
- CHE 415 - Physical Chemistry I
- CHE 416 - Physical Chemistry II with Lab
- CHE 470 - Instrumental Analysis
- CHE 480 - Chemistry Research Seminar
- CHE 490 - Research in Chemistry (1 unit)

### Upper Division Elective Requirements

Complete eight (8) additional upper division units from the following:

- CHE 400 - Special Topics in Chemistry
- CHE 443 - Biochemistry I with Lab
- CHE 444 - Biochemistry II with Lab
- CHE 453 - Advanced Organic Chemistry
- CHE 475 - Forensic Chemistry with Lab
- CHE 490 - Research in Chemistry (1-3 units)

### Recommended Courses

- PHY 214D - Physics I Discussion
- PHY 224D - Physics II Discussion

## Forensic Chemistry, BS

The Forensic Chemistry major prepares students to be competitive for entry level employment in forensic science-related positions while also providing a strong background in chemistry that can lead to other careers. By choosing either a concentration in Criminal Justice Systems or Criminalistics students will gain advanced experience in one of these areas, depending on the career direction that the student wants to pursue.

## Traditional Major Program Requirements (70-74 units)

### Lower Division Requirements

- BIO 146 - General Biology I with Lab
- CHE 101 - Orientation to the Discipline
- CHE 115 - General Chemistry I
- CHE 115L - General Chemistry I Lab
- CHE 125 - General Chemistry II
- CHE 125L - General Chemistry II Lab
- CJS 113 - Introduction to Criminal Justice
- MAT 245 - Analytical Geometry and Calculus I
- PHY 214 - Physics I
- PHY 214L - Physics I Lab
- PHY 224 - Physics II
- PHY 224L - Physics II Lab
- SCI 205 - Introduction to Forensic Science with Lab
- STA 144 - Introduction to Statistics

### Upper Division Requirements

- CHE 321 - Quantitative Chemical Analysis with Lab
- CHE 351 - Organic Chemistry I with Lab
- CHE 352 - Organic Chemistry II with Lab
- CHE 470 - Instrumental Analysis
- CHE 475 - Forensic Chemistry with Lab
- CHE 485 - Forensic Chemistry Major Capstone

### Concentration Courses (12-16 units)

Students must complete all requirements in one of the following concentrations: Criminal Justice Systems; Criminalistics

#### Criminal Justice Systems (12 units)

Complete twelve (12) units from the following:

- CJS 301 - Fundamentals of Criminal Law
- CJS 321 - Courts and Criminal Procedures
- CJS 331 - Police Systems and Practices
- CJS 441 - Fundamentals of Criminal Investigation and Report Writing
- CJS 485 - Methods of Research for Criminal Justice

### Criminalistics (16 units)

- BIO 148 - General Biology II with Lab
- BIO 313 - Genetics
- BIO 330 - Cell and Molecular Biology with Lab
- CHE 443 - Biochemistry I with Lab

### Recommended Courses

- PHY 214D - Physics I Discussion
- PHY 224D - Physics II Discussion

## Pharmaceutical Sciences, BS

This degree is designed to prepare students for both graduate programs in Pharmacy (PharmD) and related areas (Master's and Ph.D. degrees in Medicinal Chemistry, Pharmacology, etc.) in addition to entry-level pharmaceutical research, sales, and industry positions. The major builds on a foundation in disciplines that are the basis to understanding the pharmaceutical sciences (chemistry, biology, math, physics, economics) while providing specialized instruction in pharmaceutical-related Biology and Chemistry courses at the upper-division level.

### Traditional Major Program Requirements (79-80 units)

#### Lower Division Requirements

- BIO 146 - General Biology I with Lab
- BIO 148 - General Biology II with Lab
- BUS 217 - Microeconomics **OR**
- BUS 218 - Macroeconomics
- CHE 101 - Orientation to the Discipline
- CHE 115 - General Chemistry I
- CHE 115L - General Chemistry I Lab
- CHE 125 - General Chemistry II
- CHE 125L - General Chemistry II Lab
- MAT 245 - Analytical Geometry and Calculus I
- MAT 255 - Analytical Geometry and Calculus II
- PHY 214 - Physics I
- PHY 214L - Physics I Lab
- STA 144 - Introduction to Statistics

#### Upper Division Requirements

- BIO 440 - Pharmacology with Discussion
- CHE 351 - Organic Chemistry I with Lab
- CHE 352 - Organic Chemistry II with Lab
- CHE 443 - Biochemistry I with Lab



## Anatomy and Physiology Requirements

Complete a two-semester Anatomy and Physiology sequence from the following:

- BIO 153 - Anatomy and Physiology I **AND**
  - BIO 153L - Anatomy and Physiology I Lab **AND**
  - BIO 163 - Anatomy and Physiology II **AND**
  - BIO 163L - Anatomy and Physiology II Lab
- OR**
- BIO 353 - Advanced Human Anatomy and Physiology I with Lab **AND**
  - BIO 363 - Advanced Human Anatomy and Physiology II with Lab

## Microbiology Requirements

Complete a one-semester Microbiology course with lab from the following:

- BIO 205 - Human Microbiology **AND**
  - BIO 205L - Human Microbiology Lab
- OR**
- BIO 305 - Microbiology with Lab

## Upper Division Elective Requirements

Complete sixteen (16) additional upper division units from the following:

- BIO 313 - Genetics
  - BIO 330 - Cell and Molecular Biology with Lab
  - BIO 425 - Cancer Biology
  - BIO 430 - Laboratory Techniques in Molecular Biology
  - BIO 435 - Proteomics, Genomics, and Bioinformatics with Lab
  - BIO 489 - Immunology and Molecular Pathogenesis with Lab
  - CHE 321 - Quantitative Chemical Analysis with Lab
  - CHE 415 - Physical Chemistry I
  - CHE 416 - Physical Chemistry II with Lab
  - CHE 444 - Biochemistry II with Lab
  - CHE 470 - Instrumental Analysis
  - MAT 342 - Fundamentals of Multivariable Calculus and Differential Equations
- 
- BIO 490 - Research in Biology (maximum 4 units) **OR**
  - CHE 490 - Research in Chemistry (maximum 4 units)

## Recommended Course

- PHY 214D - Physics I Discussion

## Minor

## **Chemistry Minor**

### **Traditional Minor Program Requirements (25 units)**

#### **Lower Division Requirements**

- CHE 115 - General Chemistry I
- CHE 115L - General Chemistry I Lab
- CHE 125 - General Chemistry II
- CHE 125L - General Chemistry II Lab

#### **Upper Division Requirements**

- CHE 351 - Organic Chemistry I with Lab
- CHE 352 - Organic Chemistry II with Lab
- CHE 480 - Chemistry Research Seminar **OR**
- CHE 490 - Research in Chemistry

#### **Upper Division Elective Requirement**

- Complete eight (8) additional upper division units in Chemistry

## **Forensic Chemistry Minor**

### **Traditional Minor Program Requirements (24 units)**

#### **Lower Division Requirements**

- CHE 115 - General Chemistry I
- CHE 115L - General Chemistry I Lab
- CHE 125 - General Chemistry II
- CHE 125L - General Chemistry II Lab
- SCI 205 - Introduction to Forensic Science with Lab

#### **Upper Division Requirements**

- CHE 321 - Quantitative Chemical Analysis with Lab
- CHE 470 - Instrumental Analysis
- CHE 475 - Forensic Chemistry with Lab

# **Division of Natural and Mathematical Sciences - Department of Mathematical Sciences**

## **Division of Natural and Mathematical Sciences**

### **Dr. Thomas Ferko**

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## **Department of Mathematical Sciences**

### **Dr. Robert Willett**

*Chair*

### **Kimberlee Bartholomew**

*Department Secretary*

Phone 951.552.8662

FAX 951.343.4584

kbartholomew@calbaptist.edu

With programs in Actuarial Science, Foundational Mathematics, Mathematics, Sports Analytics, and Statistics and Data Analytics, the Department of Mathematical Sciences prepares students to pursue some of the top careers of today. Our programs provide a strong academic aptitude that is founded on faith. Collectively, our programs do this in at least two different ways:

1. By glorifying God through the study of the beauty of the mathematical sciences.
2. And by cultivating Christ-like compassion that serves and loves others via problem solving that is relevant to an ever-changing global landscape.

The Actuarial Science degree program is designed for students who wish to pursue a career as an actuary or in other areas of industry dealing with risk management. With margins thinner, actuarial accuracy is more necessary than ever to the global economy. This program is designed to prepare students to take the first two actuarial exams. Also, the Society of Actuaries (SOA) has approved CBU for Validation by Educational Experience (VEE) in areas of Mathematical Statistics, Economics, and Accounting and Finance.

We offer a Bachelor of Arts in Statistics and Data Analytics as well as a Bachelor of Science in Sports Analytics. These majors prepare students to work in one of the hottest sectors with the latest technology collecting, displaying, analyzing and mining data. Students will work side-by-side with full-time professors with real world experience. Using state-of-the-art computers and software, students will analyze local and global life-changing issues and apply their results to save lives and help people.

Our Mathematics major prepares students for careers in teaching at the secondary level, research, industry, business and graduate study. With a major in math, students will learn skills that will enable them to serve God and our society. Our Mathematics students want to develop their mathematical abilities with depth and excellence, and we are here to help them do just that. We are concerned with more than just providing the required coursework to be a skilled mathematician; we also care about our students and want to help them prepare for the career that is right for them.

Kappa Mu Epsilon is a specialized honor society in mathematics founded to promote the interest of mathematics among undergraduate students and recognition of outstanding achievement in the study of mathematics at the undergraduate level. Membership is open to students who have completed at least three college mathematics courses (including at least one semester of calculus) with an overall grade point average of 3.00 or better. Members must be at least a second-semester sophomore and rank in the top 35% of their class. For more information, contact Dr. Jim Buchholz, Faculty Advisor.

## **Major**

### **Actuarial Science, BS**

The Actuarial Science degree program is designed for students who wish to pursue a career as an actuary or in other areas of industry dealing with risk management. The program is designed to prepare students to take the first two actuarial exams (Probability and Financial Mathematics) and has been approved by the Society of Actuaries (SOA) for Validation by Educational Experience (VEE) in all three areas of Mathematical Statistics, Economics, and Accounting and Finance.

### **Traditional Major Program Requirements (67 units)**

#### **Lower Division Requirements**

- ACC 250 - Principles of Accounting I
- ACC 251 - Principles of Accounting II
- BUS 217 - Microeconomics
- BUS 218 - Macroeconomics
- CIS 268 - Computer Programming Languages
- MAT 245 - Analytical Geometry and Calculus I
- MAT 255 - Analytical Geometry and Calculus II
- STA 101 - Statistical Foundations
- STA 144 - Introduction to Statistics
- STA 205 - Applied Linear Regression
- STA 210 - Statistical Computing I
- STA 211 - Statistical Computing II

#### **Upper Division Requirements**

- BUS 303 - Business Finance

- MAT 303 - Linear Algebra with Applications to Differential Equations
- MAT 313 - Mathematical Proof and Structures
- MAT 343 - Multivariable Calculus
- MAT 353 - Probability and Statistics
- STA 310 - Mathematical Statistics I
- STA 311 - Mathematical Statistics II
- STA 320 - Financial Mathematics I
- STA 321 - Financial Mathematics II
- Complete three (3) additional upper division units in Mathematics

## Foundational Mathematics, BS

The Foundational Mathematics major is designed for students who plan to teach mathematics in a single subject classroom, up through but not including calculus or Advanced Placement mathematics courses at the secondary level.

## Traditional Major Program Requirements (58-59 units)

### Lower Division Requirements

- MAT 101 - Orientation to the Discipline
- MAT 125 - Mathematical Concepts and Applications I
- MAT 127 - Mathematical Concepts and Applications II
- MAT 135 - Pre-Calculus
- MAT 245 - Analytical Geometry and Calculus I
- MAT 250 - Modeling and Applications of Calculus
- MAT 255 - Analytical Geometry and Calculus II

### Upper Division Requirements

- EDU 341 - The Exceptional Child
- EDU 409 - Educational Psychology
- EDU 411 - Theories and Methods of Teaching Diverse Students
- ETC 407 - Technology and Learning
- MAT 313 - Mathematical Proof and Structures
- MAT 353 - Probability and Statistics
- MAT 363 - History of Mathematics and Theory of Numbers
- MAT 403 - Linear Algebra
- MAT 463 - Fundamental Concepts of Geometry
- MAT 499 - Capstone (4 units)

### Elective Requirements

Complete a set of courses from the following:

- MAT 343 - Multivariable Calculus **AND**
  - MAT 443 - Introduction to Real Analysis
- OR**

- PHY 214 - Physics I **AND**
- PHY 214L - Physics I Lab **AND**
- PHY 224 - Physics II **AND**
- PHY 224L - Physics II Lab

## Recommended Courses

- PHY 214D - Physics I Discussion
- PHY 224D - Physics II Discussion

## Subject Matter Preparation Program in Mathematics

The Single Subject Matter Preparation (SSMP) Program in Mathematics consists of approved mathematics courses selected to provide undergraduate students the academic background necessary to qualify them to teach mathematics in grades seven through twelve. To obtain a Single Subject Credential in Mathematics the student must:

1. Obtain an undergraduate degree.
2. Demonstrate subject competence in mathematics in one of two ways: Earn a passing score on a mathematics examination that has been adopted by the Commission on Teacher Credentialing (CTC) or complete a commission approved SSMP program. The SSMP Program from CBU is an approved CTC program.
3. Complete a teaching credential program.

Students interested in the Subject Matter Preparation Program should contact their Faculty Advisor in the Mathematics Department. Students seeking a teaching credential should contact the Teacher Education Credential Program within the School of Education. (Also see the Single Subject Credential section for the Professional Methods Program for Single Subject Credential Students.)

## Mathematics, BS

The Mathematics major is designed for students who wish to become competitive mathematicians that seek to discover uncharted mathematical territory through research, find a fulfilling career in a job-market in need of mathematical and analytical skills, teach mathematics and impact the lives of students at the secondary level, and solve real-world problems.

## Traditional Major Program Requirements (54-58 units)

### Lower Division Requirements

- CIS 268 - Computer Programming Languages
- MAT 101 - Orientation to the Discipline
- MAT 245 - Analytical Geometry and Calculus I
- MAT 250 - Modeling and Applications of Calculus
- MAT 255 - Analytical Geometry and Calculus II
- PHY 214 - Physics I
- PHY 214L - Physics I Lab
- PHY 224 - Physics II
- PHY 224L - Physics II Lab

### Upper Division Requirements

- MAT 310 - Differential Equations
- MAT 313 - Mathematical Proof and Structures
- MAT 343 - Multivariable Calculus
- MAT 403 - Linear Algebra
- MAT 443 - Introduction to Real Analysis
- MAT 473 - Abstract Algebra I
- MAT 480 - Senior Seminar

## Concentration Courses (12-16 units)

Students must complete all requirements in one of the following concentrations: Advanced Studies in Mathematics; Applied Mathematics; General Studies in Mathematics; Secondary Mathematics Education

### Advanced Studies in Mathematics (12 units)

- MAT 333 - Complex Variables
- MAT 423 - Introduction to Topology
- MAT 453 - Numerical Analysis
- MAT 483 - Abstract Algebra II

### Applied Mathematics (12-14 units)

- MAT 353 - Probability and Statistics
- MAT 453 - Numerical Analysis

### Applied Mathematics Elective Requirements

Complete at least six (6) additional units from the following:

- MAT 333 - Complex Variables
  - MAT 400 - Special Topics in Mathematics
  - MAT 425 - Applications of Topology
  - MAT 490 - Research in Mathematics (3 units)\*
  - PHY 310 - Waves and Optics with Lab
  - PHY 320 - Modern Physics
  - STA 310 - Mathematical Statistics I
  - STA 311 - Mathematical Statistics II
  - STA 320 - Financial Mathematics I
  - STA 321 - Financial Mathematics II
- \* If MAT 490 is selected, it must be taken for three (3) units, and may only be counted toward the concentration one time.

### General Studies in Mathematics (12 units)

Complete twelve (12) additional upper division units in Mathematics (excluding MAT 303 and 342).

NOTE: A maximum of six (6) units may be completed through enrollment in MAT 400.

## Secondary Mathematics Education (16 units) \*\*

\*\* See Subject Matter Preparation Program in Mathematics (below) for more information.

- MAT 333 - Complex Variables
- MAT 353 - Probability and Statistics
- MAT 363 - History of Mathematics and Theory of Numbers
- MAT 463 - Fundamental Concepts of Geometry
- MAT 499 - Capstone

## Recommended Courses

- PHY 214D - Physics I Discussion
- PHY 224D - Physics II Discussion

## Subject Matter Preparation Program in Mathematics

The Single Subject Matter Preparation (SSMP) Program in Mathematics consists of approved mathematics courses selected to provide undergraduate students the academic background necessary to qualify them to teach mathematics in grades seven through twelve. To obtain a Single Subject Credential in Mathematics the student must:

1. Obtain an undergraduate degree.
2. Demonstrate subject competence in mathematics in one of two ways: Earn a passing score on a mathematics examination that has been adopted by the Commission on Teacher Credentialing (CTC) or complete a commission approved SSMP program. The SSMP Program from CBU is an approved CTC program.
3. Complete a teaching credential program.

Students interested in the Subject Matter Preparation Program should contact their Faculty Advisor in the Mathematics Department. Students seeking a teaching credential should contact the Teacher Education Credential Program within the School of Education. (Also see the Education section for the Professional Methods Program for Preliminary Single Subject Credential students.)

## Sports Analytics, BS

Sports analysts watch and dissect sports for a living! They gather data and statistics on players and strategies and use them to help teams perform better. A combination of statistics and sports, sports analytics is a fun career option for those that want to find the hidden secrets in sports of any kind. In this interdisciplinary program, students develop innovative, analytical skills, and mathematical talent, as well as computer science proficiency. The ultimate goal of the sports analyst is to find innovation through deep knowledge of the sport as well as its business context, through the ability to see patterns that others can't see! This field is rapidly growing and applicable to any sport.

## Traditional Major Program Requirements (41-51 units)

### Lower Division Requirements

- CIS 268 - Computer Programming Languages **OR**
- EGR 121 - Introduction to Computer Programming in C++
- STA 101 - Statistical Foundations
- STA 144 - Introduction to Statistics



- STA 205 - Applied Linear Regression
- STA 210 - Statistical Computing I

## Upper Division Requirements

- STA 303 - Research and Experimental Design
- STA 360 - Data Visualization
- STA 362 - Advanced Statistical Computing
- STA 364 - Applied Statistical Methodology
- STA 460 - Sports Analytics Seminar
- STA 491 - Sports Analytics Internship (2 units)
- STA 499 - Capstone (1 unit)

## Concentration Courses (12-22 units)

Students must complete all requirements in one of the following concentrations: Quantitative Sport Business; Rehabilitative Sports Analytics; Sports Performance Analytics

### Quantitative Sport Business (22 units)

- BUS 217 - Microeconomics
- BUS 218 - Macroeconomics
- BUS 463 - Business and Organizational Management
- KIN 305 - Applied Sport Management
- MAT 245 - Analytical Geometry and Calculus I
- MAT 353 - Probability and Statistics
- STA 320 - Financial Mathematics I

### Rehabilitative Sports Analytics (19 units)

- BIO 153 - Anatomy and Physiology I
- BIO 153L - Anatomy and Physiology I Lab
- KIN 264 - Movement Anatomy
- KIN 353 - Care and Prevention of Athletic Injuries
- KIN 383 - Exercise Physiology **OR**
- KIN 490 - Principles of Conditioning Athletes
- KIN 454 - Behavioral Aspects of Sport
- STA 462 - Measurement and Evaluation

### Sports Performance Analytics (12 units)

- KIN 305 - Applied Sport Management
- KIN 315 - Sport Governance
- KIN 454 - Behavioral Aspects of Sport

- STA 305 - Sampling and Survey Methodology **OR**
- STA 462 - Measurement and Evaluation

## **Statistics and Data Analytics, BA**

An Interdisciplinary major providing math, statistics, and discipline-oriented skills aimed at professional practitioners as entry-level data analysts, and data mining applications.

### **Traditional Major Program Requirements (51-53 units)**

#### **Lower Division Requirements**

- MAT 245 - Analytical Geometry and Calculus I
- STA 101 - Statistical Foundations
- STA 144 - Introduction to Statistics
- STA 205 - Applied Linear Regression
- STA 210 - Statistical Computing I
- STA 211 - Statistical Computing II

#### **Upper Division Requirements**

- STA 303 - Research and Experimental Design
- STA 305 - Sampling and Survey Methodology
- STA 310 - Mathematical Statistics I
- STA 311 - Mathematical Statistics II
- STA 490 - Research in Statistics (1 unit)
- STA 499 - Capstone (3 units)

### **Concentration Courses (18-20 units)**

Students must complete all of the requirements in one of the following concentrations: Mathematical Data Analytics; Quantitative Business Methods

#### **Mathematical Data Analytics (20 units)**

- MAT 255 - Analytical Geometry and Calculus II
- MAT 303 - Linear Algebra with Applications to Differential Equations
- MAT 343 - Multivariable Calculus
- STA 360 - Data Visualization
- STA 362 - Advanced Statistical Computing
- STA 364 - Applied Statistical Methodology

#### **Quantitative Business Methods (18 units)**

- BUS 380 - Business Analytics Visualization and Strategy
- BUS 381 - Spatial Analytics in Business

- BUS 480 - Business Models and Analytics
- BUS 481 - Design Thinking in Business Analysis
- STA 320 - Financial Mathematics I
- STA 321 - Financial Mathematics II

## **Minor**

### **Actuarial Science Minor**

The Actuarial Science Minor is designed for students who have an interest in learning about probability, statistics, and actuarial science and who may wish to pursue a career in areas of industry dealing with financial mathematics or risk management.

#### **Traditional Minor Program Requirements (27 units)**

##### **Lower Division Requirements**

- MAT 245 - Analytical Geometry and Calculus I
- MAT 255 - Analytical Geometry and Calculus II
- STA 144 - Introduction to Statistics
- STA 210 - Statistical Computing I

##### **Upper Division Requirements**

- MAT 343 - Multivariable Calculus
- MAT 353 - Probability and Statistics
- STA 310 - Mathematical Statistics I
- STA 320 - Financial Mathematics I

### **Applied Statistics Minor**

#### **Traditional Minor Program Requirements (25 units)**

##### **Lower Division Requirements**

- MAT 245 - Analytical Geometry and Calculus I
- STA 144 - Introduction to Statistics
- STA 205 - Applied Linear Regression
- STA 210 - Statistical Computing I

##### **Upper Division Requirements**

- STA 310 - Mathematical Statistics I
- STA 311 - Mathematical Statistics II

## Upper Division Elective Requirements

Complete six (6) units from the following:

- STA 303 - Research and Experimental Design
- STA 305 - Sampling and Survey Methodology
- STA 360 - Data Visualization
- STA 362 - Advanced Statistical Computing
- STA 364 - Applied Statistical Methodology

## Mathematics Minor

### Traditional Minor Program Requirements (26 units)

#### Lower Division Requirements

- MAT 245 - Analytical Geometry and Calculus I
- MAT 250 - Modeling and Applications of Calculus
- MAT 255 - Analytical Geometry and Calculus II

#### Upper Division Requirements

- MAT 313 - Mathematical Proof and Structures
- MAT 343 - Multivariable Calculus
- Nine (9) additional upper division units in Mathematics

## Physics Minor

### Traditional Minor Program Requirements (20 units)

#### Lower Division Requirements

- PHY 201 - Physics for Engineers I with Lab **AND**
- PHY 203 - Physics for Engineers II with Lab
- **OR**
- PHY 214 - Physics I **AND**
- PHY 214L - Physics I Lab **AND**
- PHY 224 - Physics II **AND**
- PHY 224L - Physics II Lab

#### Upper Division Requirements

- PHY 310 - Waves and Optics with Lab
- PHY 320 - Modern Physics

## Upper Division Elective Requirement

- Complete four (4) additional upper division units in Physics

## Certificate

### Actuarial Science Certificate

The Actuarial Science certificate is issued by the Office of the University Registrar upon student request and completion of the below courses. The certificate includes courses that have obtained Validation by Educational Experience (VEE) approval by the Society of Actuaries. <https://www.soa.org/education/exam-req/edu-vee/>

### Traditional Certificate Program Requirements

#### General Prerequisite Requirements

- ACC 250 - Principles of Accounting I
- CIS 268 - Computer Programming Languages *OR*
- CIS 270 - Business IT Application
- MAT 245 - Analytical Geometry and Calculus I
- MAT 353 - Probability and Statistics

#### Certificate Requirements (15 units)

- ACC 251 - Principles of Accounting II
- BUS 217 - Microeconomics
- BUS 218 - Macroeconomics
- BUS 303 - Business Finance
- STA 310 - Mathematical Statistics I

# College of Behavioral and Social Sciences

**Dr. Jacqueline Gustafson**

*Dean*

**Dr. Joshua Knabb**

*Associate Dean, Division of Psychology*

**Dr. Charles Lee-Johnson**

*Associate Dean, Division of Social Work*

**Dr. Doug Wallace**

*Associate Dean, Division of Family and Culture*

Phone 951.343.4487

FAX 951.343.4569

## **Faculty Information**

The College of Behavioral and Social Sciences provides undergraduate general education courses and degrees in the subject areas of Anthropology, Behavioral Science, Christian Behavioral Science, Human Services (online), Psychology, Sociology, and Social Work.

A minor is also available in: Anthropology, Behavioral Science, Christian Behavioral Science, Psychology, and Sociology.

The faculty of the College of Behavioral and Social Sciences believes that academic training best serves the student when it is generalized across the various disciplines of the University. Students are therefore encouraged to broaden their educational experience by examining interdisciplinary aspects of their major and intentionally integrating their world view and religious perspective. Understanding human behavior from the unique perspective of integrating the relationship of material, cognitive, and spiritual aspects of reality are a significant part of the instruction and curriculum of the division.

Behavioral and social science graduates can find entry-level employment in business, education and government positions. Most degrees prepare the student for graduate work and professional life in the behavioral and social science fields.

# Division of Family and Culture

The Division of Family and Culture (DFC) is comprised of undergraduate programs in Anthropology, Behavioral Science, Christian Behavioral Science, Human Services (online), and Sociology. A minor is also available in: Anthropology, Behavioral Science, Christian Behavioral Science, Psychology, and Sociology.

Graduate Programs are available. Please visit our website for more information.

## Major

### Anthropology, BA

The Anthropology major is a traditional approach to anthropology which includes an overview of the four-field perspective which includes cultural anthropology, linguistics, physical anthropology, and archeology. The major provides the student with a general understanding of the discipline of anthropology and focuses on the concept of culture as an overriding concept in understanding human nature and variability.

### Traditional Major Program Requirements (50-53 units)

#### Lower Division Requirement

- ANT 225 - Cultural Anthropology

#### Methodology Requirements

- BEH 250 - Reading and Writing in the Behavioral Sciences
- BEH 290 - Introduction to Research Methods
- BEH 333 - Epistemology and Worldview
- BEH 383 - Statistics and Research Methodology I
- BEH 385 - Statistics and Research Methodology II

#### Upper Division Requirements

- ANT 325 - Physical Anthropology and Archaeology
- ANT 340 - Theory in Anthropology
- ANT 350 - Language and Culture
- ANT 430 - Culture and Personality
- ANT 460 - Religion and Culture
- BEH 480 - Capstone **OR**
- BEH 440 - Field Experience

### Concentration Courses (12-15 units)

Students must complete all requirements in one of the following concentrations: Cultural Anthropology; Psychological Anthropology

### Cultural Anthropology (12 units)

- ANT 360 - Globalization and Culture
- ANT 400 - Special Topics in Anthropology
- ANT 410 - Economic and Political Anthropology
- ANT 450 - Family and Gender Studies

### Psychological Anthropology (15 units)

- PSY 213 - General Psychology
- PSY 320 - Life-Span Development
- PSY 322 - Theories of Personality
- PSY 346 - Abnormal Psychology
- PSY 473 - Psychophysiology

### Optional Additional Concentrations\* (12-15 units)

Students can earn an optional concentration in one of the following areas: Forensic Psychology; Industrial and Organizational Psychology; Life Span Development; Medical Anthropology; Social Work; Sports Psychology

\*Each optional concentration requires the completion of a minimum twelve (12) distinct units beyond the major.

#### Forensic Psychology

- PSY 213 - General Psychology
- PSY 315 - Developmental Psychology: Adolescence and Adulthood
- PSY 350 - Introduction to Forensic Psychology
- PSY 404 - Psychopathic Mind
- PSY 443 - Social Psychology

#### Industrial and Organizational Psychology

- BUS 435 - Leadership in Organizations
- BUS 463 - Business and Organizational Management
- PSY 213 - General Psychology
- PSY 388 - Industrial and Organizational Psychology
- PSY 443 - Social Psychology

#### Life Span Development

- PSY 305 - Developmental Psychology: Child
- PSY 315 - Developmental Psychology: Adolescence and Adulthood
- PSY 443 - Social Psychology
- PSY 453 - Psychology of Learning

#### Medical Anthropology

- ANT 315 - Health and Holistic Healing



- ANT 320 - Ethnomedicine
- ANT 430 - Culture and Personality
- PSY 213 - General Psychology
- PSY 473 - Psychophysiology **OR**
- PSY 305 - Developmental Psychology: Child

#### Social Work

- SWK 300 - Introduction to Social Work
- SWK 335 - Substance Use Disorders, Treatment, and Recovery
- SWK 340 - Mental Health First Aid
- SWK 345 - Trauma in Children

#### Sports Psychology

- KIN 454 - Behavioral Aspects of Sport
- PSY 213 - General Psychology
- PSY 360 - Sports Psychology
- PSY 443 - Social Psychology
- PSY 458 - Motivation and Emotion

### **Behavioral Science, BA**

The Behavioral Science major is a broad program drawn from the modern behavioral sciences of anthropology, psychology, and sociology and includes the full methodological skills common to those behavioral sciences. The program also includes a Christian perspective of theology as a behavioral science. The major prepares graduates for employment in social service careers, and for graduate study in Psychology, Sociology, Social Work, and Anthropology. Students are encouraged to pursue a complimentary minor.

### **Traditional Major Program Requirements (56-68 units)**

#### Lower Division Requirements

- SOC 213 - Introduction to Sociology **OR**
- ANT 225 - Cultural Anthropology
- PSY 213 - General Psychology

#### Methodology Requirements

- BEH 250 - Reading and Writing in the Behavioral Sciences
- BEH 290 - Introduction to Research Methods
- BEH 333 - Epistemology and Worldview
- BEH 383 - Statistics and Research Methodology I
- BEH 385 - Statistics and Research Methodology II

#### Upper Division Requirements

- ANT 325 - Physical Anthropology and Archaeology
- ANT 340 - Theory in Anthropology **OR**
- SOC 381 - Social Theory
- ANT 360 - Globalization and Culture
- ANT 430 - Culture and Personality
- CBS 350 - Lifespan Development and Discipleship
- PSY 320 - Life-Span Development
- PSY 322 - Theories of Personality
- PSY 346 - Abnormal Psychology
- SOC 335 - Social Problems
- SOC 345 - Race and Ethnicity
- BEH 480 - Capstone *OR*
- BEH 440 - Field Experience

### Optional Concentrations\* (12 units)

Students can earn an optional concentration in the following areas: Forensic Psychology; Industrial and Organizational Psychology; Life Span Development; Medical Anthropology; Social Work; Sports Psychology

\*Each optional concentration requires the completion of a minimum of twelve (12) distinct units beyond the major.

#### Forensic Psychology

- PSY 213 - General Psychology
- PSY 315 - Developmental Psychology: Adolescence and Adulthood
- PSY 350 - Introduction to Forensic Psychology
- PSY 404 - Psychopathic Mind
- PSY 443 - Social Psychology

#### Industrial and Organizational Psychology

- BUS 435 - Leadership in Organizations
- BUS 463 - Business and Organizational Management
- PSY 213 - General Psychology
- PSY 388 - Industrial and Organizational Psychology
- PSY 443 - Social Psychology

#### Life Span Development

- PSY 305 - Developmental Psychology: Child
- PSY 315 - Developmental Psychology: Adolescence and Adulthood
- PSY 443 - Social Psychology
- PSY 453 - Psychology of Learning

#### Medical Anthropology

- ANT 315 - Health and Holistic Healing
- ANT 320 - Ethnomedicine
- PSY 213 - General Psychology
- PSY 338 - Sensation and Perception
- PSY 473 - Psychophysiology

## Social Work

- SWK 300 - Introduction to Social Work
- SWK 335 - Substance Use Disorders, Treatment, and Recovery
- SWK 340 - Mental Health First Aid
- SWK 345 - Trauma in Children

## Sports Psychology

- KIN 454 - Behavioral Aspects of Sport
- PSY 213 - General Psychology
- PSY 360 - Sports Psychology
- PSY 443 - Social Psychology
- PSY 458 - Motivation and Emotion

## Christian Behavioral Science, BA

The Christian Behavioral Science major is a distinct and decidedly Christian perspective of human behavior. It addresses the relationship of biblical truth to the knowledge drawn from the Behavioral Sciences. This approach integrates psychology, anthropology, sociology and political science as academic disciplines with theology as a behavioral science.

## Traditional Major Program Requirements (51-63 units)

### Lower Division Requirements

Should be completed prior to enrollment in upper division Christian Behavioral Science

- ANT 225 - Cultural Anthropology *OR*
- SOC 213 - Introduction to Sociology
- CST 110 - Old Testament Survey
- CST 130 - New Testament Survey
- PSY 213 - General Psychology

### Upper Division Introduction Requirements

- ANT 460 - Religion and Culture
- BEH 333 - Epistemology and Worldview
- CST 350 - Biblical Interpretation
- CST 370 - The Christian Faith
- PSY 322 - Theories of Personality **OR**

- ANT 430 - Culture and Personality

## Upper Division Christian Behavioral Science Requirements

- CBS 303 - Marriage and Family in the Christian Community
- CBS 350 - Lifespan Development and Discipleship
- CBS 400 - Special Topics in Christian Behavioral Science
- CBS 403 - Congregation and Community
- CBS 415 - Biblical Wisdom and Human Behavior
- CBS 420 - Behavioral Implications of Theology
- CBS 423 - Models of Christian Counseling

## Upper Division Elective Requirement

Complete three (3) units from the following:

- ANT 360 - Globalization and Culture
- CST 360 - Church History
- CST 425 - Christian Social Ethics

## Optional Additional Concentrations\* (12-15 units)

Students can earn an optional concentration in one of the following areas: Forensic Psychology; Industrial and Organizational Psychology; Life Span Development; Medical Anthropology; Social Work; Sports Psychology

\*Each optional concentration requires the completion of a minimum twelve (12) distinct units beyond the major.

### Forensic Psychology

- PSY 213 - General Psychology
- PSY 315 - Developmental Psychology: Adolescence and Adulthood
- PSY 350 - Introduction to Forensic Psychology
- PSY 404 - Psychopathic Mind
- PSY 443 - Social Psychology

### Industrial and Organizational Psychology

- BUS 435 - Leadership in Organizations
- BUS 463 - Business and Organizational Management
- PSY 213 - General Psychology
- PSY 388 - Industrial and Organizational Psychology
- PSY 443 - Social Psychology

### Life Span Development

- PSY 305 - Developmental Psychology: Child
- PSY 315 - Developmental Psychology: Adolescence and Adulthood

- PSY 443 - Social Psychology
- PSY 453 - Psychology of Learning

### Medical Anthropology

- ANT 315 - Health and Holistic Healing
- ANT 320 - Ethnomedicine
- PSY 213 - General Psychology
- PSY 338 - Sensation and Perception
- PSY 473 - Psychophysiology

### Social Work

- SWK 300 - Introduction to Social Work
- SWK 335 - Substance Use Disorders, Treatment, and Recovery
- SWK 340 - Mental Health First Aid
- SWK 345 - Trauma in Children

### Sports Psychology

- KIN 454 - Behavioral Aspects of Sport
- PSY 213 - General Psychology
- PSY 360 - Sports Psychology
- PSY 443 - Social Psychology
- PSY 458 - Motivation and Emotion

## Human Services, BA (Online)

The Bachelor of Arts in Human Services degree program prepares graduates for employment opportunities in public, private and non-profit arenas. Graduates will leave the program with comprehensive analytical and practical skill sets. The Bachelor of Arts in Human Services will qualify graduates for job opportunities such as community outreach worker, counselors, case managers, and other community and social service specialists. Human services organizations looking for qualified, ethical, and skilled individuals include employment, food and nutrition, housing and shelter, legal and victims' assistance, public safety and disaster relief, foster and senior care, and youth development. The Bachelor of Arts in Human Services degree program also provides students with logical and foundational support for continued education should students wish to consider a Master of Arts in Human Services, Counseling, Public Administration or Business.

## Online Major Program Requirements (48 units)

### Prerequisites to Program

- ENG 113 - Composition
- ENG 123 - Intermediate Composition
- SOC 213 - Introduction to Sociology

### Lower Division Requirements

- BEH 250 - Reading and Writing in the Behavioral Sciences
- BEH 290 - Introduction to Research Methods
- HMS 100 - Introduction to Human Services
- HMS 213 - Theories of Human Services

## Upper Division Requirements

- HMS 310 - Diversity and Social Justice
- HMS 320 - Ethics and Legal Implications of Human Services
- HMS 330 - Context of Human Social Behavior
- HMS 340 - Case Management and Assessment in Human Services
- HMS 415 - Family Violence and Mandated Reporting
- HMS 420 - Crisis Intervention
- PSY 346 - Abnormal Psychology
- SOC 323 - Marriage and the Family
- SOC 335 - Social Problems
- SOC 352 - Sociology of Health and Illness

## Additional Program Courses

- CST 100 - Overview of the Bible
- CST 300-400 Upper Division Christian Studies (3 units)

## Sociology, BA

The Sociology major prepares graduates for employment in social service careers, and for graduate study in Sociology and Social Work. The program is based on the traditional emphasis of institutions, collective behavior and the socialization process. The program provides the core foundation for understanding the social structure and its patterns, stressing the influence of systems, and highlighting issues and policy necessary for completing a graduate program in social work. Students are encouraged to pursue a complimentary minor. Students may complete a double major in Psychology and Sociology by substituting overlapping courses. Sociology majors may also complete a Psychology or Christian Behavioral Science minor.

## Traditional Major Program Requirements (47-62 units)

### Lower Division Requirement

- SOC 213 - Introduction to Sociology

### Methodology Requirements

- BEH 250 - Reading and Writing in the Behavioral Sciences
- BEH 290 - Introduction to Research Methods
- BEH 333 - Epistemology and Worldview
- BEH 383 - Statistics and Research Methodology I
- BEH 385 - Statistics and Research Methodology II

## Upper Division Requirements

- SOC 335 - Social Problems
- SOC 337 - Deviant Behavior
- SOC 345 - Race and Ethnicity
- SOC 347 - Sociology of Gender
- SOC 381 - Social Theory

## Concentration Courses (15 Units)

Students must complete all requirements in the Cultural Sociology concentration

### Cultural Sociology (15 Units)

- SOC 323 - Marriage and the Family
- SOC 338 - Group Dynamics and Social Movements
- SOC 348 - Sociology of Aging
- SOC 355 - Social Stratification
- BEH 480 - Capstone *OR*
- BEH 440 - Field Experience

## Optional Additional Concentrations\* (12-15 units)

Students can earn an optional concentration in one of the following areas: Forensic Psychology; Industrial and Organizational Psychology; Life Span Development; Medical Anthropology; Social Work; Sports Psychology

\*Each optional concentration requires the completion of a minimum twelve (12) distinct upper division units beyond the major.

### Forensic Psychology

- PSY 213 - General Psychology
- PSY 315 - Developmental Psychology: Adolescence and Adulthood
- PSY 350 - Introduction to Forensic Psychology
- PSY 404 - Psychopathic Mind
- PSY 443 - Social Psychology

### Industrial and Organizational Psychology

- BUS 435 - Leadership in Organizations
- BUS 463 - Business and Organizational Management
- PSY 213 - General Psychology
- PSY 388 - Industrial and Organizational Psychology
- PSY 443 - Social Psychology

### Life Span Development

- PSY 213 - General Psychology
- PSY 305 - Developmental Psychology: Child
- PSY 315 - Developmental Psychology: Adolescence and Adulthood
- PSY 443 - Social Psychology
- PSY 453 - Psychology of Learning

### Medical Anthropology

- ANT 225 - Cultural Anthropology
- ANT 315 - Health and Holistic Healing
- ANT 320 - Ethnomedicine
- ANT 430 - Culture and Personality
- PSY 473 - Psychophysiology

### Social Work

- SWK 300 - Introduction to Social Work
- SWK 335 - Substance Use Disorders, Treatment, and Recovery
- SWK 340 - Mental Health First Aid
- SWK 345 - Trauma in Children

### Sports Psychology

- KIN 454 - Behavioral Aspects of Sport
- PSY 213 - General Psychology
- PSY 360 - Sports Psychology
- PSY 443 - Social Psychology
- PSY 458 - Motivation and Emotion

## **Sociology, BA (Online)**

The Sociology major prepares graduates for employment in social service careers, and for graduate study in Sociology and Social Work. The program is based on the traditional emphasis of institutions, collective behavior and the socialization process. The program provides the core foundation for understanding the social structure and its patterns, stressing the influence of systems, and highlighting issues and policy necessary for completing a graduate program in social work. Students are encouraged to pursue a complimentary minor. Students may complete a double major in Psychology and Sociology by substituting overlapping courses. Sociology majors may also complete a Psychology or Christian Behavioral Science minor.

## **Online Major Program Requirements (50 units)**

### Prerequisites to Program

- ENG 113 - Composition
- ENG 123 - Intermediate Composition
- MAT 115 - Intermediate Algebra
- SOC 213 - Introduction to Sociology



## Methodology Requirements (17 Units)

- BEH 250 - Reading and Writing in the Behavioral Sciences
- BEH 290 - Introduction to Research Methods
- BEH 333 - Epistemology and Worldview
- BEH 383 - Statistics and Research Methodology I
- BEH 385 - Statistics and Research Methodology II

## Core Upper Division Requirements (15 Units)

- SOC 335 - Social Problems
- SOC 337 - Deviant Behavior
- SOC 345 - Race and Ethnicity
- SOC 347 - Sociology of Gender
- SOC 381 - Social Theory

## Concentration Courses

### Collective Behavior

- SOC 323 - Marriage and the Family
- SOC 338 - Group Dynamics and Social Movements
- SOC 301 - Self and Society
- SOC 352 - Sociology of Health and Illness

## Additional Program Courses (6 Units)

- CST 100 - Overview of the Bible
- CST 300-400 Upper Division Christian Studies (3 units)

## Minor

### Anthropology Minor

## Traditional Minor Program Requirements (21 units)

### Lower Division Requirement

- ANT 225 - Cultural Anthropology

### Upper Division Requirements

- ANT 325 - Physical Anthropology and Archaeology
- ANT 340 - Theory in Anthropology
- BEH 333 - Epistemology and Worldview

## Upper Division Elective Requirements

- Nine (9) additional upper division units in Anthropology

## **Behavioral Science Minor**

### Traditional Minor Program Requirements (21 units)

#### General Prerequisites

- ANT 225 - Cultural Anthropology *OR*
- SOC 213 - Introduction to Sociology
- PSY 213 - General Psychology

#### Upper Division Requirements

- ANT 430 - Culture and Personality
- PSY 322 - Theories of Personality
- SOC 381 - Social Theory
- Twelve (12) units of Upper Division Anthropology, Christian Behavioral Science, Psychology or Sociology

## **Christian Behavioral Science Minor**

### Traditional Minor Program Requirements (21 units)

#### General Prerequisites

- SOC 213 - Introduction to Sociology **OR**
- ANT 225 - Cultural Anthropology
- CST 110 - Old Testament Survey
- CST 130 - New Testament Survey
- PSY 213 - General Psychology

#### Upper Division Introduction Requirements

- BEH 333 - Epistemology and Worldview
- CST 370 - The Christian Faith
- PSY 322 - Theories of Personality

#### Upper Division Christian Behavioral Science Requirement

- CBS 350 - Lifespan Development and Discipleship

## Upper Division Elective Requirements

- Complete nine (9) additional units in Christian Behavioral Science

## Sociology Minor

### Traditional Minor Program Requirements (21 units)

#### Prerequisite

- SOC 213 - Introduction to Sociology

### Upper Division Requirements

\*Minor students may use elective units toward a Departmental Concentration.

- SOC 323 - Marriage and the Family
- SOC 335 - Social Problems
- SOC 381 - Social Theory
- Twelve (12) units of Upper Division Sociology\*

## Division of Psychology

The Division of Psychology draws upon psychological theory and research in basic and applied contexts, preparing graduates to better understand the relationship between the mind, brain, behavior, and environment and respond to real-world problems in order to improve the functioning of individuals, relationships, communities, and society.

Graduate Programs are available. Please visit our website for more information.

## Major

### Psychology, BA

The Psychology major prepares graduates for employment in public and private agencies and for graduate school in psychology and other related fields. The Psychology major explores the science of human behavior and mental processes. Graduates will understand the historical foundations of psychology and how theories are applied to modern practice. Students are encouraged to pair the Psychology major with an additional major or minor in a complimentary field.

### Traditional Major Program Requirements (47-62 units)

#### Lower Division Requirement

- PSY 213 - General Psychology

#### Methodology Requirements

- BEH 250 - Reading and Writing in the Behavioral Sciences
- BEH 290 - Introduction to Research Methods
- BEH 333 - Epistemology and Worldview
- BEH 383 - Statistics and Research Methodology I
- BEH 385 - Statistics and Research Methodology II

## Upper Division Requirements

- PSY 301 - History and Systems of Psychology
- PSY 320 - Life-Span Development
- PSY 322 - Theories of Personality
- PSY 325 - Tests and Measurements
- PSY 328 - Cognitive Psychology
- PSY 346 - Abnormal Psychology
- PSY 422 - Theories of Counseling
- PSY 473 - Psychophysiology
- BEH 480 - Capstone *OR*
- BEH 440 - Field Experience

## Optional Concentrations\* (12-15 units)

Students can earn an optional concentration in one of the following areas: Forensic Psychology; Industrial and Organizational Psychology; Life Span Development; Medical Anthropology; Social Work; Sports Psychology

\*Each optional concentration requires the completion of a minimum of twelve (12) distinct units beyond the major.

### Forensic Psychology

- PSY 315 - Developmental Psychology: Adolescence and Adulthood
- PSY 350 - Introduction to Forensic Psychology
- PSY 404 - Psychopathic Mind
- PSY 443 - Social Psychology

### Industrial and Organizational Psychology

- BUS 435 - Leadership in Organizations
- BUS 463 - Business and Organizational Management
- PSY 388 - Industrial and Organizational Psychology
- PSY 443 - Social Psychology

### Life Span Development

- PSY 305 - Developmental Psychology: Child
- PSY 315 - Developmental Psychology: Adolescence and Adulthood
- PSY 443 - Social Psychology
- PSY 453 - Psychology of Learning

## Medical Anthropology

- ANT 225 - Cultural Anthropology
- ANT 315 - Health and Holistic Healing
- ANT 320 - Ethnomedicine
- ANT 430 - Culture and Personality
- PSY 338 - Sensation and Perception

## Social Work

- SWK 300 - Introduction to Social Work
- SWK 335 - Substance Use Disorders, Treatment, and Recovery
- SWK 340 - Mental Health First Aid
- SWK 345 - Trauma in Children

## Sports Psychology

- KIN 454 - Behavioral Aspects of Sport
- PSY 360 - Sports Psychology
- PSY 443 - Social Psychology
- PSY 458 - Motivation and Emotion

## **Psychology, BA (Online)**

The Psychology major prepares graduates for employment in public and private agencies and for graduate school in psychology and other related fields. The Psychology major explores the science of human behavior and mental processes. Graduates will understand the historical foundations of psychology and how theories are applied to modern practice. Students are encouraged to pair the Psychology major with an additional major or minor in a complimentary field.

## Online Major Program Requirements (50 units)

### Prerequisites to Program

- ENG 113 - Composition
- ENG 123 - Intermediate Composition
- MAT 115 - Intermediate Algebra
- PSY 213 - General Psychology

### Methodology Requirements

- BEH 250 - Reading and Writing in the Behavioral Sciences
- BEH 290 - Introduction to Research Methods
- BEH 333 - Epistemology and Worldview
- BEH 383 - Statistics and Research Methodology I
- BEH 385 - Statistics and Research Methodology II
- BEH 480 - Capstone

## Upper Division Requirements

- PSY 301 - History and Systems of Psychology
- PSY 320 - Life-Span Development
- PSY 322 - Theories of Personality
- PSY 325 - Tests and Measurements
- PSY 328 - Cognitive Psychology
- PSY 346 - Abnormal Psychology
- PSY 422 - Theories of Counseling
- PSY 473 - Psychophysiology

## Additional Program Courses

- CST 100 - Overview of the Bible
- CST 300-400 Upper Division Christian Studies (3 units)

## Sport and Performance Psychology, BS

The Bachelor of Science in Sports and Performance Psychology prepares graduates for careers as professionals who can guide clients in gaining confidence through performance enhancement. The demand is high for educated and experienced mental health professionals who have the skills to help others overcome the cognitive problems that impede their performance. The Bachelor of Science in Sport and Performance Psychology degree program is centered on providing students with the psychological foundation needed to meet these demands providing a curriculum focused on core disciplines, including social focus, cognitive practices, theoretical knowledge, professionalism and ethics, among others.

## Major Program Requirements (43 units)

### Methodology Requirements

- BEH 250 - Reading and Writing in the Behavioral Sciences
- BEH 290 - Introduction to Research Methods
- STA 144 - Introduction to Statistics

### Lower Division Requirements

- BIO 153 - Anatomy and Physiology I
- BIO 153L - Anatomy and Physiology I Lab

### Upper Division Requirements

- KIN 383 - Exercise Physiology
- KIN 454 - Behavioral Aspects of Sport
- PSY 320 - Life-Span Development
- PSY 322 - Theories of Personality
- PSY 328 - Cognitive Psychology

- PSY 422 - Theories of Counseling
- SPP 410 - Psychology of Performance Recovery
- SPP 420 - Social Implications of Sport and Performance
- SPP 430 - Ethics and Leadership in Performance Psychology
- SPP 499 - Sport and Performance Psychology Capstone

## **Sport and Performance Psychology, BS (Online)**

The Bachelor of Science in Sports and Performance Psychology prepares graduates for careers as professionals who can guide clients in gaining confidence through performance enhancement. The demand is high for educated and experienced mental health professionals who have the skills to help others overcome the cognitive problems that impede their performance. The Bachelor of Science in Sport and Performance Psychology degree program is centered on providing students with the psychological foundation needed to meet these demands providing a curriculum focused on core disciplines, including social focus, cognitive practices, theoretical knowledge, professionalism and ethics, among others.

## **Online Major Program Requirements (49 units)**

### **Prerequisites**

- ENG 113 - Composition
- ENG 123 - Intermediate Composition
- MAT 115 - Intermediate Algebra
- PSY 213 - General Psychology

### **Methodology Requirements**

- BEH 250 - Reading and Writing in the Behavioral Sciences
- BEH 290 - Introduction to Research Methods
- STA 144 - Introduction to Statistics

### **Lower Division Requirements**

- BIO 153 - Anatomy and Physiology I
- BIO 153L - Anatomy and Physiology I Lab

### **Upper Division Requirements**

- KIN 383 - Exercise Physiology
- KIN 454 - Behavioral Aspects of Sport
- PSY 320 - Life-Span Development
- PSY 322 - Theories of Personality
- PSY 328 - Cognitive Psychology
- PSY 422 - Theories of Counseling
- SPP 410 - Psychology of Performance Recovery
- SPP 420 - Social Implications of Sport and Performance
- SPP 430 - Ethics and Leadership in Performance Psychology

- SPP 499 - Sport and Performance Psychology Capstone

### Additional Program Courses

- CST 100 - Overview of the Bible
- CST 300-400 Upper Division Christian Studies (3 units)

## Minor

### Psychology Minor

#### Traditional Minor Program Requirements (21 units)

##### General Prerequisite

- PSY 213 - General Psychology

##### Upper Division Requirements

\*Minor students may use elective units toward a Departmental Concentration.

- PSY 320 - Life-Span Development
- PSY 322 - Theories of Personality
- PSY 473 - Psychophysiology
- Twelve (12) units of Upper Division Psychology\*



## Division of Social Work

The Division of Social Work is comprised of the Bachelor of Social Work (BSW), Master of Social Work (MSW) and Doctor of Social Work (DSW) programs. The Bachelor of Social Work is completed as part of upper division coursework during Junior and Senior years, with an application process required to begin in the Fall semester (only Fall start dates at this time).

Graduate Programs are available. Please visit our website for more information.

## Major

### Social Work, BSW

The Mission of California Baptist University's Bachelor of Social Work (BSW) Program is to develop generalist social work practitioners, who are biblically informed, legal, and ethically rooted, data-informed decision makers who are committed to serving within local, global, and congregational communities. Through the engagement and interprofessional collaboration of individuals and systems, CBU's BSW graduates will advance the health and well-being of individuals, families, groups, and communities, with a firm commitment to biblical social justice.

The BSW program strives to develop graduates with the highest integrity and ethics that will distinguish them in the workplace and the world. The BSW program is committed to pursuing Christ-centered justice by equipping graduates to live their purpose and glorify God through community-based social action both locally and globally.

BSW Program Goals:

- Prepare biblically informed social work generalist practitioners.
- Prepare students to serve diverse and historically oppressed groups utilizing data-informed strategies and skills to engage in human rights and social justice advocacy.
- Prepare students to engage in interprofessional collaboration to increase effectiveness in micro, mezzo, and macro outcomes, in local, global, and congregational settings.
- Generate change-oriented research and scholarship to promote social and economic justice.
- Provide educational opportunities to assist undergraduate students in gaining the competencies necessary for generalist social work practice.

### Pre-Social Work Requirements (6 units)

A grade of B- or better is required for the Pre-Social Work courses.

- BEH 250 - Reading and Writing in the Behavioral Sciences
- SWK 300 - Introduction to Social Work

### Traditional Degree Requirements (62 units)

#### Foundational Requirements

- SWK 315 - Congregational Social Work
- SWK 335 - Substance Use Disorders, Treatment, and Recovery
- SWK 345 - Trauma in Children
- SWK 380 - Introduction to Medical Social Work

- IPE 410 - Interprofessional Education: Exposure
- IPE 420 - Interprofessional Education: Immersion
- IPE 430 - Interprofessional Education: Competence

## Foundational Elective Requirements

Complete nine (9) units from the following:

- ANT 320 - Ethnomedicine
- CBS 403 - Congregation and Community
- CJS 341 - Minorities and the Criminal Justice System
- HIS 311 - Minorities in America
- ICS 410 - Global and Urban Ministries
- SWK 361 - Global Social Work Policy
- SWK 371 - Spirituality and the Helping Professionals
- SWK 381 - Introduction to Child and Family Welfare
- SWK 400 - Special Topics in Social Work

## Research Requirements

- BEH 290 - Introduction to Research Methods
- BEH 383 - Statistics and Research Methodology I
- BEH 385 - Statistics and Research Methodology II

## Professional Requirements

- SWK 401 - Social Work Practice I
- SWK 405 - Social Work Practice II
- SWK 410 - Human Behavior and the Social Environment I
- SWK 415 - Human Behavior and the Social Environment II
- SWK 420 - Social Work Policy
- SWK 421 - Field Practicum I
- SWK 435 - Case Management
- SWK 451 - Field Practicum II
- SWK 462 - Marginalized Populations

# Minor

## Social Work Minor

The Mission of California Baptist University's undergraduate social work programs is to develop generalist social work practitioners, who are biblically informed, legal and ethically rooted, data-informed decision makers who are committed to serving within local, global, and congregational communities. Through the engagement and inter-professional collaboration of individuals and systems, CBU's graduates will advance the health and well-being of individuals, families, groups, and communities, with a firm commitment to biblical social justice.

CBU's undergraduate social work program strives to develop graduates with the highest integrity and ethics that will distinguish them in the workplace and the world. The program is committed to pursuing Christ-centered justice by equipping graduates to live their purpose and glorify God through community-based social action both locally and globally.

### Program Goals

- Prepare biblically informed social work generalist practitioners.
- Prepare students to serve diverse and historically oppressed groups utilizing data-informed strategies and skills to engage in human rights and social justice advocacy.
- Prepare students to engage in interprofessional collaboration to increase effectiveness in micro, mezzo, and macro outcomes, in local, global, and congregational settings.
- Generate change-oriented research and scholarship to promote social and economic justice.
- Provide educational opportunities to assist undergraduate students in gaining the competencies necessary for generalist social work practice.

## Traditional Minor Program Requirements (18 units)

### Upper Division Requirements

- SWK 300 - Introduction to Social Work
- SWK 401 - Social Work Practice I
- SWK 435 - Case Management
- SWK 462 - Marginalized Populations

### Upper Division Elective Requirements

Complete six (6) additional units of their choice from the following courses, with the option of completing one of the optional tracks/focus areas listed.

#### Optional Tracks:

##### Medical Track

- SWK 345 Trauma and Children
- SWK 380 Medical Social Work

##### Child Welfare Track

- SWK 345 Trauma and Children

- SWK 381 Intro to Children and Families

**Mental Health (Select 6 units)**

- SWK 335 Substance Use Disorders, Treatment, Recovery
  - SWK 371 Spirituality and the Helping Professions
  - SWK 410 Human Behavior and the Social Environment I
- 
- SWK 335 - Substance Use Disorders, Treatment, and Recovery
  - SWK 345 - Trauma in Children
  - SWK 371 - Spirituality and the Helping Professionals
  - SWK 380 - Introduction to Medical Social Work
  - SWK 381 - Introduction to Child and Family Welfare
  - SWK 410 - Human Behavior and the Social Environment I

# Gordon and Jill Bourns College of Engineering

**Dr. Philip VanHaaster**

*Dean*

**Dr. Mark Anklam**

*Associate Dean*

**Ms. Kiana Bjur**

*Administrative Assistant*

Phone 951.343.4972

engineering@calbaptist.edu

## Faculty Information

### Departments

Aerospace, Industrial, and Mechanical Engineering	Richard Baumer, Ph.D.
Aviation Science	John Marselus, D. Min.
Chemical Engineering and Bioengineering	Sarah Zhao, Ph.D.
Civil Engineering and Construction Management	Jong-Wha Bai, Ph.D.
Computing, Software, and Data Sciences	Dan Grissom, Ph.D.
Electrical and Computer Engineering	John Butler, Ph.D.

Through the Gordon and Jill Bourns College of Engineering at California Baptist University the Biomedical Engineering, Chemical Engineering, Civil Engineering, Electrical and Computer Engineering, and Mechanical Engineering degree programs are accredited by the Engineering Accreditation Commission of ABET and the Computer Science degree program is accredited through the Computing Accreditation Commission of ABET, <http://www.abet.org>. The Construction Management major is accredited by the American Council for Construction Education (ACCE), [www.acce-hq.org](http://www.acce-hq.org).

Engineers provide products and services that serve the needs of humanity. Engineers see problems and challenges as opportunities in disguise. Engineering graduates are highly sought after for their critical thinking, communication and team skills and are thus well compensated. Engineering degrees prepare students for the broadest number of outcomes. In addition to a growing variety of engineering jobs, about 20% of engineering students take their training and end up being doctors, lawyers, teachers, professors, officers, business entrepreneurs and salespeople. Students have also used their training as missionaries and pastors.

### CBU College of Engineering Distinctives:

#### A Christ-centered, learning community

Modeling Christ's attitude of service, we facilitate a learning environment where students are encouraged to care as much about their classmates' success as their own. Learning is a "holy" activity that is liberating, challenging, fun and equips one for a life of service. We believe "God uses prepared people."

**Both "excellent" and "average" students will have opportunities for growth**

The true test of an excellent program is not how many A+ students are sent on to top graduate schools. (Although, we have had our share of students who have gone on to MIT, Oregon Graduate Institute, Penn State, Stanford, University of Colorado, University of Pennsylvania, University of Washington, etc.) Rather, the true test of a program is if it can take an "average C to B student" and produce a very good engineer. Our vision is to equip all students with an opportunity to contribute their strengths and receive attention in their areas of weakness. A+ students are made better engineers by teaching and by learning from students with different capabilities and strengths than their own.

#### **Hands-on, team-oriented projects all four years**

Starting with a team design project incorporating 3D printing in their freshman year and culminating with a yearlong capstone design project their senior year, all of our students will be able to practice their passion to work with things and not just ideas. An emphasis will be on team projects, which in order to be successful will require students to learn how to communicate and to draw out the abilities of each person on the team. Obtaining a provisional patent on some aspect of their work is strongly encouraged.

#### **Required internships within an industry or with a nonprofit organization**

An internship is an essential and required part of the learning experience at CBU. We assist students to find internships through our industry relationships that will prepare them for a career in engineering. This official internship is usually undertaken in the summer following a student's junior year, although other internship opportunities may arise sooner.

#### **The mathematics required for engineering is taught just in time, in context and with hands-on labs**

Math is taught using engineering applications by people who understand the teaching of math in the context of engineering. Math concepts are taught just-in-time as part of the core engineering and physics classes and are reinforced by hands-on labs. CBU is one of 15 schools nationally that were originally funded by NSF to further develop engineering mathematics.

#### **Training in project management and an exposure to the business side of engineering**

Industrial representatives continue to emphasize the value that new engineers with project management experience bring to their organizations. Students in their junior year will be working on design projects and working with business and leadership concepts to enhance these skills.

#### **Emphasis on broad life skill training (e.g. teamwork, communication etc.) in addition to technical skill sets**

Along with the technical, "hard" skills needed to be an engineer, we also develop "soft" skills in the areas of communication (oral and written), collaboration with others, and the ability to take initiative. During the first two years we will place an emphasis on developing a heart and mind for engineering as service. This will serve as a foundation for small group discussions of leadership, emotional intelligence and global awareness topics during the third year. Students will be required to participate in and facilitate these groups and put into practice the things discussed on their various team projects. Students will have numerous opportunities to improve writing through the use of executive summaries, developing project specifications and project documentation.

#### **All students will have a cross-cultural experience**

This can be achieved several ways including participating in an International or Engineering Service Project (ISP or ESP), choosing a senior capstone project with cross-cultural emphasis, taking an approved intercultural studies course, or going on an approved study abroad.

Numerous regional businesses are actively involved with the College of Engineering through hiring alumni for jobs and students as interns, sponsoring capstone projects, serving on the strategic advisory board and departmental advisory councils, providing curriculum partners, funding student scholarships and equipment, and providing tours and guest lectures.

Areas of focus for research within the College of Engineering includes: outstanding undergraduate curriculum development, applications relating to human health, applications for green and sustainable technologies, and applications which have global implications.

The Engineering Degree has concentrations in Agricultural, Business, Global Applications, and Pre-Law.

## Major

### Biomedical Engineering, BSBME

Biomedical Engineers study the human body from an engineering perspective and create high-tech solutions for improving human health. They are well-suited for the design and development of implantables, such as artificial joints or stents, wearables, such as glucose monitors or artificial limbs, and healthcare equipment, such as a medical imaging systems or surgical consoles. Many biomedical engineering graduates select to join cutting-edge research programs where they use their knowledge of science and engineering to expand our understanding of human conditions and develop novel methods to treat disease and disabilities. Through the College of Engineering at California Baptist University the Biomedical Engineering degree program is accredited by the Engineering Accreditation Commission of ABET, <https://www.abet.org>, under the General Criteria and the Bioengineering and Biomedical and Similarly Named Engineering Programs Program Criteria.

### Traditional Degree Program Requirements (105-113 units)

#### General Education

The general education requirements will follow the curriculum set forth for other University programs. Some general education requirements will be met through specific Biomedical Engineering requirements. Approximately eighteen (18) units of general education are not met in the specific core and Biomedical Engineering requirements.

#### Lower Division Core Engineering Requirements (11-16 units)

\* Junior/Senior transfer students will complete EGR 301. All other students will complete EGR 101.

- EGR 101 - Engineering from a Christian Worldview *OR*
- EGR 301 - Engineering from a Christian Worldview \*
- EGR 102 - Introduction to Engineering Design *OR*
- EGR 106 - Introduction to Engineering Design - Energy Systems
- EGR 121 - Introduction to Computer Programming in C++
- EGR 122 - Visualization Languages I *OR*
- EGR 124 - Visualization Languages - Excel
- ICS 105 - Introduction to Global Studies

#### Upper Division Core Engineering Requirements (12 units)

- EGR 302 - Engineering Design and Documentation
- EGR 304 - Leadership Cohort
- EGR 306 - Internship Preparation
- EGR 401 - Capstone Design
- EGR 402 - Capstone Design and Presentation

- EGR 405 - Internship Report and Presentation

### Math and Science Requirements (34 units)

- BIO 146 - General Biology I with Lab
- BIO 153 - Anatomy and Physiology I
- BIO 153L - Anatomy and Physiology I Lab
- CHE 115 - General Chemistry I
- CHE 115L - General Chemistry I Lab
- EGR 182 - Introductory Mathematics for Engineering Applications
- EGR 305 - Engineering Statistics
- EGR 382 - Applied Differential Equations and Linear Algebra
- MAT 245 - Analytical Geometry and Calculus I
- MAT 255 - Analytical Geometry and Calculus II
- PHY 201 - Physics for Engineers I with Lab

### Lower Division Biomedical Engineering Requirements (18 units)

- EGR 231 - Circuit Theory I
- EGR 241 - Statics
- EGR 242 - Strength of Materials
- EGR 261 - Fundamentals of Bioengineering I
- EGR 262 - Fundamentals of Bioengineering II
- EGR 263 - Introduction to 3D Computer Aided Design

### Upper Division Biomedical Engineering Requirements (14 units)

- EGR 361 - Introduction to Biomechanics
- EGR 367 - Machine Learning for Bioengineering
- EGR 462 - Biomaterials I: Fundamentals of Concepts
- EGR 463 - Biomaterials II: Polymers for Biomedical Applications
- EGR 464 - Neural Engineering

### Additional Degree Requirements (0 units)

- Complete an approved cross-cultural experience. Course credit is not required. A list of approved experiences is available in the College of Engineering.
- Complete pre-approved 200 hours of supervised internship.

### Concentration Courses (16-19 units)

Students must complete all requirements in one of the following concentrations: General Studies; Mechanical Systems



## General Studies (16 units)

- EGR 363 - Biofluid Mechanics and Relevant Technologies
- EGR 364 - Bioimaging
- EGR 365 - Biomedical Engineering Research and Instrumentation

## General Studies Science Elective Requirement

Complete four (4) units in science from the following:

- BIO 163 - Anatomy and Physiology II
- BIO 163L - Anatomy and Physiology II Lab
- BIO 313 - Genetics
- CHE 125 - General Chemistry II
- CHE 125L - General Chemistry II Lab
- PHY 203 - Physics for Engineers II with Lab

## General Studies Engineering Elective Requirement

Complete three (3) additional units from the following:

- EGR 324 - Engineering Economics
- EGR 341 - Thermodynamics
- EGR 343 - Dynamics
- EGR 344 - Materials and Manufacturing Processes
- EGR 346 - Machine Design
- EGR 351 - Structural Analysis I
- EGR 356 - Hydrology
- EGR 442 - Computer-Aided Engineering Design and Visualization
- EGR 446 - Aerodynamics
- EGR 447 - Mechanics of Composite Structures
- EGR 448 - Propulsion
- EGR 478 - Bioprocess Engineering
- EGR 481 - Systems Simulation
- EGR 491 - Research Project

## Mechanical Systems (19 units)

- EGR 363 - Biofluid Mechanics and Relevant Technologies
- EGR 364 - Bioimaging
- EGR 365 - Biomedical Engineering Research and Instrumentation
- PHY 203 - Physics for Engineers II with Lab

## Mechanical Systems Elective Requirements

Complete six (6) additional units from the following:

- EGR 341 - Thermodynamics

- EGR 344 - Materials and Manufacturing Processes
- EGR 346 - Machine Design
- EGR 442 - Computer-Aided Engineering Design and Visualization
- EGR 445 - Thermal Design of Heat Exchangers
- EGR 446 - Aerodynamics
- EGR 447 - Mechanics of Composite Structures
- EGR 448 - Propulsion
- PHY 310 - Waves and Optics with Lab

## Chemical Engineering, BSChE

Engineers provide products and services that serve the needs of humanity. Engineers see problems and challenges as opportunities in disguise. Engineering graduates are highly sought after for their critical thinking, communication and team skills and are thus well compensated. Engineering degrees prepare students for the broadest number of outcomes. In addition to a growing variety of engineering jobs, engineering students use their training as doctors, lawyers, teachers, professors, missionaries, military officers, business entrepreneurs and salespeople. Through the College of Engineering at California Baptist University the Chemical Engineering degree program is accredited by the Engineering Accreditation Commission of ABET, <https://www.abet.org>, under the General Criteria and the Chemical, Biochemical, Biomolecular and Similarly Named Engineering Programs Program Criteria.

## Traditional Degree Program Requirements (106-111 units)

### General Education

The general education requirements will follow the curriculum set forth for other University programs. Some general education requirements will be met through specific Chemical Engineering requirements. Approximately eighteen (18) units of general education are not met in the specific core and Chemical Engineering requirements.

### Lower Division Core Engineering Requirements (11-16 units)

**\*\* Junior/Senior transfer students will complete EGR 301. All other students will complete EGR 101.**

- EGR 101 - Engineering from a Christian Worldview **\*\* OR**
- EGR 301 - Engineering from a Christian Worldview **\*\***
- EGR 102 - Introduction to Engineering Design *OR*
- EGR 106 - Introduction to Engineering Design - Energy Systems
- EGR 121 - Introduction to Computer Programming in C++
- EGR 122 - Visualization Languages I *OR*
- EGR 124 - Visualization Languages - Excel
- ICS 105 - Introduction to Global Studies

### Upper Division Core Engineering Requirements (12 units)

- EGR 302 - Engineering Design and Documentation
- EGR 304 - Leadership Cohort
- EGR 306 - Internship Preparation
- EGR 401 - Capstone Design
- EGR 402 - Capstone Design and Presentation

- EGR 405 - Internship Report and Presentation

### Math and Science Requirements (42 units)

- CHE 115 - General Chemistry I
- CHE 115L - General Chemistry I Lab
- CHE 125 - General Chemistry II
- CHE 125L - General Chemistry II Lab
- CHE 351 - Organic Chemistry I with Lab
- CHE 352 - Organic Chemistry II with Lab
- EGR 182 - Introductory Mathematics for Engineering Applications
- EGR 305 - Engineering Statistics
- MAT 245 - Analytical Geometry and Calculus I
- MAT 255 - Analytical Geometry and Calculus II
- MAT 342 - Fundamentals of Multivariable Calculus and Differential Equations
- PHY 201 - Physics for Engineers I with Lab
- PHY 203 - Physics for Engineers II with Lab

### Lower Division Chemical Engineering Requirement (4 units)

- EGR 271 - Basic Principles and Calculations in Chemical Engineering I
- EGR 272 - Basic Principles and Calculations in Chemical Engineering II

### Upper Division Chemical Engineering Requirements (31 units)

- EGR 324 - Engineering Economics
- EGR 341 - Thermodynamics
- EGR 342 - Fluid Mechanics
- EGR 371 - Heat and Mass Transport
- EGR 372 - Chemical Engineering Thermodynamics
- EGR 373 - Materials Engineering and Selection
- EGR 374 - Separations
- EGR 473 - Chemical Reaction Engineering
- EGR 474 - Chemical Process Control
- EGR 475 - Process Safety
- EGR 477 - Chemical Engineering Laboratory

### Elective Engineering Requirement (3 units)

Complete three (3) units from the following:

- EGR 231 - Circuit Theory I
- EGR 241 - Statics
- EGR 356 - Hydrology
- EGR 445 - Thermal Design of Heat Exchangers
- EGR 447 - Mechanics of Composite Structures
- EGR 453 - Environmental Engineering I

- EGR 463 - Biomaterials II: Polymers for Biomedical Applications
- EGR 478 - Bioprocess Engineering

## Elective Requirement (3 units)

Complete three (3) additional approved engineering, science, applied math, or business units.

Recommended:

- BIO 146 - General Biology I with Lab
- EGR 231 - Circuit Theory I
- EGR 256 - Principles of Environmental Engineering and Science
- ENT 442 - Opportunity and the Lean Startup
- CHE 443 - Biochemistry I with Lab
- MAT 453 - Numerical Analysis

## Additional Degree Requirements (0 units)

- Complete an approved cross-cultural experience. Course credit is not required. A list of approved experiences is available in the College of Engineering.
- Successfully pass the practice FE exam.
- Complete pre-approved 200 hours of supervised internship.

## Civil Engineering, BSCE

Engineers provide products and services that serve the needs of humanity. Engineers see problems and challenges as opportunities in disguise. Engineering graduates are highly sought after for their critical thinking, communication and team skills and are thus well compensated. Engineering degrees prepare students for the broadest number of outcomes. In addition to a growing variety of engineering jobs, engineering students use their training as doctors, lawyers, teachers, professors, missionaries, military officers, business entrepreneurs and salespeople. Through the College of Engineering at California Baptist University the Civil Engineering degree program is accredited by the Engineering Accreditation Commission of ABET, <https://www.abet.org>, under the General Criteria and the Civil and Similarly Named Engineering Programs Program Criteria.

## Traditional Degree Program Requirements (107-112 units)

### General Education

The general education requirements will follow the curriculum set forth for other University programs. Some general education requirements will be met through specific Civil Engineering requirements. Approximately eighteen (18) units of general education are not met in the specific core and Civil Engineering requirements.

### Lower Division Core Engineering Requirements (11-16 units)

\* Junior/Senior transfer students will complete EGR 301. All other students will complete EGR 101.

- EGR 101 - Engineering from a Christian Worldview \* **OR**
- EGR 301 - Engineering from a Christian Worldview \*

- EGR 102 - Introduction to Engineering Design *OR*
- EGR 106 - Introduction to Engineering Design - Energy Systems
- EGR 121 - Introduction to Computer Programming in C++
- EGR 122 - Visualization Languages I *OR*
- EGR 124 - Visualization Languages - Excel
- ICS 105 - Introduction to Global Studies

### Upper Division Core Engineering Requirements (9 units)

- EGR 304 - Leadership Cohort
- EGR 306 - Internship Preparation
- EGR 401 - Capstone Design
- EGR 402 - Capstone Design and Presentation
- EGR 405 - Internship Report and Presentation

### Math and Science Requirements (32 units)

- BIO 204 - Microbiology for Engineers
- CHE 115 - General Chemistry I
- CHE 115L - General Chemistry I Lab
- EGR 182 - Introductory Mathematics for Engineering Applications
- EGR 305 - Engineering Statistics
- EGR 382 - Applied Differential Equations and Linear Algebra *OR*
- MAT 303 - Linear Algebra with Applications to Differential Equations *OR*
- MAT 310 - Differential Equations
- MAT 245 - Analytical Geometry and Calculus I
- MAT 255 - Analytical Geometry and Calculus II
- MAT 343 - Multivariable Calculus
- PHY 201 - Physics for Engineers I with Lab

### Lower Division Civil Engineering Requirements (16 units)

- EGR 241 - Statics
- EGR 242 - Strength of Materials
- EGR 251 - Surveying
- EGR 254 - Materials Engineering
- EGR 256 - Principles of Environmental Engineering and Science

### Upper Division Civil Engineering Requirements (39 units)

- EGR 342 - Fluid Mechanics
- EGR 351 - Structural Analysis I
- EGR 352 - Structural Design I
- EGR 353 - Soil Mechanics
- EGR 354 - Soil and Foundation Engineering
- EGR 355 - Dynamics and Vibration
- EGR 356 - Hydrology

- EGR 451 - Project and Construction Management
- EGR 453 - Environmental Engineering I
- EGR 455 - Structural Design II
- EGR 458 - Water Resources Engineering
- Six (6) additional upper division approved engineering elective units

## Additional Degree Requirements (0 units)

- Successfully pass the practice FE Exam
- Complete an approved cross-cultural experience. Course credit is not required. A list of approved experiences is available in the College of Engineering.
- Complete pre-approved 200 hours of supervised internship

## Computer Science, BCS

The Computer Science (CS) program at CBU is designed to prepare students to enter the workforce as successful Software Engineers (SEs), while simultaneously equipping them with the fundamental understanding of computing systems and theory needed to enter graduate school or advance the state of the art in computing design. Students learn the fundamentals of object-oriented programming, data structures and algorithms, through multiple languages, to build a foundation for advanced coursework in computing systems and theory, including graphics, database design, computer architecture, operating systems, networks, compilers and language design.

The strong programming and algorithmic core also serves as the foundation for a state-of-the art Software Engineering core, which includes coursework using modern coding platforms and design paradigms in areas including mobile app design, web app design, cloud platform and app design, internet-of-things/embedded systems, the software development lifecycle and agile development. Platforms, languages and content for courses in the Software Engineering core are informed by current industry standards/practices and are typically either significantly or completely revamped every 2-3 years to stay on top of the fast-changing landscape of Computer Science and Software Engineering.

Students leverage their Software Engineering coursework to identify a problem and create a significant group-based Junior Design "software product (solution)," which is ideated, designed, planned and built in the context of a tech startup company; during their Senior year, students embark on a year-long, group-based Senior Capstone project where they work with a client to gather requirements, plan and build a significant software and/or hardware product to solve a customer problem.

Modern concentrations are available in the fields of Artificial Intelligence (AI) & Machine Learning (ML) and Cybersecurity. The AI & ML concentration, in combination with the CS Math core (taken by all CS students), is designed to produce the foundation for students to target a career as a ML Engineer or a graduate student pathway interested in designing the fundamental machine learning algorithms used by practitioners and engineers. Coursework in the AI & ML concentration offers students significant learning and practice in the important AI/ML subfields of search-based AI, shallow and deep learning, data mining and natural language processing. The math core offered by the CS program ensures students have the proper theoretical training in probability, statistics and linear algebra to understand and enhance machine learning algorithms with respect to algorithmic and mathematical design or tweak high-level ML applications with purpose.

The Cybersecurity concentration serves two goals: to prepare students to enter the field in a CS/SE position specifically aimed at cybersecurity and/or to inform the "common" (i.e., non-cybersecurity-focused) Software Engineer and Computer Scientist how to write software and/or create computing systems with security in mind. Coursework in this concentration uses modern tools and languages and covers important areas such as information security, data forensics, cryptography, incident threat and response, network traffic analysis and the design of secure systems.

Graduates of the Computer Science program at CBU often earn jobs immediately upon graduation with titles and/or responsibilities such as Software Engineer, Software Developer, Full-Stack Developer, Mobile Developer, Web Developer, Embedded Systems Engineer, Cloud Computing Backend Engineer, Machine Learning Engineer, Cybersecurity Engineer/Analyst, and more. Graduates of the CS program are equipped with the skillset to work at and are hired at startups, medium-sized companies and multi-national tech giants, while some earn entry into top graduate schools and choose to earn their M.S. or Ph.D. degrees in Computer Science.

Through the College of Engineering at California Baptist University the Computer Science degree program is accredited by the Computing Accreditation Commission of ABET, <https://www.abet.org>, under the General Criteria and the Computer Science and Similarly Named Computing Programs Program Criteria.

## Traditional Degree Program Requirements (108-112 units)

### General Education

The general education requirements will follow the curriculum set forth for other University programs. Some general education requirements will be met through specific Computer Science requirements. Approximately eighteen (18) units of general education are not met in the specific core and Computer Science requirements.

### Lower Division Core Engineering Requirements (11-15 units)

\* Junior/Senior transfer students will complete EGR 301. All other students will complete EGR 101.

- EGR 101 - Engineering from a Christian Worldview *OR*
- EGR 301 - Engineering from a Christian Worldview \*
- EGR 102 - Introduction to Engineering Design *OR*
- EGR 106 - Introduction to Engineering Design - Energy Systems
- EGR 122 - Visualization Languages I *OR*
- EGR 124 - Visualization Languages - Excel
- ICS 105 - Introduction to Global Studies

### Upper Division Core Engineering Requirements (12 units)

- EGR 304 - Leadership Cohort
- EGR 306 - Internship Preparation
- EGR 401 - Capstone Design
- EGR 402 - Capstone Design and Presentation
- EGR 405 - Internship Report and Presentation

### Programming and Algorithmic Requirements (12 units)

- CSC 312 - Algorithms
- EGR 121 - Introduction to Computer Programming in C++
- EGR 222 - Software Engineering
- EGR 227 - Data Structures and Analysis

### Computing Systems, Hierarchy, and Theory Requirements (15 units)

- CSC 313 - Graphics and Visual Computing
- CSC 415 - Theory of Computation and Compilers
- EGR 226 - Operating Systems and Networking
- EGR 325 - Database Systems
- EGR 329 - Computer Architecture

### Software Engineering Requirements (15 units)

- CSC 321 - Web Application Development
- CSC 322 - Mobile Application Development
- CSC 323 - Cloud Computing and Application Development
- EGR 302 - Engineering Design and Documentation
- EGR 425 - Real Time and Embedded Development

### Math Requirements (20 units)

- EGR 182 - Introductory Mathematics for Engineering Applications
- EGR 225 - Discrete Structures I
- MAT 245 - Analytical Geometry and Calculus I
- MAT 403 - Linear Algebra
- STA 310 - Mathematical Statistics I
- STA 311 - Mathematical Statistics II

### Natural Science Requirements (8 units)

- PHY 201 - Physics for Engineers I with Lab
- PHY 203 - Physics for Engineers II with Lab

### Additional Degree Requirements (0 units)

- Computer Science students are required to complete an approved cross-cultural experience. Course credit is not required. A list of approved experiences is available in the College of Engineering.
- Complete pre-approved 200 hours of supervised internship.
- Complete the program assessment exam requirement.

### Concentration Requirements (15 units)

Students must complete all requirements in one of the following concentrations: Cybersecurity; General; Machine Learning and AI

### Cybersecurity (15 units)

#### Core Requirements

- CSC 431 - Information Security and Computer Forensics
- CSC 432 - Network Traffic Analysis
- CSC 433 - Cyber Security Incident Response and Recovery



- CSC 434 - Secure System Principles

#### Elective Requirement

Complete three (3) additional units from the following:

- CSC 421 - Artificial Intelligence

#### General (15 units)

#### Core Requirements

- CSC 421 - Artificial Intelligence
- CSC 431 - Information Security and Computer Forensics

#### Elective Requirements

Complete nine (9) additional units from the following:

- CSC 422 - Machine and Deep Learning
- CSC 423 - Data Mining
- CSC 424 - Natural Language Processing
- CSC 432 - Network Traffic Analysis
- CSC 433 - Cyber Security Incident Response and Recovery
- CSC 434 - Secure System Principles

#### Machine Learning and AI (15 units)

#### Core Requirements

- CSC 421 - Artificial Intelligence
- CSC 422 - Machine and Deep Learning
- CSC 423 - Data Mining
- CSC 424 - Natural Language Processing

#### Elective Requirement

Complete three (3) additional units from the following:

- CSC 431 - Information Security and Computer Forensics

## **Construction Management, BS**

The Construction Management program prepares men and women for management and supervisory professions in the world of construction. This program focuses on field operations, estimating, and project management processes as they relate to the built environment.

#### Traditional Major Program Requirements (87 units)

## Lower Division Requirements

- ACC 250 - Principles of Accounting I
- BUS 217 - Microeconomics *OR*
- BUS 218 - Macroeconomics
- CHE 102 - Fundamentals of Chemistry *OR*
- ENV 151 - Introduction to the Geosciences
- CON 105 - Introduction to Construction Management
- CON 205 - Plan Reading and Estimating
- CON 215 - Computer-Aided Drafting and Design
- EGR 101 - Engineering from a Christian Worldview
- EGR 241 - Statics
- EGR 251 - Surveying
- ICS 105 - Introduction to Global Studies
  
- MAT 245 - Analytical Geometry and Calculus I *OR*
- MAT 145 - Mathematical Methods in the Natural Sciences
- PHY 214 - Physics I **AND**
- PHY 214L - Physics I Lab
- **OR**
- PHY 201 - Physics for Engineers I with Lab
- STA 144 - Introduction to Statistics

## Upper Division Requirements

- BUS 358 - Business Law
- BUS 463 - Business and Organizational Management
- CON 310 - Construction Materials and Methods
- CON 315 - Building Information Modeling
- CON 325 - Construction Company Financial Management
- CON 330 - Construction Safety
- CON 340 - Building Structures
- CON 350 - Project Delivery, Law and Contracts
- CON 430 - Advanced Estimating
- CON 460 - Construction Planning and Scheduling
- CON 470 - Mechanical Electrical and Piping Construction
- EGR 304 - Leadership Cohort
- EGR 306 - Internship Preparation
- EGR 401 - Capstone Design
- EGR 402 - Capstone Design and Presentation
- EGR 405 - Internship Report and Presentation
- EGR 451 - Project and Construction Management

## Additional Requirements (0 units)

- Complete pre-approved 200 hours of supervised internship.

- Complete an approved cross-cultural experience. Course credit is not required. A list of approved experiences is available in the College of Engineering.

## Electrical and Computer Engineering, BSECE

Electrical and Computer Engineering is a profession in great demand. From supercomputers and robotics to self-driving electric vehicles and renewable energy, electrical and computer engineers are improving the quality of life everywhere in the world. Students in this major study electrical and electronic circuits, control systems, telecommunication systems, signal processing, computers, microcontrollers, and other digital systems. CBU's electrical and computer engineering program trains students to become problem solvers and innovators with the technologies of the 21st century. Through the College of Engineering at California Baptist University the Electrical and Computer Engineering degree program is accredited by the Engineering Accreditation Commission of ABET, <https://www.abet.org>, under the General Criteria and the Electrical, Computer, Communications, Telecommunication(s) and Similarly Named Engineering Programs Program Criteria.

### Traditional Degree Program Requirements (106-111 units)

#### General Education

The general education requirements will follow the curriculum set forth for other University programs. Some general education requirements will be met through specific Electrical and Computer Engineering requirements.

Approximately eighteen (18) units of general education are not met in the specific core and Electrical and Computer Engineering requirements.

#### Lower Division Core Engineering Requirements (11-16 units)

\* Junior/Senior transfer students will complete EGR 301. All other students will complete EGR 101.

- EGR 101 - Engineering from a Christian Worldview \* *OR*
- EGR 301 - Engineering from a Christian Worldview \*
- EGR 102 - Introduction to Engineering Design *OR*
- EGR 106 - Introduction to Engineering Design - Energy Systems
- EGR 121 - Introduction to Computer Programming in C++
- EGR 122 - Visualization Languages I *OR*
- EGR 124 - Visualization Languages - Excel
- ICS 105 - Introduction to Global Studies

#### Upper Division Core Engineering Requirements (13 units)

- EGR 302 - Engineering Design and Documentation
- EGR 304 - Leadership Cohort
- EGR 306 - Internship Preparation
- EGR 401 - Capstone Design
- EGR 402 - Capstone Design and Presentation
- EGR 403 - FE Exam
- EGR 405 - Internship Report and Presentation

#### Math and Science Requirements (34 units)

- EGR 182 - Introductory Mathematics for Engineering Applications
- EGR 305 - Engineering Statistics
- EGR 382 - Applied Differential Equations and Linear Algebra
- MAT 245 - Analytical Geometry and Calculus I
- MAT 255 - Analytical Geometry and Calculus II
- MAT 343 - Multivariable Calculus
- PHY 201 - Physics for Engineers I with Lab
- PHY 203 - Physics for Engineers II with Lab

## Science Elective Requirement

Complete four (4) additional units in Science

Recommendations include:

- BIO 146 - General Biology I with Lab
- BIO 153 - Anatomy and Physiology I
- BIO 153L - Anatomy and Physiology I Lab
- CHE 115 - General Chemistry I
- CHE 115L - General Chemistry I Lab

## Lower Division Electrical and Computer Engineering Requirements (15 units)

- EGR 221 - Data Structures
- EGR 231 - Circuit Theory I
- EGR 232 - Circuit Theory II and Design
- EGR 234 - Digital Logic Design

## Upper Division Electrical and Computer Engineering Requirements (33 units)

- EGR 321 - Computer Organization
- EGR 322 - Microcontroller System Design
- EGR 331 - Signals and Systems
- EGR 333 - Electronics I
- EGR 335 - Data Acquisition, Design and Visualization
- EGR 431 - Control Systems
- EGR 432 - Applied Electromagnetics
- EGR 433 - Power Electronics
- EGR 437 - Digital Signals and Systems
- Six (6) additional upper division approved engineering elective units

## Additional Degree Requirements (0 units)

- Successfully pass the practice FE Exam
- Complete an approved cross-cultural experience. Course credit is not required. A list of approved experiences is available in the College of Engineering.
- Complete pre-approved 200 hours of supervised internship

## Engineering, BSE

Engineers provide products and services that serve the needs of humanity. Engineers see problems and challenges as opportunities in disguise. Engineering graduates are highly sought after for their critical thinking, communication and team skills and are thus well compensated. Engineering degrees prepare students for the broadest number of vocational outcomes. In addition to a growing variety of engineering jobs, engineering students use their training as doctors, lawyers, teachers, professors, missionaries, military officers, business entrepreneurs and salespeople.

### Traditional Degree Program Requirements (87-109 units)

#### General Education

The general education requirements will follow the curriculum set forth for other University programs. Some general education requirements will be met through specific Engineering requirements. Approximately twelve (12) to eighteen (18) units of general education are not met in the specific core and Engineering requirements.

#### Lower Division Core Engineering Requirements (11-16 units)

\* Junior/Senior transfer students will complete EGR 301. All other students will complete EGR 101.

- EGR 101 - Engineering from a Christian Worldview \* *OR*
- EGR 301 - Engineering from a Christian Worldview \*
- EGR 102 - Introduction to Engineering Design *OR*
- EGR 106 - Introduction to Engineering Design - Energy Systems
- EGR 121 - Introduction to Computer Programming in C++
- EGR 122 - Visualization Languages I *OR*
- EGR 124 - Visualization Languages - Excel
- ICS 105 - Introduction to Global Studies

#### Upper Division Core Engineering Requirements (12 units)

- EGR 302 - Engineering Design and Documentation
- EGR 304 - Leadership Cohort
- EGR 306 - Internship Preparation
- EGR 401 - Capstone Design
- EGR 402 - Capstone Design and Presentation
- EGR 405 - Internship Report and Presentation

#### Math and Science Requirements (18-19 units)

- EGR 182 - Introductory Mathematics for Engineering Applications
- EGR 305 - Engineering Statistics
- MAT 245 - Analytical Geometry and Calculus I
- PHY 201 - Physics for Engineers I with Lab
- PHY 203 - Physics for Engineers II with Lab *OR*

- CHE 115 - General Chemistry I

## Upper Division General Engineering Elective Requirements (9 units)

Complete nine (9) additional upper division engineering elective units

Recommendations include:

- EGR 332 - Communication Systems
- EGR 341 - Thermodynamics
- EGR 354 - Soil and Foundation Engineering
- EGR 431 - Control Systems
- EGR 432 - Applied Electromagnetics
- EGR 441 - Heat Transfer
- EGR 442 - Computer-Aided Engineering Design and Visualization
- EGR 443 - Mechanical Vibrations
- EGR 446 - Aerodynamics
- EGR 447 - Mechanics of Composite Structures
- EGR 451 - Project and Construction Management
- EGR 453 - Environmental Engineering I
- EGR 455 - Structural Design II

## Additional Degree Requirements (0 units)

- Successfully pass the practice FE Exam
- Complete an approved cross-cultural experience. Course credit is not required. A list of approved experiences is available in the College of Engineering.
- Complete pre-approved 200 hours of supervised internship

## Concentration Requirements (37-59 units)

Students must complete all requirements in one of the following concentrations: Agricultural; Business; Civil Engineering; Global Applications; Internet of Things; Mechanical Engineering; Pre-Law

### Agricultural (57 units)

#### Lower Division Requirements

- BIO 114 - General Botany with Lab
- EGR 241 - Statics
- EGR 242 - Strength of Materials
- MAT 255 - Analytical Geometry and Calculus II
- NFS 101 - Introduction to Nutrition and Food Sciences

#### Upper Division Requirements

- BIO 305 - Microbiology with Lab
- EGR 341 - Thermodynamics
- EGR 342 - Fluid Mechanics
- EGR 343 - Dynamics
- EGR 346 - Machine Design
- EGR 353 - Soil Mechanics
- EGR 356 - Hydrology
- EGR 371 - Heat and Mass Transport
- EGR 382 - Applied Differential Equations and Linear Algebra
- EGR 453 - Environmental Engineering I
- EGR 454 - Environmental Engineering II
- EGR 458 - Water Resources Engineering

### Business (49-50 units)

#### Lower Division Requirements

- ACC 250 - Principles of Accounting I
- ACC 251 - Principles of Accounting II
- BIO 146 - General Biology I with Lab
- BUS 217 - Microeconomics
- BUS 218 - Macroeconomics
- BUS 237 - Management Based on Biblical Principles
- CHE 115 - General Chemistry I
- CIS 265 - Information Systems Essentials

#### Lower Division Engineering Elective Requirements

Complete one (1) of the following courses:

- EGR 231 - Circuit Theory I
- EGR 234 - Digital Logic Design
- EGR 241 - Statics

#### Upper Division Requirements

- BUS 334 - International Business
- BUS 358 - Business Law
- BUS 463 - Business and Organizational Management
- MKT 333 - Principles of Marketing

#### Upper Division Engineering Elective Requirements

Complete nine (9) additional upper division approved engineering elective units from the following:

- EGR (300 or 400 level)
- CON (300 or 400 level)
- CSC (300 or 400 level)

### Civil Engineering (45 units)

#### Lower Division Requirements

- EGR 241 - Statics
- EGR 242 - Strength of Materials
- EGR 251 - Surveying
- EGR 254 - Materials Engineering
- EGR 256 - Principles of Environmental Engineering and Science
- MAT 255 - Analytical Geometry and Calculus II

#### Upper Division Requirements

- EGR 342 - Fluid Mechanics
- EGR 351 - Structural Analysis I
- EGR 352 - Structural Design I
- EGR 353 - Soil Mechanics
- EGR 356 - Hydrology
- EGR 382 - Applied Differential Equations and Linear Algebra *OR*
- MAT 303 - Linear Algebra with Applications to Differential Equations *OR*
- MAT 310 - Differential Equations
- EGR 458 - Water Resources Engineering
- MAT 343 - Multivariable Calculus

### Global Applications (37-38 units)

#### Lower Division Requirements

- BIO 146 - General Biology I with Lab
- CHE 115 - General Chemistry I
- ICS 205 - Global Discipleship
- SOC 213 - Introduction to Sociology

#### Lower Division Engineering Elective Requirement

Complete one (1) of the following courses:

- EGR 231 - Circuit Theory I
- EGR 234 - Digital Logic Design
- EGR 241 - Statics



## Upper Division Requirements

- ICS 305 - Global Christianity
- ICS 430 - Intercultural Communication and Practice
- PHI 353 - Comparative Religions
- POL 415 - World Geography

## Upper Division Engineering Elective Requirements

Complete nine (9) additional upper division approved engineering elective units from the following:

- EGR (300 or 400 level)
- CON (300 or 400 level)
- CSC (300 or 400 level)

## Internet of Things (42 units)

## Lower Division Requirements

- CYB 220 - Security by Design
- EGR 221 - Data Structures
- EGR 222 - Software Engineering
- EGR 223 - Software Engineering Approach to Human Computer Interaction
- EGR 226 - Operating Systems and Networking

## Upper Division Requirements

Complete twenty-seven (27) additional upper division approved engineering elective units from the following:

- CIT 360 - Legal and Ethical Practices in Information Technology
- CIT 380 - Computer and Network Security
- CIT 460 - Business Networking
- CSC 321 - Web Application Development
- CSC 322 - Mobile Application Development
- CSC 421 - Artificial Intelligence
- CYB 390 - Database Security
- CYB 410 - Defensive Security
- CYB 420 - Offensive Security
- CYB 430 - Computer Forensics
- CYB 440 - Cybersecurity Management
- CYB 470 - Network Defense
- CYB 480 - Essential Tenets of Cybersecurity
- EGR 323 - Software Requirements and Analysis
- EGR 324 - Engineering Economics
- EGR 325 - Database Systems

- EGR 327 - Software Construction

## Mechanical Engineering (47 units)

### Lower Division Requirements

- CHE 115 - General Chemistry I
- EGR 231 - Circuit Theory I
- EGR 232 - Circuit Theory II and Design
- EGR 241 - Statics
- EGR 242 - Strength of Materials
- MAT 255 - Analytical Geometry and Calculus II

### Upper Division Requirements

- EGR 331 - Signals and Systems
- EGR 341 - Thermodynamics
- EGR 342 - Fluid Mechanics
- EGR 343 - Dynamics
- EGR 344 - Materials and Manufacturing Processes
- EGR 346 - Machine Design
- EGR 382 - Applied Differential Equations and Linear Algebra *OR*
- MAT 303 - Linear Algebra with Applications to Differential Equations *OR*
- MAT 310 - Differential Equations
- MAT 343 - Multivariable Calculus

## Pre-Law (56-59 units)

### Lower Division Requirements

- BIO 146 - General Biology I with Lab
- CHE 115 - General Chemistry I
- COM 113 - Oral Communication
- POL 213 - American Government
- POL 223 - State and Local Government

### Lower Division Engineering Elective Requirement

Complete one (1) of the following courses:

- EGR 231 - Circuit Theory I
- EGR 234 - Digital Logic Design
- EGR 241 - Statics

### Upper Division Requirements

- BUS 358 - Business Law
- BUS 359 - Intellectual Property Law
- COM 401 - Argumentation and Debate
- PAD 453 - Administrative Law and Bureaucracy
- PHI 300 - Logic
- PHI 323 - Ethics
- PHI 324 - Applied Ethics
- POL 330 - Law and Literature
- POL 440 - Pre-Law Internship (3 units)
- POL 484 - Constitutional Law I

### Upper Division Engineering Elective Requirements

Nine (9) additional upper division approved engineering elective units

## Mechanical Engineering, BSME

Engineers provide products and services that serve the needs of humanity. Engineers see problems and challenges as opportunities in disguise. Engineering graduates are highly sought after for their critical thinking, communication and team skills and are thus well compensated. Engineering degrees prepare students for the broadest number of outcomes. In addition to a growing variety of engineering jobs, engineering students use their training as doctors, lawyers, teachers, professors, missionaries, military officers, business entrepreneurs and salespeople. Through the College of Engineering at California Baptist University the Mechanical Engineering degree program is accredited by the Engineering Accreditation Commission of ABET, <https://www.abet.org>, under the General Criteria and the Mechanical and Similarly Named Engineering Programs Program Criteria.

### Traditional Degree Program Requirements (108-113 units)

#### General Education

The general education requirements will follow the curriculum set forth for other University programs. Some general education requirements will be met through specific mechanical engineering requirements. Approximately eighteen (18) units of general education are not met in the specific core and mechanical engineering requirements.

### Lower Division Core Engineering Requirements (11-16 units)

\* Junior/Senior transfer students will complete EGR 301. All other students will complete EGR 101.

- EGR 101 - Engineering from a Christian Worldview \* *OR*
- EGR 301 - Engineering from a Christian Worldview \*
- EGR 102 - Introduction to Engineering Design *OR*
- EGR 106 - Introduction to Engineering Design - Energy Systems
- EGR 121 - Introduction to Computer Programming in C++
- EGR 122 - Visualization Languages I *OR*
- EGR 124 - Visualization Languages - Excel
- ICS 105 - Introduction to Global Studies

## Upper Division Core Engineering Requirements (12 units)

- EGR 302 - Engineering Design and Documentation
- EGR 304 - Leadership Cohort
- EGR 306 - Internship Preparation
- EGR 401 - Capstone Design
- EGR 402 - Capstone Design and Presentation
- EGR 405 - Internship Report and Presentation

## Math and Science Requirements (34 units)

- CHE 115 - General Chemistry I
- CHE 115L - General Chemistry I Lab
- EGR 182 - Introductory Mathematics for Engineering Applications
- EGR 305 - Engineering Statistics
- MAT 245 - Analytical Geometry and Calculus I
- MAT 255 - Analytical Geometry and Calculus II
- MAT 343 - Multivariable Calculus
- EGR 382 - Applied Differential Equations and Linear Algebra *OR*
- MAT 303 - Linear Algebra with Applications to Differential Equations *OR*
- MAT 310 - Differential Equations
- PHY 201 - Physics for Engineers I with Lab
- PHY 203 - Physics for Engineers II with Lab

## Lower Division Mechanical Engineering Requirements (14 units)

- EGR 231 - Circuit Theory I
- EGR 232 - Circuit Theory II and Design
- EGR 241 - Statics
- EGR 242 - Strength of Materials

## Upper Division Mechanical Engineering Requirements (37 units)

- EGR 331 - Signals and Systems
- EGR 341 - Thermodynamics
- EGR 342 - Fluid Mechanics
- EGR 343 - Dynamics
- EGR 344 - Materials and Manufacturing Processes
- EGR 346 - Machine Design
- EGR 431 - Control Systems
- EGR 441 - Heat Transfer
- EGR 442 - Computer-Aided Engineering Design and Visualization
- EGR 443 - Mechanical Vibrations
- EGR 444 - Mechanical Engineering Laboratory

- Three (3) additional upper division approved engineering elective units

### Additional Degree Requirements (0 units)

- Successfully pass the practice FE Exam
- Complete an approved cross-cultural experience. Course credit is not required. A list of approved experiences is available in the College of Engineering.
- Complete pre-approved 200 hours of supervised internship.

## Software Engineering, BSSE

Software engineers work to produce effective software applications for the benefit and use of mankind. They work in almost every industry creating and enhancing software as either a product or supporting mechanism. Software engineers are educated to analyze, problem solve, create, and optimize complex systems. They work over a wide range of scales, designing and implementing software in a predictable and reliable manner.

### Traditional Degree Program Requirements (124 units)

#### General Education

The general education requirements will follow the curriculum set forth for other University programs. Some general education requirements will be met through specific Software Engineering requirements. Approximately eighteen (18) units of general education are not met in the specific core and Software Engineering requirements.

### Lower Division Core Engineering Requirements (16 units)

\* Junior/Senior transfer students will complete EGR 301. All other students will complete EGR 101.

- EGR 101 - Engineering from a Christian Worldview **OR**
- EGR 301 - Engineering from a Christian Worldview \*
- EGR 102 - Introduction to Engineering Design **OR**
- EGR 106 - Introduction to Engineering Design - Energy Systems
- EGR 121 - Introduction to Computer Programming in C++
- EGR 122 - Visualization Languages I **OR**
- EGR 124 - Visualization Languages - Excel
- ICS 105 - Introduction to Global Studies

### Upper Division Core Engineering Requirements (14 units)

- EGR 302 - Engineering Design and Documentation
- EGR 304 - Leadership Cohort
- EGR 305 - Engineering Statistics
- EGR 306 - Internship Preparation
- EGR 401 - Capstone Design

- EGR 402 - Capstone Design and Presentation
- EGR 405 - Internship Report and Presentation

### Math and Science Requirements (30 units)

- CSC 312 - Algorithms
- EGR 182 - Introductory Mathematics for Engineering Applications
- EGR 225 - Discrete Structures I
- MAT 245 - Analytical Geometry and Calculus I
- EGR 328 - Numerical Methods for Computing
- MAT 255 - Analytical Geometry and Calculus II
- PHY 201 - Physics for Engineers I with Lab
- PHY 203 - Physics for Engineers II with Lab
- Two (2) units of approved science

### Lower Division Software Engineering Requirements (12 units)

- EGR 222 - Software Engineering
- EGR 223 - Software Engineering Approach to Human Computer Interaction
- EGR 226 - Operating Systems and Networking
- EGR 227 - Data Structures and Analysis

### Upper Division Software Engineering Requirements (31 units)

- CSC 321 - Web Application Development
- CSC 322 - Mobile Application Development
- EGR 323 - Software Requirements and Analysis
- EGR 324 - Engineering Economics
- EGR 325 - Database Systems
- EGR 326 - Software Design and Architecture
- EGR 327 - Software Construction
- EGR 329 - Computer Architecture
- EGR 425 - Real Time and Embedded Development
- EGR 427 - Software Project Management

### Additional Degree Requirements (0 units)

- Complete an approved cross-cultural experience. Course credit is not required. A list of approved experiences is available in the College of Engineering.
- Complete pre-approved 200 hours of supervised internship
- Complete the program assessment exam requirement

## **Minor**

### **Aerospace Engineering Minor**

#### **Traditional Minor Program Requirements (25 units)**

##### **Lower Division Requirements**

- EGR 182 - Introductory Mathematics for Engineering Applications **OR**
- MAT 245 - Analytical Geometry and Calculus I
- EGR 241 - Statics
- EGR 242 - Strength of Materials

##### **Upper Division Mechanical Engineering Elective Requirements**

Complete six (6) upper division units from the following:

- EGR 341 - Thermodynamics
- EGR 342 - Fluid Mechanics
- EGR 344 - Materials and Manufacturing Processes
- EGR 346 - Machine Design
- EGR 443 - Mechanical Vibrations
- EGR 444 - Mechanical Engineering Laboratory

##### **Upper Division Aerospace Engineering Elective Requirements**

Complete six (6) upper division units from the following:

- EGR 446 - Aerodynamics
- EGR 447 - Mechanics of Composite Structures
- EGR 448 - Propulsion

##### **Upper Division Elective Requirement**

Complete three (3) upper division units from the following:

- AVN 322 - Aviation Safety
- AMG 324 - Aviation Security
- EGR 335 - Data Acquisition, Design and Visualization
- EGR 445 - Thermal Design of Heat Exchangers
- FLT 328 - Aircraft Systems

## **Biomechanics and Rehabilitation Engineering Minor**

### Traditional Minor Program Requirements (26 units)

#### Lower Division Requirements

- BIO 153 - Anatomy and Physiology I
- BIO 153L - Anatomy and Physiology I Lab
- EGR 241 - Statics
- EGR 242 - Strength of Materials
- MAT 245 - Analytical Geometry and Calculus I

#### Upper Division Requirements

- EGR 305 - Engineering Statistics
- EGR 361 - Introduction to Biomechanics
- EGR 365 - Biomedical Engineering Research and Instrumentation
- EGR 464 - Neural Engineering
- EGR 491 - Research Project

## **Chemical Engineering Minor**

### Traditional Minor Program Requirements (32 units)

#### Lower Division Requirements

- CHE 115 - General Chemistry I
- CHE 115L - General Chemistry I Lab
- CHE 125 - General Chemistry II
- CHE 125L - General Chemistry II Lab
- EGR 271 - Basic Principles and Calculations in Chemical Engineering I
- EGR 272 - Basic Principles and Calculations in Chemical Engineering II
- MAT 245 - Analytical Geometry and Calculus I
- MAT 255 - Analytical Geometry and Calculus II

#### Upper Division Requirements

- MAT 342 - Fundamentals of Multivariable Calculus and Differential Equations
- EGR 342 - Fluid Mechanics
- EGR 371 - Heat and Mass Transport
- EGR 473 - Chemical Reaction Engineering *OR*
- EGR 474 - Chemical Process Control



## Computer Engineering Minor

See also the following majors and minors:

- Electrical and Computer Engineering, BSECE
- Computer Science Minor
- Computer Science, BCS

## Traditional Minor Program Requirements (34 units)

### Lower Division Requirements

- EGR 121 - Introduction to Computer Programming in C++ *OR*
- CIS 268 - Computer Programming Languages
- 
- EGR 182 - Introductory Mathematics for Engineering Applications *OR*
- MAT 245 - Analytical Geometry and Calculus I
- 
- EGR 221 - Data Structures
- EGR 231 - Circuit Theory I
- EGR 232 - Circuit Theory II and Design
- EGR 234 - Digital Logic Design

### Upper Division Requirements

- EGR 321 - Computer Organization
- EGR 322 - Microcontroller System Design
- EGR 335 - Data Acquisition, Design and Visualization
- EGR 435 - Advanced Digital System Design Using FPGAs

## Computer Science Minor

The Computer Science (CS) minor at CBU is designed to equip non-CS-majors with the fundamental understanding of computing systems and theory needed to enter graduate school or advance the state of the art in computing design. Students learn the fundamentals of object-oriented programming, data structures and algorithms, through multiple languages, to build a foundation for advanced coursework (required and/or elective) in computing systems and theory, including graphics, database design, computer architecture, compilers, language design and modern topics in cyber security and machine learning.

Modern coursework is available in the fields of Artificial Intelligence (AI) & Machine Learning (ML) and Cybersecurity. Available coursework in the areas of AI & ML is designed to produce the foundation for students to target a career as a ML Engineer or a graduate student pathway interested in designing the fundamental machine learning algorithms used by practitioners and engineers; these courses offer students significant learning and practice in the important AI/ML subfields of search-based AI, shallow and deep learning, data mining and natural language processing.

State-of-the-art coursework available in cybersecurity serves two goals: to prepare students to enter the field in a CS/SE position specifically aimed at cybersecurity and/or to inform the "common" (i.e., non-cybersecurity-focused) Software Engineer and Computer Scientist how to write software and/or create computing systems with security in mind. Cybersecurity coursework options use modern tools and languages and cover important areas such as information security, data forensics, cryptography, incident threat and response, network traffic analysis and the design of secure systems.

The Computer Science Minor is housed under the umbrella of the Computer Science major and its courses; through the Gordon and Jill Bourns College of Engineering at California Baptist University, the Computer Science major/degree program is accredited through the Computing Accreditation Commission of ABET, <http://www.abet.org>.

## Traditional Minor Program Requirements (24 units)

### Lower Division Requirements

- EGR 121 - Introduction to Computer Programming in C++ **OR**
- CIS 268 - Computer Programming Languages
- EGR 222 - Software Engineering
- EGR 225 - Discrete Structures I **OR**
- MAT 313 - Mathematical Proof and Structures
- EGR 227 - Data Structures and Analysis

### Upper Division Requirements

- CSC 312 - Algorithms
- EGR 329 - Computer Architecture

### Upper Division Elective Requirements

Complete six (6) units from the following:

- CSC 313 - Graphics and Visual Computing
- CSC 415 - Theory of Computation and Compilers
- CSC 421 - Artificial Intelligence
- CSC 422 - Machine and Deep Learning \*
- CSC 423 - Data Mining \*
- CSC 424 - Natural Language Processing \*
- CSC 431 - Information Security and Computer Forensics
- CSC 432 - Network Traffic Analysis
- CSC 433 - Cyber Security Incident Response and Recovery
- CSC 434 - Secure System Principles
- EGR 325 - Database Systems
- EGR 425 - Real Time and Embedded Development

## Note

\*CSC 422, 423, and 424 all have an additional prerequisite in statistics

## Construction Management Minor

### Traditional Minor Program Requirements (18 units)

#### Lower Division Requirements

- CON 105 - Introduction to Construction Management
- CON 205 - Plan Reading and Estimating

#### Upper Division Requirements

Complete twelve (12) upper division units from the following:

- CON 310 - Construction Materials and Methods
- CON 315 - Building Information Modeling
- CON 330 - Construction Safety
- CON 340 - Building Structures
- CON 350 - Project Delivery, Law and Contracts
- CON 430 - Advanced Estimating
- CON 460 - Construction Planning and Scheduling
- CON 470 - Mechanical Electrical and Piping Construction

## Data Sciences Minor

The Data Science minor at CBU is designed to equip students to fill roles as leaders, decision makers, solutions developers, and consultants in almost any organization that uses data to solve real-world problems. It is explicitly designed to serve traditional students from almost any declared CBU major obtain critical skills in data collection, information creation, and one's cognitive and analytic ability. Furthermore, it equips students to design, implement, and use systems and tools for turning very large collections of data into knowledge that is subsequently visualized in meaningful ways.

Students learn the fundamentals of programming and statistics before adding a foundational course in database design. The core of the Data Science minor is delivered through 9 units of upper division electives, which include state-of-the-art coursework options in machine learning, deep learning, data mining, natural language processing, geographic information systems (GIS), geospatial analysis and data visualization.

The 18-unit Data Science minor can be completed with an additional 9-12 units of study for many of CBU's undergraduate degrees. Students with a comparable intro or advanced programming and/or statistics course not specifically listed in the Data Science minor are encouraged to reach out to the department chair to determine if it might be an acceptable replacement to one of the explicit requirements in programming or statistics.

The Data Science minor is designed to meet the latest core requirements of Data Science Curricula as recommend by the Association for Computing Machinery (ACM) Data Science Task Force and is housed under the umbrella of the Computer Science major and its courses; through the Gordon and Jill Bourns College of Engineering at California

Baptist University, the Computer Science degree program is accredited through the Computing Accreditation Commission of ABET, <http://www.abet.org>.

## Traditional Minor Program Requirements (18 units)

### Programming and Statistics Requirements (6 units)

- EGR 121 - Introduction to Computer Programming in C++ **OR**
- CIS 268 - Computer Programming Languages
- EGR 305 - Engineering Statistics **OR**
- STA 144 - Introduction to Statistics **OR**
- STA 310 - Mathematical Statistics I

### Upper Division Requirements (6 units)

- EGR 325 - Database Systems **OR**
- CIT 370 - Database Design and Processing
- CIS 465 - Essentials of Geographic Information Systems **OR**
- STA 360 - Data Visualization

### Upper Division Elective Requirements (6 units)

Complete six (6) additional units from the following:

- CSC 422 - Machine and Deep Learning
- CSC 423 - Data Mining
- CSC 424 - Natural Language Processing

## Electrical Engineering Minor

### Traditional Minor Program Requirements (31 units)

#### Lower Division Requirements

- EGR 231 - Circuit Theory I
- EGR 232 - Circuit Theory II and Design
- MAT 245 - Analytical Geometry and Calculus I
- MAT 255 - Analytical Geometry and Calculus II

#### Upper Division Requirements

- EGR 331 - Signals and Systems

- EGR 333 - Electronics I
- EGR 335 - Data Acquisition, Design and Visualization
- EGR 431 - Control Systems

### Upper Division Elective Requirement

Complete three (3) additional upper division units from the following:

- EGR 334 - Electronics II
- EGR 432 - Applied Electromagnetics
- EGR 433 - Power Electronics

## **Environmental Engineering Minor**

### Traditional Minor Program Requirements (23 units)

#### Lower Division Requirements

- CHE 115 - General Chemistry I
- CHE 115L - General Chemistry I Lab
- EGR 256 - Principles of Environmental Engineering and Science
- MAT 245 - Analytical Geometry and Calculus I

#### Upper Division Requirements

- EGR 342 - Fluid Mechanics **OR**
- EGR 456 - Sustainable Civil Engineering
- EGR 356 - Hydrology
- EGR 453 - Environmental Engineering I
- EGR 454 - Environmental Engineering II

## **Mechanical Engineering Minor**

### Traditional Minor Program Requirements (48 units)

#### Lower Division Requirements

- EGR 241 - Statics
- EGR 242 - Strength of Materials
- MAT 245 - Analytical Geometry and Calculus I
- MAT 255 - Analytical Geometry and Calculus II
- CHE 115 - General Chemistry I
- CHE 115L - General Chemistry I Lab

- PHY 201 - Physics for Engineers I with Lab
- PHY 203 - Physics for Engineers II with Lab

## Upper Division Requirements

- EGR 341 - Thermodynamics
- EGR 342 - Fluid Mechanics
- EGR 343 - Dynamics
- EGR 441 - Heat Transfer
- EGR 442 - Computer-Aided Engineering Design and Visualization
- MAT 343 - Multivariable Calculus

## Upper Division Elective Requirement

Complete three (3) upper division units from the following:

- EGR 344 - Materials and Manufacturing Processes
- EGR 346 - Machine Design
- EGR 443 - Mechanical Vibrations
- EGR 444 - Mechanical Engineering Laboratory
- EGR 445 - Thermal Design of Heat Exchangers

## **Mechatronics Minor**

### Traditional Minor Program Requirements (38 units)

#### Lower Division Requirements

- EGR 231 - Circuit Theory I
- EGR 232 - Circuit Theory II and Design
- EGR 234 - Digital Logic Design
- MAT 245 - Analytical Geometry and Calculus I
- MAT 255 - Analytical Geometry and Calculus II

#### Upper Division Requirements

- EGR 321 - Computer Organization
- EGR 322 - Microcontroller System Design
- EGR 331 - Signals and Systems
- EGR 335 - Data Acquisition, Design and Visualization
- EGR 431 - Control Systems
- EGR 434 - Robot Modeling and Control

# Software Engineering and App Development Minor

The Software Engineering & App Development minor at CBU is designed to prepare students to add software engineering skills to their existing major so that they can build functional and modern computing solutions and applications to solve problems in their field of expertise. While not a "boot camp", the Software Engineering minor is designed to help Engineering and Non-Engineering majors learn the essential skills to build mobile, web and cloud apps as quickly as possible.

Students learn the fundamentals of object-oriented programming in multiple languages which serves as the foundation for a state-of-the art Software Engineering curriculum, which includes coursework using modern coding platforms and design paradigms in areas including mobile app design, web app design, cloud platform and app design, the software development lifecycle and agile development. Platforms, languages and content for courses in the Software Engineering core are informed by current industry standards/practices and are typically either significantly or completely revamped every 2-3 years to stay on top of the fast-changing landscape of Computer Science and Software Engineering.

Students leverage their Software Engineering coursework to identify a problem and create a significant group-based Junior Design "software product (solution)," which is ideated, designed, planned and built in the context of a tech startup company.

The Software Engineering Minor is housed under the umbrella of the Computer Science major and its courses; through the Gordon and Jill Bourns College of Engineering at California Baptist University, the Computer Science degree program is accredited through the Computing Accreditation Commission of ABET, <http://www.abet.org>.

## Traditional Minor Program Requirements (18 units)

### Lower Division Requirements

- CIS 268 - Computer Programming Languages **OR**
- EGR 121 - Introduction to Computer Programming in C++
  
- EGR 222 - Software Engineering

### Upper Division Requirements

- CSC 321 - Web Application Development
- CSC 322 - Mobile Application Development
- EGR 302 - Engineering Design and Documentation \*

### Note

\*EGR 302 section must be a section for Computer Science students

### Upper Division Elective Requirement

Complete three (3) upper division units in from the following:

- CSC 323 - Cloud Computing and Application Development \*\*
- CSC 422 - Machine and Deep Learning \*\*

- CSC 431 - Information Security and Computer Forensics
- EGR 323 - Software Requirements and Analysis
- EGR 325 - Database Systems
- EGR 427 - Software Project Management

#### Note

\*\*CSC 323 and 422 each require additional prerequisites



# Department of Aviation Science

**Dr. John Marselus**

*Chair*

**Rosemary Welsh**

*Department Secretary*

Phone 951.552.8800

FAX 951.552.8801

aviationadmin@calbaptist.edu

## Faculty Information

The Department of Aviation Science prepares students for professional aviation careers who think critically, communicate effectively, and lead ethically with excellence built on a strong Christian foundation. Students can obtain private pilot, instrument airplane, commercial single engine and multi engine, flight instructor, instrument instructor, and multiengine instructor FAA certifications and ratings. In addition, greater in-depth knowledge is obtained in areas such as aerodynamics, airline management, human factors, international aviation environment, laws and regulations, leadership, meteorology, safety, and security.

The Aviation Flight Bachelor of Science program is designed for students with little or no flight experience desiring a career as a professional aviator. The Aviation Flight program has concentrations in Commercial, Military, Missionary, and Unmanned Aerial Systems. Potential careers include airline pilot, air cargo pilot, military pilot, missionary pilot, law enforcement pilot, state aviation department pilot, air taxi or charter pilot, business or corporate pilot, unmanned aerial system operator and observer, and flight instructor.

All incoming Aviation Flight majors are initially enrolled as preflight majors. After successful completion of solo with a minimum 2.5 GPA, the student can declare Aviation Flight with a specific concentration. The preflight program is designed that even after a year, an Aviation Management Bachelor of Science can be completed within the next three years of that four year degree. For those considering the Aviation Flight BS UAS or Military concentrations, additional requirements need to be met in order to declare either of those concentrations.

The Aviation Management Bachelor of Science program is designed for students desiring a professional non-flight aviation career. The Aviation Management program has concentrations in Aerospace Technology, Airport Management and Operations, Dispatch, Flight Operations, and Logistics and Operations. Graduates are prepared for careers in airline management, airport management, fixed base operations management, aviation safety and security, dispatch, and aviation consulting.

Aviation Minors include Dispatch, Management, Missionary Pilot, and Unmanned Aerial Systems. These can be added to the Aviation Management or Aviation Flight Bachelors of Science degrees as appropriate or other degrees within the university. Dispatch prepares graduates to serve as a crew scheduler or dispatcher with airlines or business aviation as a licensed FAA Dispatcher while Unmanned Aerial Systems prepares students to enter this rapidly evolving segment of the aviation industry with the knowledge of remotely piloted systems and the pilot qualifications necessary to fly UAS within the national airspace system.

## Major

### Aviation Flight, BS

The major is designed for students whose desire is to be a professional commercial airline pilot, unmanned aerial systems operator, military pilot, or missionary pilot. Students complete a common core and can choose to concentrate in one or more of four concentrations: Commercial, Military, Missionary, and Unmanned Aerial Systems.

## Traditional Major Program Requirements (61-90 units)

### Lower Division Requirements

- AVN 110 - Introduction to Aviation
- AVN 210 - Aviation Meteorology
- FLT 116 - Private Pilot Ground
- FLT 117 - Private Flight I
- FLT 118 - Private Flight II
- FLT 119 - Instrument Pilot Ground
- FLT 214 - Instrument Flight I
- FLT 216 - Instrument Flight II
- FLT 224 - Modern Avionics and Navigational Aids

### Upper Division Requirements

- AVN 310 - Aviation Law and Regulations
- AVN 322 - Aviation Safety
- FLT 326 - Human Factors
- FLT 328 - Aircraft Systems
- FLT 350 - Airplane Aerodynamics
- FLT 410 - Turbine Systems
- FLT 420 - Crew Resource Management
- FLT 495 - Advanced Aerodynamics

### Concentration Courses (12-41 units)

Students must complete all requirements in one or more of the following concentrations: Commercial; Military; Missionary; Unmanned Aerial Systems

#### Commercial (20-25 units)

##### Commercial Requirements

- FLT 301 - Advanced and Commercial Airplane Pilot Ground
- FLT 311 - Commercial Pilot Ground
- FLT 312 - Commercial Flight I
- FLT 313 - Commercial Flight II
- FLT 314 - Commercial Multi Engine Flight

##### Commercial Elective Requirements

Complete six (6) additional units from the following:

- AMG 424 - Business Aviation Management

- AMG 426 - Airline Management
- AVN 390 - Leadership in Aviation
- AVN 490 - Aviation Internship I
- AVN 491 - Aviation Internship II
- FLT 430 - Airline Prep

### Optional Flight Instructor Requirements

Complete four to five (4-5) units from the following:

- FLT 315 - Flight Instructor Pilot Ground
- FLT 318 - Certified Flight Instructor Lab
- FLT 319 - Certified Flight Instrument Instructor Lab

### Military (12 units)

#### Military Requirements

- AVN 390 - Leadership in Aviation
- LDR 310 - Leadership Theory
- LDR 330 - Personal Leadership

#### Military Elective Requirements

Complete three (3) units from the following:

- AIR 301 - Air Force Leadership and Management I
- AIR 302 - Air Force Leadership and Management II
- AIR 303 - Air Force Leadership and Management III
- AIR 401 - National Security Forces in Contemporary American Society I
- AIR 402 - National Security Forces in Contemporary American Society II
- AIR 403 - National Security Forces in Contemporary American Society III
- LDR 350 - Communication Principles for Leadership
- LDR 410 - Ethical and Biblical Principles for Leadership
- LDR 430 - Decision Making and Leadership
- LDR 450 - Culture and Leadership
- LDR 470 - Groups and Leadership
- MSL 301 - Training Management and the Warfighting Functions
- MSL 302 - Applied Leadership in Small Unit Operations
- MSL 401 - The Army Officer
- MSL 402 - Company Grade Leadership
- MSL 451 - Seminar in Military History
- POL 471 - Terrorism
- PST 405 - Cross-Cultural Leadership
- PSY 388 - Industrial and Organizational Psychology

## Missionary (37-41 units)

### Christian Studies Minor Requirements

The missionary concentration requires students to declare and complete all requirements for the Christian Studies Minor. Students may choose to declare and complete a Christian Studies major instead of a Christian Studies Minor.

### Missionary Requirements

- FLT 311 - Commercial Pilot Ground
- FLT 312 - Commercial Flight I
- FLT 313 - Commercial Flight II
- FLT 315 - Flight Instructor Pilot Ground
- FLT 318 - Certified Flight Instructor Lab
- FLT 421 - Mission Aviation

### Optional Multi-Engine Commercial Requirements

- FLT 301 - Advanced and Commercial Airplane Pilot Ground
- FLT 314 - Commercial Multi Engine Flight

## Unmanned Aerial Systems (17 units)

### Unmanned Aerial Systems Requirements

- UAS 115 - Introduction to Unmanned Aerial Systems
- UAS 215 - Small Unmanned Aerial Systems Flight Lab
- UAS 325 - Medium Unmanned Aerial Systems Operations I
- UAS 425 - Large Unmanned Aerial Systems Operations

### Unmanned Aerial Systems Elective Requirements

Complete six (6) units from the following:

- COM 308 - Interpersonal Communications
- GDM 341 - Video Fundamentals
- UAS 326 - Medium Unmanned Aerial Systems Operations II
- UAS 400 - Special Topics in UAS
- UAS 415 - Unmanned Aerial Systems Mission Planning
- POL 471 - Terrorism

## Additional Course Fees

California Baptist University course lab fees are designed to ensure a student has funds available at the beginning of the semester to train within the syllabus of that flight course. CBU tuition does not include flight course costs and fees. Flight lab fees are based on FAA approved syllabus for each course and cover ground, simulator, and flight training.

Flight course lab fees are due to CBU Student Accounts prior to a student beginning any flight lab and are unique to each flight course.

To receive clearance to participate in a flight lab, students must meet all financial clearance requirements and complete full payment with verified funds to cover their flight lab fee. Once cleared to fly, the lab fee amount billed to the student's student account will be credited to the student's flight fee account. Students are responsible for accessing and tracking their flight fee accounts through the TALON/ETA system incorporated on the flight line. If for any reason a student's flight fee account falls below the required minimum balance, the University may place a hold on the student's academic progress, until the flight account is restored to good standing.

Students will have the entire semester to complete the flight lab in which they are enrolled. In order to pass a flight lab, students must meet each flight lab's student learning outcomes. Inability to achieve the outcomes will result in a failing grade. If the student learning outcomes for the flight lab are not achieved by the end of semester due to reasons beyond the student's control (weather, aircraft maintenance, etc.), a Satisfactory Progress (SP) will be issued, allowing the student to continue the flight lab in the subsequent semester. Any unused funds remaining on a student's flight account can be used in the subsequent semester.

If a student with an SP does not meet the student learning outcomes for the flight lab in which they are enrolled within the subsequent three semesters, the student will receive a failing grade for the lab. The student, in consultation with the Department of Aviation Sciences (Department), may have the option to enroll in the lab again, incurring an additional lab fee.

If a student is found unable to meet the standards in flight (sickness/fear/low situational awareness/physically unable/not meeting standards), the flight line will make reasonable efforts to facilitate that student's training in order that the student can demonstrate the requisite proficiency to pass the lab. The Department will conduct a three-level review (Chief of Program/Director of Flight Operations/Chair of Department). If, in the Department's professional assessment, the student cannot meet the standards, the student will be withdrawn from the course and refunded the flight lab fee balance from the flight account in TALON/ETA.

If a student does not achieve proficiency requirements within the flight hour parameters defined in the syllabus for any given flight lab, upon Department approval, the student may deposit additional funds to their TALON/ETA account to continue to train to demonstrate proficiency. Students will be required to submit an "Additional Flight Hours" request form with payment (VA will not cover additional hours) to the Student Accounts Office to add additional funds to their flight account. Once the form is processed and payment is confirmed, the Department of Aviation will be notified of the student's clearance to fly via email from the Student Accounts Office. Should a student fail a flight lab, change degree programs, withdraw from the University, or graduate from the program, any credit from unused "Additional Flight Hours" will be refunded to the student.

Course	Activities	Hours	Hourly Rate	Total Cost	Course Cost
FLT 117 - Private Flight I	Ground Hours	19.5	\$55.00	\$1,072.50	\$7,737.00
	Dual AATD Hours	4.9	155.00	759.50	
	Dual Archer Hours	21	270.00	5,670.00	
	ETA Talon			100.00	
	Foreflight ProPlus			135.00	
FLT 118 - Private Flight II	Ground Hours	26.5	\$55.00	\$1,457.50	\$11,870.00
	Dual Archer Hours	26	270.00	7,020.00	

	Solo Archer Hours	10.5	215.00	2,257.50	
	Dual AATD Hours	3.9	155.00	604.50	
	ETA Talon			100.00	
	Solo Archer Hours (checkride)	2	215.00	430.00	
FLT 214 - Instrument Flight I	Ground Hours	16	\$55.00	\$880.00	\$3,600.00
	Dual AATD Hours	14.3	155.00	2,216.50	
	ETA Talon			100.00	
	ForeFlight ProPlus			135.00	
	Jeppesen 141 IFR			169.00	
	Jeppesen charts in ForeFlight			99.00	
FLT 216 - Instrument Flight II	Ground Hours	28	\$55.00	\$1,540.00	\$9,288.00
	Dual Archer Hours	23	270.00	6,210.00	
	Dual AATD Hours	6.5	155.00	1,007.50	
	ETA Talon			100.00	
	Solo Archer Hours (checkride)	2	215.00	430.00	
FLT 312 - Commercial Flight I	Ground Hours	10	\$55.00	\$550.00	\$19,571.00
	Dual AATD Hours	1.3	155.00	201.50	
	Dual Arrow Hours	10	295.00	2,950.00	
	Dual Archer Hours	9.5	270.00	2,565.00	
	Solo Archer Hours	60	215.00	12,900.00	
	ETA Talon			100.00	
	Jeppesen 141 Comm			169.00	
	ForeFlight ProPlus			135.00	
FLT 313 - Commercial Flight II	Ground Hours	30	\$55.00	\$1,650.00	\$13,951.00
	Dual Arrow Hours	37	295.00	10,915.00	
	Dual AATD Hours	5.2	155.00	806.00	
	ETA Talon			100.00	
	Solo Arrow Hours (checkride)	2	240.00	480.00	

FLT 314 - Commercial Multi Engine Flight	Ground Hours	11.9	\$55.00	\$654.50	\$9,489.00
	Dual Seminole Hours	18.5	415.00	7,677.50	
	Solo Seminole Hours (checkride)	2	360.00	720.00	
	Dual AATD Hours	1.3	155.00	201.50	
	ForeFlight ProPlus			135.00	
	ETA Talon			100.00	
FLT 318 - Certified Flight Instructor Lab	Ground Hours	43	\$55.00	\$2,365.00	\$8,455.00
	Dual Archer Hours	15.5	270.00	4,185.00	
	Dual AATD Hours	8	155.00	1,240.00	
	Solo Archer Hours (checkride)	2	215.00	430.00	
	ForeFlight ProPlus			135.00	
	ETA Talon			100.00	
FLT 319 - Certified Flight Instrument Instructor Lab	Ground Hours	17.1	\$55.00	\$940.50	\$6,576.00
	Dual Archer Hours	10.2	270.00	2,754.00	
	Dual AATD Hours	14.3	155.00	2,216.50	
	Solo Archer Hours (checkride)	2	215.00	430.00	
	ForeFlight ProPlus			135.00	
	ETA Talon			100.00	
FLT 419 - Multi-Engine Instructor Pilot Lab	Ground Hours	16	\$55.00	\$880.00	\$8,060.00
	Dual Seminole Hours	15	415.00	6,225.00	
	Solo Seminole Hours (checkride)	2	360.00	720.00	
	ForeFlight ProPlus			135.00	
	ETA Talon			100.00	

Ground time includes orals and pre/post flight briefings

Archer Hourly Rate: \$215

Arrow Hourly Rate: \$240

Seminole Hourly Rate: \$360

FRASCA AATD Hourly Rate: \$100

CFI Hourly Rate: \$55

Effective Fall 2023.

### **Additional Cost of Attendance Components**

Additional Cost of Attendance per Semester	Living On Campus	Living Off Campus	Living with Parent
Housing	\$3,815	\$6,881	\$2,690
Food - campus meal plan	\$2,000	n/a	n/a
Food - outside meals	\$1,940	\$3,236	n/a
Books, course materials, supplies, and equipment	\$469	\$469	\$469
Transportation	\$554	\$882	\$806
Miscellaneous personal expenses	\$1,211	\$1,814	\$1,512

Additional Cost of Attendance for Fall 2023 and Spring 2024 Combined	Living On Campus	Living Off Campus	Living with Parent
Housing	\$7,630	\$13,762	\$5,380
Food - campus meal plan	\$4,000	n/a	n/a
Food - outside meals	\$3,880	\$6,472	n/a
Books, course materials, supplies, and equipment	\$938	\$938	\$938
Transportation	\$1,108	\$1,764	\$1,612
Miscellaneous personal expenses	\$2,422	\$3,628	\$3,024

## **Aviation Management, BS**

The major is designed for students who desire to pursue a non-flight aviation career. The major has an aviation business foundation, preparing students for careers in airline management, airport management, fixed base operations management, aviation safety and security, aviation consulting, and inflight services. Concentrations include: Dispatch; Logistics and Operations; Airport Management and Operations; Flight Operations; and Aerospace Technology.

### **Traditional Major Program Requirements (57-67 units)**

#### **Lower Division Requirements**

- AVN 110 - Introduction to Aviation
- AVN 210 - Aviation Meteorology
- CIS 265 - Information Systems Essentials
- FLT 116 - Private Pilot Ground



- MAT 115 - Intermediate Algebra *OR*
- MAT 123 - Survey of Mathematics *OR*
- STA 144 - Introduction to Statistics
- UAS 115 - Introduction to Unmanned Aerial Systems

## Upper Division Requirements

- AMG 320 - Fixed Base Operations
- AMG 324 - Aviation Security
- AMG 424 - Business Aviation Management
- AMG 426 - Airline Management
- AMG 499 - Aviation Management Capstone
- AVN 300 - Aviation Research, Writing and Communication
- AVN 310 - Aviation Law and Regulations
- AVN 322 - Aviation Safety
- FLT 326 - Human Factors

## Concentrations (12-22 units)

Students must complete all requirements in one of the following concentrations: Aerospace Technology; Airport Management and Operations; Dispatch; Flight Operations; Logistics and Operations

### Aerospace Technology (22 units)

- AMG 423 - Airport Planning and Design
- EGR 182 - Introductory Mathematics for Engineering Applications *OR*
- MAT 245 - Analytical Geometry and Calculus I
- EGR 241 - Statics
- EGR 242 - Strength of Materials
- FLT 328 - Aircraft Systems
- FLT 350 - Airplane Aerodynamics
- FLT 410 - Turbine Systems

### Airport Management and Operations (15 units)

- ACC 250 - Principles of Accounting I
- AMG 330 - Airport Management I
- AMG 332 - Airport Management II
- AMG 423 - Airport Planning and Design
- AMG 452 - Aviation Finance and Consulting

### Dispatch (18 units)

- DSP 330 - Dispatch I
- DSP 430 - Dispatch II
- DSP 497 - Dispatch III
- FLT 119 - Instrument Pilot Ground
- FLT 328 - Aircraft Systems
- FLT 410 - Turbine Systems

### Flight Operations (15 units)

- FLT 119 - Instrument Pilot Ground
- FLT 328 - Aircraft Systems
- FLT 350 - Airplane Aerodynamics
- FLT 410 - Turbine Systems
- FLT 420 - Crew Resource Management

### Logistics and Operations (12 units)

- BUS 341 - Operations Management **OR**
- BUS 463 - Business and Organizational Management
- BUS 352 - Global Supply Chain Management
- BUS 452 - Logistics Planning and Controlling
- BUS 475 - Project and Team Management

## **Professional Pilot, BS (Online)**

The Professional Pilot BS prepares students for careers as professional pilots in aviation providing theory and knowledge necessary for an airline, cargo, or corporate pilot. This program is intended for students who either have a student pilot certificate or have achieved professional certificates and ratings from the Federal Aviation Administration or International Civil Aviation Organization.

### Online Major Program Requirements (66-72 units)

#### Core Requirements

#### Lower Division Requirements

- AVN 110 - Introduction to Aviation
- AVN 210 - Aviation Meteorology

#### Upper Division Requirements

- AMG 320 - Fixed Base Operations
- AMG 324 - Aviation Security
- AMG 426 - Airline Management

- AVN 322 - Aviation Safety
- AVN 390 - Leadership in Aviation
- FLT 326 - Human Factors
- FLT 350 - Airplane Aerodynamics
- FLT 410 - Turbine Systems
- FLT 421 - Mission Aviation
- FLT 430 - Airline Prep

## Flight Requirements

Students can earn credit for these courses by providing the appropriate International Civil Aviation Organization (ICAO) or Federal Aviation Administration (FAA) certificate.

### Lower Division Flight Requirements

- FLT 160 - Private Pilot
- FLT 260 - Instrument Rating

### Upper Division Flight Requirements

- FLT 360 - Commercial Pilot Single Engine

### Upper Division Flight Electives

- FLT 460 - Commercial Pilot Multi Engine *OR*
- FLT 470 - Flight Instructor

## Minor

### Aviation Dispatch Minor

The Aviation Dispatch Minor is only available for Aviation Flight and Aviation Management majors.

### Traditional Minor Program Requirements (26 units)

#### Lower Division Requirements

- FLT 116 - Private Pilot Ground
- FLT 119 - Instrument Pilot Ground

#### Upper Division Requirements

- DSP 330 - Dispatch I
- DSP 430 - Dispatch II

- DSP 497 - Dispatch III
- FLT 326 - Human Factors
- FLT 328 - Aircraft Systems
- FLT 410 - Turbine Systems

## **Aviation Management Minor**

### Traditional Minor Program Requirements (20 units)

#### Lower Division Requirements

- AVN 110 - Introduction to Aviation
- FLT 116 - Private Pilot Ground

#### Upper Division Requirements

Complete twelve (12) units from the following:

- AMG 320 - Fixed Base Operations
- AVN 322 - Aviation Safety
- AMG 324 - Aviation Security
- AMG 330 - Airport Management I
- AMG 332 - Airport Management II
- AMG 424 - Business Aviation Management
- AMG 426 - Airline Management

## **Aviation Unmanned Aerial Systems Minor**

### Traditional Minor Program Requirements (28 units)

#### Lower Division Requirements

- AVN 110 - Introduction to Aviation
- AVN 210 - Aviation Meteorology
- FLT 116 - Private Pilot Ground
- UAS 115 - Introduction to Unmanned Aerial Systems
- UAS 215 - Small Unmanned Aerial Systems Flight Lab

#### Upper Division Requirements

- FLT 326 - Human Factors
- UAS 325 - Medium Unmanned Aerial Systems Operations I
- UAS 425 - Large Unmanned Aerial Systems Operations

## Upper Division Elective Requirement

Complete three (3) units from the following:

- COM 308 - Interpersonal Communications
- GDM 341 - Video Fundamentals
- UAS 326 - Medium Unmanned Aerial Systems Operations II
- UAS 400 - Special Topics in UAS
- UAS 415 - Unmanned Aerial Systems Mission Planning

## **Missionary Aviation Minor**

### Traditional Minor Program Requirements (51-56 units)

#### Lower Division Requirements

- AVN 210 - Aviation Meteorology
- FLT 116 - Private Pilot Ground
- FLT 117 - Private Flight I
- FLT 118 - Private Flight II
- FLT 119 - Instrument Pilot Ground
- FLT 214 - Instrument Flight I
- FLT 216 - Instrument Flight II
- FLT 224 - Modern Avionics and Navigational Aids

## Old Testament Elective Requirement

Complete three (3) units from the following:

- CST 110 - Old Testament Survey
- CST 210 - Pentateuch and Former Prophets
- CST 220 - Latter Prophets and Writings

## New Testament Elective Requirement

Complete three (3) units from the following:

- CST 130 - New Testament Survey
- CST 230 - Jesus and the Gospels
- CST 240 - Paul and the Early Church

## Upper Division Requirements

- CBS 420 - Behavioral Implications of Theology **OR**
- CST 370 - The Christian Faith
- FLT 301 - Advanced and Commercial Airplane Pilot Ground
- FLT 311 - Commercial Pilot Ground
- FLT 312 - Commercial Flight I
- FLT 313 - Commercial Flight II
- FLT 314 - Commercial Multi Engine Flight
- FLT 421 - Mission Aviation
- ICS 305 - Global Christianity

## Optional Flight Instructor Requirements

Complete four to five (4-5) units from the following:

- FLT 315 - Flight Instructor Pilot Ground
- FLT 318 - Certified Flight Instructor Lab
- FLT 319 - Certified Flight Instrument Instructor Lab

# College of Health Science

**Dr. David Pearson**

*Dean*

**Dr. Monica O'Rourke**

*Director of Educational Effectiveness*

**Dr. Dominick Sturz**

*Assistant Dean for Enrollment and Retention*

**Ms. Brittany Davies**

*Director of Academic Operations*

Phone 951.343.4619

healthscience@calbaptist.edu

**Faculty Information****Departments**

Allied Health Professions	Nicole MacDonald, Dr.P.H.
Communication Sciences and Disorders	Bryan Ness, Ph.D.
Kinesiology	Sean Sullivan, Ph.D.
Physician Assistant Studies	Heather Ontiveros, D.H.Sc.
Public Health Sciences	Janet Bonome, Dr.P.H.

The College of Health Science exists to transform lives through the health professions and consists of the following five departments: Allied Health Professions, Communication Sciences and Disorders, Kinesiology, Physician Assistant Studies, and Public Health Sciences.

The College is defined by its outstanding teaching, learning, service and scholarship; specialized emphasis on clinical, preventative, rehabilitative and restorative health professions; and efforts to serve as a premier institution for the intellectual and spiritual development of students, faculty, and staff. The College of Health Science will clearly and regularly support the concepts of being Biblically rooted, academically prepared, equipped to serve, and globally minded.

We take pride in our faculty commitment to teaching and learning as we prepare individuals for futures in a wide variety of professions. Furthermore, we prepare future leaders who will serve as health care, fitness, educational and leadership professionals.

The faculty and staff of the California Baptist University College of Health Science (CHS) commit to supporting CHS students, and one another, in the attainment of educational, spiritual, and vocational goals consistent with a Biblical worldview. Faculty and staff will steadfastly model the Christ-like behaviors of interactive teaching, servant leadership, and inspired scholarship aimed at improving the human condition. CHS faculty, staff, and students will be encouraged and equipped to make a significant and positive impact locally and around the world.

# Department of Allied Health Professions

**Dr. Nicole MacDonald**

*Chair*

**Ms. Stephanie Moreno**

*Secretary, College of Health Science*

Phone 951.343.8531

smoreno@calbaptist.edu

## Faculty Information

The Department of Allied Health Professions is a multidisciplinary department dedicated to preparing students to contribute to a global society and a diverse workforce through academic and clinical training of allied health professionals. This is accomplished by providing allied health professions students with the knowledge and skills basic to the practice of their disciplines from a Christian worldview, instilling them with the fundamental attitudes of professionalism, and enabling them to function in inter-professional collaboration that emphasizes whole person care.

## Major

### Physical Therapist Assistant, AS

The Associate of Science in Physical Therapist Assistant degree prepares the student for employment as a physical therapist assistant. Physical therapist assistants work under the supervision of licensed physical therapists in a wide variety of health care settings.

## Admission Requirements

### Associate of Science in Physical Therapist Assistant Admission Requirements

Students must meet the following requirements prior to admission to the program:

- High School graduation or equivalency (official transcripts required)
- Acceptance into California Baptist University
- Minimum cumulative high school grade point average (GPA) of 3.0 or college/university grade point average (GPA) of 2.5 (official transcripts from all colleges and universities attended required)
- A Comprehensive essay of at least 500 words that includes the following elements:
  - Why you want to become a Physical Therapist Assistant
  - Background and/or experiences related to the field
  - Short- and long-term professional goals, and
  - Reasons for choosing California Baptist University
- Verification of at least 60 clinical hours in a physical therapy environment
- Interview with Physical Therapist Assistant faculty and clinicians, if invited
- Two letters of recommendation. One must be from a Physical Therapist or Physical Therapist Assistant clinician and one must be from an instructor, teacher, or professor
- Once admitted into the program, the student must pass a criminal background check and be able to perform Technical Standards of the profession.

### Traditional Associate Program Requirements (56 units)



## General Requirements

- BIO 153 - Anatomy and Physiology I
- BIO 153L - Anatomy and Physiology I Lab
- BIO 163 - Anatomy and Physiology II
- BIO 163L - Anatomy and Physiology II Lab
- PSY 213 - General Psychology

## Technical Requirements

- PTH 100 - Introduction to Physical Therapy
- PTH 110 - Medical Terminology and Documentation
- PTH 130 - Functional Anatomy and Measurement
- PTH 140 - Basic Clinical Skills
- PTH 150 - Preparation for Clinical Practice
- PTH 160 - Neurology I
- PTH 170 - Physical Agents
- PTH 200 - Special Topics in Physical Therapy
- PTH 230 - Pathophysiology for the Physical Therapist Assistant
- PTH 240 - Advanced Clinical Skills
- PTH 260 - Orthopedics
- PTH 270 - Neurology II
- PTH 280 - Professional Integration

## Clinical Requirements

- PTH 255 - Clinical I
- PTH 265 - Clinical II
- PTH 275 - Clinical III

## Radiologic Sciences, BS

A Bachelor of Science in Radiologic Science will prepare students for the profession of Radiologic Science and allow them to sit for their state, national, and Fluoroscopy boards.

Students must submit an application to the Radiologic Science Program Director and be accepted to enroll in the Bachelor of Science in Radiologic Science program.

## Admission Requirements

Students must meet the following requirements prior to admission to the program:

High School graduation or equivalency (official transcripts required)

Acceptance into California Baptist University

A minimum 2.5 Grade Point Average (official transcripts from all colleges and universities attended required)

A Comprehensive essay of at least 500 words that includes the following elements:

Why you want to become a Radiologic Technologist  
 Background and/or experiences related to the field  
 Short- and long-term professional goals, and  
 Reasons for choosing California Baptist University  
 Verification of at least 8 hours in a radiology environment  
 Interview with Radiologic Science faculty and clinicians, if invited  
 Three letters of recommendation. One must be from a Radiology professional (Technologist or Radiologist) and one must be from an instructor, teacher, or professor  
 Once admitted into the program, the student must pass a criminal background check and be able to perform Technical Standards of the profession  
 Prerequisites:  
     Introduction to Statistics  
     Anatomy and Physiology I  
     Anatomy and Physiology II  
     First Aid and Safety (OR documented CPR and AED certification)  
     Medical Terminology  
     General Physics with Lab  
     General Chemistry  
     General Biology with Lab

## Pre-Radiologic Sciences Studies

The following pre-radiologic science requisites are offered at California Baptist University:

\*Requirement may be satisfied with documentation of Adult, Child, and Infant CPR with AED certification.

- BIO 146 - General Biology I with Lab
- BIO 153 - Anatomy and Physiology I
- BIO 153L - Anatomy and Physiology I Lab
- BIO 163 - Anatomy and Physiology II
- BIO 163L - Anatomy and Physiology II Lab
- BIO 173 - Medical Terminology
- CHE 102 - Fundamentals of Chemistry
- KIN 212 - First Aid and Safety \*
- MAT 145 - Mathematical Methods in the Natural Sciences **OR**
- MAT 245 - Analytical Geometry and Calculus I
- PHY 214 - Physics I
- PHY 214L - Physics I Lab
- RAD 210 - Introduction to Radiologic Science Practice
- STA 144 - Introduction to Statistics

## Traditional Major Program Requirements (65-77 units)

### Lower Division Radiologic Science Requirements

- RAD 220 - Patient Care in Radiologic Sciences with Lab

### Upper Division Radiologic Sciences Requirements

- HCA 330 - Health Information Systems
- HSC 305 - Epidemiology
- HSC 306 - Pathophysiology for Public Health
- HSC 480 - Research Methods
- RAD 320 - Principles of Imaging
- RAD 325 - Radiographic Procedures with Lab
- RAD 335 - Radiologic Procedures II with Lab
- RAD 345 - Radiologic Procedures III with Lab
- RAD 350 - Clinical Practice I
- RAD 355 - Clinical Practice II
- RAD 410 - Image Analysis
- RAD 415 - Introduction to Computed Tomography
- RAD 420 - Radiographic Medicine with Lab
- RAD 440 - Radiologic Biology and Physics with Lab
- RAD 450 - Clinical Practice III
- RAD 455 - Clinical Practice IV
- RAD 460 - Clinical Practice V
- RAD 495 - Radiologic Sciences Capstone
- RAD 496 - Comprehensive Review

## Optional Concentrations (12 units)

Students may select a concentration in one of the following areas: Magnetic Resonance Imaging (MRI) or Computed Tomography (CT)

### Computed Tomography (CT)

- CTI 425 - Principles of Computed Tomography
- CTI 475 - Computed Tomography Clinical Practice
- RAD 490 - Cross-Sectional Pathology
- RAD 499 - Cross-Sectional Anatomy

### Magnetic Resonance Imaging (MRI)

- MRI 425 - Principles of MRI
- MRI 475 - MRI Clinical Practice
- RAD 490 - Cross-Sectional Pathology
- RAD 499 - Cross-Sectional Anatomy

# Department of Communication Sciences and Disorders

**Dr. Bryan Ness**

*Chair*

**Ms. Stephanie Moreno**

*Secretary, College of Health Science*

Phone 951.552.8531

smoreno@calbaptist.edu

## Faculty Information

The Department of Communication Sciences and Disorders houses pre-professional training programs for students interested in pursuing careers in speech-language pathology, audiology, or other related fields.

Our Bachelor of Science degree program prepares students to pursue graduate degrees in the fields of speech-language pathology and audiology. Additionally, our undergraduate program features an optional Speech-Language Pathology Assistant practicum for students interested in pursuing licensure in California as a speech-language pathology assistant.

Our faculty are committed to providing excellent classroom and practicum instruction. Students enjoy learning about the professions through the lens of a Christian worldview and by faculty who are experts in their respective fields.

## Major

### Communication Sciences and Disorders, BS

The Communication Sciences and Disorders Major is designed for students to acquire skills and competencies in the areas of speech, hearing, language, and swallowing. This program in Communication Sciences and Disorders is designed to prepare students for graduate work in Speech Language Pathology or Audiology, as well as for entering into related professions.

Satisfactory completion of CDS 495 - Speech Language Pathology Assistant Clinical Practicum is required for registration as a Speech Language Pathology Assistant with the Speech-Language Pathology and Audiology and Hearing Aid Dispensers Board of the State of California Department of Consumer Affairs.

### Traditional Major Program Requirements (71 units)

#### Lower Division Requirements

- ANT 225 - Cultural Anthropology *OR*
- SOC 213 - Introduction to Sociology
  
- BIO 153 - Anatomy and Physiology I
- BIO 153L - Anatomy and Physiology I Lab
- CDS 101 - Introduction to Communication Disorders
- CDS 230 - Phonetics
- CDS 240 - Speech and Hearing Anatomy and Physiology
- CDS 250 - Typical and Atypical Language Development
- CHE 102 - Fundamentals of Chemistry

- HSC 100 - Introduction to the Health Science Professions
- PSY 120 - Lifespan Development for the Health Professions
- STA 144 - Introduction to Statistics

## Lower Division Electives

Complete six (6) units from the following:

- ASL 115 - American Sign Language I
- HSC 104 - Survey of U.S. Health Care Delivery
- HSC 210 - Ethics in Health Care
- PSY 213 - General Psychology

## Upper Division Requirements

- CDS 310 - Introduction to Audiology
- CDS 320 - Aural Rehabilitation
- CDS 330 - Speech Hearing Sciences
- CDS 340 - Clinical Methods and Procedures
- CDS 405 - Fluency Disorders
- CDS 410 - Language Disorders in Children
- CDS 420 - Articulation and Phonological Disorders
- CDS 430 - Neurogenic and Neurological Disorders
- CDS 440 - Voice and Craniofacial Disorders
- HSC 480 - Research Methods

## Upper Division Elective Requirements

Complete six (6) units from the following:

\*Required for registration as a Speech Language Pathology Assistant with the Speech-Language Pathology and Audiology and Hearing Aid Dispensers Board of the State of California Department of Consumer Affairs.

- CDS 400 - Special Topics in Communication Disorders
- CDS 495 - Speech Language Pathology Assistant Clinical Practicum \*
- ECH 320 - Infant, Toddler, and Early Childhood Cognitive Development
- ECH 375 - Early Intervention: Early Childhood Special Education
- ECH 385 - Theories and Models for Understanding Behavior in Young Children with Disabilities
- ECH 435 - Cross Cultural Perspectives of Children including Children with Disabilities
- EDU 341 - The Exceptional Child

# Department of Kinesiology

## **Dr. Sean Sullivan**

*Chair*

Phone 951.552.8531

healthscience@calbaptist.edu

## **Ms. Stephanie Moreno**

*Secretary, College of Health Science*

Phone 951.343.8531

smoreno@calbaptist.edu

## **Faculty Information**

Kinesiology focuses on the study of human movement and prepares students for career opportunities in a variety of exercise, physical activity, rehabilitation, sport, and wellness settings. CBU's Kinesiology major will provide students with knowledge, skills and competencies to work in professional fields such as athletic training, exercise, fitness, teaching, and sport management. Students receive a broad understanding of the basic and applied sciences as well as a marketable set of skills designed to enhance the health, wellness, and physical performance of the individuals they serve. This major prepares students for relevant professional certifications through the American College of Sports Medicine (ACSM) the National Strength and Conditioning Association (NSCA), and other professional organizations, as well as for further graduate study in related disciplines.

## **Major**

### **Exercise Science, BS**

The Exercise Science program is designed to prepare students for careers in exercise and rehabilitation, as well as graduate work in physical therapy and other Allied Health areas. The curriculum also prepares students for relevant professional certifications from the American College of Sports Medicine and the National Strength and Conditioning Association.

## **Traditional Major Program Requirements (70-72 units)**

### **Lower Division Requirements**

- KIN 101 - Orientation to the Discipline
- KIN 264 - Movement Anatomy
- KIN 274 - Applied Movement Anatomy
- PSY 213 - General Psychology

### **Lower Division Science and Mathematics Requirements**

- BIO 146 - General Biology I with Lab
- BIO 153 - Anatomy and Physiology I
- BIO 153L - Anatomy and Physiology I Lab
- BIO 163 - Anatomy and Physiology II
- BIO 163L - Anatomy and Physiology II Lab

- CHE 115 - General Chemistry I
- CHE 115L - General Chemistry I Lab
- STA 144 - Introduction to Statistics

## Lower Division Science and Mathematics Elective Requirements

Complete at least fifteen (15) units from the following:

- CHE 125 - General Chemistry II
- CHE 125L - General Chemistry II Lab
- KIN 304 - Introduction to Athletic Training
- KIN 312 - Emergencies in Sports Medicine
- KIN 353 - Care and Prevention of Athletic Injuries
- KIN 490 - Principles of Conditioning Athletes
- MAT 145 - Mathematical Methods in the Natural Sciences
- PHY 214 - Physics I
- PHY 214L - Physics I Lab
- PHY 224 - Physics II
- PHY 224L - Physics II Lab

## Upper Division Requirements

- BIO 305 - Microbiology with Lab **OR**
- BIO upper division elective (3+ units)
- BIO 313 - Genetics **OR**
- KIN 393 - Applied Exercise Physiology
- KIN 300 - Nutrition Science
  
- KIN 312 - Emergencies in Sports Medicine *OR*
- KIN 332 - Lifelong Motor Development
  
- KIN 383 - Exercise Physiology
- KIN 433 - Sports and Activities Practicum
- KIN 473 - Research Methods and Evaluation in Kinesiology
- KIN 480 - Fitness Assessments and Exercise Prescription

## Pre-Athletic Training Recommendations

Pre-Athletic Training students should take the following:

- KIN 304 - Introduction to Athletic Training
- KIN 312 - Emergencies in Sports Medicine
- KIN 353 - Care and Prevention of Athletic Injuries
- KIN 490 - Principles of Conditioning Athletes
- PHY 214 - Physics I

- PHY 214L - Physics I Lab

## Pre-Physical Therapy Recommendations

Pre-Physical Therapy students should take the following:

- CHE 125 - General Chemistry II
- CHE 125L - General Chemistry II Lab
- MAT 145 - Mathematical Methods in the Natural Sciences
- PHY 214 - Physics I
- PHY 214L - Physics I Lab
- PHY 224 - Physics II
- PHY 224L - Physics II Lab

## Kinesiology, BA

### Traditional Major Program Requirements (54-56 units)

The Kinesiology major prepares students for careers in sport, teaching, coaching, fitness, health science related fields and graduate studies. The concentration in Physical Activity and Wellness is designed for those interested in practicing and promoting general health and wellness as it relates to physical activity and exercise. The concentration in Physical Education is designed for those interested in teaching physical education. The concentration in Sport Performance is designed for those interested in improving athletic and sport performance of physically active individuals and groups.

### Lower Division Requirements

- BIO 153 - Anatomy and Physiology I
- BIO 153L - Anatomy and Physiology I Lab
- KIN 101 - Orientation to the Discipline
- KIN 108 - Swimming **OR**
- KIN 109 - Lifesaving
- KIN 114 - Walking and Running for Fitness
- KIN 115 - Weight Training
- KIN 212 - First Aid and Safety
- KIN 264 - Movement Anatomy
- KIN 274 - Applied Movement Anatomy

### Upper Division Requirements

- KIN 302 - Contemporary Health Issues
- KIN 303 - Foundations of Kinesiology
- KIN 332 - Lifelong Motor Development
- KIN 353 - Care and Prevention of Athletic Injuries
- KIN 383 - Exercise Physiology



- KIN 454 - Behavioral Aspects of Sport
- KIN 473 - Research Methods and Evaluation in Kinesiology

## Concentration Courses (16-18 units)

Students must complete all requirements in one of the following concentrations: Physical Activity and Wellness; Physical Education; Sport Performance

### Physical Activity and Wellness (17 units)

- HSC 320 - Public Health Nutrition and Physical Activity
  - HSC 410 - Health Behavior Change
  - KIN 106 - 126 (2 units)\*
  - KIN 390 - Sport Performance Techniques *OR*
  - KIN 490 - Principles of Conditioning Athletes
  - KIN 433 - Sports and Activities Practicum
  - KIN 480 - Fitness Assessments and Exercise Prescription
- \*Must complete two (2) different activity courses, not including varsity sport participation, KIN 108, 109, 114, or 115.

### Physical Education (18 units)

- KIN 301 - Sport Coaching and Officiating
- KIN 310 - Fundamentals of Movement and Physical Activity
- KIN 395 - Physical Activity for Early Development
- KIN 405 - Cooperative Movements in Physical Activity and Team Sport
- KIN 415 - Teaching Lifelong Physical Activity
- KIN 423 - Organizations and Administration of Physical Education

### Sport Performance (16 units)

- KIN 106 - 126 (1 unit)\*
  - KIN 300 - Nutrition Science
  - KIN 390 - Sport Performance Techniques
  - KIN 433 - Sports and Activities Practicum
  - KIN 490 - Principles of Conditioning Athletes
  - KIN 495 - Functional Movement for Sport Performance
- \*Must complete one (1) additional activity course, not including varsity sport participation, KIN 108, 109, 114, or 115.

## Recommended Courses for students interested in further study in Physical Therapy

Students should check with specific physical therapy schools for further course requirements.

- BIO 153 - Anatomy and Physiology I
- BIO 163 - Anatomy and Physiology II
- CHE 115 - General Chemistry I
- CHE 115L - General Chemistry I Lab
- CHE 125 - General Chemistry II
- CHE 125L - General Chemistry II Lab
- PHY 214 - Physics I
- PHY 224 - Physics II
- PSY 213 - General Psychology
- STA 144 - Introduction to Statistics

## **Kinesiology, BS (Online)**

The Kinesiology major prepares students for careers in sport, teaching, coaching, fitness, health science related fields and graduate studies. Students have the option to choose from a variety of upper division electives to align their education with their intended career and/or post-graduate educational goals.

### **Online Major Program Requirements (50 units)**

#### **Prerequisites to Program**

- ENG 113 - Composition
- ENG 123 - Intermediate Composition

#### **Lower Division Requirements (11 units)**

- BIO 153 - Anatomy and Physiology I
- BIO 153L - Anatomy and Physiology I Lab
- KIN 212 - First Aid and Safety
- KIN 264 - Movement Anatomy
- KIN 274 - Applied Movement Anatomy

#### **Upper Division Kinesiology Requirements (21 units)**

- KIN 302 - Contemporary Health Issues
- KIN 303 - Foundations of Kinesiology
- KIN 332 - Lifelong Motor Development
- KIN 353 - Care and Prevention of Athletic Injuries
- KIN 383 - Exercise Physiology
- KIN 454 - Behavioral Aspects of Sport
- KIN 473 - Research Methods and Evaluation in Kinesiology

#### **Upper Division Elective Requirements**

Complete twelve (12) units from the following:

- KIN 300 - Nutrition Science
- KIN 363 - Movement Experiences for Children
- KIN 393 - Applied Exercise Physiology
- KIN 404 - Movement Experiences for Middle School Students
- KIN 414 - Methods of Teaching Sport Activities
- KIN 423 - Organizations and Administration of Physical Education
- KIN 480 - Fitness Assessments and Exercise Prescription
- KIN 490 - Principles of Conditioning Athletes

### Additional Program Courses (6 units)

- CST 100 - Overview of the Bible
- CST 300-400 Upper Division Christian Studies

## **Sport Management, BS**

The Sport Management degree prepares students for administrative careers in the fields of athletics, fitness, recreation, sport, and tourism. Course work is primarily in the area of kinesiology, but also includes relevant industry-related content.

### Traditional Degree Program Requirements (50 units)

#### Lower Division Requirements

- BIO 153 - Anatomy and Physiology I
- BIO 153L - Anatomy and Physiology I Lab
- BUS 218 - Macroeconomics
- JRN 150 - Media and Society
- KIN 101 - Orientation to the Discipline
  
- KIN 108 - Swimming *OR*
- KIN 109 - Lifesaving
  
- KIN 114 - Walking and Running for Fitness
- KIN 115 - Weight Training
- KIN 212 - First Aid and Safety
- KIN 264 - Movement Anatomy
- KIN 274 - Applied Movement Anatomy

#### Upper Division Requirements

- BUS 343 - Human Resource Management
- COM 425 - Organizational Communication

- KIN 305 - Applied Sport Management
- KIN 315 - Sport Governance
- KIN 353 - Care and Prevention of Athletic Injuries
- KIN 423 - Organizations and Administration of Physical Education
- KIN 433 - Sports and Activities Practicum
- KIN 454 - Behavioral Aspects of Sport
- PSY 388 - Industrial and Organizational Psychology

## **Minor**

### **Coaching Minor**

The Coaching minor is designed for students pursuing careers in primary or secondary education. This minor, coupled with an appropriate multiple or single subject matter specialization can provide students with opportunities for involvement in all types of organized athletics.

\* Not available for Kinesiology majors.

### **Traditional Minor Program Requirements (26 units)**

#### **Lower Division Requirements**

- BIO 153 - Anatomy and Physiology I
- BIO 153L - Anatomy and Physiology I Lab
- KIN 212 - First Aid and Safety
- KIN 264 - Movement Anatomy

#### **Upper Division Requirements**

- KIN 301 - Sport Coaching and Officiating
- KIN 303 - Foundations of Kinesiology
- KIN 332 - Lifelong Motor Development
- KIN 353 - Care and Prevention of Athletic Injuries
- KIN 423 - Organizations and Administration of Physical Education
- KIN 433 - Sports and Activities Practicum

### **Kinesiology Minor**

The Kinesiology minor is designed for students pursuing careers in primary or secondary education. This minor, coupled with an appropriate multiple or single subject matter specialization can provide students with opportunities for involvement in teaching physical education and/or coaching athletic teams.

### **Traditional Minor Program Requirements (25 units)**

#### **Lower Division Requirements**

- KIN 212 - First Aid and Safety
- KIN 264 - Movement Anatomy
- KIN 274 - Applied Movement Anatomy

## Upper Division Requirements

- KIN 302 - Contemporary Health Issues
- KIN 303 - Foundations of Kinesiology
- KIN 332 - Lifelong Motor Development
- KIN 353 - Care and Prevention of Athletic Injuries
- KIN 363 - Movement Experiences for Children
- KIN 404 - Movement Experiences for Middle School Students **OR**
- KIN 414 - Methods of Teaching Sport Activities

## Sport Management Minor

The Sport Management minor is offered for those students who wish to work in an administrative capacity within fields such as athletics, recreation, fitness, tourism, and more. Students will gain some knowledge of the Kinesiology discipline as well as basic fundamentals of business management. This is a strong undergraduate preparation for the California Baptist University masters programs in Business or in Kinesiology with an emphasis in Sport Management.

## Traditional Minor Program Requirements (25 units)

### Lower Division Requirements

- ACC 250 - Principles of Accounting I
- BUS 218 - Macroeconomics
- BUS 237 - Management Based on Biblical Principles
- KIN 212 - First Aid and Safety

### Upper Division Requirements

- KIN 303 - Foundations of Kinesiology
- KIN 305 - Applied Sport Management
- KIN 315 - Sport Governance
- KIN 423 - Organizations and Administration of Physical Education
- KIN 454 - Behavioral Aspects of Sport

# Department of Public Health Sciences

**Dr. Janet Bonome**

*Chair*

**Ms. Stephanie Moreno**

*Secretary, College of Health Science*

Phone 951.343.8531

smoreno@calbaptist.edu

## Faculty Information

The Department of Public Health Sciences is dedicated to excellence in teaching, research, and service in the areas of Health Science, Public Health, Nutrition and Food Sciences, and Health Care Administration. Our graduates will find rewarding careers serving others in the community through education, public health, healthcare administration, and a number of other health related fields. Additionally, graduates of the department are well-prepared to enter graduate school and pursue master or doctoral programs in public health, healthcare administration, nutrition sciences, and the medical professions including medicine, dentistry, and physician assistant studies. Our academic programs at both the undergraduate and graduate level prepare students to be research based, practice ready, and Christ focused.

## Major

### Health Science, AS

#### Traditional Associate Program Requirements (32-33 units)

##### Lower Division Requirements

- HSC 100 - Introduction to the Health Science Professions
- HSC 104 - Survey of U.S. Health Care Delivery
- HSC 210 - Ethics in Health Care
- PSY 213 - General Psychology
- STA 144 - Introduction to Statistics

##### Chemistry Requirements

Complete a two-semester sequence from the following:

- CHE 102 - Fundamentals of Chemistry
  - CHE 112 - Organic and Biochemistry for Health Sciences
  - CHE 112L - Organic and Biochemistry for Health Sciences Lab
- OR**
- CHE 115 - General Chemistry I
  - CHE 115L - General Chemistry I Lab
  - CHE 125 - General Chemistry II
  - CHE 125L - General Chemistry II Lab

## Elective Requirements

Complete twelve (12) units from the following\*:

- BIO 146 - General Biology I with Lab
- BIO 163 - Anatomy and Physiology II
- BIO 163L - Anatomy and Physiology II Lab
- BIO 173 - Medical Terminology
- BIO 205 - Human Microbiology
- BIO 205L - Human Microbiology Lab
- CDS 101 - Introduction to Communication Disorders
- CDS 230 - Phonetics
- CDS 240 - Speech and Hearing Anatomy and Physiology
- CDS 250 - Typical and Atypical Language Development
- HSC 101 - Introduction to Public Health
- NFS 101 - Introduction to Nutrition and Food Sciences

### Note

\* Students should select required electives based on prerequisites for their planned field of study and career which may vary by institution and program. Recommended courses by field of study are as follows:

#### General Health Science

- BIO 146 - General Biology I with Lab
- BIO 173 - Medical Terminology
- HSC 101 - Introduction to Public Health

#### Communication Disorders

- CDS 101 - Introduction to Communication Disorders
- CDS 230 - Phonetics
- CDS 240 - Speech and Hearing Anatomy and Physiology
- CDS 250 - Typical and Atypical Language Development

#### Dental Hygiene

- BIO 146 - General Biology I with Lab
- BIO 163 - Anatomy and Physiology II
- BIO 163L - Anatomy and Physiology II Lab
- BIO 205 - Human Microbiology
- BIO 205L - Human Microbiology Lab

#### Nutrition and Food Science

- BIO 163 - Anatomy and Physiology II
- BIO 163L - Anatomy and Physiology II Lab
- BIO 205 - Human Microbiology
- BIO 205L - Human Microbiology Lab
- NFS 101 - Introduction to Nutrition and Food Sciences

## Health Science, BS

The Health Science Major prepares students for graduate school in a variety of medical professional studies and disciplines. In addition to the requisite science core, the Health Science major incorporates a comprehensive view of the aggregate US healthcare system to prepare future healthcare system practitioners with an understanding of how the current healthcare system works, as well as how health policy is developed and implemented.

### Traditional Major Program Requirements (72-93 units)

#### Lower Division Requirements (31 units)

- BIO 146 - General Biology I with Lab
- BIO 173 - Medical Terminology
- CHE 115 - General Chemistry I
- CHE 115L - General Chemistry I Lab
- CHE 125 - General Chemistry II
- CHE 125L - General Chemistry II Lab
- HSC 100 - Introduction to the Health Science Professions
- HSC 101 - Introduction to Public Health
- HSC 104 - Survey of U.S. Health Care Delivery
- HSC 210 - Ethics in Health Care
- MAT 145 - Mathematical Methods in the Natural Sciences
- PSY 213 - General Psychology
- STA 144 - Introduction to Statistics

#### Upper Division Requirements (23 units)

- BIO 305 - Microbiology with Lab
- BIO 313 - Genetics **OR**
- BIO 330 - Cell and Molecular Biology with Lab
- HSC 300 - Health Communication
- HSC 305 - Epidemiology
- HSC 306 - Pathophysiology for Public Health
- HSC 480 - Research Methods
- HSC 495 - Practicum **OR**
- HSC 499 - Health Science Capstone

#### Concentration Courses (18-39 units)



Students must complete all requirements in one of the following concentrations: Pre-Dental; Pre-Medicine; Pre-Pharmacy; Pre-Physician Assistant; Public Health and Population Medicine

### Pre-Dental (35 units)

- BIO 148 - General Biology II with Lab
- BIO 153 - Anatomy and Physiology I
- BIO 153L - Anatomy and Physiology I Lab
- BIO 163 - Anatomy and Physiology II
- BIO 163L - Anatomy and Physiology II Lab
- CDS 240 - Speech and Hearing Anatomy and Physiology
- CHE 351 - Organic Chemistry I with Lab
- CHE 352 - Organic Chemistry II with Lab
- CHE 443 - Biochemistry I with Lab
- PHY 214 - Physics I
- PHY 214L - Physics I Lab
- PHY 224 - Physics II
- PHY 224L - Physics II Lab

### Pre-Medicine (28 units)

- BIO 148 - General Biology II with Lab
- CHE 351 - Organic Chemistry I with Lab
- CHE 352 - Organic Chemistry II with Lab
- CHE 443 - Biochemistry I with Lab
- MAT 245 - Analytical Geometry and Calculus I
- PHY 214 - Physics I
- PHY 214L - Physics I Lab
- PHY 224 - Physics II
- PHY 224L - Physics II Lab

### Pre-Pharmacy (39 units)

- BIO 148 - General Biology II with Lab
- BIO 153 - Anatomy and Physiology I
- BIO 153L - Anatomy and Physiology I Lab
- BIO 163 - Anatomy and Physiology II
- BIO 163L - Anatomy and Physiology II Lab
- BUS 217 - Microeconomics **OR**
- BUS 218 - Macroeconomics
- CHE 351 - Organic Chemistry I with Lab
- CHE 352 - Organic Chemistry II with Lab
- CHE 443 - Biochemistry I with Lab
- MAT 245 - Analytical Geometry and Calculus I

- PHY 214 - Physics I
- PHY 214L - Physics I Lab
- PHY 224 - Physics II
- PHY 224L - Physics II Lab

#### Pre-Physician Assistant (23 units)

- BIO 153 - Anatomy and Physiology I
- BIO 153L - Anatomy and Physiology I Lab
- BIO 163 - Anatomy and Physiology II
- BIO 163L - Anatomy and Physiology II Lab
- HSC 410 - Health Behavior Change
- HSC 420 - Health Care Policy
- NFS 310 - Community and Public Health Nutrition
- PSY 346 - Abnormal Psychology
- SPA 110 - Spanish for Health Care Professionals I

#### Public Health and Population Medicine (18 units)

- HSC 312 - Principles of Environmental and Occupational Health
- HSC 410 - Health Behavior Change
- HSC 412 - Health and Wellness Coaching
- HSC 420 - Health Care Policy
- NFS 310 - Community and Public Health Nutrition
- SPA 110 - Spanish for Health Care Professionals I

### **Healthcare Administration and Management, BS (Online)**

The Bachelor of Science in Healthcare Administration and Management incorporates healthcare administration, business, leadership, and health science courses to prepare students for entry level administrative roles in all facets of the healthcare industry. This faith based curriculum prepares graduates for challenging administrative positions in a variety of health care settings, including hospitals and health systems, outpatient centers and clinics, long-term care facilities, consulting firms, pharmaceutical companies, or medical supply and equipment manufacturers. Graduates are also prepared for further education in Master level programs in Business Administration, Health/Hospital Administration, and Public Health.

#### Online Major Program Requirements (48 units)

##### Prerequisites to Program

- ENG 113 - Composition
- ENG 123 - Intermediate Composition

##### Lower Division Requirements

- ACC 250 - Principles of Accounting I
- HSC 104 - Survey of U.S. Health Care Delivery
- HSC 210 - Ethics in Health Care

## Upper Division Requirements

- BUS 337 - Management with Biblical Foundation (meets upper division CST requirement)
- BUS 343 - Human Resource Management
- BUS 463 - Business and Organizational Management
- COM 425 - Organizational Communication
- HCA 330 - Health Information Systems
- HCA 360 - Finance and Reimbursement in Healthcare
- HCA 405 - Quality Management in Healthcare
- HSC 306 - Pathophysiology for Public Health
- HSC 316 - Public Health Promotion, Disease Prevention and Intervention
- HSC 420 - Health Care Policy
- LDR 310 - Leadership Theory
- MKT 333 - Principles of Marketing

## Additional Program Course

- CST 100 - Overview of the Bible

## Healthcare Administration, BS

Through the integration of healthcare specific and business coursework, taught through a Christian worldview, the Bachelor of Science in Healthcare Administration, with a minor in Business Administration, prepares students for entry level administrative roles in all facets of the healthcare industry. This faith based curriculum prepares graduates for challenging administrative positions in a variety of health care settings, including hospitals and health systems, outpatient centers and clinics, long-term care facilities, consulting firms, pharmaceutical companies, or medical supply and equipment manufacturers. Graduates are also prepared for further education in Master level programs in Business Administration, Health/Hospital Administration, and Public Health.

## Traditional Major Program Requirements (48 units)

### Lower Division Requirements

- BIO 173 - Medical Terminology
- BUS 217 - Microeconomics
- BUS 218 - Macroeconomics
- HSC 100 - Introduction to the Health Science Professions
- HSC 104 - Survey of U.S. Health Care Delivery
- STA 144 - Introduction to Statistics

### Upper Division Requirements

- BUS 343 - Human Resource Management
- HCA 330 - Health Information Systems
- HCA 360 - Finance and Reimbursement in Healthcare
- HCA 410 - Quality Improvement in Healthcare
- HCA 450 - Healthcare Legal Issues and Ethics
- HCA 490 - Current Issues in Healthcare Administration
- HCA 499 - Healthcare Administration Capstone **OR**
- HSC 495 - Practicum
- HSC 300 - Health Communication
- HSC 305 - Epidemiology
- HSC 420 - Health Care Policy
- PAD 451 - Executive Leadership and Management

## Minor Requirement

Students must declare and complete all requirements for the Business Administration Minor.

## Nutrition and Food Sciences, BS

The Nutrition and Food Sciences major prepares students for careers in human nutrition, food science, food technology, and food management and processing. This program will also provide students with the necessary background to pursue advanced degrees in dietetics, public health, or food science and technology.

## Traditional Major Program Requirements (72 units)

### Lower Division Requirements

- BIO 153 - Anatomy and Physiology I
- BIO 153L - Anatomy and Physiology I Lab
- BIO 163 - Anatomy and Physiology II
- BIO 163L - Anatomy and Physiology II Lab
- BIO 205 - Human Microbiology
- BIO 205L - Human Microbiology Lab
- CHE 112 - Organic and Biochemistry for Health Sciences
- CHE 112L - Organic and Biochemistry for Health Sciences Lab
- CHE 115 - General Chemistry I
- CHE 115L - General Chemistry I Lab
- HSC 100 - Introduction to the Health Science Professions
- NFS 101 - Introduction to Nutrition and Food Sciences
- PSY 213 - General Psychology
- STA 144 - Introduction to Statistics

### Upper Division Requirements

- HSC 406 - Food Safety and Consumer Protection
- HSC 410 - Health Behavior Change
- HSC 480 - Research Methods
- HSC 495 - Practicum **OR**
- HSC 499 - Health Science Capstone
- NFS 300 - Lifecycle Nutrition
- NFS 310 - Community and Public Health Nutrition
- NFS 315 - Experimental Foods
- NFS 320 - Nutritional Biochemistry
- NFS 400 - Special Topics in Nutrition and Food Sciences
- NFS 420 - Quantity Food Management
- NFS 455 - Medical Nutrition Therapy I
- NFS 460 - Human Nutrition Assessment Lecture
- NFS 465 - Medical Nutrition Therapy II
- NFS 475 - Advanced Human Nutrition

## **Public Health, BS**

The Public Health major prepares students to plan, implement, and evaluate health education and promotion programs in schools, communities, and internationally. The program provides a core foundation in epidemiology, environmental health, health behavior change, disease prevention, health education methods, research methods, ethics, management, and leadership. This major allows for professional certification preparation within entities such as the National Commission on Health Education Credentialing (CHES), the National Board of Public Health Examiners (CPH), and the Registered Environmental Health Specialist (REHS). Students will be prepared for postgraduate study in public health, health management, social sciences, medicine, or other allied health professions.

## **Traditional Major Program Requirements (56-76 units)**

### **Lower Division Requirements**

- BIO 153 - Anatomy and Physiology I
- BIO 153L - Anatomy and Physiology I Lab
- HSC 100 - Introduction to the Health Science Professions
- HSC 101 - Introduction to Public Health
- HSC 104 - Survey of U.S. Health Care Delivery
- INH 101 - Introduction to International Health
- PSY 213 - General Psychology
- STA 144 - Introduction to Statistics

### **Upper Division Requirements**

- HSC 305 - Epidemiology
- HSC 312 - Principles of Environmental and Occupational Health
- HSC 413 - Program Planning and Implementation
- HSC 418 - Program Evaluation

- HSC 420 - Health Care Policy
- HSC 480 - Research Methods
- INH 300 - Outbreak and Emergency Preparation and Response

## Concentration Courses (15-35 units)

Students must complete all requirements in one of the following concentrations: Environmental Health; Health Education and Promotion

### Environmental Health (35 units)

- BIO 146 - General Biology I with Lab
- BIO 148 - General Biology II with Lab
- BIO 305 - Microbiology with Lab
- CHE 115 - General Chemistry I
- CHE 115L - General Chemistry I Lab
- HSC 406 - Food Safety and Consumer Protection
- HSC 415 - Water and Air Quality Inspection and Management
- HSC 485 - Environmental Sampling and Analysis
- MAT 145 - Mathematical Methods in the Natural Sciences
- PAD 493 - Principles of Public Administration
- PHY 214 - Physics I
- PHY 214L - Physics I Lab

### Health Education and Promotion (15 units)

- HSC 300 - Health Communication
- HSC 421 - Methods in Health Education
- HSC 410 - Health Behavior Change
- HSC 495 - Practicum **OR**
- HSC 499 - Health Science Capstone
- NFS 310 - Community and Public Health Nutrition

## Public Health, BS (Online)

The Public Health major prepares students to plan, implement, and evaluate health education and promotion programs in schools, communities, and internationally. The program provides a core foundation in epidemiology, environmental health, health behavior change, disease prevention, health education methods, research methods, ethics, management, and leadership. This major allows for professional certification preparation within entities such as the National Commission on Health Education Credentialing (CHES), the National Board of Public Health Examiners (CPH), and the Registered Environmental Health Specialist (REHS). Students will be prepared for postgraduate study in public health, health management, social sciences, medicine, or other allied health professions.

## Online Major Program Requirements (48 units)

## Prerequisites to Program

- ENG 113 - Composition
- ENG 123 - Intermediate Composition
- MAT 115 - Intermediate Algebra
- PSY 213 - General Psychology
- Biology course (BIO 143 or higher)
- Chemistry course (CHE 102 or higher)
- Biology or Chemistry Lab (1 unit)

## Lower Division Requirements

- HSC 101 - Introduction to Public Health
- HSC 104 - Survey of U.S. Health Care Delivery
- HSC 210 - Ethics in Health Care
- STA 144 - Introduction to Statistics

## Upper Division Requirements

- HSC 301 - Principles of Health Education
- HSC 305 - Epidemiology
- HSC 306 - Pathophysiology for Public Health
- HSC 312 - Principles of Environmental and Occupational Health
- HSC 316 - Public Health Promotion, Disease Prevention and Intervention
- HSC 320 - Public Health Nutrition and Physical Activity
- HSC 450 - Curriculum Design in Health Education
- HSC 460 - Planning and Evaluating Health Education Programs
- HSC 480 - Research Methods
- KIN 302 - Contemporary Health Issues

## Additional Program Courses

- CST 100 - Overview of the Bible
- CST 300-400 Upper Division Christian Studies (3 units)

## Minor

### Health Science Minor

California Baptist University's Health Science minor provides students from other disciplines the opportunity to explore foundational elements of health science and healthcare delivery, including courses in epidemiology, public health, medical terminology, and health care policy. This minor is an excellent complement to existing CBU majors including nursing, biology, and business administration.

## Traditional Minor Program Requirements (22 units)

### Lower Division Requirements

- BIO 173 - Medical Terminology
- HSC 100 - Introduction to the Health Science Professions
- HSC 104 - Survey of U.S. Health Care Delivery

### Upper Division Requirements

- HSC 305 - Epidemiology
- HSC 306 - Pathophysiology for Public Health
- HSC 420 - Health Care Policy
- INH 300 - Outbreak and Emergency Preparation and Response
- KIN 302 - Contemporary Health Issues

## **Nutrition Minor**

The minor in Nutrition is available to student pursuing undergraduate degrees at California Baptist University. Students who may be interested in completing the minor include those pursuing degrees in Public Health, Health Science, Nursing, Exercise Science, and Kinesiology. The minor is intended to increase knowledge and understanding of basic nutrition, food science, and nutritional-related issues.

## Traditional Minor Program Requirements (21 units)

### Lower Division Requirement

- NFS 101 - Introduction to Nutrition and Food Sciences

### Upper Division Elective Requirements

Complete eighteen (18) units from the following:

- HSC 410 - Health Behavior Change
- NFS 300 - Lifecycle Nutrition
- NFS 310 - Community and Public Health Nutrition
- NFS 320 - Nutritional Biochemistry
- NFS 400 - Special Topics in Nutrition and Food Sciences
- NFS 455 - Medical Nutrition Therapy I
- NFS 460 - Human Nutrition Assessment Lecture



# College of Nursing

**Dr. Karen Bradley**

*Vice President, CBU Health  
Dean, College of Nursing*

**Dr. Lisa Bursch**

*Associate Dean, Division of Graduate Nursing*

**Dr. Angela Coaston**

*Associate Dean, Clinical Academic Practice Partnerships*

**Dr. Teresa Hamilton**

*Associate Dean, Division of Undergraduate Prelicensure Nursing*

**Dr. Dayna Herrera**

*Associate Dean, Division of Learning Environment and Innovation*

**Dr. Margaret Matthews**

*Director, ELMSN Program*

**Dr. Juliann Perdue**

*Associate Dean, Program Effectiveness*

**Dr. Pennee Robertson**

*Director, BSN Program*

**Sarah Millikan**

*Director, Nursing Student Services*  
Phone 951.552.8388  
nursing@calbaptist.edu

## Faculty Information

The mission of the California Baptist University College of Nursing is to educate competent, responsible, caring, and professional nurses prepared from a biblical worldview to serve locally, nationally and globally; revering the human dignity of all persons created in the image of God.

The purpose of the baccalaureate program leading to a Bachelor of Science in Nursing is to provide a curriculum that will broaden the theoretical knowledge base of the learner in preparation for professional nursing practice and future graduate nursing study.

Traditional Bachelor of Science in Nursing students complete Board of Registered Nursing (BRN) approved pre-licensure courses designed to prepare the students to take the National Council Licensure Examination (NCLEX-RN), and preparing them for a seamless transition into graduate nursing. The 14-week semesters are comprised of courses scheduled in a full-time delivery mode for the theoretical and practicum content required by the BRN. Students are advised that the program represents a very intensive, full-time commitment. The BSN program is accredited by the credentialing body of the American Association of Colleges of Nursing (AACN).

The RN-BSN program has two tracks. One designed for working, licensed RNs to advance their educational level. Another for current Associate Degree Nursing (ADN) students concurrently enrolled in a program at a university or college. The programs are offered in a hybrid format.

The AACN Domains of Baccalaureate Education in Nursing guide the BSN coursework in order to prepare graduates for the role of the baccalaureate generalist nurse including: provider of care, designer/manager/coordinator of care, and

member of the nursing profession. The BSN curriculum includes both direct and indirect care for individuals, families, groups, communities, and populations.

## **Major**

### **Nursing, BSN**

A Bachelor of Science in Nursing will provide a curriculum that will broaden the theoretical knowledge base of the learner in preparation for an entry-level professional nursing practice and possibility of graduate nursing study.

Students must submit an application to the College of Nursing and be accepted to enroll in the Bachelor of Science in Nursing program. Coursework for credit toward the degree must be passed with a minimum grade of C or higher.

## **Admission Requirements**

### **Bachelor of Science in Nursing Admission Requirements**

First-time freshmen and transfer students interested in pursuing a Bachelor of Science in Nursing (BSN) are admitted to the University as pre-nursing students, and must complete the required prerequisite courses to be considered for the nursing major. Students may be selected for admission to the nursing major each fall and spring semester. Selection is made through a holistic application review.

A 30-unit LVN option is available on a space and course availability basis. California Baptist University College of Nursing has a process in place for a student to obtain credit for previous education or other acquired knowledge in the field of nursing, including military education and experience, through equivalence, challenge examinations, or other methods of evaluation.

Acceptance to California Baptist University. Admission standards for Undergraduate Studies at California Baptist University can be found in the Admissions section of the University Catalog

A minimum 3.0 cumulative Grade Point Average and 2.8 science Grade Point Average

Prerequisites. All prerequisites must be completed with a grade of C or higher

- Composition

- Intermediate Composition

- Intermediate Algebra or Introductory Statistics

- Oral Communication or Interpersonal Communications

- Lifespan Development

- Fundamentals of Chemistry

- Organic and Biochemistry for Health Sciences with Lab

- Human Anatomy/Physiology with Lab (2 semesters)

- Human Microbiology with Lab

Nursing Program Online Application, transcripts, and two letters of recommendation

### **Post-Admissions Requirements:**

Proof of Identification

Clearances:

- Background Check Clearance

- Health Clearance

- Drug Testing

- CPR Certification

- Proof of Health Insurance

## Pre-Nursing Studies

The following pre-nursing requisites are offered at California Baptist University. It is strongly recommended that students admitted as provisional or placed on academic probation take no more than one science course during the semester.

- BIO 153 - Anatomy and Physiology I
- BIO 153L - Anatomy and Physiology I Lab
- BIO 163 - Anatomy and Physiology II
- BIO 163L - Anatomy and Physiology II Lab
- BIO 205 - Human Microbiology
- BIO 205L - Human Microbiology Lab
- CHE 102 - Fundamentals of Chemistry
- CHE 112 - Organic and Biochemistry for Health Sciences
- CHE 112L - Organic and Biochemistry for Health Sciences Lab
  
- COM 113 - Oral Communication **OR**
- COM 308 - Interpersonal Communications
  
- ENG 113 - Composition **OR**
- ENG 113E - Enriched Composition
  
- ENG 123 - Intermediate Composition **OR**
- ENG 123E - Enriched Intermediate Composition
  
- MAT 115 - Intermediate Algebra *OR*
- STA 144 - Introduction to Statistics
- PSY 120 - Lifespan Development for the Health Professions

## Traditional Degree Program Requirements (124 units)

A Bachelor of Science in Nursing will provide a curriculum that will broaden the theoretical knowledge base of the learner in preparation for an entry-level professional nursing practice and possibility of graduate nursing study.

Students must submit an application to the College of Nursing and be accepted to enroll in the Bachelor of Science in Nursing program. Coursework for credit toward the degree must be passed with a minimum grade of C or higher.

## General Education Courses

The general education requirements will follow the curriculum set forth for other University degree programs. Some general education requirements will be met through specific Nursing major requirements.

## Lower Division Major Requirements

- ANT 225 - Cultural Anthropology **OR**

- ANT 315 - Health and Holistic Healing
- NUR 201 - Theoretical Foundations in Nursing
- NUR 215 - Fundamental Skills for Nursing Practice
- NUR 216 - Fundamental Skills for Nursing Practice Practicum
- NUR 235 - Physical Assessment
- NUR 237 - Physical Assessment Practicum
- NUR 255 - Adult Health I
- NUR 256 - Adult Health I Practicum

## Upper Division Major Requirements

- NUR 301 - Communication and Informatics in Nursing Practice
- NUR 318 - PathoPharm I
- NUR 319 - PathoPharm II
- NUR 325 - Nursing Services with the Childbearing Family
- NUR 326 - Nursing Services with the Childbearing Family Practicum
- NUR 335 - Nursing Services with the Childrearing Family
- NUR 336 - Nursing Services with Childrearing Families Practicum
- NUR 355 - Mental Health Nursing
- NUR 356 - Mental Health Nursing Practicum
- NUR 375 - Research and Writing for the Health Care Professional
- NUR 420 - Community and Public Health Nursing
- NUR 421 - Community and Public Health Nursing Practicum
- NUR 430 - Transcultural Patterns of Health
- NUR 440 - Adult Health II
- NUR 441 - Adult Health II Practicum
- NUR 450 - Nursing Services for the Older Adult and Family
- NUR 451 - Nursing Practicum with the Older Adult and Family
- NUR 460 - Ethics and Issues in Health Care
- NUR 470 - Christian Leadership in Nursing
- NUR 471 - Christian Leadership in Nursing Practicum
- NUR 494 - NCLEX Review
- NUR 499 - Senior Capstone Practicum
- PSY 345 - Abnormal Psychology for Nurses

## Nursing, RN-BSN (Online)

The RN to BSN program has two pathway options designed to complete a degree in 12-16 months, depending on transferable units. The RN-BSN Bridge pathway is for California licensed Registered Nurses and the RN-BSN Accelerated pathway is for eligible students currently enrolled in a regionally-accredited Associate Degree Nursing (ADN) program. The fully online program increases students' professional knowledge, enhances leadership and sharpens critical thinking skills. The degree completion program is an important step toward reaching your professional goals, whether you plan to continue practicing at the bedside, transition to a new specialization or pursue graduate studies. Consistent with CBU's faith-based mission, the nursing curriculum emphasizes a holistic perspective utilizing the Humanbecoming Paradigm as a nursing theory for professional practice.

# Admission Requirements

## Bachelor of Science in Nursing Admission Requirements

Nursing, RN-BSN Pathways

- RN-BSN Bridge (Licensed RN)
- RN-BSN Accelerated (Current ADN Students)

### I. RN-BSN Bridge

#### **Bachelor of Science in Nursing Admission Requirements**

This program is designed for California licensed Registered Nurses who hold an Associate degree in nursing who are seeking to obtain a Bachelor of Science in Nursing degree in the RN to BSN degree completion program by fulfilling the required coursework and practicum hours.

Students interested in applying to the RN-BSN program must meet the following admissions requirements:

- Acceptance to California Baptist University. Admission standards for Undergraduate Studies at California Baptist University can be found in the Admissions section of the University Catalog.
- An Associate's degree from an accredited institution recognized by the U.S. Department of Education and/or the Council for Higher Education Accreditation or the evaluated equivalency.
- Current, unencumbered California Registered Nursing (RN) License
- A minimum 2.0 Grade Point Average from an accredited college or university
- Official sealed transcripts from all colleges and universities attended
- Complete College of Nursing Clearances

### II. Nursing, RN-BSN Accelerated Program

#### **Admission Requirements**

This program admits eligible students enrolled in a California regionally-accredited Associate Degree nursing program to the RN to BSN program. The curriculum is designed to provide a bridge for accelerated degree completion.

*\*Students obtain eligibility to apply for the NCLEX licensing exam through their enrolled respective ADN program.*

Students interested in applying to the RN-BSN program must meet the following admissions requirements:

- Acceptance to California Baptist University. Admission standards for Undergraduate Studies at California Baptist University can be found in the Admissions section of the University Catalog.
- Accepted and successfully progressing in an accredited institution recognized by the U.S. Department of Education and/or the Council for Higher Education Accreditation.
- A minimum 2.0 Grade Point Average
- Official sealed transcripts from all colleges and universities attended.
- Complete College of Nursing Clearances.

#### **Prerequisite to Program**

- Anatomy /Physiology with a lab, microbiology with a lab, and chemistry with a lab

## Online Major Program Requirements (124 units)

### Prerequisite to Program

- Current United States Registered Nursing License

### Upper Division Requirements (31 units)

\* Meet General Education Requirements

- NUR 300 - Theoretical Foundations and Interprofessional Communication
- NUR 301 - Communication and Informatics in Nursing Practice
- NUR 315 - Pathophysiology
- NUR 327 - Health Assessment and Promotion
- NUR 375 - Research and Writing for the Health Care Professional
- NUR 420 - Community and Public Health Nursing
- NUR 421 - Community and Public Health Nursing Practicum
- NUR 460 - Ethics and Issues in Health Care
- NUR 470 - Christian Leadership in Nursing
- NUR 471 - Christian Leadership in Nursing Practicum

### Elective Requirements (6 units)

Complete six (6) elective units. Please see your advisor for a list of semester options.

# Dr. Robert K. Jabs School of Business

## **Dr. Tim Gramling**

*Vice President for Diversity*

*Dean, Dr. Robert K. Jabs School of Business*

## **Dr. Marina Girju**

*Associate Dean, Marketing and Analytics Division*

## **Dr. Tad Hove**

*Assistant Dean, Management Division*

## **Ms. Delores Washington**

*Administrative Assistant*

Phone 951.343.4329

[dwashington@calbaptist.edu](mailto:dwashington@calbaptist.edu)

## **Faculty Information**

We believe that business can honor God and people while still making a profit. Our mission is to prepare a new generation of business leaders with the knowledge, real-world skills, and nurtured talents to successfully live out their purpose in the modern marketplace. We prepare our graduates to contribute to society's need for trustworthy organizational leaders who restore hope that business has a valuable role in our world. Because we are created in the image of God and He has good work for us to do, we affirm that business is to create and supply with integrity the products and services that meet the needs of people everywhere. In this pursuit, we teach our students that personal development, profit, and economic growth are at their best when they energize the creation of value in individual lives, families, neighborhoods, communities, and thriving enterprises.

The School of Business provides a variety of programs that prepare students to be competitive in the workforce. Undergraduate majors include Accounting, Business Administration, Entrepreneurship, Finance, International Business, Leadership Studies, and Marketing. Concentrations within the Business Administration major include: Entrepreneurship, Family Business Management, Finance, Management, Real Estate, Social Entrepreneurship, Strategic Business Analysis and Insights and Human Resource Management.

In addition to courses that provide students with in-depth strategic, theoretical, and leadership skills, students experience real-world application through hands-on, applied projects with local companies and non-profit organizations. Additional learning opportunities within the School of Business include its various clubs, such as the Accounting Society, Marketing Club and Investment Group, as well as events and networking opportunities throughout the academic year. All these enable students to connect with business leaders and mentors. Students can also take advantage of the school's employer database to obtain internships and working experience.

Upon graduation, many of our students can easily further their graduate studies in the School of Business with a Master of Business Administration with concentrations in Accounting, Healthcare Administration, and Management. These programs are all accredited by the Accreditation Council for Business Schools and Programs (ACBSP). The School of Business also offers the Master of Science in Information Technology Management with concentrations in Business Analytics, and Information Systems. The Business Analytics program provides each student with SAS certification upon completion of their program. The Masters in Leadership and Management Studies degree prepares students for effective and ethical leadership that is highly sought after in the current global business market. Students in the MBA program participate in a global business trip experience with faculty and their colleagues as part of their tuition. Graduates are employed as executives, accountants, financial managers, business owners, entrepreneurs, marketing professionals, government officials and non-profit leaders.

# Division of Leadership

**Dr. Tim Gramling**

*Dean*

**Ms. Delores Washington**

*Administrative Assistant*

Phone 951.343.4329

[dwashington@calbaptist.edu](mailto:dwashington@calbaptist.edu)

## Faculty Information

## Major

### Leadership Studies, BA

The Leadership Studies major is designed as a complimentary second major. To earn the Leadership Studies major students must first declare a primary major program of study and complete all requirements for both majors.

### Traditional Major Program Requirements (36 units)

#### Upper Division Requirements

- LDR 310 - Leadership Theory
- LDR 330 - Personal Leadership
- LDR 350 - Communication Principles for Leadership
- LDR 410 - Ethical and Biblical Principles for Leadership
- LDR 430 - Decision Making and Leadership
- LDR 450 - Culture and Leadership
- LDR 470 - Groups and Leadership
- LDR 491 - Internship

#### Upper Division Elective Requirements

- Complete twelve (12) additional upper division units

#### Major Requirement

- Declaration of another major program as the primary major

### Organizational Leadership, BA (Online)

The Bachelor of Arts in Organizational Leadership prepares students with tools to lead effective change in companies, grow small-business ideas, and manage productive teams. It is a practical degree that covers such topics as complex



problem solving, teamwork, critical thinking, decision making, communication, and conflict management. Graduates will be prepared to excel and manage in the workplace while integrating ethical principles and to strengthen the foundation of companies in both private and public sectors.

## Online Major Program Requirements (48 units)

### Prerequisites to Program

- ENG 113 - Composition
- ENG 123 - Intermediate Composition

### Upper Division Requirements

- BUS 343 - Human Resource Management
- BUS 463 - Business and Organizational Management
- COM 308 - Interpersonal Communications
- LDR 310 - Leadership Theory
- LDR 330 - Personal Leadership
- LDR 350 - Communication Principles for Leadership
- LDR 410 - Ethical and Biblical Principles for Leadership
- LDR 430 - Decision Making and Leadership
- LDR 450 - Culture and Leadership
- LDR 470 - Groups and Leadership
- ORG 300 - Introduction to Leadership
- ORG 340 - Conflict Resolution and Negotiation for Leaders
- ORG 452 - Change Management and Organizational Design
- ORG 475 - Strategic Project Management for Leaders

### Additional Program Courses

- CST 100 - Overview of the Bible
- CST 300-400 Upper Division Christian Studies (3 units)

## Minor

### Leadership Studies Minor

The Leadership Studies minor equips students with the foundational knowledge and skills to effectively serve in a variety of formal and informal leadership roles. The minor is designed to enhance students' competitiveness in the labor market as a strategic complement to any major.

## Traditional Minor Program Requirements (18 units)

### Upper Division Requirements

- LDR 310 - Leadership Theory
- LDR 330 - Personal Leadership

## Upper Division Elective Requirements

Complete twelve (12) upper division units from the following:

- LDR 430 - Decision Making and Leadership
- LDR 450 - Culture and Leadership
- LDR 470 - Groups and Leadership
- LDR 480 - Communication for Leadership
- LDR 481 - Cross Boundary Communication
- LDR 482 - Leading Change in the Workplace
- LDR 483 - Leading People With Emotional Intelligence
- LDR 484 - The Art of Stewardship Leadership
- LDR 485 - Women and Leadership

## Certificate

### Leadership Studies Certificate

The Leadership Studies Certificate is issued by the Office of the University Registrar upon student request and completion of the below courses.

### Traditional Certificate Program Requirements (12 units)

#### Upper Division Requirements

- LDR 310 - Leadership Theory
- LDR 330 - Personal Leadership
- LDR 480 - Communication for Leadership
- LDR 481 - Cross Boundary Communication
- LDR 482 - Leading Change in the Workplace
- LDR 483 - Leading People With Emotional Intelligence
- LDR 484 - The Art of Stewardship Leadership
- LDR 485 - Women and Leadership

# Division of Management

**Dr. Tad Hove**

*Assistant Dean*

**Ms. Delores Washington**

*Administrative Assistant*

Phone 951.343.4329

[dwashington@calbaptist.edu](mailto:dwashington@calbaptist.edu)

## Faculty Information

## Major

### Business Administration, BA (Online)

The online Bachelor of Arts in Business Administration degree equips working professionals with highly sought-after skills in the current business marketplace. Students who join this program will learn in an environment that promotes critical thinking, management training, and current topics in private and public sector business communities. Students in the program will also learn to excel and manage in the workplace while integrating ethical principles and integrity to strengthen the foundation of companies in both the private and public sectors.

### Online Major Program Requirements (48 units)

#### Prerequisites to Program

- BUS 218 - Macroeconomics
- CIS 270 - Business IT Application
- ENG 113 - Composition
- ENG 123 - Intermediate Composition
- MAT 115 - Intermediate Algebra

#### Lower Division Requirements

- ACC 250 - Principles of Accounting I
- ACC 251 - Principles of Accounting II
- BUS 217 - Microeconomics

#### Upper Division Requirements

- BUS 303 - Business Finance
- BUS 315 - Business Statistics
- BUS 337 - Management with Biblical Foundation (meets Upper Division CST requirement)
- BUS 358 - Business Law

- BUS 440 - Quantitative Business Analysis
- BUS 463 - Business and Organizational Management
- BUS 485 - Business Policy and Strategy
- MKT 333 - Principles of Marketing

## Concentration Courses (12 units)

Students must complete one of the following concentrations: Logistics and Operations; Management

### Logistics and Operations

- BUS 341 - Operations Management
- BUS 352 - Global Supply Chain Management
- BUS 452 - Logistics Planning and Controlling
- BUS 475 - Project and Team Management

### Management

- BUS 334 - International Business
- BUS 343 - Human Resource Management
- BUS 356 - Business Communication Strategies
- LDR 430 - Decision Making and Leadership

## Additional Program Courses

- CST 100 - Overview of the Bible

## **Business Administration, BS**

The Business Administration major prepares students for leadership in small and large businesses, not-for-profit and governmental organizations, and entrepreneurial enterprises.

## Traditional Major Program Requirements (60 units)

### Lower Division Core Business Requirements

- ACC 250 - Principles of Accounting I
- ACC 251 - Principles of Accounting II
- BUS 101 - Introduction to Business
- BUS 217 - Microeconomics
- BUS 218 - Macroeconomics
- BUS 237 - Management Based on Biblical Principles
- CIS 270 - Business IT Application

## Upper Division Core Business Requirements

- BUS 303 - Business Finance
- BUS 315 - Business Statistics
- BUS 334 - International Business
- BUS 356 - Business Communication Strategies
- BUS 358 - Business Law
- BUS 440 - Quantitative Business Analysis
- BUS 463 - Business and Organizational Management
- BUS 485 - Business Policy and Strategy
- MKT 333 - Principles of Marketing

## Concentration Courses (12 units)

Students must complete all requirements in one of the following concentrations: Entrepreneurship; Family Business Management; Human Resources Management; Logistics and Operations; Management; Real Estate Management; Social Entrepreneurship; Strategic Business Analysis and Insights

### Entrepreneurship (12 units)

- ENT 357 - Small Business Management
- ENT 442 - Opportunity and the Lean Startup
- ENT 462 - Entrepreneurial Behavior and Leadership

### Entrepreneurship Elective Requirement

Complete three (3) additional units from the following:

- BUS 374 - Entrepreneurial Finance
- BUS 435 - Leadership in Organizations
- BUS 464 - Family Business Management
- BUS 489 - Business Practicum
- BUS 491 - Internship in Business
- ENT 362 - Social Entrepreneurship

### Family Business Management (12 units)

- BUS 464 - Family Business Management
- ENT 357 - Small Business Management
- ENT 462 - Entrepreneurial Behavior and Leadership
- LDR 470 - Groups and Leadership

### Human Resources Management (12 units)

- BUS 343 - Human Resource Management

- BUS 457 - Negotiation and Conflict Resolution
- LDR 470 - Groups and Leadership
- PSY 388 - Industrial and Organizational Psychology

### Logistics and Operations (12 units)

- BUS 341 - Operations Management
- BUS 352 - Global Supply Chain Management
- BUS 452 - Logistics Planning and Controlling
- BUS 475 - Project and Team Management

### Management (12 units)

- BUS 343 - Human Resource Management
- ENT 357 - Small Business Management

### Management Elective Requirement

Complete three (3) additional units from the following:

- BUS 345 - Nonprofit Management
- BUS 435 - Leadership in Organizations
- BUS 454 - International Management
- BUS 464 - Family Business Management
- BUS 475 - Project and Team Management

### Management Additional Elective Requirement

Complete three (3) additional units from the following:

- BUS 345 - Nonprofit Management
- BUS 435 - Leadership in Organizations
- BUS 454 - International Management
- BUS 464 - Family Business Management
- BUS 475 - Project and Team Management
- BUS 489 - Business Practicum
- BUS 491 - Internship in Business

### Real Estate Management (12 units)

- REM 301 - Real Estate Principles
- REM 336 - Real Estate Practice
- REM 406 - Real Estate Law
- REM 436 - Real Estate Finance

## Social Entrepreneurship (12 units)

- BUS 363 - Microfinance
- ENT 362 - Social Entrepreneurship
- ENT 442 - Opportunity and the Lean Startup

## Social Entrepreneurship Elective Requirement

Complete three (3) additional units from the following:

- BUS 345 - Nonprofit Management
- BUS 489 - Business Practicum
- BUS 491 - Internship in Business
- ICS 375 - Human Rights

## Strategic Business Analysis and Insights (12 units)

- BUS 380 - Business Analytics Visualization and Strategy
- BUS 381 - Spatial Analytics in Business
- BUS 480 - Business Models and Analytics
- BUS 481 - Design Thinking in Business Analysis

## Computer Information Technology, BS (Online)

The online Bachelor of Science in Computer Information Technology degree equips students for significant roles in the strategic success of organizations and their technology operations. Students will acquire knowledge in various computer technology disciplines, including Internet applications, databases, networking applications, programming, project management, and computer security. Computer information technology courses give students an outstanding technology foundation in several areas, building skills in strategy, innovative problem-solving, and critical thinking relevant to today's global technology environment.

## Online Major Program Requirements (48 units)

### Prerequisites to Program

- ENG 113 - Composition
- ENG 123 - Intermediate Composition
- MAT 115 - Intermediate Algebra

### Lower Division Requirement

- EGR 121 - Introduction to Computer Programming in C++

### Upper Division Requirements

- CIT 320 - Enterprise Architecture
- CIT 330 - Project Management
- CIT 340 - System Analysis and Design
- CIT 350 - Foundations of Information Systems
- CIT 360 - Legal and Ethical Practices in Information Technology
- CIT 370 - Database Design and Processing
- CIT 380 - Computer and Network Security
- CIT 430 - Python Dev and Data Structures
- CIT 440 - Web Application Development
- CIT 450 - E-Commerce Systems Development
- CIT 460 - Business Networking
- CIT 465 - Advanced Business Networking
- CIT 470 - Information Processing Systems

### Additional Program Courses

- CST 100 - Overview of the Bible
- CST 300-400 Upper Division Christian Studies (3 units)

## **Cybersecurity, BS (Online)**

### Online Major Program Requirements (48 units)

#### Prerequisites to Program

- CIS 265 - Information Systems Essentials **OR**
- CIS 270 - Business IT Application
- ENG 113 - Composition
- ENG 123 - Intermediate Composition
- MAT 115 - Intermediate Algebra
- STA 144 - Introduction to Statistics

#### Lower Division Requirements

- CYB 220 - Security by Design
- EGR 121 - Introduction to Computer Programming in C++

#### Upper Division Requirements

- CIT 360 - Legal and Ethical Practices in Information Technology
- CIT 380 - Computer and Network Security
- CIT 460 - Business Networking
- CYB 390 - Database Security



- CYB 410 - Defensive Security
- CYB 420 - Offensive Security
- CYB 430 - Computer Forensics
- CYB 440 - Cybersecurity Management
- CYB 470 - Network Defense
- CYB 480 - Essential Tenets of Cybersecurity
- CYB 495 - Cybersecurity Capstone
- NAM 320 - Computer and Operating Systems Architecture

### Additional Program Courses

- CST 100 - Overview of the Bible
- CST 300-400 Upper Division Christian Studies (3 units)

## Entrepreneurship, BS

The Entrepreneurship major prepares students not majoring in Business Administration, Marketing or Accounting for: recognizing opportunities; acting entrepreneurially; communicating ideas using foundational language, concepts, and techniques of business; leading a new entrepreneurial venture.

### Traditional Major Program Requirements (45-66 units)

#### Lower Division Requirements

- ACC 250 - Principles of Accounting I
- BUS 101 - Introduction to Business
- BUS 217 - Microeconomics
- BUS 237 - Management Based on Biblical Principles
- CIS 270 - Business IT Application

#### Upper Division Requirements

- BUS 303 - Business Finance
- BUS 334 - International Business
- BUS 358 - Business Law
- BUS 485 - Business Policy and Strategy
- ENT 357 - Small Business Management
- ENT 442 - Opportunity and the Lean Startup
- ENT 462 - Entrepreneurial Behavior and Leadership
- MKT 333 - Principles of Marketing

#### Upper Division Elective Requirement

Complete three (3) additional upper division units from the following:

- BUS 374 - Entrepreneurial Finance
- ENT 362 - Social Entrepreneurship

## Concentration Courses (18-21 units)

Students must complete all requirements for a second major, a minor, or the Business or Family Business Management concentration:

### Business (21 units)

- BUS 218 - Macroeconomics
- BUS 343 - Human Resource Management
- BUS 356 - Business Communication Strategies
- BUS 464 - Family Business Management
- BUS 491 - Internship in Business **OR**
- MKT 491 - Marketing Internship
- MKT 353 - Integrated Marketing Communications

### Elective Requirement

Complete three (3) additional units from the following:

- ACC 251 - Principles of Accounting II
- BUS 315 - Business Statistics
- BUS 463 - Business and Organizational Management

### Family Business Management (18 units)

- BUS 356 - Business Communication Strategies
- BUS 464 - Family Business Management
- LDR 430 - Decision Making and Leadership
- LDR 470 - Groups and Leadership
- MKT 443 - Personal Selling and Sales Management

### Elective Requirement

Complete three (3) additional units from the following:

- MKT 353 - Integrated Marketing Communications
- MKT 363 - Social Media and Content Marketing

## Minor

### Business Administration Minor

## Traditional Minor Program Requirements (24 units)

### Lower Division Requirements

- ACC 250 - Principles of Accounting I
- BUS 101 - Introduction to Business
- BUS 237 - Management Based on Biblical Principles

### Economics Requirement

Complete three (3) units from the following:

- BUS 212 - Economics, Life, and Society
- BUS 217 - Microeconomics
- BUS 218 - Macroeconomics

### Upper Division Requirements

- BUS 303 - Business Finance **OR**
- ENT 357 - Small Business Management
- BUS 345 - Nonprofit Management **OR**
- BUS 463 - Business and Organizational Management
- BUS 358 - Business Law
- MKT 333 - Principles of Marketing

## **Entrepreneurship Minor**

## Traditional Minor Program Requirements (21 units)

### Upper Division Requirements

- ENT 357 - Small Business Management
- ENT 442 - Opportunity and the Lean Startup
- ENT 462 - Entrepreneurial Behavior and Leadership
- MKT 333 - Principles of Marketing
- MKT 443 - Personal Selling and Sales Management

### Upper Division Elective Requirements

Complete six (6) additional upper division units from the following:

- BUS 359 - Intellectual Property Law
- BUS 464 - Family Business Management
- BUS 491 - Internship in Business

- ENT 362 - Social Entrepreneurship

## **Real Estate Minor**

### Traditional Minor Program Requirements (21 units)

#### Upper Division Requirements

- REM 301 - Real Estate Principles
- REM 336 - Real Estate Practice
- REM 406 - Real Estate Law
- REM 436 - Real Estate Finance
- MKT 333 - Principles of Marketing
- MKT 363 - Social Media and Content Marketing
- MKT 443 - Personal Selling and Sales Management

# Division of Marketing and Analytics

**Dr. Marina Girju**

*Associate Dean*

**Ms. Delores Washington**

*Administrative Assistant*

Phone 951.343.4329

[dwashington@calbaptist.edu](mailto:dwashington@calbaptist.edu)

## Faculty Information

## Major

### Accounting, BS

The Accounting major prepares students for careers in public accounting, corporate accounting, managerial accounting, and government and not-for-profit accounting with curriculum that is specifically designed to prepare students for the CPA exam and accounting professions.

### Traditional Major Program Requirements (69 units)

#### Lower Division Core Business Requirements

- ACC 250 - Principles of Accounting I
- ACC 251 - Principles of Accounting II
- BUS 217 - Microeconomics
- BUS 218 - Macroeconomics
- BUS 237 - Management Based on Biblical Principles **OR**
- BUS 337 - Management with Biblical Foundation
  
- CIS 270 - Business IT Application

#### Upper Division Core Business Requirements

- BUS 303 - Business Finance
- BUS 315 - Business Statistics
- BUS 334 - International Business
- BUS 358 - Business Law
- BUS 440 - Quantitative Business Analysis
- BUS 463 - Business and Organizational Management
- BUS 485 - Business Policy and Strategy
- MKT 333 - Principles of Marketing

## Upper Division Accounting Requirements

- ACC 310 - Intermediate Accounting I
- ACC 311 - Intermediate Accounting II
- ACC 320 - Cost Accounting
- ACC 330 - Governmental and Non-Profit Accounting
- ACC 410 - Advanced Accounting
- ACC 420 - Accounting Information Systems
- ACC 430 - Federal Income Tax Accounting
- ACC 470 - Auditing
- ACC 480 - Accounting Ethics **OR**
- FIN 405 - Financial Analysis and Forecasting

## Accounting, BS (Online)

### Online Major Program Requirements (72 units)

#### Prerequisites to Program

- ENG 113 - Composition
- ENG 123 - Intermediate Composition
- MAT 115 - Intermediate Algebra

#### Lower Division Requirements

- ACC 250 - Principles of Accounting I
- ACC 251 - Principles of Accounting II
- BUS 217 - Microeconomics
- BUS 218 - Macroeconomics
- CIS 270 - Business IT Application

#### Upper Division Business Requirements

- BUS 237 - Management Based on Biblical Principles **OR**
- BUS 337 - Management with Biblical Foundation (meets Upper Division CST requirement)
- BUS 303 - Business Finance
- BUS 315 - Business Statistics
- BUS 334 - International Business
- BUS 358 - Business Law
- BUS 440 - Quantitative Business Analysis
- BUS 463 - Business and Organizational Management
- BUS 485 - Business Policy and Strategy

- MKT 333 - Principles of Marketing

## Upper Division Accounting Requirements

- ACC 310 - Intermediate Accounting I
- ACC 311 - Intermediate Accounting II
- ACC 320 - Cost Accounting
- ACC 330 - Governmental and Non-Profit Accounting
- ACC 410 - Advanced Accounting
- ACC 420 - Accounting Information Systems
- ACC 430 - Federal Income Tax Accounting
- ACC 470 - Auditing
- ACC 480 - Accounting Ethics

## Additional Program Courses

- CST 100 - Overview of the Bible

## **Finance, BS**

The Finance major is designed for students interested in stewardship of financial resources of individuals, corporations, or financial institutions. Program equips students with requisite concept and analytical tools to evaluate and develop solutions for new financial challenges facing our society. Preparation for variety of competing opportunities whether in corporate finance, insurance, banking or pursuing the Chartered Financial Analyst or Certified Financial Planner designations.

## Traditional Major Program Requirements (75 units)

### Lower Division Core Business Requirements

- ACC 250 - Principles of Accounting I
- ACC 251 - Principles of Accounting II
- BUS 217 - Microeconomics
- BUS 218 - Macroeconomics
- BUS 237 - Management Based on Biblical Principles
- CIS 270 - Business IT Application
- FIN 101 - Personal Financial Management

### Upper Division Core Business Requirements

- BUS 303 - Business Finance
- BUS 315 - Business Statistics
- BUS 356 - Business Communication Strategies
- BUS 358 - Business Law

- BUS 463 - Business and Organizational Management
- MKT 333 - Principles of Marketing

## Upper Division Finance Requirements

- ACC 430 - Federal Income Tax Accounting
- BUS 474 - International Business Finance
- COM 308 - Interpersonal Communications
- FIN 325 - Financial Markets and Institutions
- FIN 415 - Investments

## Upper Division Finance Elective Requirement

Complete three (3) units from the following:

- BUS 457 - Negotiation and Conflict Resolution
- BUS 464 - Family Business Management
- FIN 489 - Finance Practicum
- FIN 491 - Internship in Finance
- REM 436 - Real Estate Finance

## Concentration Courses (18 units)

Students must complete all requirements in one of the following concentrations: Corporate Accounting Finance; Financial Planning

### Corporate Accounting Finance

- ACC 310 - Intermediate Accounting I
- ACC 320 - Cost Accounting
- BUS 485 - Business Policy and Strategy
- FIN 310 - Intermediate Business Finance
- FIN 405 - Financial Analysis and Forecasting
- FIN 430 - Risk Management

### Financial Planning

- FIN 350 - Insurance Planning
- FIN 423 - Retirement Planning
- FIN 428 - Estate Planning
- FIN 485 - Financial Planning Capstone
- MKT 443 - Personal Selling and Sales Management
- PSY 458 - Motivation and Emotion

## International Business, BS



International Business is an area of study that continues to grow as world markets become increasingly interdependent. The major prepares students for careers in international business, international non-profit work, and international missionary work. The major is designed for students who want to be successful in the global marketplace by learning to interact and respect other cultures for successful cross-cultural engagement.

## Traditional Major Program Requirements (60-64 units)

### Lower Division Requirements

- ACC 250 - Principles of Accounting I
- ACC 251 - Principles of Accounting II
- BUS 101 - Introduction to Business
- BUS 217 - Microeconomics
- BUS 218 - Macroeconomics
- BUS 237 - Management Based on Biblical Principles
- CIS 270 - Business IT Application

### Upper Division Business Requirements

- BUS 303 - Business Finance
- BUS 315 - Business Statistics
- BUS 334 - International Business
- BUS 356 - Business Communication Strategies
- BUS 358 - Business Law
- BUS 440 - Quantitative Business Analysis
- BUS 463 - Business and Organizational Management
- BUS 485 - Business Policy and Strategy
- MKT 333 - Principles of Marketing

### Concentration Courses (12-16 units)

Students must complete all requirements in one of the following concentrations: International Business Administration; International Business Management

#### International Business Administration (12 units)

- BUS 352 - Global Supply Chain Management
- BUS 454 - International Management
- BUS 457 - Negotiation and Conflict Resolution
- MKT 444 - International Marketing

#### International Business Management (16 units)

- BUS 291 - International Business Practicum Prep I
- BUS 292 - International Business Practicum Prep II

- BUS 352 - Global Supply Chain Management
- BUS 391 - International Business Practicum Prep III
- BUS 392 - International Business Practicum Prep IV
- BUS 393 - International Business Internship Practicum
- BUS 454 - International Management
- MKT 444 - International Marketing

## **Marketing, BA (Online)**

The online Bachelor of Arts in Marketing degree equips students to pursue a rewarding marketing career. The marketing degree prepares students for various fields within the marketing profession, allowing graduates to be competitive in the workforce. Marketing students will receive a foundation in core business and professional competencies along with our advanced marketing curriculum. Coursework will prepare savvy professionals to evaluate market trends, identify consumer needs, develop pricing strategies, and promote products and services for their organization.

## **Online Major Program Requirements (48 units)**

### **Prerequisites to Program**

- BUS 218 - Macroeconomics
- ENG 113 - Composition
- ENG 123 - Intermediate Composition
- MAT 115 - Intermediate Algebra

### **Lower Division Requirements**

- ACC 250 - Principles of Accounting I
- ACC 251 - Principles of Accounting II
- BUS 217 - Microeconomics
- CIS 270 - Business IT Application

### **Upper Division Requirements**

- BUS 303 - Business Finance
- BUS 315 - Business Statistics
- BUS 334 - International Business
- BUS 337 - Management with Biblical Foundation (meets Upper Division CST requirement)
- BUS 358 - Business Law
- MKT 313 - Retailing and Merchandising
- MKT 323 - Marketing Research
- MKT 333 - Principles of Marketing
- MKT 353 - Integrated Marketing Communications
- MKT 458 - Consumer Behavior

- MKT 463 - Marketing Capstone

## Additional Program Courses

- CST 100 - Overview of the Bible

## Marketing, BS

The Marketing major prepares students for careers in sales, advertising, corporate marketing and retail and merchandising. Students are encouraged to seek internship opportunities when possible.

## Traditional Major Program Requirements (69 units)

### Lower Division Core Business Requirements

- ACC 250 - Principles of Accounting I
- BUS 101 - Introduction to Business
- BUS 217 - Microeconomics
- BUS 218 - Macroeconomics
- BUS 237 - Management Based on Biblical Principles
- CIS 270 - Business IT Application

### Upper Division Core Business Requirements

- BUS 303 - Business Finance
- BUS 315 - Business Statistics
- BUS 334 - International Business
- BUS 356 - Business Communication Strategies
- BUS 358 - Business Law
- MKT 333 - Principles of Marketing

### Upper Division Marketing Requirements

- MKT 313 - Retailing and Merchandising
- MKT 323 - Marketing Research
- MKT 353 - Integrated Marketing Communications
- MKT 360 - Digital Marketing Essentials
- MKT 443 - Personal Selling and Sales Management
- MKT 458 - Consumer Behavior
- MKT 463 - Marketing Capstone

### Concentration Courses (12 units)

Students must complete all requirements in one of the following concentrations: Digital Marketing; International Marketing; Sport Marketing

### Digital Marketing

- BUS 380 - Business Analytics Visualization and Strategy
- MKT 362 - Digital Marketing Analytics
- MKT 363 - Social Media and Content Marketing
- MKT 373 - Digital Marketing Strategy

### International Marketing

- BUS 457 - Negotiation and Conflict Resolution
- LDR 450 - Culture and Leadership
- MKT 444 - International Marketing
- MKT 491 - Marketing Internship (3 units)

### Sport Marketing

- KIN 454 - Behavioral Aspects of Sport
- MKT 363 - Social Media and Content Marketing
- MKT 491 - Marketing Internship (3 units)
- PRL 300 - Public Relations

## Minor

### Finance Minor

#### Traditional Minor Program Requirements (21 units)

##### Lower Division Requirements

- ACC 250 - Principles of Accounting I
- CIS 270 - Business IT Application

##### Upper Division Requirements

- BUS 303 - Business Finance
- FIN 310 - Intermediate Business Finance
- FIN 325 - Financial Markets and Institutions
- FIN 405 - Financial Analysis and Forecasting

##### Upper Division Finance Elective Requirement

Complete three (3) units from the following:

- ACC 480 - Accounting Ethics
- FIN 415 - Investments
- FIN 489 - Finance Practicum
- FIN 491 - Internship in Finance

### Pre-Requisite Requirements for Finance Minor

- BUS 218 - Macroeconomics
- BUS 315 - Business Statistics

## **International Business Minor**

### Traditional Minor Program Requirements (24 units)

#### Lower Division Requirements

- BUS 218 - Macroeconomics
- BUS 237 - Management Based on Biblical Principles

#### Upper Division Requirements

- BUS 334 - International Business
- BUS 352 - Global Supply Chain Management
- BUS 454 - International Management
- BUS 457 - Negotiation and Conflict Resolution
- MKT 333 - Principles of Marketing
- MKT 444 - International Marketing

## **Marketing Minor**

### Traditional Minor Program Requirements (21 units)

#### Upper Division Requirements

- BUS 380 - Business Analytics Visualization and Strategy
- MKT 333 - Principles of Marketing
- MKT 353 - Integrated Marketing Communications
- MKT 360 - Digital Marketing Essentials
- MKT 362 - Digital Marketing Analytics
- MKT 363 - Social Media and Content Marketing
- MKT 373 - Digital Marketing Strategy

# School of Christian Ministries

**Dr. Chris Morgan**

*Dean*

**Dr. Anthony Chute**

*Associate Dean*

**Ms. Maigen Turner**

*Administrative Secretary*

Phone 951.343.4248

maturner@calbaptist.edu

## Faculty Information

The School of Christian Ministries equips students to serve and lead in churches and other ministry-related organizations. The School's objective is to guide students to become biblically centered, theologically grounded, historically informed, philosophically conscious, ethically engaged, and practically equipped for the benefit of the church and the advancement of Christ's kingdom among the nations.

The School of Christian Ministries offers the Bachelor of Applied Theology (BAT) degree, a program designed to equip a new generation of pastoral leaders. The Bachelor of Applied Theology degree is fully directed, combining rigorous biblical and theological study with practical ministry experience.

The Bachelor of Arts in Christian Studies gives students a broad understanding of the Bible, biblical interpretation, Christian theology, Christian history, and Christian ministry.

The Intercultural Studies major and minor help students to think globally as they learn about cultures and people groups, for the purpose of developing passion for the nations and strategies for reaching the world with the gospel.

The Philosophy program teaches students to recognize, analyze, and engage the central issues of human existence in a historical context, emphasizing the integration of faith in academic study and Christian living. The Ethics minor equips students to understand the basis of moral thought and develop critical thinking skills related to moral evaluations.

Students who pair a School of Christian Ministries major with a second major are eligible for the double major scholarship. With a double major, students are able to study the Bible at a deeper level, develop their theology, and integrate their faith in work and the world.

The School of Christian Ministries also directs the University Honors Program, a community of students who research, debate, and discuss the key questions of life. Students in the Honors Program replace required general education courses with more advanced seminars that explore the intersections of faith, history, science, philosophy, literature, and culture.

## Major

### Applied Theology, BAT

The Bachelor of Applied Theology degree is an intensely practical degree that utilizes the basics of the Christian Studies degree as its foundation. It is designed for students who are centered in their desire to prepare for Christian ministry vocations. As a fully directed program, it will enable students to study with similarly minded people and will afford students opportunity for ministry involvement. Students must submit an application to the School of Christian Ministries and be accepted to enroll in the Bachelor of Applied Theology program.

## Traditional Degree Program Requirements (124 units)

### General Education Requirements

The program requirements will follow the curriculum set forth for other University programs. Specific coursework will be determined by the Dean of the School of Christian Ministries in consultation with the faculty of other Schools/Departments. Some general education requirements will be met through specific Applied Theology requirements.

### Lower Division Requirements (23 units)

- APT 192 - Foundations for Ministry
- APT 292 - Theology of Pastoral Ministry
- APT 293 - Supervised Church Ministry Internship I
- CST 210 - Pentateuch and Former Prophets
- CST 220 - Latter Prophets and Writings
- CST 230 - Jesus and the Gospels
- CST 240 - Paul and the Early Church
- PHI 213 - Introduction to Philosophy

### Biblical Language Requirements (12 units)

Complete two (2) of the following two-semester sequences:

- GRK 213 - Introduction to Koiné Greek I
- GRK 223 - Introduction to Koiné Greek II
- **OR**
- GRK 313 - Intermediate Greek
- GRK 323 - Intermediate Greek
- *OR*
- HEB 213 - Biblical Hebrew I
- HEB 223 - Biblical Hebrew II
- **OR**
- HEB 313 - Intermediate Biblical Hebrew I
- HEB 323 - Intermediate Biblical Hebrew II

### Upper Division Requirements (51 units)

- APT 365 - Doctrine of the Church
- APT 371 - Christian Theology I
- APT 372 - Christian Theology II
- APT 392 - Supervised Church Ministry Internship II
- APT 393 - Supervised Church Ministry Internship III
- APT 452 - Advanced Biblical Preaching
- APT 482 - Pastoral Leadership

- APT 492 - Supervised Church Ministry Internship IV
- APT 495 - Senior Exegesis Seminar
- CST 300 - History of Baptist Thought
- CST 350 - Biblical Interpretation
- CST 360 - Church History
- CST 412 - Special Topics in Theology
- CST 414 - Special Topics in Christian Ministry
- CST 451 - Biblical Preaching
- ICS 305 - Global Christianity
- ICS 435 - Evangelism and Church Planting
- PHI 303 - Apologetics

## **Christian Ministries, BA (Online)**

The Christian Ministries major prepares students for careers in churches and other ministry related vocations.

### **Online Major Program Requirements (48 units)**

#### **Prerequisites to Program**

- ENG 113 - Composition
- ENG 123 - Intermediate Composition

#### **Lower Division Requirements**

- CST 210 - Pentateuch and Former Prophets
- CST 220 - Latter Prophets and Writings
- CST 230 - Jesus and the Gospels
- CST 240 - Paul and the Early Church

#### **Upper Division Requirements**

- APT 371 - Christian Theology I
- APT 372 - Christian Theology II
- APT 482 - Pastoral Leadership
- CST 300 - History of Baptist Thought
- CST 350 - Biblical Interpretation
- CST 360 - Church History
- CST 381 - Christian Missions
- CST 425 - Christian Social Ethics
- CST 451 - Biblical Preaching
- CST 460 - Biblical Theology
- CST 480 - Pastoral Ministry and Leadership
- PHI 353 - Comparative Religions



# Christian Studies, BA

The Christian Studies major equips students to understand the Bible and its message, the church and its mission, and themselves and their purpose. Additionally, students in other fields are encouraged to double major in order to learn how to apply their faith in their vocation.

## Traditional Major Program Requirements (36 units)

### Lower Division Requirements

Christian Studies majors should not take CST 110 and CST 130.

- CST 210 - Pentateuch and Former Prophets
- CST 220 - Latter Prophets and Writings
- CST 230 - Jesus and the Gospels
- CST 240 - Paul and the Early Church

### Upper Division Requirements

- APT 371 - Christian Theology I
- APT 372 - Christian Theology II
- CST 300 - History of Baptist Thought
- CST 350 - Biblical Interpretation
- CST 360 - Church History

### Upper Division Ministry Elective Requirement

Complete three (3) units of upper division Ministry coursework from the following:

- APT 482 - Pastoral Leadership
- CST 383 - Ministry with Youth
- CST 451 - Biblical Preaching
- ICS 410 - Global and Urban Ministries
- ICS 435 - Evangelism and Church Planting

### Upper Division Bible/Theology Elective Requirement

Complete three (3) units of upper division Bible/Theology coursework from the following:

- APT 365 - Doctrine of the Church
- CST 400 - Special Topics in Christian Studies
- CST 410 - Special Topics in Old Testament
- CST 411 - Special Topics in New Testament
- CST 412 - Special Topics in Theology

### Upper Division Elective Requirement

Complete three (3) additional units of upper division coursework from the following:

- APT 365 - Doctrine of the Church
- APT 452 - Advanced Biblical Preaching
- APT 482 - Pastoral Leadership
- CST 383 - Ministry with Youth
- CST 400 - Special Topics in Christian Studies
- CST 410 - Special Topics in Old Testament
- CST 411 - Special Topics in New Testament
- CST 412 - Special Topics in Theology
- CST 413 - Special Topics in Church History
- CST 414 - Special Topics in Christian Ministry
- CST 451 - Biblical Preaching
- CST 490 - Supervised Ministry
- ICS 305 - Global Christianity
- ICS 410 - Global and Urban Ministries
- ICS 435 - Evangelism and Church Planting
- PHI 303 - Apologetics
- PHI 323 - Ethics
- PHI 324 - Applied Ethics
- PHI 482 - Bioethics

## **Intercultural Studies, BA**

The Intercultural Studies major prepares students to be theologically grounded, globally knowledgeable, and practically skilled for global development through church and service organizations. Students are encouraged to select a complementary second major.

## **Traditional Major Program Requirements (36 units)**

### **Lower Division Requirements**

- CST 110 - Old Testament Survey **OR**
- CST 130 - New Testament Survey
- ICS 105 - Introduction to Global Studies
- ICS 205 - Global Discipleship

### **Upper Division Requirements**

- APT 365 - Doctrine of the Church **OR**
- CST 360 - Church History
- CST 370 - The Christian Faith
- ICS 305 - Global Christianity

- ICS 330 - Missiology
- ICS 410 - Global and Urban Ministries
- ICS 415 - Special Topics in Intercultural Studies
- ICS 430 - Intercultural Communication and Practice
- ICS 435 - Evangelism and Church Planting
- PHI 353 - Comparative Religions

### Optional Concentration (15 units)

#### TESOL (Teachers of English to Speakers of Other Languages) (15 units)

The TESOL concentration requires the completion of fifteen (15) units beyond the major.

- ENG 442 - Teaching Second Language Writing
- ENG 446 - Teaching Second Language Reading
- ENG 452 - Second Language Curriculum Development and Assessment
- ENG 463 - Language Structure and Acquisition
- ENG 472 - Theory and Methods of TESOL

### Philosophy, BA

The Philosophy major provides students with in-depth study of Western philosophy, from classical to modern eras. Emphasis is given to the development of critical thinking and writing skills. Students are encouraged to select a complementary second major or minor.

### Traditional Major Program Requirements (36 units)

#### Lower Division Requirements

- CST 110 - Old Testament Survey *OR*
- CST 130 - New Testament Survey *OR*
- ICS 105 - Introduction to Global Studies
- PHI 213 - Introduction to Philosophy *OR*
- WLD 181 - Goodness, Truth and Beauty

#### Upper Division Requirements

- APT 371 - Christian Theology I
- APT 372 - Christian Theology II
- PHI 300 - Logic **OR**
- MAT 313 - Mathematical Proof and Structures
- PHI 301 - History of Western Philosophy I

- PHI 302 - History of Western Philosophy II
- PHI 303 - Apologetics
- PHI 312 - Beauty
- PHI 320 - Knowledge
- PHI 323 - Ethics
- PHI 363 - Reality

## **Minor**

### **Christian Studies Minor**

#### **Traditional Minor Program Requirements (18 units)**

##### **Lower Division Requirements**

- CST 110 - Old Testament Survey
- CST 130 - New Testament Survey

##### **Upper Division Requirements**

- CST 350 - Biblical Interpretation
- CST 360 - Church History
- CST 370 - The Christian Faith

##### **Upper Division Elective Requirement**

Complete three (3) additional units from the following:

- APT 365 - Doctrine of the Church
- APT 482 - Pastoral Leadership
- CST 383 - Ministry with Youth
- CST 400 - Special Topics in Christian Studies
- CST 410 - Special Topics in Old Testament
- CST 411 - Special Topics in New Testament
- CST 412 - Special Topics in Theology
- CST 413 - Special Topics in Church History
- CST 414 - Special Topics in Christian Ministry
- CST 451 - Biblical Preaching
- CST 490 - Supervised Ministry
- ICS 305 - Global Christianity
- ICS 410 - Global and Urban Ministries
- ICS 435 - Evangelism and Church Planting
- PHI 303 - Apologetics
- PHI 323 - Ethics

- PHI 324 - Applied Ethics
- PHI 482 - Bioethics

## **Ethics Minor**

The minor in Ethics equips students to become aware of the basis of moral thought, develop critical thinking skills related to moral evaluations, and engage in ethical behavior.

## **Traditional Minor Program Requirements (18 units)**

### **Lower Division Requirements**

- CST 110 - Old Testament Survey *OR*
- CST 130 - New Testament Survey
- PHI 213 - Introduction to Philosophy *OR*
- WLD 181 - Goodness, Truth and Beauty

### **Upper Division Requirements**

- CST 370 - The Christian Faith
- PHI 323 - Ethics
- PHI 482 - Bioethics

### **Upper Division Additional Requirement**

Complete three (3) units from the following:

- ACC 480 - Accounting Ethics
- AIR 303 - Air Force Leadership and Management III
- CIT 360 - Legal and Ethical Practices in Information Technology
- CJS 304 - Ethics for Law Enforcement
- COM 375 - Legal, Ethical, and Social Foundations of Communication
- CST 425 - Christian Social Ethics
- EDU 440 - Classroom Management and Ethics
- HCA 450 - Healthcare Legal Issues and Ethics
- HMS 320 - Ethics and Legal Implications of Human Services
- JRN 320 - Media Law, Ethics, and Copyright
- LDR 410 - Ethical and Biblical Principles for Leadership
- NUR 460 - Ethics and Issues in Health Care
- PHI 324 - Applied Ethics
- SCI 311 - Genetic Engineering and Society
- SPP 430 - Ethics and Leadership in Performance Psychology

# Global Integration Studies Minor

The Global Integration Studies minor is designed to prepare students to utilize their majors while living intentionally and missionally overseas. The core requirements provide the students with the necessary theological foundation. The discipline-specific requirements prepare the students to use their academic discipline to meet physical and spiritual needs within their communities while living in a cross-cultural context.

## Traditional Minor Program Requirements (21 units)

### Core Requirements

- ICS 305 - Global Christianity
- ICS 325 - Spiritual Formations for Global Engagement
- ICS 375 - Human Rights
- PHI 353 - Comparative Religions

### Discipline Requirements

Complete nine (9) units from one of the following discipline sequences:

#### Business

- BUS 334 - International Business
- BUS 398 - Study Abroad
- BUS 454 - International Management

#### Global Justice

- BUS 363 - Microfinance
- ICS 431 - Cross-cultural Immersion
- POL 454 - International Organizations

#### Nursing

- NUR 431 - Global Service-Learning in Nursing: Core Concepts
- NUR 432 - Global Service-Learning in Nursing: Advanced Concepts
- NUR 433 - Global Service-Learning in Nursing: Immersion Practicum

#### Political Science

- ICS 431 - Cross-cultural Immersion
- POL 415 - World Geography
- POL 454 - International Organizations

## **Intercultural Studies Minor**

The Intercultural Studies minor prepares students to be theologically grounded, globally knowledgeable, and practically skilled for global development through church and service organizations.

### **Traditional Minor Program Requirements (18 units)**

#### **Lower Division Requirements**

- CST 110 - Old Testament Survey **OR**
- CST 130 - New Testament Survey
  
- ICS 105 - Introduction to Global Studies

#### **Upper Division Requirements**

- CST 370 - The Christian Faith
- ICS 305 - Global Christianity

#### **Upper Division Elective Requirements**

Complete six (6) additional units from the following:

- ICS 330 - Missiology
- ICS 410 - Global and Urban Ministries
- ICS 415 - Special Topics in Intercultural Studies
- ICS 430 - Intercultural Communication and Practice
- ICS 435 - Evangelism and Church Planting
- PHI 353 - Comparative Religions

## **Philosophy Minor**

### **Traditional Minor Program Requirements (18 units)**

#### **Lower Division Requirements**

- CST 110 - Old Testament Survey *OR*
- CST 130 - New Testament Survey
  
- PHI 213 - Introduction to Philosophy *OR*
- WLD 181 - Goodness, Truth and Beauty

#### **Upper Division Requirements**

- CST 370 - The Christian Faith
- PHI 301 - History of Western Philosophy I
- Six (6) additional units of upper division Philosophy



# **Dr. Bonnie G. Metcalf School of Education**

**Dr. Robin Duncan**

*Dean*

**Dr. Stacy Meyer**

*Assistant Dean*

**Dr. Keith Walters**

*Assistant Dean*

**Emily Frigaard**

*Administrative Assistant*

Phone 951.343.4448

FAX 951.343.4553

emartin@calbaptist.edu

## **Faculty Information**

## **Mission Statement**

The Metcalf School of Education's mission is to prepare educational leaders of high moral character who are equipped with the knowledge and skills needed to create inclusive, lifelong learners throughout the world.

As part of the Great Commission, the faculty and staff are dedicated to their Christian responsibility outlined in Matthew 28:19-20.

*"Therefore go and make disciples of all nations...and surely I am with you always, to the very end of the age."*

## **Undergraduate Programs in Education, including credential pathways**

The School of Education offers undergraduate programs in early childhood studies, elementary education, liberal studies, and secondary education.

The Elementary Education major allows candidates to complete state approved subject matter and credential coursework. Candidates who successfully complete this program will be recommended for a California multiple subject preliminary teaching credential.

Students seeking a Single Subject Credential should be enrolled in an appropriate content area major and declare Preliminary Single Subject Credential as their second major. Individuals who are not enrolled in an appropriate content area major may still be able to earn a single subject credential at the undergraduate level. Individuals in this category should meet with a School of Education advisor.

The Early Childhood Studies major/minor prepares students for careers working with young children and their families in a variety of settings. Students can choose to complete this degree either online or in a traditional in-person format.

The School of Education offers an online degree in Liberal Studies. This degree provides students with a broad knowledge base. A degree in Liberal Studies can currently be used to meet subject matter competence in the state of California. Please contact a School of Education advisor for more information.

California Baptist University's credential programs are state approved and subject to revision at any time by state or federal law.

## Major

### Early Childhood Studies, BA

The Early Childhood Studies major prepares students for careers working with young children and their families in a variety of settings including schools, hospitals and home environments and for graduate study in related fields.

#### Traditional Major Program Requirements (42-57 units)

##### Upper Division Requirements

- ECH 320 - Infant, Toddler, and Early Childhood Cognitive Development
- ECH 340 - Infant, Toddler, and Early Childhood Perceptual and Motor Development
- ECH 350 - Infant, Toddler, and Early Childhood Social and Emotional Development
- ECH 365 - Infant, Toddler, and Early Childhood Assessment including Children with Disabilities
- ECH 370 - Spiritual Development in Young Children
- ECH 385 - Theories and Models for Understanding Behavior in Young Children with Disabilities
- ECH 395 - Infant, Toddler, and Early Childhood Learning Environments including Children with Disabilities
- ECH 415 - Consultation and Collaboration in Early Childhood Intervention
  
- ECH 435 - Cross Cultural Perspectives of Children including Children with Disabilities **OR**
- ECH 435G - Cross Cultural Perspectives of Children including Children with Disabilities Global Practicum
  
- ECH 440 - STEM Curriculum Integrated with the Arts *OR*
- ECH 360 - Early Childhood Curriculum
  
- ECH 455 - Research Seminar in Early Childhood including Early Childhood Intervention
- ECH 460 - Adult Supervision
- ECH 461 - Administration of Early Childhood Programs I
- ECH 462 - Administration of Early Childhood Programs II

##### Optional Concentration in Early Childhood Intervention (15 units)

- EDU 341 - The Exceptional Child
- ECH 375 - Early Intervention: Early Childhood Special Education
- ECH 425 - Low Incidence Disabilities in Young Children
- ECH 495 - Practicum in Early Childhood and Intervention
- ECH 498 - Early Childhood Studies Portfolio

## **Early Childhood Studies, BA (Online)**

### **Online Major Program Requirements (48 units)**

#### **Prerequisites to Program**

- ENG 113 - Composition
- ENG 123 - Intermediate Composition
- Fingerprinting and Certificate of Clearance

#### **Upper Division Requirements**

- ECH 320 - Infant, Toddler, and Early Childhood Cognitive Development
- ECH 340 - Infant, Toddler, and Early Childhood Perceptual and Motor Development
- ECH 350 - Infant, Toddler, and Early Childhood Social and Emotional Development
- ECH 365 - Infant, Toddler, and Early Childhood Assessment including Children with Disabilities
- ECH 370 - Spiritual Development in Young Children
- ECH 385 - Theories and Models for Understanding Behavior in Young Children with Disabilities
- ECH 395 - Infant, Toddler, and Early Childhood Learning Environments including Children with Disabilities
- ECH 415 - Consultation and Collaboration in Early Childhood Intervention
- ECH 435 - Cross Cultural Perspectives of Children including Children with Disabilities
  
- ECH 440 - STEM Curriculum Integrated with the Arts *OR*
- ECH 360 - Early Childhood Curriculum
  
- ECH 455 - Research Seminar in Early Childhood including Early Childhood Intervention
- ECH 460 - Adult Supervision
- ECH 461 - Administration of Early Childhood Programs I
- ECH 462 - Administration of Early Childhood Programs II

#### **Additional Program Courses**

- CST 100 - Overview of the Bible
- CST 300-400 Upper Division Christian Studies (3 units)

## **Elementary Education, BS**

The Elementary Education major will prepare students for careers working with children and their families in public, general education, elementary schools. Candidates for the Elementary Education major will complete the state-approved Elementary Subject Matter Program, which will satisfy the subject-matter competency requirement from the California Commission on Teacher Credentialing (CTC). As a state-approved teacher preparation program, the requirements for the Elementary Subject Matter (ESM) Program are subject to revision at any time by state or federal law. Elementary Education majors will be eligible to obtain a California teaching credential, by completing the professional methods courses with fieldwork and student teaching.

Students choosing the Elementary Education major must additionally be admitted into the Credential program for Preliminary Multiple Subject Credential. Students who do not meet the credential requirements may not be able to complete the major due to accreditation requirements.

Candidates must complete all credential and state requirements to be eligible for a credential. Credential requirements can be obtained from the School of Education credential program advisors.

## Traditional Major Program Requirements (118 units)

### Lower Division Requirements

#### Subject Matter Areas

- BIO 143 - Principles of Biology
- BIO 143L - Principles of Biology Lab
- COM 113 - Oral Communication
- ENG 123 - Intermediate Composition
- ENG 201 - Introduction to Literature
- ENV 151 - Introduction to the Geosciences
- HIS 213 - History of the United States to Reconstruction
- HIS 223 - History of the United States since the Civil War
- HUM 213 - Humanities I
- HUM 223 - Humanities II
- MAT 125 - Mathematical Concepts and Applications I
- MAT 127 - Mathematical Concepts and Applications II
- MUS 205 - Music Development for the Classroom Teacher
- PSC 133 - Survey of Physical Science
- PSC 133L - Survey of Physical Science Lab
- PSY 213 - General Psychology

#### Elementary Education

- EDU 101 - Professional Educator Series I: The Student Experience
- EDU 102 - Professional Educator Series II: The Community Context

### Upper Division Requirements

#### Subject Matter Areas

- ART 415 - Aesthetics and the Classroom
- ENG 353 - Introduction to Children's Literature
- ENG 454 - Writing in Context
- HIS 393 - History of California
- KIN 302 - Contemporary Health Issues
- KIN 395 - Physical Activity for Early Development

- THE 312 - Drama in the Classroom

## Elementary Education

- EDU 307 - Technology in the Classroom
- EDU 401 - Oral Language Development, Instruction, and Assessment
- EDU 409 - Educational Psychology
- EDU 410 - Elementary Methods
- EDU 413 - Disability Studies for General Education Teachers
- EDU 415 - Equity and Diversity in American Public Education
- EDU 416 - Pedagogical Approaches to Literacy Acquisition
- EDU 422 - Teaching Social Studies to Diverse Learners
- EDU 425 - Teaching Math to Diverse Learners
- EDU 435 - Teaching Science to Diverse Learners
- EDU 440 - Classroom Management and Ethics
- EDU 442 - Language Arts and Content Literacy Instruction for Diverse Learners
- EDU 498 - Student Teaching and Seminar
- EDU 499 - Student Teaching Portfolio

## Liberal Studies, BA (Online)

### Online Major Program Requirements (48 units)

#### Prerequisites to Program

- ENG 113 - Composition
- ENG 123 - Intermediate Composition
- Fingerprinting and Certificate of Clearance

#### Lower Division Requirements

- HUM 213 - Humanities I **OR**
- HUM 223 - Humanities II

#### Upper Division Requirements

- COM 333 - Oral Interpretation and Readers Theatre
- EDU 300 - American Public School
- EDU 302 - Growth, Development, and Learning
- ENG 353 - Introduction to Children's Literature **OR**
- ENG 363 - Introduction to Young Adult Literature
- ENG 463 - Language Structure and Acquisition

- KIN 302 - Contemporary Health Issues
- HIS 311 - Minorities in America
- HIS 393 - History of California
- POL 415 - World Geography

## Concentration Courses

Students must complete one of the following concentrations: English; Human Development/Early Childhood; Kinesiology; Social Science

### English

- ENG 303 - Topics in World Literature
- ENG 313 - American Multicultural Literature
- ENG 333 - Seventeenth Century British Literature **OR**
- ENG 343 - Eighteenth and Nineteenth Century British Literature **OR**
- ENG 345 - Nineteenth Century American Literature
- ENG 413 - Shakespeare Studies

### Human Development/Early Childhood

- ECH 320 - Infant, Toddler, and Early Childhood Cognitive Development
- ECH 340 - Infant, Toddler, and Early Childhood Perceptual and Motor Development
- ECH 350 - Infant, Toddler, and Early Childhood Social and Emotional Development
- EDU 341 - The Exceptional Child

### Kinesiology

- KIN 300 - Nutrition Science
- KIN 332 - Lifelong Motor Development
- KIN 363 - Movement Experiences for Children
- KIN 454 - Behavioral Aspects of Sport

### Social Science

- HIS 315 - Latin American History
- HIS 325 - Non-Western Culture and History
- POL 443 - Diplomatic History of the United States
- Three (3) additional upper division units in POL or HIS

## Additional Program Courses

- CST 100 - Overview of the Bible

- CST 300-400 Upper Division Christian Studies (3 units)

## For students seeking a Teaching Credential

The Bachelor of Arts in Liberal Studies at California Baptist University offers a pathway for students seeking entrance to a teaching credential program in California through successful completion of a subject matter competence exam. Students should seek additional information from the credentialing agency in their state to determine specific requirements for a teaching credential.

## Preliminary Single Subject Credential

Students seeking to complete a Single Subject Credential in their undergraduate program must declare the Preliminary Single Subject Credential as their second major.

Students must demonstrate subject matter competence by completing an approved subject matter program, necessary major, approved coursework, or passing the California Subject Examinations for Teachers (CSET). Check with a School of Education advisor to find out if your major has an approved subject matter program.

Candidates must complete all credential and state requirements to be eligible for a credential. Credential requirements are subject to change based on state regulations. Current credential requirements can be obtained from the School of Education credential program advisors.

## Admission Requirements

### Integrated Credential Program Admission Requirements

A student who is admitted to the University is not automatically admitted to the Integrated Credential Program and must meet the following requirements:

- Demonstrate basic skills competency
  - Take the California Basic Education Skills Test (CBEST); OR
  - Demonstrate competence through an alternate route
- Demonstrate subject matter competency
  - Enrolled in an approved subject matter competency program; OR
  - Take the California Subject Examinations for Teachers (CSET) for the appropriate credential area
- Meet U.S. Constitution requirement
- Grade Point Average (GPA)
  - Minimum GPA of 2.75 for acceptance
  - Maintain a GPA of 3.0 for all methods courses while in the program
- Verification of Certificate of Clearance
- One Recommendation, completed on forms provided, from professional source who can address your potential for success. Family members and friends may not complete recommendation.
- Literacy sample

## Traditional Credential Program Requirements (36 units)

### Universal Preliminary Credential Core Requirements

- EDU 407 - Reading and Writing in the Content Areas
- EDU 411 - Theories and Methods of Teaching Diverse Students

- EDU 451 - Classroom Management and Ethics for Middle and High School Teachers
- EDU 452 - The Exceptional Child in Middle and High School Settings
- EDU 490 - Subject Area Specialization
- EDU 497 - Secondary Methods
- SPE 430 - Professional Relationships in Middle and High School Settings

## Clinical Practice Requirements

- EDU 481 - Initial Clinical Practice: Preliminary Single Subject Credential
- EDU 482 - Final Clinical Practice: Preliminary Single Subject Credential
- EDU 499 - Student Teaching Portfolio

## Minor

### Early Childhood Studies Minor

#### Traditional Minor Program Requirements (24 units)

#### Upper Division Requirements

- ECH 320 - Infant, Toddler, and Early Childhood Cognitive Development
- ECH 340 - Infant, Toddler, and Early Childhood Perceptual and Motor Development
- ECH 350 - Infant, Toddler, and Early Childhood Social and Emotional Development
- ECH 365 - Infant, Toddler, and Early Childhood Assessment including Children with Disabilities
- ECH 375 - Early Intervention: Early Childhood Special Education
- ECH 395 - Infant, Toddler, and Early Childhood Learning Environments including Children with Disabilities
- ECH 435 - Cross Cultural Perspectives of Children including Children with Disabilities
- ECH 440 - STEM Curriculum Integrated with the Arts



# Shelby and Ferne Collinsworth School of Performing Arts

**Dr. Joseph E. Bolin**

*Dean*

**Dr. David Toledo**

*Associate Dean for Academic Effectiveness*

**Dr. Gene Moon**

*Associate Dean of Outreach and Community Engagement*

**Ms. Courtney Ladd**

*Administrative Assistant*

Phone 951.343.4251

FAX 951.343.4570

performingarts@calbaptist.edu

## Faculty Information

California Baptist University offers a Bachelor of Arts degree with three majors: Theatre, Music, and Music for Worship Arts and Ministry. The University offers a Bachelor of Music degree with the following majors: Commercial Performance, Composition for Stage and Screen, Instrumental Performance, Music Education, Piano Performance, Songwriting, Studio Production, and Vocal Performance. The School of Performing Arts offers three minors (Music, Theatre, and Worship Arts and Ministry), as well as eight concentrations, which may be added to most music majors to provide students with a secondary area of specialization.

The Collinsworth School of Performing Arts at California Baptist University is committed to inspiring students to the highest standards of craft and character, preparing them to impact the world through careers in the performing arts.

With an educational environment distinguished by vibrant, interactive teaching, a prolific performance culture, and an emphasis on developing artistic skill, spiritual sensitivities, and personal character, the School of Performing Arts at California Baptist University stands as a unique scholastic institution, dedicated to providing rigorous training in the performing arts to equip young artists for successful careers as performers, composers, actors, music educators, studio musicians, worship leaders, and songwriters.

Furthermore, the CBU School of Performing Arts believes in preparing high-caliber, versatile performing artists. While many institutions of higher education center their curriculum and experiences around a limited segment of the performing arts, CBU intentionally provides hands-on training in a multitude of musical styles, artistic experiences, and genres without compromise. In addition to its comprehensive focus on Western Art music, the music divisions intentionally blend folk and jazz styles, non-Western music, commercial music, studio and technical production, and modern and traditional church music to effectively prepare future artists for what awaits them in the modern marketplace of professional musicians. Likewise, the theatre arts division equips actors and technicians to excel in roles on and off stage in a variety of genres and theatrical presentations, both in small and large-scale performances.

The National Association of Schools of Music (NASM) accredits CBU for offering an assortment of undergraduate and graduate degrees in music. The Collinsworth School is committed to the continued refinement and assessment of its educational opportunities as we strive to accomplish our mission of preparing the next generation of performance artists.

# Major

## Commercial Performance, BM

The commercial performance major trains students to be agile and adaptable music performers in the 21st century, bridging performance, music technology, and music industry practices within a practice-oriented degree. The program incorporates a diverse range of musical genres, styles, and exploration of contemporary instrumentation.

### Traditional Major Program Requirements (85 units)

#### General Education Requirements (40-55 units)

The General Education requirements will follow the curriculum set forth for other University degree programs. Fifteen (15) units of G.E. requirements will be met through the specific coursework of the Commercial Performance major. See School of Music Handbook for details.

#### Lower Division Performance Requirements

- MUS 015 - Class Piano for Worship Arts and Commercial Music I
- MUS 016 - Rhythm Instruments I
- MUS 025 - Class Piano for Worship Arts and Commercial Music II
- MUS 026 - Rhythm Instruments II
- MUS 046 - Popular Music Ensemble: 50s-70s (2 units)
- MUS 047 - Popular Music Ensemble: 80s-Contemporary (2 units)
- MUS 080-089 - Private Instruction (4 units, same instrument)

#### Lower Division Requirements

- MUS 105 - Introduction to Commercial Music Studies
- MUS 114 - Music Theory I
- MUS 115 - Musicianship Lab I
- MUS 124 - Music Theory II
- MUS 125 - Musicianship Lab II
- MUS 214 - Music Theory III
- MUS 215 - Musicianship Lab III
- MUS 236 - Music Entrepreneurship
- MUS 246 - Music Marketing
- MUS 282 - Music Technology
- PHY 125 - Physics of Sound and Music
- PHY 125L - Physics of Sound and Music Lab

#### Upper Division Performance Requirements

- MUS 446 - Commercial Music Ensemble (4 units)

- MUS 460-469 - Private Instruction (8 units, same instrument)

## Upper Division Requirements

- MUS 301 - Survey of Music History
- MUS 305 - Survey of Popular Song
- MUS 306 - History of Popular Music
- MUS 308 - History of Jazz
- MUS 326 - Commercial Arranging I
- MUS 336 - Commercial Arranging II
- MUS 356 - Commercial Instrumental or Vocal Project I
- MUS 360 - Theology, History, and Practice of Worship
- MUS 366 - Live Sound Techniques and Applications
- MUS 386 - Audio Recording and Studio Techniques I
- MUS 387 - Audio Recording and Studio Techniques II
- MUS 396 - Lighting Techniques and Applications
- MUS 456 - Commercial Instrumental or Vocal Project II
- MUS 496 - Internship

## Composition for Stage and Screen, BM

The Bachelor of Music in Composition for Stage and Screen prepares students with the fundamental musical skills, technical competencies, stylistic understanding, creative tools, and artistic cultivation to successfully pursue a career in music composition. Highlights of the program include strong theoretical and musicianship training, thorough studies in history and literature from a variety of styles and periods, study of compositional techniques from early to contemporary composers, extensive studies in music technology, and performance training in a major instrument, which includes private study with CBU faculty and consistent engagement with professional performers through residencies and masterclasses. Students in the program will also be required to actively compose and perform throughout their tenure in the program. These performances include individual solo performances, a capstone composition recital, opportunities to compose for CBU ensembles and have new student works performed, and collaborative performances in a wide cross-section of stylistic genres.

## Traditional Major Program Requirements (86-88 units)

### General Education Requirements (40-55 units)

The General Education requirements will follow the curriculum set forth for other University degree programs. Eleven (11) units of G.E. requirements will be met through the specific coursework of the Composition for Stage and Screen major. See School of Music Handbook for details.

### Core Applied Music Requirements

- MUS 012 - Class Piano I <sup>1</sup>
- MUS 022 - Class Piano II <sup>1</sup>
- MUS\_\_\_\_ - Private Instruction (6 units minimum<sup>2</sup>)

- MUS\_\_\_\_ - Major Ensemble (4 units selected from MUS 067, 069, 091, 092, 094, 096, 097, 099)

### Note

<sup>1</sup>Enrollment in Class Piano (MUS 012 or 022 is required of music majors whose primary instrument is other than piano each semester until the Piano Proficiency requirements are met. An opportunity to attempt to pass the Piano Proficiency exam for first semester students will be offered during rehearsal camp. For returning students, an attempt to pass the exam or portions of the exam will be offered at the end of each semester. See Music Handbook for Piano Proficiency requirements.

<sup>2</sup>Students must complete six (6) units of Private Instruction on the same instrument or voice.

## Core Lower Division Requirements

- MUS 114 - Music Theory I
- MUS 115 - Musicianship Lab I
- MUS 124 - Music Theory II
- MUS 125 - Musicianship Lab II
- MUS 202 - Music in Global Cultures
- MUS 214 - Music Theory III
- MUS 215 - Musicianship Lab III
- MUS 224 - Music Theory IV
- MUS 225 - Musicianship Lab IV
- MUS 282 - Music Technology <sup>3</sup>

### Note

<sup>3</sup>MUS 282 satisfies the G.E. Technology requirement (Competency Requirements).

## Core Upper Division Requirements

- MUS 309 - History of Film Music
- MUS 312 - Introduction to Conducting
- MUS 313 - Music History I
- MUS 324 - Music History III <sup>4</sup>
- MUS 325 - Music History IV
- MUS 360 - Theology, History, and Practice of Worship <sup>5</sup>
- MUS 341 - Junior Recital
- MUS 431 - Senior Recital and Project
- MUS\_\_\_\_ Ensemble (2 units Upper Division Chamber or Large Ensemble)

### Note

<sup>4</sup>MUS 324 satisfies three (3 units) of the G.E. History requirement (Political World).

<sup>5</sup>MUS 360 satisfies three (3) units of the G.E. Christian Studies requirement (Biblical and Theological Core).

## Composition Major Requirements

### Lower Division Requirements

- MUS 236 - Music Entrepreneurship
- MUS 253 - Introduction to Music Composition

### Upper Division Requirements

- MUS 326 - Commercial Arranging I
- MUS 372 - Counterpoint
- MUS 386 - Audio Recording and Studio Techniques I
- MUS 387 - Audio Recording and Studio Techniques II
- MUS 472 - Orchestration

### Applied Composition Requirements

- MUS 354 - Private Lessons in Composition (4 units)
- MUS 121 - Composition Forum (8 units, 1 unit for each semester of residence)

### Additional Composition Requirements (6 units)

Complete six (6) additional units from the following:

- FLM 105 - Introduction to Film
- MUS 306 - History of Popular Music
- MUS 308 - History of Jazz
- MUS 311 - Form and Analysis
- MUS 323 - Music History II
- MUS 487 - Sound Design for Film and Multimedia

## Instrumental Performance, BM

The Bachelor of Music in Instrumental Performance prepares students with the fundamental musical skills, technical competencies, stylistic understanding, and artistic cultivation to successfully pursue a career in instrumental performance. Highlights of the program include strong theoretical and musicianship training, thorough studies in music history and instrumental literature, pedagogical coaching, collaborative training in a variety of musical styles, and rigorous performance instruction, including private study with CBU faculty and consistent engagement with professional performers through residencies and masterclasses. Students in the program will also be required to actively perform throughout their tenure. These performances include numerous individual solo performances, two capstone recital presentations, and collaborative performances in a variety of styles including orchestral and wind band works, early to contemporary chamber music, operatic and choral repertory, and modern church music.

### Traditional Major Program Requirements (84-86 units)

## General Education Requirements (40-55 units)

The General Education requirements will follow the curriculum set forth for other University degree programs. Twelve (12) units of G.E. requirements will be met through the specific coursework of the Instrumental Performance major. See School of Music Handbook for details.

## Core Applied Music Requirements

- MUS 012 - Class Piano I \*
- MUS 022 - Class Piano II \*
- MUS\_\_\_ - Private Instruction (8 units minimum\*\*)¹
- MUS\_\_\_ - Major Ensemble (8 units minimum)²

### Note

\*Enrollment in Class Piano (MUS 012 or 022) is required of music majors whose primary instrument is other than piano each semester until the Piano Proficiency requirements are met. An opportunity to attempt to pass the Piano Proficiency exam for first semester students will be offered during rehearsal camp. For returning students, an attempt to pass the exam or portions of the exam will be offered at the end of each semester. See Music Handbook for Piano Proficiency requirements.

\*\*Students must complete eight (8) units of Private Instruction on the same instrument or voice. \_\_\_\_\_

¹Enrollment for one unit of MUS 080-089, 460-469 Private Instruction is required for each semester of residence for all music majors. A minimum of eight (8) units is required.

²Enrollment is required in at least one Major Ensemble (MUS 067, 068, 091, 092, 094, 097, 099, 490A, 490B, 490C, 490D, 490E, 490F, 490H) for full credit during each semester of enrollment at California Baptist University. A minimum of eight (8) units is required. Additional ensembles may be taken for 0-1 units.

## Core Lower Division Requirements

- MUS 114 - Music Theory I
- MUS 115 - Musicianship Lab I
- MUS 124 - Music Theory II
- MUS 125 - Musicianship Lab II
- MUS 202 - Music in Global Cultures
- MUS 214 - Music Theory III
- MUS 215 - Musicianship Lab III
- MUS 224 - Music Theory IV
- MUS 225 - Musicianship Lab IV
- MUS 236 - Music Entrepreneurship
- MUS 282 - Music Technology

## Core Upper Division Requirements

- MUS 312 - Introduction to Conducting
- MUS 313 - Music History I
- MUS 323 - Music History II
- MUS 324 - Music History III
- MUS 325 - Music History IV
- MUS 341 - Junior Recital
- MUS 360 - Theology, History, and Practice of Worship
- MUS 431 - Senior Recital and Project

## Instrumental Performance Major Requirements

### Private Instruction Requirements

\*Students must complete eight (8) units of private instruction in the same instrumental area from the following list of courses. These eight (8) units are in addition to those in the Core Applied Music Requirements.

- MUS 463 - Private Instruction: Organ
- MUS 464 - Private Instruction: Woodwinds
- MUS 465 - Private Instruction: Brass
- MUS 466 - Private Instruction: Strings
- MUS 467 - Private Instruction: Percussion
- MUS 468 - Private Instruction: Guitar

### Ensemble Requirements

#### Core Ensemble Requirements

Complete two (2) units from the following:

- MUS 095 - Chamber Ensemble
- MUS 096 - Jazz Ensemble

#### Additional Ensemble Requirements

Complete two (2) additional units from the following:

- MUS 067 - Symphonic Band
- MUS 090 - University Choir and Orchestra
- MUS 095 - Chamber Ensemble
- MUS 096 - Jazz Ensemble
- MUS 097 - Wind Ensemble
- MUS 099 - Symphony Orchestra
- MUS 489 - University Choir and Orchestra
- MUS 490A - Major Ensemble: Symphonic Band
- MUS 490F - Major Ensemble: Wind Ensemble
- MUS 490H - Major Ensemble: Symphony Orchestra

- MUS 491A - Chamber Ensemble: Strings
- MUS 491B - Chamber Ensemble: Piano
- MUS 491C - Chamber Ensemble: Guitar
- MUS 491D - Chamber Ensemble: Winds
- MUS 491E - Chamber Ensemble: Jazz Combo
- MUS 491F - Chamber Ensemble: Jazz Ensemble

## Upper Division Requirements

- MUS 345 - Orchestral and Band Literature
- MUS 419 - Instrumental Pedagogy

## Additional Requirements

Students must complete twelve (12) units of additional upper division music electives

### **OR**

Complete one of the concentrations: Jazz Studies; Keyboard Collaborative Arts; Live Music Production (MD); Songwriting; Studio Production; Worship Arts; Worship Tech

### Jazz Studies

- MUS 308 - History of Jazz
- MUS 408 - Jazz Pedagogy
- MUS 491E - Chamber Ensemble: Jazz Combo (3 units)
- MUS 491F - Chamber Ensemble: Jazz Ensemble (4 units)

### Keyboard Collaborative Arts

- MUS 346 - Repertoire for Accompanists
- MUS 376 - Performance Styles for Accompanists
- MUS 427 - Diction for Singers I
- MUS 428 - Diction for Singers II
- MUS 444 - Vocal Techniques
- MUS 469 - Private Instruction: Accompanying (4 units)

### Live Music Production (MD)

- MUS 326 - Commercial Arranging I
- MUS 336 - Commercial Arranging II
- MUS 366 - Live Sound Techniques and Applications
- MUS 370 - Worship Technology **OR**
- APT 482 - Pastoral Leadership
- MUS 412 - Instrumental Conducting **OR**
- MUS 413 - Choral Conducting



## Songwriting

### Core Songwriting Requirement

- MUS 355 - Private Lessons in Songwriting (6 units)

### Additional Songwriting Requirements

Complete six (6) additional units from the following:

- MUS 305 - Survey of Popular Song
- MUS 326 - Commercial Arranging I
- MUS 347 - Music Production I
- MUS 355 - Private Lessons in Songwriting (1 unit)
- MUS 364 - Songwriting and Commercial Production

### Studio Production

- MUS 347 - Music Production I
- MUS 357 - Music Production II
- MUS 386 - Audio Recording and Studio Techniques I
- MUS 387 - Audio Recording and Studio Techniques II

### Worship Arts

- MUS 304 - Craft of Ministry I
- MUS 332 - Psalms, Hymns, and Spiritual Songs
- MUS 370 - Worship Technology **OR**
- CST 370 - The Christian Faith
- MUS 434 - Creative Worship Planning
- MUS 454 - Worship Forum (2 units)

### Worship Tech

- GDM 341 - Video Fundamentals
- MUS 347 - Music Production I
- MUS 366 - Live Sound Techniques and Applications
- MUS 396 - Lighting Techniques and Applications

## **Music Education, BM**

The Music Education major will prepare students for careers working in K-12 settings teaching general, choral, and instrumental music. Candidates for the Music Education major will complete the state-approved subject-matter competency requirement from the California Commission on Teacher Credentialing (CTC) through required music coursework. As a state-approved teacher preparation program, the requirements for the Music Subject Matter (MSM) Program are subject to revision at any time by state or federal law. Music Education majors will be eligible to obtain a

California teaching credential, by completing the music education professional methods courses (MUS 282, MUS 405, MUS 344/345, MUS 476/479, MUS 473, MUS 475) with fieldwork and student teaching.

Students choosing the Music Education major must additionally be admitted into the Credential program for Single Subject Credential. Students who do not meet the credential requirements may not be able to complete the major due to accreditation requirements.

Candidates must complete all credential and state requirements to be eligible for a credential. Credential requirements can be obtained from the School of Music's Music Education advisors and the School of Education's credential program advisors.

## Traditional Degree Program Requirements (101-103 units)

### General Education Requirements (40-55 units)

The General Education requirements will follow the curriculum set forth for other University degree programs. Twelve (12) units of G.E. requirements will be met through the specific coursework of the Music Education major. See School of Music Handbook for details.

### Core Applied Music Requirements

- MUS 012 - Class Piano I \*
- MUS 022 - Class Piano II \*
- MUS\_\_\_\_ - Private Instruction (8 units minimum\*\*)¹
- MUS\_\_\_\_ - Major Ensemble (8 units minimum)²

#### Note

\*Enrollment in Class Piano (MUS 012 or 022) is required of music majors whose primary instrument is other than piano each semester until the Piano Proficiency requirements are met. An opportunity to attempt to pass the Piano Proficiency exam for first semester students will be offered during rehearsal camp. For returning students, an attempt to pass the exam or portions of the exam will be offered at the end of each semester. See Music Handbook for Piano Proficiency requirements.

\*\*Students must complete eight (8) units of Private Instruction on the same instrument or voice. \_\_\_\_\_

¹Enrollment for one unit of MUS 080-089, 460-469 Private Instruction is required for each semester of residence for all music majors. A minimum of eight (8) units is required.

²Enrollment is required in at least one Major Ensemble (MUS 067, 068, 091, 092, 094, 097, 099, 490A, 490B, 490C, 490D, 490E, 490F, 490H) for full credit during each semester of enrollment at California Baptist University. A minimum of eight (8) units is required. Additional ensembles may be taken for 0-1 units.

### Core Lower Division Requirements

- MUS 114 - Music Theory I
- MUS 115 - Musicianship Lab I
- MUS 124 - Music Theory II

- MUS 125 - Musicianship Lab II
- MUS 202 - Music in Global Cultures
- MUS 214 - Music Theory III
- MUS 215 - Musicianship Lab III
- MUS 224 - Music Theory IV
- MUS 225 - Musicianship Lab IV
- MUS 282 - Music Technology

## Core Upper Division Requirements

- MUS 312 - Introduction to Conducting
- MUS 313 - Music History I
- MUS 323 - Music History II
- MUS 324 - Music History III
- MUS 325 - Music History IV
- MUS 360 - Theology, History, and Practice of Worship
- MUS 431 - Senior Recital and Project

## Music Education Major Requirements

### Lower Division Requirement

- MUS 014 - Class Guitar

### Upper Division Requirements

- EDU 498 - Student Teaching and Seminar
- EDU 499 - Student Teaching Portfolio
- MUS 311 - Form and Analysis
- MUS 405 - Introduction to Music Education
- MUS 408 - Jazz Pedagogy
- MUS 440 - Instrumental Techniques for Woodwinds
- MUS 441 - Instrumental Techniques for Brass
- MUS 442 - Instrumental Techniques for Percussion
- MUS 443 - Instrumental Techniques for Strings
- MUS 444 - Vocal Techniques
- MUS 472 - Orchestration
- MUS 473 - Advanced Studies in Music Education
- MUS 475 - General Music Methods

## Emphasis Requirements

Music Education students must select an emphasis from the following: Choral Emphasis; Instrumental Emphasis

## Choral Emphasis

- MUS 344 - Choral Literature
- MUS 413 - Choral Conducting
- MUS 427 - Diction for Singers I
- MUS 428 - Diction for Singers II
- MUS 479 - Choral Methods
- MUS 491H - Chamber Ensemble: Chamber Singers (3 units)

## Instrumental Emphasis

### Core Instrumental Emphasis Requirements

- MUS 345 - Orchestral and Band Literature
- MUS 412 - Instrumental Conducting
- MUS 445 - Marching Band Techniques
- MUS 476 - Instrumental Methods

### Chamber Music Requirement

Complete three (3) units from the following:

- MUS 490A - Major Ensemble: Symphonic Band
- MUS 491A - Chamber Ensemble: Strings
- MUS 491B - Chamber Ensemble: Piano
- MUS 491C - Chamber Ensemble: Guitar
- MUS 491D - Chamber Ensemble: Winds
- MUS 491E - Chamber Ensemble: Jazz Combo
- MUS 491F - Chamber Ensemble: Jazz Ensemble

## Music for Worship Arts and Ministry, BA

The Music for Worship Arts and Ministry major program is designed to prepare students for worship ministry in the highly eclectic culture of the modern evangelical church. The program is built to fully equip worship leaders/pastors to be musically excellent and stylistically versatile, proficient in pastoral and professional skills, and committed to the scriptural calling of servant leadership in the example of Christ. To earn a major in Music for Worship arts students must also declare and complete all requirements for the minor in Christian Ministries. The major and minor together is a ninety (90) unit program.

## Traditional Major Program Requirements (75 units)

### Applied Music Requirements

- MUS 015 - Class Piano for Worship Arts and Commercial Music I \*
- MUS 017 - Class Guitar for Worship Arts I
- MUS 025 - Class Piano for Worship Arts and Commercial Music II \*

- MUS 027 - Class Guitar for Worship Arts II
- MUS 054 - Worship Forum (4 units)
- MUS 454 - Worship Forum (4 units)

## Note

\*Piano Proficiency Requirements and Exemptions: Pianists who pass all fifteen (15) skills of Piano Proficiency (Division III) may be exempt from MUS 015 and 025. Students must stay enrolled in Class Piano for Worship Arts and Commercial Music until Piano Proficiency is completed.

## Private Instruction Requirements

Complete six (6) units from either of the following two courses:

- MUS 081 - Private Instruction: Voice \*\*
- MUS 461 - Private Instruction: Voice \*\*

Complete four (4) units from either of the following two course sequences:

- MUS 082 - Private Instruction: Piano \*\*
- MUS 462 - Private Instruction: Piano \*\*
- OR**
- MUS 088 - Private Instruction: Guitar \*\*
- MUS 468 - Private Instruction: Guitar \*\*

## Note

\*\*Private Instruction Requirements: Students must stay enrolled in Private Instruction: Voice AND Private Instruction: Piano OR Private Instruction: Guitar until Level 3 of the Worship Arts Proficiency is completed.

## Ensemble Requirements

Complete six (6) units from the following:

- MUS 055 - Worship Arts Ensemble
- MUS 455 - Worship Arts Ensemble

## Lower Division Requirements

- COM 113 - Oral Communication **OR**
- CST 451 - Biblical Preaching
- MUS 114 - Music Theory I
- MUS 115 - Musicianship Lab I
- MUS 120 - Introduction to Music Ministry
- MUS 124 - Music Theory II
- MUS 125 - Musicianship Lab II
- MUS 202 - Music in Global Cultures
- MUS 214 - Music Theory III
- MUS 215 - Musicianship Lab III

- MUS 282 - Music Technology

## Upper Division Requirements

- CBS 403 - Congregation and Community *OR*
- CBS 415 - Biblical Wisdom and Human Behavior
- MUS 301 - Survey of Music History
- MUS 304 - Craft of Ministry I
- MUS 312 - Introduction to Conducting
- MUS 332 - Psalms, Hymns, and Spiritual Songs
- MUS 360 - Theology, History, and Practice of Worship
- MUS 364 - Songwriting and Commercial Production
- MUS 370 - Worship Technology
- MUS 404 - Craft of Ministry II
- MUS 434 - Creative Worship Planning
- MUS 474 - Worship Ministry Internship
- MUS 494 - Senior Recital and Project for Worship Arts

## Christian Studies Minor Requirements

Student must declare and complete all requirements for the Christian Studies minor, including the following courses:

**Christian Studies Courses:** CST 110, 130, 350, 360\*, and 370

**Upper Division Elective Requirements** (three units from the following): PHI 303, 324, 343, 353, 433

\* MUS 360 Theology, History, and Practice of Worship is an approved variance for CST 360 Church History (3 units) in the Christian Studies Minor.

## Optional Concentrations (12 units)

Students can earn an optional concentration in the following areas: Jazz Studies; Keyboard Collaborative Arts; Live Music Production (MD); Songwriting; Studio Production; Worship Tech

Each optional concentration requires the completion of a minimum of twelve (12) distinct units beyond the major.

Note: Music for Worship Arts and Ministry majors may not complete the Worship Arts concentration.

### Jazz Studies

- MUS 308 - History of Jazz
- MUS 408 - Jazz Pedagogy
- MUS 491E - Chamber Ensemble: Jazz Combo (3 units)
- MUS 491F - Chamber Ensemble: Jazz Ensemble (4 units)

### Keyboard Collaborative Arts

- MUS 346 - Repertoire for Accompanists
- MUS 376 - Performance Styles for Accompanists
- MUS 427 - Diction for Singers I
- MUS 428 - Diction for Singers II
- MUS 444 - Vocal Techniques
- MUS 469 - Private Instruction: Accompanying (4 units)

### Live Music Production (MD)

- MUS 326 - Commercial Arranging I
- MUS 336 - Commercial Arranging II
- MUS 366 - Live Sound Techniques and Applications
- MUS 370 - Worship Technology **OR**
- APT 482 - Pastoral Leadership
- MUS 412 - Instrumental Conducting **OR**
- MUS 413 - Choral Conducting

### Songwriting

#### Core Songwriting Requirement

- MUS 355 - Private Lessons in Songwriting (6 units)

#### Additional Songwriting Requirements

Complete six (6) additional units from the following:

- MUS 305 - Survey of Popular Song
- MUS 326 - Commercial Arranging I
- MUS 347 - Music Production I
- MUS 355 - Private Lessons in Songwriting (1 unit)
- MUS 364 - Songwriting and Commercial Production

### Studio Production

- MUS 347 - Music Production I
- MUS 357 - Music Production II
- MUS 386 - Audio Recording and Studio Techniques I
- MUS 387 - Audio Recording and Studio Techniques II

### Worship Tech

- GDM 341 - Video Fundamentals
- MUS 347 - Music Production I
- MUS 366 - Live Sound Techniques and Applications

- MUS 396 - Lighting Techniques and Applications

## Music, BA

The Bachelor of Arts in Music degree is a generally focused major in the field of music. Through studies in foundational principles of music and performance, students will gain a broad understanding of music paired with other fields of study.

### Major Requirements (49-51 units)

#### Core Applied Music Requirements

- MUS 012 - Class Piano I \*
- MUS 022 - Class Piano II \*
- MUS 080-089 Private Instruction (8 units minimum)\*\*
- MUS\_\_\_\_ - Ensemble (4 units)\*\*\*

\*Enrollment in Class Piano (MUS 012 or 022) is required of music majors whose primary instrument is other than piano each semester until the Piano Proficiency requirements are met. An opportunity to attempt to pass the Piano Proficiency exam for first semester students will be offered during rehearsal camp. For returning students, an attempt to pass the exam or portions of the exam will be offered at the end of each semester. (See Music Handbook for Piano Proficiency requirements.)

\*\*Students must complete eight (8) units of Private Instruction on the same instrument or voice.

\*\*\*Students must enroll and complete four (4) units in one of the following ensembles: MUS 067, 068, 090, 091, 092, 094, 095, 096, 097, or 099

#### Core Lower Division Requirements

- MUS 114 - Music Theory I
- MUS 115 - Musicianship Lab I
- MUS 124 - Music Theory II
- MUS 125 - Musicianship Lab II
- MUS 202 - Music in Global Cultures
- MUS 214 - Music Theory III
- MUS 215 - Musicianship Lab III
- MUS 282 - Music Technology <sup>†</sup>

<sup>†</sup>MUS 282 satisfies the G.E. Technology requirement (Competency Requirement).

#### Core Upper Division Requirements

- MUS 301 - Survey of Music History <sup>††</sup>
- MUS 312 - Introduction to Conducting
- MUS 360 - Theology, History, and Practice of Worship <sup>†††</sup>
- MUS 431 - Senior Recital and Project

<sup>††</sup>MUS 301 satisfies the G.E. History requirement (Political World).



†††MUS 360 satisfies three (3) units of the G.E. Christian Studies requirement (Biblical and Theological Core).

## Upper Division Music Electives

Complete twelve (12) units from the following courses:

- MUS 306 - History of Popular Music
- MUS 308 - History of Jazz
- MUS 309 - History of Film Music
- MUS 313 - Music History I
- MUS 323 - Music History II
- MUS 324 - Music History III ††††
- MUS 325 - Music History IV
- MUS 333 - Song Literature
- MUS 334 - Piano Literature I
- MUS 335 - Piano Literature II
- MUS 346 - Repertoire for Accompanists
- MUS 372 - Counterpoint
- MUS 376 - Performance Styles for Accompanists
- MUS 408 - Jazz Pedagogy
- MUS 412 - Instrumental Conducting
- MUS 413 - Choral Conducting
- MUS 417 - Vocal Pedagogy
- MUS 418 - Piano Pedagogy I
- MUS 419 - Instrumental Pedagogy
- MUS 427 - Diction for Singers I
- MUS 428 - Diction for Singers II
- MUS 438 - Piano Pedagogy II
- MUS 444 - Vocal Techniques
- MUS 450 - Observations and Practicum in Teaching Methods
- MUS 472 - Orchestration
- MUS\_\_\_ - Ensembles; Upper Division Ensemble or Chamber Music (maximum of 8 units)

††††MUS 324 satisfies the G.E. History requirement (Political World).

## Piano Performance, BM

The Bachelor of Music in Piano Performance at CBU prepares students with the fundamental musical skills, technical competencies, stylistic understanding, and artistic cultivation to successfully pursue a career in piano performance. Highlights of the program include strong theoretical and musicianship training, thorough studies in music history and piano literature, pedagogical coaching, collaborative training in a variety of musical styles, and rigorous performance instruction, including private study with CBU faculty and consistent engagement with professional performers through residencies and masterclasses. Students in the program will also be required to actively perform throughout their tenure. These performances include numerous individual solo performances, two capstone recital presentations, and

collaborative performances in a variety of styles, including solo vocal and instrumental repertory, choral and instrumental ensembles, and chamber music.

## Traditional Major Program Requirements (88 units)

### General Education Requirements (40-55 units)

The General Education requirements will follow the curriculum set forth for other University degree programs. Twelve (12) units of G.E. requirements will be met through the specific coursework of the Piano Performance major. See School of Music Handbook for details.

### Core Applied Music Requirements

- MUS 082 - Private Instruction: Piano (8 units minimum)<sup>1</sup>
- MUS\_\_\_\_ - Major Ensemble (8 units minimum)<sup>2</sup>

#### Note

Piano Performance majors must pass Piano Proficiency (Division I). The necessary skills will be covered in Private Instruction, so Class Piano is not required. An opportunity to attempt to pass the Piano Proficiency exam for first semester students will be offered during rehearsal camp. For returning students, an attempt to pass the exam or portions of the exam will be offered at the end of each semester. See Music Handbook for Piano Proficiency requirements.

\*\*Students must complete eight (8) units of Private Instruction on the same instrument or voice. \_\_\_\_\_

<sup>1</sup>Enrollment for one unit of MUS 080-089, 460-469 Private Instruction is required for each semester of residence for all music majors. A minimum of eight (8) units is required.

<sup>2</sup>Enrollment is required in at least one Major Ensemble (MUS 067, 068, 091, 092, 094, 097, 099, 490A, 490B, 490C, 490D, 490E, 490F, 490H) for full credit during each semester of enrollment at California Baptist University. A minimum of eight (8) units is required. Additional ensembles may be taken for 0-1 units.

### Core Lower Division Requirements

- MUS 114 - Music Theory I
- MUS 115 - Musicianship Lab I
- MUS 124 - Music Theory II
- MUS 125 - Musicianship Lab II
- MUS 202 - Music in Global Cultures
- MUS 214 - Music Theory III
- MUS 215 - Musicianship Lab III
- MUS 224 - Music Theory IV
- MUS 225 - Musicianship Lab IV
- MUS 236 - Music Entrepreneurship
- MUS 282 - Music Technology

## Core Upper Division Requirements

- MUS 312 - Introduction to Conducting
- MUS 313 - Music History I
- MUS 323 - Music History II
- MUS 324 - Music History III
- MUS 325 - Music History IV
- MUS 341 - Junior Recital
- MUS 360 - Theology, History, and Practice of Worship
- MUS 431 - Senior Recital and Project

## Piano Performance Major Requirements

### Private Instruction Requirements

- MUS 462 - Private Instruction: Piano (8 units)

### Ensemble Requirements

#### Core Ensemble Requirements

Complete two (2) units from the following:

- MUS 093 - Chamber Singers
- MUS 095 - Chamber Ensemble

#### Additional Ensemble Requirements

Complete two (2) additional units from the following:

- MUS 067 - Symphonic Band
- MUS 068 - Camerata
- MUS 090 - University Choir and Orchestra
- MUS 091 - Magnolia Singers
- MUS 092 - Lancer Chorus
- MUS 093 - Chamber Singers
- MUS 094 - Rhapsody
- MUS 095 - Chamber Ensemble
- MUS 096 - Jazz Ensemble
- MUS 097 - Wind Ensemble
- MUS 099 - Symphony Orchestra
- MUS 489 - University Choir and Orchestra
- MUS 490A - Major Ensemble: Symphonic Band
- MUS 490B - Major Ensemble: Camerata
- MUS 490C - Major Ensemble: Magnolia Singers

- MUS 490D - Major Ensemble: Lancer Chorus
- MUS 490E - Major Ensemble: Rhapsody
- MUS 490F - Major Ensemble: Wind Ensemble
- MUS 490H - Major Ensemble: Symphony Orchestra
- MUS 491B - Chamber Ensemble: Piano
- MUS 491E - Chamber Ensemble: Jazz Combo
- MUS 491F - Chamber Ensemble: Jazz Ensemble
- MUS 491H - Chamber Ensemble: Chamber Singers

### Lower Division Requirement

- MUS 256 - Basics of Accompanying

### Upper Division Requirements

- MUS 334 - Piano Literature I
- MUS 335 - Piano Literature II
- MUS 418 - Piano Pedagogy I

### Additional Requirements

Students must complete twelve (12) units of additional upper division music electives

### OR

Complete one of the concentrations: Jazz Studies; Keyboard Collaborative Arts; Live Music Production (MD); Piano Pedagogy; Songwriting; Studio Production; Worship Arts; Worship Tech

#### Jazz Studies

- MUS 308 - History of Jazz
- MUS 408 - Jazz Pedagogy
- MUS 491E - Chamber Ensemble: Jazz Combo (3 units)
- MUS 491F - Chamber Ensemble: Jazz Ensemble (4 units)

#### Keyboard Collaborative Arts

- MUS 346 - Repertoire for Accompanists
- MUS 376 - Performance Styles for Accompanists
- MUS 427 - Diction for Singers I
- MUS 428 - Diction for Singers II
- MUS 444 - Vocal Techniques
- MUS 469 - Private Instruction: Accompanying (4 units)

#### Live Music Production (MD)

- MUS 326 - Commercial Arranging I
- MUS 336 - Commercial Arranging II
- MUS 366 - Live Sound Techniques and Applications
- MUS 370 - Worship Technology **OR**
- APT 482 - Pastoral Leadership
- MUS 412 - Instrumental Conducting **OR**
- MUS 413 - Choral Conducting

#### Piano Pedagogy

- MUS 405 - Introduction to Music Education
- MUS 418 - Piano Pedagogy I
- MUS 438 - Piano Pedagogy II
- MUS 450 - Observations and Practicum in Teaching Methods (2 units)
- MUS 475 - General Music Methods

#### Songwriting

##### Core Songwriting Requirement

- MUS 355 - Private Lessons in Songwriting (6 units)

##### Additional Songwriting Requirements

Complete six (6) additional units from the following:

- MUS 305 - Survey of Popular Song
- MUS 326 - Commercial Arranging I
- MUS 347 - Music Production I
- MUS 355 - Private Lessons in Songwriting (1 unit)
- MUS 364 - Songwriting and Commercial Production

#### Studio Production

- MUS 347 - Music Production I
- MUS 357 - Music Production II
- MUS 386 - Audio Recording and Studio Techniques I
- MUS 387 - Audio Recording and Studio Techniques II

#### Worship Arts

- MUS 304 - Craft of Ministry I
- MUS 332 - Psalms, Hymns, and Spiritual Songs
- MUS 370 - Worship Technology **OR**
- CST 370 - The Christian Faith

- MUS 434 - Creative Worship Planning
- MUS 454 - Worship Forum (2 units)

#### Worship Tech

- GDM 341 - Video Fundamentals
- MUS 347 - Music Production I
- MUS 366 - Live Sound Techniques and Applications
- MUS 396 - Lighting Techniques and Applications

## Songwriting, BM

The songwriting degree trains students to be agile and adaptable creators of unique musical works in the 21st century. To fully prepare students for success in the current and emerging music industry, students are trained in an immersive and integrated program-musically, technologically, and entrepreneurially.

### Traditional Major Program Requirements (87 Units)

#### General Education Requirements (40-55 Units)

The General Education requirements will follow the curriculum set forth for other University degree programs. Sixteen (16) units of G.E. requirements will be met through the specific coursework of the Songwriting major. See School of Music Handbook for details.

#### Lower Division Performance Requirements

- MUS 015 - Class Piano for Worship Arts and Commercial Music I \*
- MUS 016 - Rhythm Instruments I
- MUS 025 - Class Piano for Worship Arts and Commercial Music II
- MUS 026 - Rhythm Instruments II \*
- MUS 046 - Popular Music Ensemble: 50s-70s (2 units)
- MUS 047 - Popular Music Ensemble: 80s-Contemporary (2 units)
- MUS 080-089 - Private Instruction (4 units, same instrument)

\*Piano Proficiency Requirements and Exemptions:

- Students must stay enrolled in Class Piano for Worship Arts until piano proficiency is completed.
- Pianists who pass all fifteen (15) skills of piano proficiency (Division III) may be exempt from MUS 015 and MUS 025.

#### Lower Division Requirements

- MUS 105 - Introduction to Commercial Music Studies
- MUS 114 - Music Theory I
- MUS 115 - Musicianship Lab I
- MUS 124 - Music Theory II

- MUS 125 - Musicianship Lab II
- MUS 236 - Music Entrepreneurship
- MUS 246 - Music Marketing
- MUS 282 - Music Technology
- PHY 125 - Physics of Sound and Music
- PHY 125L - Physics of Sound and Music Lab

## Upper Division Performance Requirements

- MUS 446 - Commercial Music Ensemble (2 units)

## Upper Division Requirements

- MUS 301 - Survey of Music History
- MUS 305 - Survey of Popular Song
- MUS 306 - History of Popular Music
- MUS 308 - History of Jazz
- MUS 347 - Music Production I
- MUS 356 - Commercial Instrumental or Vocal Project I
- MUS 357 - Music Production II
- MUS 360 - Theology, History, and Practice of Worship
- MUS 386 - Audio Recording and Studio Techniques I
- MUS 387 - Audio Recording and Studio Techniques II
- MUS 456 - Commercial Instrumental or Vocal Project II
- MUS 496 - Internship

## Songwriting Requirements

- MUS 151 - Songwriting Workshop: Foundations
- MUS 152 - Songwriting Workshop: Craft
- MUS 251 - Songwriting Workshop: Media
- MUS 252 - Songwriting Workshop: Applications
- MUS 459 - Private Songwriting Lessons (4 units)

## Songwriting Elective Requirements

Complete eight (8) units from the following:

- ENG 385 - Writing Poetry
- ENG 485 - Advanced Poetry Writing
- MUS 214 - Music Theory III
- MUS 215 - Musicianship Lab III
- MUS 224 - Music Theory IV
- MUS 225 - Musicianship Lab IV

- MUS 326 - Commercial Arranging I
- MUS 336 - Commercial Arranging II
- MUS 460 - Private Instruction

## **Studio Production, BM**

This major equips students to understand and apply technologies in the field of studio production, preparing them for diverse careers in the music industry. Students will learn technologies and principles in current use as well as emerging technologies and practices utilized by professionals within the field of studio production.

## **Traditional Major Program Requirements (86 units)**

### **General Education Requirements (40-55 units)**

The General Education requirements will follow the curriculum set forth for other University degree programs. Sixteen (16) units of G.E. requirements will be met through the specific coursework of the Studio Production major. See School of Music Handbook for details.

### **Performance Requirements**

- MUS 015 - Class Piano for Worship Arts and Commercial Music I
- MUS 016 - Rhythm Instruments I
- MUS 025 - Class Piano for Worship Arts and Commercial Music II
- MUS 026 - Rhythm Instruments II
- MUS 080-089 - Private Instruction (4 units)

### **Lower Division Requirements**

- MUS 105 - Introduction to Commercial Music Studies
- MUS 114 - Music Theory I
- MUS 115 - Musicianship Lab I
- MUS 124 - Music Theory II
- MUS 125 - Musicianship Lab II
- MUS 214 - Music Theory III
- MUS 215 - Musicianship Lab III
- MUS 217 - Critical Listening for Music Production
- MUS 236 - Music Entrepreneurship
- MUS 246 - Music Marketing
- MUS 282 - Music Technology
- PHY 125 - Physics of Sound and Music
- PHY 125L - Physics of Sound and Music Lab

### **Upper Division Requirements**



- MUS 301 - Survey of Music History
- MUS 306 - History of Popular Music
- MUS 308 - History of Jazz
- MUS 326 - Commercial Arranging I
- MUS 337 - Audio Signal Processing
- MUS 347 - Music Production I
- MUS 357 - Music Production II
- MUS 360 - Theology, History, and Practice of Worship
- MUS 366 - Live Sound Techniques and Applications
- MUS 367 - Contemporary Trends in Music Engineering
- MUS 377 - Post Production and Editing
- MUS 386 - Audio Recording and Studio Techniques I
- MUS 387 - Audio Recording and Studio Techniques II
- MUS 396 - Lighting Techniques and Applications
- MUS 397 - Studio Production Project I
- MUS 477 - Audio Mastering
- MUS 487 - Sound Design for Film and Multimedia
- MUS 496 - Internship
- MUS 497 - Studio Production Project II

## **Theatre, BA**

Students in the Theatre major will demonstrate their ability to prepare and present theatrical skills in the areas of design and production utilizing a variety of nationally recognized techniques.

### **Traditional Major Program Requirements (51-54 units)**

#### **Lower Division Requirements**

- THE 111 - Fundamentals of Stagecraft
- THE 113 - Makeup for Stage and Screen
- THE 183 - Acting I: Fundamentals of Acting
- THE 211 - Introduction to Stage Design and Management
- THE 232 - Play Structure and Analysis

#### **Lower Division Performance Practicum Requirement**

Complete three (3) units from the following:

- THE 163 - Production Practicum: Performance
- THE 263 - Production Practicum: Performance

#### **Lower Division Technical Practicum Requirement**

Complete three (3) units from the following:

- THE 164 - Production Practicum: Technical
- THE 264 - Production Practicum: Technical

## Upper Division Requirements

- THE 332 - Theatre History I
- THE 342 - Theatre History II
- THE 353 - Directing I
- THE 498 - Capstone Portfolio

## Upper Division Performance Practicum Requirement

Complete three (3) units from the following:

- THE 363 - Production Practicum: Performance
- THE 463 - Production Practicum: Performance

## Upper Division Technical Practicum Requirement

Complete three (3) units from the following:

- THE 364 - Production Practicum: Technical
- THE 464 - Production Practicum: Technical

## Concentration Courses (15-18 units)

Students must complete all requirements in one of the following concentrations: Design/Technical Theatre; Performance

### Design/Technical Theatre (15 units)

#### Lower Division Requirement

- THE 221 - Techniques in Pre-Visualization of Design

#### Upper Division Elective Requirements

Complete twelve (12) upper division units from the following:

- THE 313 - Advanced Makeup
- THE 431 - Advanced Design: Lighting
- THE 432 - Advanced Design: Scenery
- THE 433 - Advanced Design: Sound
- THE 434 - Advanced Design: Costume
- THE 435 - Moving Light Programming

### Performance (18 units)

## Core Requirements

- THE 123 - Voice and Diction for the Stage
- THE 223 - Movement for the Stage **OR**
- THE 233 - Introduction to Musical Theatre Dance
- THE 283 - Acting II: Scene Study
- THE 383 - Acting III: Acting Shakespeare
- THE 483 - Acting IV: Departures from Realism

## Upper Division Elective Requirement

Complete three (3) additional units from the following:

- THE 313 - Advanced Makeup
- THE 330 - Advanced Acting for the Camera
- THE 345 - Applied Theatre
- THE 431 - Advanced Design: Lighting
- THE 432 - Advanced Design: Scenery
- THE 433 - Advanced Design: Sound
- THE 434 - Advanced Design: Costume
- THE 435 - Moving Light Programming
- THE 441 - Auditioning

## Vocal Performance, BM

The Bachelor of Music in Vocal Performance at CBU prepares students with the fundamental musical skills, technical competencies, stylistic range, and artistic cultivation to successfully pursue a career in vocal performance. Highlights of the program include strong theoretical and musicianship training, thorough studies in music history and vocal literature, pedagogical coaching in a variety of stylistic genres, and rigorous performance instruction, including private study with CBU faculty and consistent engagement with professional performers through residencies and masterclasses. Students in the program will also be required to actively perform throughout their tenure in a diverse cross-section of styles and settings. These performances will include numerous individual solo performances, two capstone recital presentations, and collaborative performances ranging from traditional choral ensembles to modern vocal jazz, from early chamber music to theatrical genres such as opera and musical theater.

## Traditional Major Program Requirements (88-90 units)

### General Education Requirements (40-55 units)

The General Education requirements will follow the curriculum set forth for other University degree programs. Twelve (12) units of G.E. requirements will be met through the specific coursework of the Vocal Performance major. See School of Music Handbook for details.

## Core Applied Music Requirements

- MUS 012 - Class Piano I \*
- MUS 022 - Class Piano II \*
- MUS\_\_\_\_ - Private Instruction (8 units minimum\*\*)¹
- MUS\_\_\_\_ - Major Ensemble (8 units minimum)²

## Note

\*Enrollment in Class Piano (MUS 012 or 022) is required of music majors whose primary instrument is other than piano each semester until the Piano Proficiency requirements are met. An opportunity to attempt to pass the Piano Proficiency exam for first semester students will be offered during rehearsal camp. For returning students, an attempt to pass the exam or portions of the exam will be offered at the end of each semester. See Music Handbook for Piano Proficiency requirements.

\*\*Students must complete eight (8) units of Private Instruction on the same instrument or voice. \_\_\_\_\_

¹Enrollment for one unit of MUS 080-089, 460-469 Private Instruction is required for each semester of residence for all music majors. A minimum of eight (8) units is required.

²Enrollment is required in at least one Major Ensemble (MUS 067, MUS 068, 091, 092, 094, 097, 099, 490A, 490B, 490C, 490D, 490E, 490F, 490H) for full credit during each semester of enrollment at California Baptist University. A minimum of eight (8) units is required. Additional ensembles may be taken for 0-1 units.

## Core Lower Division Requirements

- MUS 114 - Music Theory I
- MUS 115 - Musicianship Lab I
- MUS 124 - Music Theory II
- MUS 125 - Musicianship Lab II
- MUS 202 - Music in Global Cultures
- MUS 214 - Music Theory III
- MUS 215 - Musicianship Lab III
- MUS 224 - Music Theory IV
- MUS 225 - Musicianship Lab IV
- MUS 236 - Music Entrepreneurship
- MUS 282 - Music Technology

## Core Upper Division Requirements

- MUS 312 - Introduction to Conducting
- MUS 313 - Music History I
- MUS 323 - Music History II
- MUS 324 - Music History III
- MUS 325 - Music History IV
- MUS 341 - Junior Recital
- MUS 360 - Theology, History, and Practice of Worship

- MUS 431 - Senior Recital and Project

## Vocal Performance Major Requirements

### Private Instruction Requirements

- MUS 461 - Private Instruction: Voice (8 units)

### Ensemble Requirements

#### Core Ensemble Requirements

- MUS 093 - Chamber Singers (2 units)

#### Additional Ensemble Requirements

Complete two (2) additional units from the following:

- MUS 068 - Camerata
- MUS 090 - University Choir and Orchestra
- MUS 091 - Magnolia Singers
- MUS 092 - Lancer Chorus
- MUS 093 - Chamber Singers
- MUS 094 - Rhapsody
- MUS 489 - University Choir and Orchestra
- MUS 490B - Major Ensemble: Camerata
- MUS 490C - Major Ensemble: Magnolia Singers
- MUS 490D - Major Ensemble: Lancer Chorus
- MUS 490E - Major Ensemble: Rhapsody
- MUS 491H - Chamber Ensemble: Chamber Singers

### Upper Division Requirements

- MUS 333 - Song Literature
- MUS 417 - Vocal Pedagogy
- MUS 423 - Vocal Repertory Lab
- MUS 427 - Diction for Singers I
- MUS 428 - Diction for Singers II

### Additional Requirements

Students must complete twelve (12) units of additional upper division music electives

**OR**

Complete one of the concentrations: Jazz Studies; Keyboard Collaborative Arts; Live Music Production (MD); Piano Pedagogy; Songwriting; Studio Production; Worship Arts; Worship Tech

### Jazz Studies

- MUS 308 - History of Jazz
- MUS 408 - Jazz Pedagogy
- MUS 491E - Chamber Ensemble: Jazz Combo (3 units)
- MUS 491F - Chamber Ensemble: Jazz Ensemble (4 units)

### Keyboard Collaborative Arts

- MUS 346 - Repertoire for Accompanists
- MUS 376 - Performance Styles for Accompanists
- MUS 427 - Diction for Singers I
- MUS 428 - Diction for Singers II
- MUS 444 - Vocal Techniques
- MUS 469 - Private Instruction: Accompanying (4 units)

### Live Music Production (MD)

- MUS 326 - Commercial Arranging I
- MUS 336 - Commercial Arranging II
- MUS 366 - Live Sound Techniques and Applications
- MUS 370 - Worship Technology **OR**
- APT 482 - Pastoral Leadership
- MUS 412 - Instrumental Conducting **OR**
- MUS 413 - Choral Conducting

### Piano Pedagogy

- MUS 405 - Introduction to Music Education
- MUS 418 - Piano Pedagogy I
- MUS 438 - Piano Pedagogy II
- MUS 450 - Observations and Practicum in Teaching Methods (2 units)
- MUS 475 - General Music Methods

### Songwriting

#### Core Songwriting Requirement

- MUS 355 - Private Lessons in Songwriting (6 units)

#### Additional Songwriting Requirements

Complete six (6) additional units from the following:

- MUS 305 - Survey of Popular Song
- MUS 326 - Commercial Arranging I
- MUS 347 - Music Production I
- MUS 355 - Private Lessons in Songwriting (1 unit)
- MUS 364 - Songwriting and Commercial Production

#### Studio Production

- MUS 347 - Music Production I
- MUS 357 - Music Production II
- MUS 386 - Audio Recording and Studio Techniques I
- MUS 387 - Audio Recording and Studio Techniques II

#### Worship Arts

- MUS 304 - Craft of Ministry I
- MUS 332 - Psalms, Hymns, and Spiritual Songs
- MUS 370 - Worship Technology **OR**
- CST 370 - The Christian Faith
- MUS 434 - Creative Worship Planning
- MUS 454 - Worship Forum (2 units)

#### Worship Tech

- GDM 341 - Video Fundamentals
- MUS 347 - Music Production I
- MUS 366 - Live Sound Techniques and Applications
- MUS 396 - Lighting Techniques and Applications

## Minor

### Music Minor

#### Traditional Minor Program Requirements (24 units)

##### Lower Division Requirements

##### Lower Division Private Instruction Requirements

Complete two (2) units from the following:

- MUS 080 - Private Instruction
- MUS 081 - Private Instruction: Voice
- MUS 082 - Private Instruction: Piano

- MUS 083 - Private Instruction: Organ
- MUS 084 - Private Instruction: Woodwinds
- MUS 085 - Private Instruction: Brass
- MUS 086 - Private Instruction: Strings
- MUS 087 - Private Instruction: Percussion
- MUS 088 - Private Instruction: Guitar

## Ensemble Requirements

Complete four (4) units from the following:

- MUS 067 - Symphonic Band
- MUS 068 - Camerata
- MUS 090 - University Choir and Orchestra
- MUS 091 - Magnolia Singers
- MUS 092 - Lancer Chorus
- MUS 093 - Chamber Singers
- MUS 094 - Rhapsody
- MUS 095 - Chamber Ensemble
- MUS 096 - Jazz Ensemble
- MUS 097 - Wind Ensemble
- MUS 099 - Symphony Orchestra

## Lower Division Course Requirements

- MUS 114 - Music Theory I
- MUS 115 - Musicianship Lab I
- MUS 282 - Music Technology

## Upper Division Requirements

### Upper Division Private Instruction Requirements

Complete two (2) units from the following:

- MUS 460 - Private Instruction
- MUS 461 - Private Instruction: Voice
- MUS 462 - Private Instruction: Piano
- MUS 463 - Private Instruction: Organ
- MUS 464 - Private Instruction: Woodwinds
- MUS 465 - Private Instruction: Brass
- MUS 466 - Private Instruction: Strings
- MUS 467 - Private Instruction: Percussion
- MUS 468 - Private Instruction: Guitar



## Upper Division Course Requirement

- MUS 301 - Survey of Music History

## Upper Division Electives

Complete seven (7) units from the following:

- MUS 308 - History of Jazz
- MUS 316 - Opera Theater Workshop
- MUS 332 - Psalms, Hymns, and Spiritual Songs
- MUS 360 - Theology, History, and Practice of Worship
- MUS 364 - Songwriting and Commercial Production
- MUS 434 - Creative Worship Planning
- MUS 460-468 Private Instruction (1-2 units)

## Theatre Minor

### Traditional Minor Program Requirements (27 units)

#### Lower Division Requirements

- THE 111 - Fundamentals of Stagecraft
- THE 183 - Acting I: Fundamentals of Acting **OR**
- THE 230 - Acting for the Camera
- THE 211 - Introduction to Stage Design and Management

#### Lower Division Practicum Requirement

Complete three (3) units from the following:

- THE 163 - Production Practicum: Performance
- THE 164 - Production Practicum: Technical
- THE 263 - Production Practicum: Performance
- THE 264 - Production Practicum: Technical

#### Upper Division Elective Requirements

Twelve (12) upper division units in Theatre \*

\* A maximum of three (3) units from the following may be applied to the minor:

- THE 363 - Production Practicum: Performance
- THE 364 - Production Practicum: Technical

- THE 463 - Production Practicum: Performance
- THE 464 - Production Practicum: Technical

## Elective Requirement

- Three (3) additional lower or upper division units in Theatre \*

## Worship Arts and Ministry Minor

This minor is designed to equip future worship leaders with musical, presentational, technical, organizational, and pastoral skills essential for the facilitation of worship ministry in the modern evangelical church.

## Traditional Minor Program Requirements (23 units)

### Applied Music Requirements

- MUS 081 - Private Instruction: Voice (1 unit)
- MUS 461 - Private Instruction: Voice (1 unit)
- MUS 054 - Worship Forum (1 unit)
- MUS 454 - Worship Forum (1 unit)

### Two-Semester Sequence Applied Music Requirement

Complete a two-semester sequence from the following:

- MUS 082 - Private Instruction: Piano (1 unit)
- MUS 462 - Private Instruction: Piano (1 unit)
- OR
- MUS 088 - Private Instruction: Guitar (1 unit)
- MUS 468 - Private Instruction: Guitar (1 unit)

### Lower Division Requirements

- MUS 114 - Music Theory I
- MUS 115 - Musicianship Lab I
- MUS 120 - Introduction to Music Ministry

### Upper Division Requirements

- MUS 304 - Craft of Ministry I
- MUS 360 - Theology, History, and Practice of Worship
- MUS 370 - Worship Technology

### Christian Studies Requirement

Complete three (3) units from the following:

- CST 350 - Biblical Interpretation
- CST 360 - Church History
- CST 370 - The Christian Faith

# University Programs

## Honors Program

The University Honors Program is a community of thinkers who actively seek wisdom and virtue in community. Honors students research, discuss, and debate the fundamental questions of life through advanced interdisciplinary seminars that fulfill many University general education requirements. The Honors Program is a University-wide academic program that students take in conjunction with their majors and minors.

For more information contact the School of Christian Ministries Office at 951.343.4248 or e-mail [honors@calbaptist.edu](mailto:honors@calbaptist.edu).

## Reserve Officer Training Corps (ROTC) Program

California Baptist University offers a Military Science and Leadership Army Reserve Officer Training Corps (ROTC) program on campus and an Air Force ROTC program through concurrent enrollment at California State University, San Bernardino. Students may also enroll in ROTC courses at another institution while completing their degree programs at California Baptist University. Representatives from other participating ROTC programs make regular visits to California Baptist University to provide information to prospective students.

Scholarships may be available for books, tuition, and fees associated with various major fields of study. For more information about the Military Science and Leadership Army ROTC Program contact the Assistant Professor of Military Science at 951.343.4773 or e-mail [ROTC@calbaptist.edu](mailto:ROTC@calbaptist.edu). For more information about the Air Force ROTC program contact the CSUSB Aerospace Studies Department at 909.880.5440. Students interested in concurrent enrollment should contact the Office of the University Registrar at California Baptist University.

## Single Subject Matter Competency Programs

California Baptist University offers a selection of state approved subject matter competency programs as listed below. Candidates planning to teach in California must demonstrate subject matter competence. Subject matter competency may also be met through different means. Interested individuals can meet with a School of Education advisor to explore alternative options.

English

Math

Music

Science

Social Science

Spanish

## University Program

## Air Force ROTC Program

The Air Force Reserve Officer Training Corps (AFROTC) at California State University, San Bernardino is a program designed to commission college students as second lieutenants in the active duty Air Force. Students are required to graduate with a bachelor's degree, in any academic major, and complete one of the two program options.

Program Requirements are provided from the California State University, San Bernardino University Catalog. Student will be required to complete the requirements set forth by CSUSB for program completion.

## Traditional University Program Requirements

### Option 1: Four Year Program

The four-year program is available to students with three to four years of undergraduate/graduate study remaining. Entry into the program requires University course enrollment and consultation with the AFROTC admissions officer in the Aerospace Studies Department at California State University, San Bernardino. The program consists of three parts: General Military Course (academics and laboratory), Field Training, and the Professional Officer Course (academics and laboratory).

#### General Military Courses (GMC)

- AIR 090 - Leadership Laboratory (required every term)
- AIR 101 - The Air Force Today I
- AIR 102 - The Air Force Today II
- AIR 103 - The Air Force Today III
- AIR 201 - The Development of Air Power I
- AIR 202 - The Development of Air Power II
- AIR 203 - The Development of Air Power III

#### Field Training

A four-week, non-credit course conducted at an Air Force base during the summer between the second and third years of the program. Successful completion is required before continuing in the program.

#### Professional Officer Courses (POC)

- AIR 090 - Leadership Laboratory
- AIR 301 - Air Force Leadership and Management I
- AIR 302 - Air Force Leadership and Management II
- AIR 303 - Air Force Leadership and Management III
- AIR 401 - National Security Forces in Contemporary American Society I
- AIR 402 - National Security Forces in Contemporary American Society II
- AIR 403 - National Security Forces in Contemporary American Society III

### Option 2: Two Year Program

Application for the two year program is made in the fall and winter quarters at CSUSB for Field Training attendance during the summer, and prior to entry into the POC. Field Training selection is based on number of highly competitive criteria. For an application and selection criteria contact the Aerospace Studies Department at CSUSB. The two year

program is available to students with two years of undergraduate/graduate study remaining. The program consists of two parts: Field Training and the Professional Officer Course (academics and laboratory).

## Field Training

Prerequisite for entry in the two-year program. A five-week, non-credit course conducted at an Air Force base during the summer before entry into the Professional Officer Course. Successful completion is required before continuing in the program.

## Professional Officer Courses (POC)

- AIR 090 - Leadership Laboratory (required every term)
- AIR 301 - Air Force Leadership and Management I
- AIR 302 - Air Force Leadership and Management II
- AIR 303 - Air Force Leadership and Management III
- AIR 401 - National Security Forces in Contemporary American Society I
- AIR 402 - National Security Forces in Contemporary American Society II
- AIR 403 - National Security Forces in Contemporary American Society III

## Honors Program

The California Baptist University Honors Program exists to pursue wisdom and virtue in community. The goal of this pursuit is to foster and mold thinkers, leaders, and citizens, who will go into the world as agents of healing, who demonstrate the character of Christ, and act to influence, and promote, human and societal flourishing. The program is cohort based and open to students of all majors, which helps to foster a communal and interdisciplinary approach to problem solving and idea creation.

## Traditional Honors Program Requirements (30 units)

### Lower Division Requirements

- HON 101 - Human Nature
- HON 190 - The History of Science
- HON 251 - Christian Character and the Community of Faith
- HON 260 - Society and Media Theory

### Upper Division Requirements

- APT 371 - Christian Theology I
- APT 372 - Christian Theology II
- HON 310 - The Just Society
- HON 320 - The Flourishing Writer
- HON 345 - Virtue in a Secular Age
- HON 380 - Interpersonal Dynamics and Community

## Intensive English Program

The Intensive English Program is a full-time, pre-academic and bridge program which fosters cross-cultural exchange by providing English as a Second Language (ESL) instruction to non-English speaking students in preparation for study at CBU. In particular, ESL takes place in a classroom setting, collaborating with International Student Services (ISS) on co-curricular activities outside of the classroom.

Further information on the Intensive English Program course progression and ESL courses can be located in the Academic Programs section of this catalog.

## Admission Requirements

### Intensive English Program Admission Requirements

#### When to Apply:

The Application and completion of the file for admission into the Intensive English Program Pre-MBA Track must be made according to the following deadlines:

Session	Deadline
Fall Semester	July 1
Spring Semester	November 1

Once all admission requirements have been met and the applicant is approved for admission, a letter of acceptance and the form I-20 will be issued.

#### Application Procedure:

To be considered for admission into the Intensive English Program, students must submit the following\*:

Completion of the application for the Intensive English Program

Payment of the \$45.00 non-refundable application fee

Proof of graduation from high school or GED

Proof of Financial Support

International students must submit proof of financial support before an I-20 will be issued. Students must send the following items:

A certified bank statement demonstrating sufficient funds for study. Financial support must guarantee and certify funds equal to a minimum of one year of the student's academic program

The Sponsor's Commitment of Financial Support form, provided by California Baptist University  
International students must pay semester charges in full within the first week of classes during each semester of enrollment

\*Additional requirements for specialized tracks offered through the Intensive English Program could be required, depending on the program.

## Traditional University Program Requirements

### Level 1

- ESL 007 - English Foundations **OR**

- ESL 008 - Pronunciation I
- GST 010 - Lifeline
- ESL 010 - Reading and Academic Vocabulary I
- ESL 011 - Writing and Grammar I
- ESL 012 - Listening and Speaking I
- ESL 099 - Language Lab

## Level 2

- ESL 009 - Pronunciation II
- GST 010 - Lifeline
- ESL 030 - Reading and Academic Vocabulary II
- ESL 031 - Writing with Grammar II
- ESL 032 - Listening and Speaking II
- ESL 035 - Vocabulary II
- ESL 099 - Language Lab

## Level 3

- ESL 049 - Communication Skills
- ESL 050 - Reading and Academic Vocabulary III
- ESL 051 - Writing and Grammar III
- ESL 052 - Listening and Speaking III
- ESL 054 - Preparation for University Success **OR**
- ESL 055 - Intermediate Grammar
- ESL 099 - Language Lab
- GST 010 - Lifeline

## Level 4

- ESL 070 - Reading and Academic Vocabulary IV
- ESL 071 - Writing and Grammar IV
- ESL 072 - Listening and Speaking IV
- ESL 073 - Introduction to Academic Research
- ESL 074 - Academic Presentation Skills
- ESL 099 - Language Lab
- GST 010 - Lifeline

## Level 5

- ESL 090 - Advanced Integration of Academic English Skills



- ESL 093 - Critical Analysis for Academic English
- ESL 094 - Advanced Academic Research
- ESL 099 - Language Lab

## Intensive English Program Pre-MBA Track

### Intensive English Program (IEP)

The Intensive English Program is a full-time, pre-academic and bridge program which fosters cross-cultural exchange by providing English as a Second Language (ESL) instruction to non-English speaking students in preparation for study at CBU. In particular, ESL takes place in a classroom setting, collaborating with International Student Services (ISS) on co-curricular activities outside of the classroom.

Further information on the Intensive English Program course progression and ESL courses can be located in the Academic Programs section of this catalog.

## Admission Requirements

### Intensive English Program Pre-MBA Track Admission Requirements

#### When to Apply:

The Application and completion of the file for admission into the Intensive English Program Pre-MBA Track must be made according to the following deadlines:

Session	Deadline
Fall Semester	July 1
Spring Semester	November 1

Once all admission requirements have been met and the applicant is approved for admission, a letter of acceptance and the form I-20 will be issued.

#### Application Procedure:

To be considered for admission into the Intensive English Program's Pre-MBA track, students must submit the following:

- Completion of the application for the Intensive English Program
- Payment of the \$45.00 non-refundable application fee
- A Bachelor's degree from an accredited university
- Successful completion of the Intensive English Program's Level 3 courses OR a score of 46+ on the placement test. Students with a score of 45 or lower on the placement test take traditional IEP classes until they reach the minimum requirements for admission into the Pre-MBA program
- Proof of Financial Support
  - International students must submit proof of financial support before an I-20 will be issued. Students must send the following items:
    - A certified bank statement demonstrating sufficient funds for study. Financial support must guarantee and certify funds equal to a minimum of one year of the student's academic program
    - The Sponsor's Commitment of Financial Support form, provided by California Baptist University

International students must pay semester charges in full within the first week of classes during each semester of enrollment

## Traditional University Program Requirements (25 units)

The Pre-MBA track offers a pathway for students to enter the MBA program at California Baptist University by taking a combination of Intensive English courses and MBA pre-requisite courses over two semesters.

### Semester 1 Requirements

- ACC 250 - Principles of Accounting I
- CIS 270 - Business IT Application
- ESL 071 - Writing and Grammar IV
- ESL 072 - Listening and Speaking IV
- GST 010 - Lifeline

### Semester 2 Requirements

- BUS 315 - Business Statistics
- ESL 070 - Reading and Academic Vocabulary IV
- ESL 073 - Introduction to Academic Research
- ESL 074 - Academic Presentation Skills
- MKT 333 - Principles of Marketing

## Military Science and Leadership Army ROTC Program

The Military Science and Leadership program is designed to provide an on-campus program for qualified students in all academic majors who desire to serve as an Army officer on active duty or in a local Army Reserve or Guard unit. While students may participate in either undergraduate or graduate studies, the program requires at least two years to complete. Students who have completed at least basic training in any of the armed services may be eligible to enter the advanced course directly. Other students must complete three to six of the courses in the basic course of study or complete a thirty-day Leader's Training Course (LTC) prior to entering the advanced course. All contracted ROTC students are required to participate in an off-campus leadership laboratory one weekend each semester. Scholarships are available on a competitive basis. All ROTC students receive \$400-500 per month during the final two years of the program. For more information contact the CBU Military Science Office at (951) 343-4773; Lancer Arms North #37 or visit [www.calbaptist.edu/armyrotc](http://www.calbaptist.edu/armyrotc).

## Option I: Four Year Program (29 units)

### Basic Course of Study

- MSL 101 - Introduction to the Army and Critical Thinking
- MSL 102 - Introduction to the Profession of Arms
- MSL 201 - Leadership and Decision Making
- MSL 202 - Army Doctrine and Team Development

## Advanced Course of Study

Complete twelve (12) units from the following:

\*A maximum of six (6) units may be applied from MSL 399.

- MSL 301 - Training Management and the Warfighting Functions
- MSL 302 - Applied Leadership in Small Unit Operations
- MSL 399 - Independent Study \*
- MSL 401 - The Army Officer
- MSL 402 - Company Grade Leadership

## Leadership Laboratory

Students must be enrolled in the following course each semester they are enrolled in the ROTC Program for a total of eight (8) units:

Note: A twenty nine-days advanced camp is required between the final two years of study.

- MSL 100 - Leadership Laboratory

## Additional Requirements

In addition to the ROTC curriculum, cadets must complete the following type course in order to ensure they have an understanding of skills, values, and knowledge beyond the military skills taught by the military science staff and the ROTC curriculum. These classes do not substitute for any military science classes and are in addition to the required classes for ROTC cadets.

## Military History

Other classes may be substituted for that listed above upon approval of the military science staff.

- MSL 451 - Seminar in Military History

## Option II: Two Year Program (21 units)

### Basic Course Equivalent

- MSL 260 - ROTC Basic Camp

## Advanced Course of Study

Complete twelve (12) units from the following:

- MSL 301 - Training Management and the Warfighting Functions
- MSL 302 - Applied Leadership in Small Unit Operations
- MSL 401 - The Army Officer
- MSL 402 - Company Grade Leadership

## Leadership Laboratory

Students must be enrolled in the following course each semester they are enrolled in the ROTC program for a total of four (4) units.

Note: A twenty nine-days advanced camp is required between the final two years of study.

- MSL 100 - Leadership Laboratory

## Additional Requirements

In addition to the ROTC curriculum, cadets must complete the following type course in order to ensure they have an understanding of skills, values, and knowledge beyond the military skills taught by the military science staff and the ROTC curriculum. These classes do not substitute for any military science classes and are in addition to the required classes for ROTC cadets.

## Military History

Other classes may be substituted for that listed above upon approval of the military science staff.

- MSL 451 - Seminar in Military History

# Enrollment and Student Services

**Mr. Kent Dacus**

*Vice President for Enrollment and Student Services*

**Mr. Anthony Lammons**

*Associate Vice President for Student Services*

**Dr. John Montgomery**

*Associate Vice President for Student Services*

**Ms. Kelly Palmer**

*Administrative Assistant*

Phone (951) 343-4687

FAX (951) 343-4576

## Philosophy of Student Development

As a Christian institution, California Baptist University has dual responsibilities to its constituency. As an academic institution, it seeks to promote high scholastic standards, stimulate mental alertness, impart a general knowledge of the natural world and of the history and institutions of human society, and to assist students in choosing and learning an area of specialization for their life's work.

As a Christian institution, the University seeks to promote and follow the spiritual principles set forth by Jesus Christ. In acknowledging these principles, the University places special emphasis on leading students in an active pursuit of the spiritual values of life and developing leaders for the Southern Baptist churches of California and beyond.

Students at CBU are individuals involved in academic pursuits and at the same time are members of a Christian community nurturing one another in spiritual growth. The University expects students to take seriously this two-fold responsibility.

The Student Services Division is committed to the intellectual, spiritual, social, aesthetic, and physical development of California Baptist University students so that they are assisted in becoming autonomous, competent, responsible, and interdependent individuals who use their intellects and skills with wisdom and integrity.

## Freedom and Responsibility

California Baptist University students are entitled to the same freedom as any other citizen of our country. It is the Policy of the University to ensure these rights, consistent with the provisions of law, acceptable tastes, and purposes and goals of the institution. When matriculation in the University requires that conditions be placed upon Student freedoms, these conditions and their rationale are clearly delineated.

At California Baptist University, the concepts of freedom and personal responsibility are inextricably bound together. The University community, like any other, functions upon the principle that all members respect and protect the rights of their fellow citizens. Students are encouraged to develop these values which represent mature, self-disciplined people who appreciate the privilege of education and are willing to accept its responsibilities.

When people choose a college, they commit themselves to its philosophy of education, policies, and regulations. Students are to demonstrate proper respect of University personnel which includes, but is not limited to, compliance with directives of University officials in the performance of their duties.

Even though students may not agree with a few rules established by the University, it is expected that they comply with them in a manner conducive to the highest moral standards and in keeping with the discipline of the academic community.

Generally, through appropriate procedures, institutional judicial measures shall be imposed for conduct which adversely affects the institution's pursuit of its educational objectives, which violates or shows a disregard for the rights of other members of the academic community, or which endangers property or persons on institution or institution-controlled property.

Responsibility for enforcement of Student Conduct Policy lies with the Dean of Students, Director of Student Conduct, and other Student Services staff. This group defines behavioral expectations and takes appropriate action in support of University Policy.

## **Standard of Student Conduct**

In order to achieve its mission, California Baptist University expects members of the campus community to accept responsibility for their personal conduct and to encourage others within the community to do the same.

All students enrolled at California Baptist University are expected to conduct themselves in accordance with the Standard of Student Conduct, regardless of age, classification, or the number of credit hours being taken. The Standard of Student Conduct is established for the purpose of outlining expected behavior of students in the University community. The Standard of Student Conduct shall be defined as any and all policy, procedure, and/or behavioral expectation contained within the Student Handbook and the University Catalog.

If the conduct of any member of the campus community is found to be detrimental to the academic, social, and spiritual development of others within the community, the University (through its various offices and personnel) provides guidance, direction, and if necessary, judicial action.

This Standard of Student Conduct shall apply to any and all lands owned or leased by the University, as well as, to any location where a student is engaged in a University activity. Examples of such coverage include, but are not limited to, athletic teams and performing arts groups traveling to and participating in events off campus, student teaching and observation/participation, student government, recognized organizations and clubs engaging in a club event or activity, off-campus internships, international internships, international student teaching, academic extracurricular travel, faculty-led academic engagement and service-learning, clinicals/health fairs, student field practicums, student independent or directed studies, student research, community service, study abroad, International Service Projects.

Students should understand the commitment to the spirit of the University and realize that their enrollment is viewed as a willingness to abide by and accept the responsibilities of the environment.

## **Philosophy of Discipline**

The purpose of discipline at California Baptist University is to assist in maintaining individual and community growth. Personal growth and maturity are encouraged most when each member of the University community uses self-discipline and shares the responsibility to care enough about others to confront them when appropriate. The responsibility to confront one another in a loving manner should enable inappropriate behavior to be corrected on a personal level.

Unfortunately, situations may arise which warrant a formalized judicial process. Judicial procedures are designed to provide a just and equitable process of educational discipline. While every effort is made to protect the rights of students, the University does not attempt to duplicate or to emulate court proceedings and should not be viewed as such. Student judicial procedures, student rights, and the appeal process are outlined in detail in the Student Handbook.

## **Enrollment and Student Services Division**

The Enrollment and Student Services Division encompasses the departments of Admissions, Career Center, Community Life, Commencement, Counseling Center, Intercollegiate Athletics, Provider Food Service, Recreation, Residence Life and Housing Services, Safety Services, Spiritual Life, Student Care, Student Senate, Title IX, University Card Services, and the Wellness Center. In addition to providing general supervision of the offices that comprise the Student Services division, the Student Services Office provides services that include, but are not limited to, the following:

- Administrating student health insurance provided through the University and accepting proof of insurance (as required by University policy)
- Referring students to campus resources
- Facilitating the judicial action and non-judicial action appeals processes
- Investigating student allegations and complaints
- Reviewing and approving on-campus postings (flyers, posters, etc.)
- Any issue dealing with food services
- Title IX Office

## **Activities**

In addition to maintaining the University's activity calendar, serving as an activity-planning resource, and assisting with the oversight of student clubs and organizations, the Community Life Office plans and implements campus activities, educational programs, cultural programs, and seminars that reflect the Christian values of the institution.

## **University Student Senate**

The University Student Senate is committed to the development of the student body and serves as a formal conduit through which student-related concerns, views, and interests can be communicated to University Officials.

## **Campus Housing**

The Residence Life Office strives to promote the mission of California Baptist University by providing an on-campus living environment that is conducive to scholarship, personal growth, and development. Accordingly, living in residence at CBU carries with it a distinctive set of privileges and responsibilities. Students who reside on campus live in a community with their peers and are entrusted with the responsibility to challenge and support each other in a respectful, cooperative, and communicative fashion. This environment provides students with enriching experiences, which may help to promote healthy interpersonal relationships.

Students interested in campus housing should consult the Office of Residence Life.

## **Career Center and Student Employment**

The Career Center serves as a connection between education and career by providing students opportunities and resources for professional development, networking, and experience. The goal of the Career Center staff is to equip students with the professionalism necessary to excel in their respective careers and become effective servant-leaders for Christ upon graduation, both locally and globally.

The Career Center provides students with varied opportunities for professional development and career exploration through programming that is both campus-wide and major specific. Career Center staff conducts classroom presentations, workshops, seminars, and provides office walk-in hours to assist and instruct students in their professional development. In addition, the Career Center arranges opportunities for students to interact and network with potential employers through career fairs and employer presentations.

## **Clubs and Organizations**

Clubs play an important role on the California Baptist University campus by encouraging students to pursue interests, develop leadership skills, create meaningful relationships, and enhance academic achievements. A list of chartered clubs and organizations as well as club and organization policy and procedures are available in the Community Life Office and on InsideCBU.

## **Intercollegiate Athletics**

The Athletic Department provides education for the body, mind, and spirit of each student-athlete at California Baptist University. Under the direction of the athletic director, CBU offers a comprehensive athletic program with staff who address NCAA compliance, communications, development, athletic training, strength and conditioning, sports medicine, academic advising, facilities and event management, marketing and fan engagement, ticketing and sales, and media production. In addition to encouraging Christ-like competition by all participants, CBU coaches diligently strive to educate students and provide an environment in which students experience athletic, academic, and personal success.

## **Intramural Sports**

California Baptist University is committed to the overall educational experience. Intramural sports play an integral part in this experience in the following ways:

- Encourage students to work together in pursuit of individual and team goals;
- Provide students an enjoyable way to interact with others;
- Offer students avenues to relieve stress or anxiety;
- Help students begin an attitude of lifelong physical fitness.

The University's intramural sports program maintains a full schedule of athletic and recreational activities throughout the academic year. Activities include a variety of seasonal competitions between organized teams, tournaments, individual competitions, and non-athletic events.

## **First Year Experience (FYE)**

First Year Experience is designed to assist new Students with the transition to university life and the California Baptist University community through a University Success course. This course is required of all unmarried, full-time undergraduate Students who are first-semester freshmen and under twenty (20) years of age. Students who have completed a similar course and/or completed a full semester of transferable coursework at another institution are not required to enroll in the FYE course.

## **Recreation Center**

The Recreation Center, is a state-of-the-art fitness and recreation facility. The Recreation Center offers members of the campus community a wide range of personal fitness and group exercise opportunities. This facility is equipped with a number of recreation features including a state-of-the-art cardio and weight room, racquetball courts, a gymnasium



with basketball and volleyball courts, group exercise rooms, a rooftop track and soccer field, men's and women's locker rooms, and lounge spaces located throughout the facility.

## **Safety Services**

California Baptist University maintains a Department of Safety Services to enhance the safety and security of the campus community. In addition to staffing the Welcome Pavilion and patrolling school properties, the department provides twenty-four (24) hour assistance with emergencies, crime and injury reporting, safety escorts, and education of the campus community on safety and security practices.

## **Community and Emergency Notification**

The University has developed a multimedia system to immediately notify students, faculty, staff, and visitors of any emergency circumstance or serious situation that poses a credible threat to the safety and security of the campus community. Components of this system include:

- A siren/verbal warning system capable of projecting audible messages across open areas of the main campus.
- CBU Alert - an "opt-in" system capable of transmitting and delivering messages to all subscribed email and cellular telephone addresses on file with the University.\*
- All University-issued email addresses.\*\*

\*Students must "opt-in" to receive these messages.

\*\*Parents or guardians of students enrolled at CBU may also be added through the student's account.

Any or all parts of this system may be activated in response to any specific incident.

For instances when there is no immediate threat to the safety of the campus community, but it is desirable to provide information for educational or crime prevention purposes, email distribution is used to disseminate relevant facts and measures to be implemented or considered.

## **Vehicle Registration**

Students who operate a vehicle on campus must register for a parking permit with the Department of Safety Services. Parking permits are issued for the current school year. Drivers are expected to comply with the University traffic and safety regulations and non-compliance may result in the issuance of a citation and/or suspension of parking and/or driving privileges on campus. Copies of the California Baptist University Vehicle Code are available in the Student Handbook.

## **International Student Services**

The Office of International Student Services (ISS) assists international students in transitioning into the CBU community, exploring American culture, and understanding U.S. immigration regulations. ISS ensures that students understand institutional expectations, provides support services, processes immigration documents, plans and implements activities that promote campus awareness and appreciation for cultural understanding and experience, and assists students in becoming integrated into the CBU community.

## **Spiritual Life**

California Baptist University is committed to the biblical teaching of the Christian faith. As a result, the University has sought since inception to evidence the values of Christian living in the lives of students, staff, and faculty as they live out the Christian ethics of love, joy, peace, patience, kindness, goodness, faithfulness, gentleness, and self-control. Though students are not required to be Christians, the University encourages students to grow in their relationships with God by exploring the gospel and expressing the Christian faith in a variety of ways.

As a University committed to the Great Commission, the University provides opportunities for spiritual growth and formation through the Spiritual Life Office. The mission of the Spiritual Life Office is "Investing in lives to develop followers of Jesus."

California Baptist University requires students to take Bible-based courses in Christian studies. However, the University also offers students many opportunities to explore and express the Christian faith. Students are encouraged to participate in ways unique to personal needs and interests through regularly scheduled times of spiritual emphasis, Bible studies, worship gatherings, evangelism, ministry teams, community service, and missions.

## **Compassion Ministries**

By putting faith into action, Students learn the significance of demonstrating the love of Christ in the context of the gospel. Participating in urban projects for a day or a weekend, working with the homeless, or serving the local community in various ways gives Students the opportunity to make a physical and spiritual difference in the lives of others.

## **Chapel**

The California Baptist University community gathers regularly in the Fowler Events Center for worship, fellowship, Christian growth, and spiritual encouragement. Chapel planning is informed by the Core Four of the University (Academically Prepared, Biblically Rooted, Globally Minded, and Equipped to Serve) with a view toward biblical, gospel-centered transformation. As a result, most Chapel speakers are invited to speak from and explain the Bible and biblical themes/concepts, but some speakers may be invited to share how God has worked in and through them. Occasionally, Chapels will be programmed primarily for expressions of musical worship.

Chapel services are organized, coordinated, and implemented by the Dean of Spiritual Life and the Director of Chapel. Occasionally, as deemed appropriate by a University Officer, members of the campus community are recognized for notable accomplishments during Chapel. Holidays, cultural programs, and other forms of recognition and/or expression are not included as part of Chapel programming; such events may be coordinated through the Community Life Office.

## **Discipleship Ministries**

Students are encouraged to grow in their relationships with Christ through participation in discipleship and mentoring in the context of weekly small groups, weekly large-group meetings, regularly-scheduled conferences, and other events that encourage spiritual growth. Weekly gatherings focus on Bible-based teaching that addresses topics pertinent to students regardless of Christian experience or spiritual maturity. Students are also encouraged to participate in training that promotes development of ministry strategy for after graduation.

## **Third Culture Kid (TCK) Ministry**

At CBU, TCKs are American Students who spent most or all of their developmental years outside of the United States. Although they are Americans by birth, they often do not feel connected to American / Californian culture or the culture

of the American University. The TCK Ministry comes alongside and supports TCKs to assist them in bridging cultural gaps they encounter during their time at CBU so that they can grow socially, spiritually, and academically.

## **Mobilization**

In cooperation with the International Mission Board of the Southern Baptist Convention and various missions organizations, International Service Projects (ISP) create opportunities for students to participate in the "Great Commission" (Matthew 28:19-20) so that they might gain a global vision for the cause of the gospel as well as cross-cultural experience through service learning. ISP teams have served in more than fifty (50) countries since 1997. Participation in ISP is open to California Baptist University students who meet membership requirements, successfully complete the application and interview process, fulfill fundraising obligations, and are in good academic and behavioral standing with the University. The service-learning application and selection process is coordinated by the Mobilization area of the Spiritual Life Office and takes place during the fall semester.

**Encounter.** Teams of California Baptist University Students serve internationally for approximately two to three (2-3) weeks during the summer months. Each team is led by a University Official or other approved member of the University community. The projects differ depending upon the service opportunities of the selected area.

**Immersion.** Teams of California Baptist University Students serve internationally for approximately eight (8) weeks during the summer months. Ministry focus varies depending on the outreach strategy of the selected area(s). Summer of Service was established in 2010 and in 2017 was rebranded as Immersion.

## **Student Support**

The Student Support Office includes Student Care, Mental Health, University Card Services, and University Commencement. Additionally, this office oversees the University events calendar, assessment initiatives for the Student Services division, and a variety of other campus-based programs and initiatives. The Student Support Office is located in Lancer Plaza.

### **Student Care**

Student Care coordinates campus-based resources and support for Students who experience difficulties (e.g. extended hospitalization, health issues, personal crises, loss of an immediate family member, etc.) that significantly impact the ability to navigate college life or continue enrollment in courses. The Student Care staff assist Students in communication with faculty and staff in situations that require an extended absence from campus. Student Care is located within the Student Support Office in Lancer Plaza.

### **Mental Health**

The Mental Health Office is responsible for biblical, Christian, and ethical campus-wide mental-health initiatives to provide resources and care to the campus as well as effective assessment and case management for students in crisis. Initiatives include the development, implementation, and promotion of mental healthcare resources; coordination of strategies to ensure positive mental well-being among students; and training of student leaders, faculty, and staff for the identification and prevention of mental health issues among students. The Mental Health Office collaborates with the California Baptist University Counseling Center as well as other departments, schools, and colleges within the University to ensure appropriate student care. The Mental Health Office is located in the Student Support Office in Lancer Plaza.

## Student Health Insurance

California Baptist University contracts with UnitedHealthcare Student Resources to provide student healthcare insurance. Requirements, eligibility, and cost related to student health insurance are determined by student enrollment status.

International students are required to enroll in the student insurance plan.

Traditional undergraduate students enrolled for seven or more units are automatically charged for medical insurance provided by the University - unless proof of medical insurance is submitted through the online waiver accessed at [www.calbaptist.edu/healthinsurance](http://www.calbaptist.edu/healthinsurance). Proof of insurance must be submitted prior to the "last day to drop a class with refund" as indicated in the University Calendar, during the first semester of attendance of each academic year. Students who do not submit proof of medical insurance by the deadline will be enrolled in the plan. Once a student is enrolled, the charge is non-refundable. Students enrolled in less than seven units are not eligible to enroll in the plan.

Dependent Coverage for spouse and children of students enrolled on the plan is available for an additional cost. Questions about student health insurance can be directed to University Card Services.

Information regarding the student health insurance plan provided by CBU may be accessed at [www.calbaptist.edu/healthinsurance](http://www.calbaptist.edu/healthinsurance). Students who have questions regarding the student health insurance plan, after reviewing the information provided online, are encouraged to contact University Card Services for assistance. University Card Services is located in the Student Support Office in Lancer Plaza.

## Student ID Cards

The CBU ID Card (CBU Card) enables access and commerce across campus for current CBU students, staff, and faculty. Cards must be carried at all times and presented to university officials upon request. New and replacement cards may be obtained in University Card Services, located in the Student Support Office in Lancer Plaza.

## Student Meal Plans

University Card Services and Provider work closely together to create dining options that meet the needs of the CBU community.

Meal Plans consist of two parts:

- *Meal Swipes* can be used to obtain a full meal.
- *Dining Dollars* are a pay-as-you-go option that will work similar to an ATM debit card. Dining Dollars may be used to obtain a full meal or individual items and are accepted at any of the campus dining locations.

Undergraduate residential students must purchase a meal plan. Graduate residential students and commuter students are not required to purchase a meal plan but may choose from all the plans offered. Meal Plans are sold by the semester. Unused Meal Swipes and Dining Dollars do not rollover from semester to semester. Additional meal plan information may be found on the University Card Services website. University Card Services is located in the Student Support Office in Lancer Plaza.

## University Commencement

The University Commencements staff coordinates all University commencement activities, which includes regalia distribution, graduate photos, event scheduling, and event ticketing. Commencement ceremonies occur at the conclusion of the fall, spring, and summer semesters. Grad Finale is an "open house style" event designed to provide Students who are eligible to participate in commencement exercises graduation-related information and items including

academic regalia (caps and gowns, hoods [for master's and doctoral degrees], and tassels). Current information can be found on the University Commencement website. The University Commencement department is located in the Student Support Office in Lancer Plaza.

## **Title IX**

California Baptist University is committed to providing a learning, working and living environment that promotes personal integrity, civility and mutual respect in an environment free of discrimination on the basis of sex, which includes all forms of sexual misconduct.

Sex discrimination violates an individual's fundamental rights and personal dignity. CBU considers sex discrimination and sexual misconduct in all forms to be a serious offense. Sexual misconduct includes, but is not limited to: sexual harassment, domestic violence, dating violence, sexual assault, sexual violence, and stalking by employees, students, or third parties.

CBU does not unlawfully discriminate on the basis of sex in its educational programs and activities. This policy extends to employment with and admission to the University, as well as access to facilities, financial aid and courses.

Per Title IX of the Education Amendments of 1972, "No person in the United States shall, on the basis of sex, be excluded from participation in, be denied benefit of, or be subjected to discrimination under any education program or activity receiving federal financial assistance." For more information regarding Title IX, please visit: <https://calbaptist.edu/about/title-ix>

## **Wellness Center**

The California Baptist University Wellness Center, located at 3626 Monroe Street, houses the CBU Health Center and the CBU Counseling Center. The goal of the Wellness Center staff is to provide effective health, wellness, and counseling services that promote academic and personal success.

### **Student Health Center**

The Health Center is available to all members of the campus community. To help maintain a healthy campus environment, students are encouraged to visit the student health center at the onset of illness symptoms and other health-related concerns. Health Center staff can address most conditions that are treated in an urgent care facility.

The Health Center is operated in cooperation with Riverside Medical Clinic that provides staffing and insurance billing services. In addition to accepting student health insurance (UnitedHealthcare Student Resources) provided through California Baptist University, most PPO insurances and HMO insurances (that name Riverside Medical Clinic as their primary medical group) are accepted at the Health Center. Kaiser Permanente Health Plans are not accepted at the Student Health Center. The Health Center has reasonable walk-in rates for all CBU community members beginning at \$23. For students, faculty, and staff needing ongoing care and prescriptions for pre-existing conditions, it is recommended they visit their primary care physician.

For days and hours of operation, please see The Health Center for current information.

Call 951.321.6520 to schedule an appointment. Appointments are required for all routine well- and/or preventative-services visits. Walk-ins are welcome.

### **Counseling Center**

The CBU Counseling Center offers a full range of counseling assistance as members of the campus community strive to become more effective, productive, and comfortable with University life. The mission of the Counseling Center is to

provide Christ-centered, biblically-based, and psychologically-sound therapy with a foundational approach of hope, healing, truth, and grace.

Counseling is provided by Marriage Family Therapist trainees and associates under the professional supervision of fully-licensed therapists. Issues that can be addressed with a counselor through individual or group therapy include but are not limited to the following.

- Addiction & Substance Abuse
- Anger
- Anxiety
- Depression
- Divorce
- Eating Disorders
- Family Conflict
- Grief
- Identity/Self Image
- Life Transitions
- Relationship Issues
- Stress
- Trauma

Counseling is confidential except where limited by law. These limitations include any plan to harm others or self along with issues of child and/or elder abuse.

The Counseling Center is available to all students. Appointments, which are offered in-person and via telehealth, are scheduled upon request and are typically available within one (1) week. Walk-in appointments are available for crisis situations. Call 951.689.1120 or visit the Counseling Center website for additional information.

# **Traditional On-Campus Admissions**

## **University Admissions**

**Mr. Taylor Neece**

*Assistant Vice President for Admissions*

**Ms. Teena Navarro**

*Administrative Assistant to the Assistant Vice President of Admissions*

Phone 951.343.4871

cnavarro@calbaptist.edu

### **Traditional On-Campus Admissions**

**Ms. Greta Anderson**

*Director of Undergraduate Admissions*

Phone 951.343.4212

Toll Free 877.228.8866

FAX 951.343.4525

## **Admission to the Traditional On-Campus Program**

### **When to Apply**

The University implements a rolling admissions practice. A high school senior or a college transfer student may apply any time before the beginning of each semester. Prospective students are encouraged to complete the application process at least four weeks prior to the start of their intended semester of enrollment. Completing the application process early will permit other offices on campus such as Financial Aid, Residents Life, and Academic Advising to communicate with the prospective student in a timely manner.

### **Application Procedures**

To be considered for admission students are required to submit the following documents:

- A completed Application for Admission.
- A \$45.00 non-refundable fee.
- Official high school transcripts sent directly to the Office of Undergraduate Admissions from your high school.
- Official transcripts from all previously attended colleges and universities.

When an applicant has submitted all the required documents, an evaluation will take place and a decision rendered.

### **Admission Guidelines**

#### **First-time Freshmen**

Students who have completed less than 24 units of transferable college credit must complete the Admission Requirements for First-time Freshmen. Status may be evaluated based on high school transcripts, SAT, ACT or CLT

scores, and college transcripts, if applicable. Students will be admitted with one of the following academic standings and may take up to 18 credit units their first semester.

## **Honors**

Honors classification will be granted to those applicants who meet the criteria for the Trustee's, President's or Dean's merit scholarships.

## **Standard**

Standard classification will be granted to those applicants with a minimum GPA of 2.5 who are not eligible for the Trustee's, President's or Dean's merit scholarships.

## **Provisional**

Provisional classification may be granted to those applicants who do not meet the Standard entrance requirements but are approved by the Admissions and Re-entry Committee. Students admitted on Provisional status may be required to enroll in the Student Success Class.

## **Denial**

Denial may occur when an applicant does not qualify for admission in the above categories. California Baptist University also reserves the right to deny admission to applicants who are antagonistic with the philosophy and purpose of the University.

## **Appeals**

Appeals on any decision regarding admission should be made in writing and addressed to the Admission and Re-entry Committee in care of the University. All appeals will be heard by the Committee. The appeals may include a personal interview and additional academic transcripts. Once the appeal is reviewed, the Committee will render a final decision.

The Admissions and Re-entry Committee will review students who do not meet the requirements for Standard admission. Upon review of the student's file, one of the following decisions will be rendered: Standard Admission, Provisional Admission, or Denial.

## **Transfer Students**

Students who graduated high school at least one year ago and have, or will have, completed 24 or more transferable units from an accredited college or university recognized by the U.S. Department of Education and/or the Council for Higher Education Accreditation will be evaluated on the basis of their official college transcripts. It is highly recommended that transfer students submit their high school transcript to aid in placement and the meeting of competency requirements. Students may be admitted with one of the following academic standings and may take up to 18 credit units their first semester:

## **Honors**

Honors at entrance may be granted to those applicants with a minimum cumulative GPA of 3.0 for all transferable college work.



## **Standard**

Standard entrance may be granted to those applicants with a minimum cumulative GPA of 2.0 for all college work.

## **Provisional**

Provisional entrance may be granted to those applicants who do not meet the Standard entrance requirements but may be approved by the Admissions and Re-entry Committee. Students admitted on Provisional status may be required to enroll in Academic Success Seminar (GST 060).

## **Denial**

Denial may occur when an applicant does not qualify for admission in the above categories. A college transfer student may be denied admission if he or she is on academic suspension or dismissal from another college. California Baptist University also reserves the right to deny admission to applicants who are antagonistic with the philosophy and purpose of the University.

## **Appeals**

Appeals on any decision regarding admission should be made in writing and addressed to the Admission and Re-entry Committee in care of the University. All appeals will be heard by the Committee. The appeal may include a personal interview and additional academic transcripts. Once reviewed the Committee will render a final decision.

The Admissions and Re-entry Committee may review students who do not meet the requirements for Standard admissions. Upon review of the student's file one of the following decisions will be rendered: Standard Admission, Provisional Admission, or Denial.

## **Home Educated Students**

California Baptist University welcomes applications from home educated/schooled students. Home educated/schooled students are subject to the same admissions requirements as public or private high school students, which are listed under the Application Procedures section. A General Education Diploma (GED) or State Proficiency Exam may be submitted in lieu of high school transcript if none is available. Students with a verifiable cumulative Grade Point Average (GPA) are eligible to qualify for all merit scholarships.

## **Readmit**

Students who have attended California Baptist University but have discontinued enrollment for one or more semesters must be approved to readmit to the University. Students must submit an Application to Readmit form, pay the required Readmit application fee and provide all official transcripts from all other institutions attended since last enrolled at California Baptist University. Additional documents or an interview may be required to readmit. Required department clearances must be obtained prior to the start of the semester the student is seeking to readmit.

Students whose applications for readmission are approved will enter under the catalog current at the time of readmission and will be subject to the admissions and degree requirements outlined in that catalog. The University is not responsible for providing courses or programs that have been discontinued.

## **Special Students**

A Special Student is defined as a student who is not working toward a degree at California Baptist University. Students offered Special Student status are eligible to enroll for up to 30 semester units. To continue beyond 30 units the student must meet admission requirements for Standard status.

### **Application Procedure**

To be considered for admission, Special Students are required to submit the following documents:

- A completed Special Student Application for Admission
- A \$45.00 non-refundable fee

Special Students who later decide to have their units apply toward a degree at California Baptist University must formally make application for a standard degree seeking student standing with the Office of Undergraduate Admissions. When an applicant has submitted all the required documents, an evaluation will be made, and a decision rendered.

## **Audit Students**

An Audit Student is defined as a student who is not taking classes at California Baptist University for credit. For more information on auditing a class please see the Academic Information section of this catalog.

### **Application Procedure**

To be considered for admission, Audit Students are required to submit the following documents:

- A completed Special Student Application for Admission
- A \$45.00 non-refundable fee

When an applicant has submitted all the required documents, an evaluation will be made, and a decision rendered.

## **International Baccalaureate Credit**

Students who score four (4) or higher on a higher level (HL) International Baccalaureate (IB) exam will receive three units of lower division credit for the equivalent course. For more information on International Baccalaureate please see the Academic Information section of the catalog.

# Undergraduate Online Admissions

**Ms. Jenelle Vine**

*Director of Undergraduate Online Admissions*

**Ms. Elizabeth Romo**

*Office Manager for Online Admissions*

Phone 951.552.8525

Toll Free 877.236.1617

FAX 951.358.1181

eromo@calbaptist.edu

The Undergraduate Online programs were established for the specific purpose of serving the needs of an increasing number of adult and non-traditional students seeking higher education. All Undergraduate Online programs are developed in a fully online format, incorporate a Christian perspective, and are delivered in a year-round semester format to accelerate students toward graduation.

## When to Apply

The University implements a rolling admissions practice. Prospective students are encouraged to complete the application process at least four weeks prior to the start of their intended session. Most Online Programs offer two eight-week sessions every semester, providing several admission start dates per year.

## Application Procedures

To be considered for admission students are required to submit the following documents:

- A completed Application for Admission submitted online at <https://www.cbuonline.edu/apply>.
- Official transcripts from previously attended colleges and universities, submitted to Admissions.

\*An official high school transcript or the equivalent is required for applicants with fewer than twenty-four (24) completed units.

## Student Status

Applicants for Online Programs will be considered according to the following classifications:

### Standard

Applicants who submit official high school transcripts showing a minimum cumulative grade point average of 2.5 and (if applicable) official college or university transcripts showing a minimum cumulative grade point average of 2.0 (based on a 4.0 scale).

## Conditional

Applicants who met standard admission requirement but are missing official transcripts or other documentation may be admitted on a conditional basis.

## Provisional

Applicants who do not meet standard entrance requirements may be granted provisional admission under conditions set by the Admissions and Re-entry Committee.

## Special Student

A Special Student is defined as a student who is not working toward a degree at California Baptist University. Students offered Special Student status are eligible to enroll for up to 30 semester units. To continue beyond 30 units the student must meet admission requirement for Standard status.

## CBU Pre-College Credit

With no application fee, eligible high school students can enroll in one online asynchronous course every eight-week session at California Baptist University and receive college credit.\*

*\*Acceptance of transfer college credits is up to the receiving institution.*

## Eligibility

- Currently enrolled in high school.\*
- Sophomore-equivalent or higher
- High school weighted GPA 2.5 or higher (unofficial transcript required)

*\*High school seniors are not eligible for the Summer semester in which they graduate from high school.*

## Denial

Denial may occur when an applicant does not qualify for admission in the above categories. California Baptist University also reserves the right to deny admission to applicants who are antagonistic with the philosophy and purpose of the University.

## Appeals

Appeals on any decision regarding admission should be made in writing and addressed to the Admission and Re-entry Committee in care of the University. All appeals will be heard by the Committee. The appeals may include a personal interview and additional academic transcripts. Once the appeal is reviewed, the Committee will render a final decision.

The Admission and Re-entry Committee will review students who do not meet the requirements for Standard admission. Upon review of the student's file, one of the following decisions will be rendered: Standard Admission, Provisional Admission, or Denial.

## Readmit

Students who have attended California Baptist University but have discontinued enrollment for one or more semesters must be approved to readmit to the University. Students must submit an Application to Readmit form, pay the required Readmit application fee, and provide all official transcripts from all other institutions attended since last enrolled at California Baptist University. Additional documents or an interview may be required to readmit. Required department clearances must be obtained prior to the start of the semester the student is seeking to readmit.

Students whose application for readmissions are approved will enter under the catalog current at the time of readmission and will be subject to the admissions and degree requirements outline in that catalog. The University is not responsible for providing courses or programs that have been discontinued.

## Audit Students

An Audit Student is defined as a student who is not taking classes at California Baptist University for credit. For more information on auditing a class, please see the Academic Information section of this catalog.

## International Admissions

**Mr. Bryan Davis**

*Dean of International Programs*

**Mr. Joseph Gemignani**

*Director of International Admissions*

Phone 951.343.4690

FAX 951.343.4728

internationaladmissions@calbaptist.edu

# International Undergraduate Admissions

## Authorization

California Baptist University is authorized under Federal law to enroll non-immigrant alien students.

## When to Apply

Application and the completion of the file for a particular term must be made according to the following deadlines. The closing dates for receiving international student applications and all supporting documentation are earlier than for standard applications due to the additional time needed to process documents through SEVIS.

Session	Deadline
Fall Semester	July 1
Spring Semester	November 1

## Application Procedure

To be considered for admission, international students must submit the following:

- A completed International Student Application for Admission

- A \$45.00 non-refundable fee

- Official transcripts

The University must receive sealed copies of all academic records (including transcripts, mark sheets and grade reports, as well as graduation certificates, diplomas and/or completion certificates) from secondary schools, showing dates of attendance, courses taken and grades received. Transfer applicants are required to submit all official college transcripts from all colleges/universities attended and accompanying documentation. Electronic official transcripts and digital official transcripts sent from a school administrator may be accepted. All records must be accompanied by a certified English translation.

**Transcripts must be sent directly from the educational institution to CBU. Transcripts received by CBU from a third party (including the applicant) are unofficial and cannot be used for an application file.**

- Essay or Personal Statement

Submit a personal statement (minimum 3-5 paragraphs) responding to the following question: "What interests you the most about CBU and how can our programs, faculty, and location help you achieve your future goal?"

## Financial Documentation

Though an admission decision can be provided before financial documents are submitted, international students must submit proof of financial support before an I-20 will be issued. Documentation verifying the applicant's ability to meet financial obligations (tuition, fees, books, room and board, personal expenses and health insurance) for the first year is required by the US Bureau of Citizenship and Immigration Services.

Students must send the following items before an I-20 will be issued:

- The exact amount designated to the applicant for educational purposes.
- Completion of the Affidavit of Financial Support (Sponsor Form).

## Language Proficiency

Applicants applying from non-English speaking countries must demonstrate English proficiency in order to ensure a successful experience at CBU. English proficiency can be demonstrated in one of the following ways:

- A recent official test score report with a minimum 71 IBT on the Test of English as a Foreign Language (TOEFL). CBU's TOEFL institution code is 4094.
- A recent official test score report with a minimum 5.5 on the International English Language Testing System (IELTS).
- A recent official test score report with a minimum 48 on the Pearson Test of English (PTE).
- A recent official exam score of a B2 (160-180), C1 (180-200), or C2 (200-230) on the Cambridge English Assessment Exam.
- An official test score with a minimum of 430 on the Evidence-Based Reading and Writing section of the Scholastic Aptitude Test (SAT).
- An official test score with a minimum of 16 on the English section of the American College Testing Program (ACT).
- Completion of 24 transferable units from an accredited institution in the US with a GPA of 2.0 and the CBU course equivalent of English composition, ENG113.

**Options for applicants that do not meet the English requirement:** Applicants who have not demonstrated English proficiency may be granted joint/conditional admission into the undergraduate and Intensive English Program (IEP), CBU's English as a Second Language program. Applicants who are granted joint admission will receive a form I-20 which states they have been admitted to the undergraduate program and will receive English language instruction at CBU through IEP.

All students from non-English speaking countries, upon arrival to CBU, are required to take a university placement test to ensure proper English proficiency for academic success.

## Admissions Status

### Standard

Standard entrance may be granted to those applicants with a minimum GPA of 2.5 and a TOEFL of 71 IBT. Students admitted under Standard status may take up to 15 units their first semester.

### Joint

Joint entrance may be granted to those applicants with a minimum GPA of 2.5 but who do not meet the minimum language proficiency requirement; students will be granted admission to the Intensive English Program and the traditional undergraduate program. After completion of the Intensive English Program, students admitted under Joint status may take up to 12 units in their first semester of the traditional undergraduate program.

## **Denial**

Denial may occur when an applicant does not qualify for admission in the above categories. California Baptist University also reserves the right to deny admission to applicants who are antagonistic with the philosophy and purpose of the University.

## **Intensive English Program (IEP)**

The Intensive English Program (IEP) is a full-time, pre-academic and bridge program which fosters cross-cultural exchange by providing English as a Second Language (ESL) instruction to non-English speaking students in preparation for study at CBU. ESL takes place in a classroom setting, collaborating with International Student Services (ISS) on co-curricular activities outside of the classroom.

Further information on the IEP course progression and ESL courses can be located in the Academic Programs section of this catalog.



# Financial Aid

**Mr. Joshua Morey**

*Director of Financial Aid*

Phone 951.343.4236

Toll Free 877.228.8855

FinAid@calbaptist.edu

## The Purpose of Financial Aid

California Baptist University coordinates and provides financial assistance to students who may otherwise be unable to attend for financial reasons. Financial aid at California Baptist University is administered in accordance with federal, state, and institutional policies. Although every effort is made to provide assistance to as many students as possible, it is important students understand they and their family bear the principal responsibility for meeting educational costs. A federal application is used in determining eligibility for various types of financial aid, including federal, state, and institutional programs.

Various scholarships, grants, work programs, and loans are available for eligible students. These forms of financial assistance are categorized as follows: federal programs, state programs, institutional programs, and private scholarships. Specific information on each of these sources of financial aid is available on the Financial Aid section of the California Baptist University website.

## Applying for Financial Aid

Students desiring to apply for federal, state, or need-based institutional aid are required to complete a Free Application for Federal Student Aid (FAFSA) each year. This form is available online at [studentaid.ed.gov](http://studentaid.ed.gov). The Renewal FAFSA can also be done online at [studentaid.ed.gov](http://studentaid.ed.gov). All applicants are required to create a FSA ID. A FSA ID gives students access to Federal Student Aid's online systems and can serve as one's legal signature.

Completion of the FAFSA will generate a Student Aid Report (SAR) which is sent directly to the student by the federal government. This report provides information regarding the student's Expected Family Contribution (EFC). The Financial Aid Office will receive the FAFSA information electronically provided that the student listed California Baptist University (school code 001125) on the FAFSA. Generally, the amount of financial aid offered is based on the financial need of the student as determined by the results of the FAFSA. Financial need is defined as the difference between the total cost of attending school (tuition, fees, room, board, books, supplies, and other allowable living expenses) and the Expected Family Contribution (EFC) as determined through the Federal Methodology Need Analysis. A student whose EFC exceeds the cost of attendance may still qualify for financial aid.

## Requirements for Awarding

Financial aid funds are limited and are offered on a priority basis. Priority for the academic year will be given to students who are approved for admission and complete their financial aid file by March 2. A completed financial aid file consists of the following documents:

- Results of the FAFSA.
- If requested by the Financial Aid Office, prior year federal tax forms or transcripts from parents and students may be required. This is accompanied by a verification web form. Verification is processed electronically through the University's Student Forms system on InsideCBU.

- Any additional documents required by federal or state agencies.
- All requested documents must be submitted as soon as possible, but no later than 14 days prior to the close of the term.

To qualify for a financial aid offer, undergraduate students must be enrolled in at least six (6) units of degree applicable coursework for half-time status, at least nine (9) units of degree applicable coursework for three-quarter time status, and at least twelve (12) units of degree applicable coursework for full-time status. If enrolled less than half time, students may still be eligible for a portion of their Federal Pell Grant.

Applicants for the Cal Grant programs must file a FAFSA; new applicants must also submit a GPA verification form no later than the deadline established by the California Student Aid Commission (March 2). New applicants who fail to meet this deadline each year are not eligible to receive a Cal Grant.

Applicants for the Dream Act must complete the Worksheet for California Dream Act by the March 2 deadline. Additional documentation may be required. Please visit [www.csac.ca.gov](http://www.csac.ca.gov) for details.

Students who are approved for admission and have completed their financial aid file after the priority deadline will still be considered for financial aid. However, options for preferred aid programs may be limited. The evaluation of a completed financial aid file will result in a Financial Aid Award Offer for eligible students.

## **Student Rights and Responsibilities**

### **Financial Aid Offer**

The Financial Aid Offer is issued to a student after all requested documents are submitted to the Financial Aid Office. Grants and scholarships will be accepted for the student, with the exception of Cal Grant B and Cal Grant B Access, or unless the Financial Aid Office is notified of the student's decision to decline the aid. Acceptance of loan proceeds must be actively confirmed as outlined in the aid offer instructions before funds will be disbursed to the student's account. Participant scholarship recipients may be required to sign a separate agreement before the scholarship will be disbursed.

Students are required to notify the Financial Aid Office of changes in financial, residency or academic status. Changes of this nature will be reviewed and adjustments may be made to the student's Financial Aid Offer. Changes based on marital status may be allowed up to the first day of the academic year.

Students have the opportunity to have their financial aid decision reviewed and explained by their Financial Aid Counselor by requesting an appointment.

### **Disbursement**

Generally, a student's total financial aid offer is divided equally between the Fall and Spring semesters. Federal and state grants, institutional and private scholarships, and student loans will be credited directly to the student's account. Direct loan funds, subsidized and unsubsidized, and Parent PLUS loan disbursements are sent directly to the University.

College seniors attending one semester during their last academic year (graduating early) or attending an additional semester (senior year totaling 3 semesters) are subject by federal regulations to have some sources of Financial Aid prorated based on federally mandated calculations.

### **Withdrawal from the University**

Withdrawal from the University (all classes) during any period of enrollment, whether official or unofficial, may necessitate the return of federal financial aid.

Pursuant to federal regulations (CFR 668.22), a refund calculation will be performed to determine the amount, if any, of Title IV aid (Pell Grant, SEOG, Direct loans, Perkins loans) earned by the student for their attendance up to the date of withdrawal.

The withdrawal process begins with the completion of an official Petition to Withdraw form that is available in the Office of Admissions. Please refer to the Academic section of this catalog for further details of the process.

Unofficial withdrawals encompass those students who fail to initiate and/or complete the official withdrawal process as noted above.

If a student ceases to attend all classes without proper notification to the Office of Admissions or the Office of the University Registrar, the University will consider it an unofficial withdrawal and a refund calculation will be performed to determine the amount of Title IV aid earned and the amount to be returned to the Title IV programs. The student is responsible for any resulting balance owed to the University.

## **Order of return of Title IV funds**

A school must return Title IV funds to the programs from which the student received aid during the payment period or period of enrollment as applicable, in the following order, up to the net amount disbursed from each source:

Unsubsidized Direct Loans (other than Direct PLUS Loans)  
Subsidized Direct Loans  
Direct PLUS Loans (parent or graduate)  
Federal Pell Grants for which a return of Title IV funds is required  
Iraq and Afghanistan Service Grant, for which a return of Title IV funds is required  
FSEOG for which a return of Title IV funds is required

All students who borrow federal student loans and cease at least half-time attendance at the University are required to complete exit counseling at [www.studentloans.gov](http://www.studentloans.gov).

## **Satisfactory Academic Progress - Undergraduate Students**

Federal regulations require California Baptist University to establish, publish, and apply standards of Satisfactory Academic Progress (SAP) for financial aid eligibility. The purpose of measuring and enforcing these standards is to ensure financial aid recipients' progress towards graduation. Students who fail to meet the satisfactory academic progress requirements become ineligible to receive financial aid until they are in compliance with these requirements. To be eligible for financial aid, a student must be in good academic standing, making satisfactory progress toward the completion of a certificate or degree, within a maximum time frame. Students are evaluated annually following the Spring semester of the academic year to ensure the minimum standards are met. Students failing to meet the minimum standards will progress through the aid statuses defined as follows:

### **Financial Aid Suspension**

Status assigned to a student who fails to make Satisfactory Academic Progress by the end of the academic year. The student is no longer eligible to receive financial aid. The student has the right to appeal the suspension. Aid is terminated until student's written appeal is submitted and approved.

### **Financial Aid Probation**

Status assigned to a student who received a Financial Aid Suspension and submitted an appeal which has been approved, allowing the student's aid to be reinstated for a probationary term. The student must complete their probationary term successfully or their aid will be terminated.

It is the responsibility of the student to notify the Financial Aid Office of any status changes, grade changes, summer or winter term classes. If a student has a grade change or takes summer or winter term classes the student must notify the Financial Aid Office. Once the Financial Aid Office has been notified and the student has provided appropriate documentation, the Financial Aid Office can review and reassess the student's financial aid eligibility and Satisfactory Academic Progress status. If a student proves to be meeting Satisfactory Academic Progress due to additional degree applicable classes or a grade change, the student will no longer be subject to SAP suspension and their financial aid will be reinstated. The Financial Aid Suspension status will become void for the term in these situations.

## **Measure of Progress**

### **Qualitative Measure**

Students must maintain a minimum cumulative grade-point average (GPA) of 2.0. GPA's are reviewed at the end of the academic year. Students failing to achieve a minimum 2.0 GPA are given a Financial Aid Suspension status. The student is eligible to appeal the suspension.

If the appeal is approved, the student must continue to earn a minimum 2.0 session GPA to continue making satisfactory progress toward a cumulative 2.0 GPA. A 2.0 session GPA is the minimum standard measurement for continuing progress. The student will need to earn higher than 2.0 session GPA(s) to correct a deficiency.

Students on Financial Aid Probation failing to earn the minimum 2.0 session GPA will be returned to a Financial Aid Suspension status. The student will not be eligible to receive financial aid until the cumulative GPA is raised to a 2.0

### **Quantitative Measure**

Student must successfully complete a minimum of 67 percent of units in which they enroll. Unit completion is reviewed at the end of the academic year.

Grades of F, W (Withdraw), and I (Incomplete), do not demonstrate satisfactory course completion. Challenge exams and audited courses are not considered. Transfer credit that has been officially accepted to complete program requirements will demonstrate satisfactory course completion for quantitative measure (unit requirement). All transfer credit received from other recognized entities will affect the 2.0 GPA qualitative measure requirement of Satisfactory Academic Progress.

Students initially failing to complete 67 percent of their enrolled cumulative units will be given a Financial Suspension. The student is eligible to appeal the suspension.

If the appeal is approved, the student is placed on Financial Aid Probation and must continue making satisfactory progress in each subsequent term according to a specific plan of action determined for the student to reach the minimum qualitative requirement of 67 percent. The student must complete all units attempted within the subsequent term with a minimum GPA of 2.0.

Students on Financial Aid Probation failing to achieve prescribed unit requirement plan in a subsequent term will be given a Financial Aid Suspension. The student will not be eligible to receive financial aid until the successful completion of 67 percent of enrolled unit requirement is achieved.

### **Maximum Time Frame Measure**

Financial Aid recipients will no longer be eligible for aid upon reaching 150 percent of the number of credits needed to complete their degree. The measurement includes all accepted transfer units as well as units completed at California Baptist University. For example, if your published program length is 124 units, you will exceed the maximum time frame when you surpass 186 units.

## **Readmitting Students**

A readmit student that does not have the minimum required GPA for their program will need to refer to the Satisfactory Academic Progress - Traditional Undergraduate Students, portion of this catalog. Students may need to submit a written appeal for approval of a term of Financial Aid Probation. Once the student's written appeal is submitted and approved the student's aid will be reinstated for the probationary term.

## **Withdrawals and Cancellations**

Withdrawal from the semester after the first day of classes counts as a semester attended when determining overall maximum unit completion and minimum unit completion, unless the student drops all classes and does not receive W grades for the given semester. Cancellation of registration on or before the first day of classes does not count as a semester attended when determining maximum unit completion and minimum unit completion. Students must complete their exit counseling at [www.studentloans.gov](http://www.studentloans.gov) upon ceasing attendance between terms.

## **Repeated Courses**

Financial aid will be given for the course in which a student has not received a passing grade. Once a student has passed the course, they may not receive financial aid to retake the course. Repetition of a passed course will not count toward the student's enrollment status for financial aid purposes.

## **Concurrent Enrollment**

Students attending California Baptist University and another college or university concurrently are eligible for aid at California Baptist University based on the coursework and GPA acquired at California Baptist University only.

## **Leave of Absence**

If a student is approved for a Leave of Absence during the academic year, it is the student's responsibility to meet with the financial aid office to adjust aid appropriately. If the student has borrowed Federal Direct Loans, repayment will begin after six months of less than half time enrollment. A student must complete exit counseling at [www.studentloans.gov](http://www.studentloans.gov) upon ceasing attendance between terms.

## **Unusual Enrollment History**

The U.S. Department of Education has made efforts to prevent fraud and abuse in the Federal Pell Grant and Student Loan Program by identifying students with an unusual enrollment history (UEH). A UEH Flag indicates whether the student has an unusual enrollment history with regard to receiving Pell Grant funds and/or Direct Loans and is intended to address possible fraud and abuse in the Title IV student aid programs. ALL UEH flags must be reviewed by the University before a student can receive any Federal Student Aid. The University must review ALL UEH student's official transcripts from all schools that they have attended over the past four years, and in some cases may go back further, before a student is cleared to receive any Federal Student Aid.

The specific enrollment pattern of concern to the U.S. Department of Education is where the student attends an institution long enough to receive Title IV credit balance funds, leaves without completing the enrollment period, enrolls at another institution, and repeats the pattern of remaining just long enough to collect another Title IV credit balance without having earned any academic credit.

Some students who have an unusual enrollment history have legitimate reasons for enrollment at multiple institutions. However, such an enrollment history requires a review to determine whether there are valid reasons for the unusual enrollment history.

## **Appeal Process**

Before filing an appeal for reinstatement of financial aid, it is important that students seek assistance from a Student Success Coach to explore ways of eliminating unit deficiencies and to establish a realistic plan towards graduation. At the time of termination, the Financial Aid Office will provide the student with instructions on how to appeal. A copy of the appeal form can be obtained from the Financial Aid Office. When filing an appeal, the student must provide a full explanation, along with documentation, verifying the circumstances that led to the inability to meet the minimum progress requirements. It is important that a definite plan towards graduation is established. An Academic Success Plan should be completed with the assistance of a Student Success Coach and submitted along with the letter of appeal. Should the appeal be approved, it is important that the Academic Success Plan be realistic as the ability to adhere to the plan will be closely monitored. Failure to follow the courses and units outlined may be used as a basis for future denial of financial aid.

## **If the Appeal is Denied**

Students that do not have their appeals approved will receive information regarding other alternatives available to them. Some options include:

- Continuing enrollment at California Baptist University without any financial assistance

- Continuing enrollment at California Baptist University with the assistance of private loans. The Financial Aid Office can provide the student with information on these loans.

- Taking a leave of absence from California Baptist University to make up a portion or all of the deficient units at a Community College. In this case a student will have to file an additional appeal to have aid reinstated once the student has completed the required units and demonstrated the ability to continue at California Baptist University without having incurred any additional deficiencies. The Financial Aid Office recommends that the student speak with Student Success Coach to ensure that any classes taken elsewhere will count towards the student's program.

## **Institutional Financial Aid Programs for Online Students**

### **Common Requirements for Institutional Programs**

With regard to institutional financial assistance, the following common requirements have been established for all students enrolled in Online Programs of study:

- All scholarships are applied directly to a student's account. No cash distributions are made directly to the scholarship recipient. Scholarships are not transferable to any student other than the recipient.

- In order to maintain aid eligibility, students receiving any financial aid must maintain satisfactory academic progress, as stated in this catalog.

- Institutional scholarships are limited and may not be awarded if all available funds have been appropriated.

- Students must submit all requested documents as soon as possible, but no later than two weeks prior to the end of each Fall semester, Spring semester, and Summer semester.

All awards are based on full-time enrollment of twelve (12) units per semester or session. Students enrolled for less than twelve (12) units are eligible to receive aid, prorated accordingly.

All institutional aid is tuition-based. If a student receives additional non-institutional tuition-based aid (such as Cal Grant), the amount of tuition-based aid may need to be reduced so the total tuition-based aid does not exceed the cost of tuition.

## **Institutional Financial Aid Programs for Traditional Undergraduate Students**

### **Common Requirements for all Institutional Aid**

Students applying for institutional aid are encouraged to apply for other forms of grant-based aid available through federal and state programs.

Institutional aid is applied to tuition, fees, and on-campus room and board charges only. Institutional aid consists of grants and scholarships from California Baptist University and is not to exceed the total cost of tuition, fees, and on-campus room and board.

Institutional aid may not be applied to Aviation Lab Fees.

Institutional aid is applied directly to a student's account. No cash distributions are made directly to the recipients. Institutional aid is not transferable to students other than the recipient.

Institutional aid recipients must maintain at least half-time enrollment in order to remain eligible. For financial aid purposes, half-time enrollment is defined as six (6) units.

Institutional aid will be prorated based on the student's enrollment status.

University Residency Requirements apply to all students who receive institutional aid. Please refer to the Student Handbook (section 81) for details.

Students receiving institutional aid must maintain Satisfactory Academic Progress as stated in this catalog.

Students receiving participation scholarships may remain eligible at the discretion of the department.

Institutional aid is coordinated and adjusted with other forms of aid and cannot exceed a student's direct cost. If a student is a Cal Grant recipient, institutional aid cannot exceed the student's calculated need per California Student Aid Commission policy.

Institutional aid may not be applied to travel/study abroad programs conducted by the University. This does not include the field practicum requirement for Intercultural Studies.

Students concurrently enrolled in other institutions are eligible for California Baptist University institutional aid based only on the units being taken at CBU.

Institutional aid is awarded for the Fall and Spring Semesters only, unless otherwise indicated.

Individual departments may award scholarships for Fall, Spring, or Summer. Eligibility requirements, semesters of availability and amount of aid offered is at the discretion of the department. Students receiving "tuition discount," through their Memorandum of Understanding (MOU) cannot get other institutional aid. Students can only receive the MOU or institutional aid, whichever is greater.

## **Academic Scholarships - Traditional Programs**

### **Merit Scholarships**

Award amounts are listed for students enrolling for the first time at California Baptist University. Merit scholarship policy is established and approved at the highest administrative levels of the University and the scholarships are awarded yearly by entering class. Please note a merit scholarship will never increase for a current student based upon an increased grade point average or increased scholarship amounts of a new entering class. A merit scholarship will remain the same for the student's entire time at the University, provided minimum GPA requirements are met.

Please note: Students are subject to the scholarship policies as outlined in the catalog of the year in which they entered CBU. Students taking a leave of absence from CBU will be subject to their original catalog scholarship policies upon reentering the University. Exceptions to this clause are at the sole discretion of the University.

Merit scholarships fall into two categories:

- **First Time Freshman**
- **Transfer Student**

New students are considered first time freshmen if they have under 24 college units from an accredited college or university recognized by the U.S. Department of Education and/or the Council for Higher Education Accreditation.

New students are considered transfer students if they have completed 24 or more units from an accredited college or university recognized by the U.S. Department of Education and/or the Council for Higher Education Accreditation.

## **First Time Freshman Merit Scholarships**

First Time Freshman Merit Scholarships are awarded based on the student's final high school cumulative weighted GPA. Students are placed into one of four Merit Scholarship Tiers:

- **Trustee's Scholarship** (\$16,000) 4.0 GPA and above
- **President's Scholarship** (\$15,000) 3.9 - 3.99 GPA
- **Dean's Scholarship** (\$14,000) 3.3 - 3.89 GPA
- **Director's Scholarship** (\$10,000) 2.95 - 3.29 GPA

### **Procedure**

- Potential recipients must submit final official high school transcripts to the Undergraduate Admissions Office.
- Students must complete a FAFSA and submit all requested financial aid paperwork to the Financial Aid Office should they wish to be considered for need-based sources of financial aid.

## **Director's Scholarship**

### **Eligibility**

- The Director's Scholarship is a merit-based scholarship designed to attract and retain students of exceptional academic ability.
- The scholarship is available only to entering freshmen
- The scholarship is renewable annually provided a minimum 2.0 cumulative GPA is maintained.
- If student's cumulative GPA is below the minimum 2.0 requirement when reviewed at the end of each spring semester, the student will not retain the Director's Scholarship.
- Once the scholarship is lost, it cannot be restored.

### **Award**



- A recipient may receive up to \$ 5,000 per semester for the Fall and Spring Semesters
- Scholarships will be awarded initially upon approval from the Admissions Office and are renewable annually as long as eligibility is maintained.

## **Dean's Scholarship**

### **Eligibility**

- The Dean's Scholarship is a merit-based scholarship designed to attract and retain students of exceptional academic ability.
- The scholarship is available only to entering freshmen.
- The scholarship is renewable annually provided a minimum 2.0 cumulative GPA is maintained.
- If the cumulative GPA is below the minimum 2.0 requirement when reviewed at the end of each spring semester, the student will not retain the Dean's Scholarship.
- Once the scholarship is lost, it cannot be restored.

### **Award**

- A recipient may receive up to \$7,000 per semester for the Fall and Spring semesters.
- Scholarships will be awarded initially upon approval from the Admissions Office and are renewable annually as long as eligibility is maintained.

## **President's Scholarship**

### **Eligibility**

- The President's Scholarship is a merit-based scholarship designed to attract and retain students of exceptional academic ability.
- The scholarship is available only to entering freshmen.
- The scholarship is renewable annually provided a minimum 2.0 cumulative GPA is maintained.
- If the cumulative GPA is below the minimum 2.0 requirement when reviewed at the end of each spring semester, the student will not retain the President's Scholarship.
- Once the scholarship is lost, it cannot be restored.

### **Award**

- A recipient may receive up to \$7,500 per semester for the Fall and Spring semesters.
- Scholarships will be awarded initially upon approval from the Admissions Office and are renewable annually as long as eligibility is maintained.

## **Trustee's Scholarship**

## **Eligibility**

- The Trustee's Scholarship is a merit-based scholarship designed to attract and retain students of exceptional academic ability.
- The scholarship is available only to entering freshmen.
- The scholarship is renewable annually provided a minimum 2.0 cumulative GPA is maintained.
- If the cumulative GPA is below the minimum 2.0 requirement when reviewed at the end of each spring semester, the student will not retain the Trustee's Scholarship.
- Once the scholarship is lost, it cannot be restored.

## **Award**

- A recipient may receive up to \$8,000 per semester for the Fall and Spring semesters.
- Scholarships will be awarded initially upon approval from the Admissions Office and are renewable annually as long as eligibility is maintained.

## **Transfer Merit Scholarships**

Transfer student Merit Scholarships are awarded based on the earned cumulative GPA for 24 or more units at a college or University recognized by the U.S. Department of Education and/or the Council for Higher Education Accreditation. Students are placed into one of four Merit Scholarship Tiers:

- Transfer Platinum Scholarship (\$11,000) 3.75 GPA and above
- Transfer Gold Scholarship (\$10,000) 3.5 - 3.74 GPA
- Transfer Blue Scholarship (\$9,000) 3.0 - 3.49 GPA
- Transfer Bronze Scholarship (\$7,000) 2.5 - 2.99 GPA

## **Procedure**

- Potential recipients must submit final official transcripts from all previous colleges or universities attended to the Undergraduate Admissions Office.

## **Transfer Platinum Scholarship**

### **Eligibility**

- The Transfer Platinum Scholarship is a merit-based scholarship designed to attract and retain students of exceptional academic ability.
- The scholarship is available only to incoming transfer students who have completed 24 or more units from an accredited university recognized by the U.S. Department of Education and/or the Council for Higher Education Accreditation.
- The recipient must have earned a college cumulative grade point average (GPA) of at least 3.75 or above.
- The scholarship is renewable annually provided a minimum 2.0 GPA is maintained.

- If the cumulative GPA is below the minimum 2.0 requirement when reviewed at the end of each spring semester, the student will not retain the Transfer Platinum Scholarship.
- Once the scholarship is lost it cannot be restored.

### **Award**

- A recipient may receive up to \$5,500 per semester for the Fall and Spring semesters.
- Scholarships will be awarded initially upon approval from the Admissions Office and are renewable annually as long as eligibility is maintained.

## **Transfer Gold Scholarship**

### **Eligibility**

- The Transfer Gold Scholarship is a merit-based scholarship designed to attract and retain students of exceptional academic ability.
- The scholarship is available only to incoming transfer students who have completed 24 or more units from an accredited university recognized by the U.S. Department of Education and/or the Council for Higher Education Accreditation.
- The recipient must have earned a college cumulative grade point average (GPA) of at least 3.5 to 3.74.
- The scholarship is renewable annually provided a minimum 2.0 GPA is maintained.
- If the cumulative GPA is below the minimum 2.0 requirement when reviewed at the end of each spring semester, the student will not retain the Transfer Gold Scholarship.
- Once the scholarship is lost it cannot be restored.

### **Award**

- A recipient may receive up to \$5,000 per semester for the Fall and Spring semesters.
- Scholarships will be awarded initially upon approval from the Admissions Office and are renewable annually as long as eligibility is maintained.

## **Transfer Blue Scholarship**

### **Eligibility**

- The Transfer Blue Scholarship is a merit-based scholarship designed to attract and retain students of exceptional academic ability.
- The scholarship is available only to incoming transfer students who have completed 24 or more units from an accredited university recognized by the U.S. Department of Education and/or the Council for Higher Education Accreditation.
- The recipient must have earned a college cumulative grade point average (GPA) of 3.0 to 3.49.

- The scholarship is renewable annually provided a minimum 2.0 GPA is maintained.
- If the cumulative GPA is below the minimum 2.0 requirement when reviewed at the end of each spring semester, the student will not retain the Transfer Blue Scholarship.
- Once the scholarship is lost it cannot be restored.

#### **Award**

- A recipient may receive up to \$4,500 per semester for the Fall and Spring semesters.
- Scholarships will be awarded initially upon approval from the Admissions Office and are renewable annually as long as eligibility is maintained.

### **Transfer Bronze Scholarship**

#### **Eligibility**

- The Transfer Bronze Scholarship is a merit-based scholarship designed to attract and retain students of exceptional academic ability.
- The scholarship is available only to incoming transfer students who have completed 24 or more units from an accredited university recognized by the U.S. Department of Education and/or the Council for Higher Education Accreditation.
- The recipient must have earned a college cumulative grade point average (GPA) of at least 2.5 or above.
- The scholarship is renewable annually provided a minimum 2.0 cumulative GPA is maintained.
- If the cumulative GPA is below the minimum 2.0 requirement when reviewed at the end of each spring semester, the student will not retain the Transfer Bronze Scholarship.
- Once the scholarship is lost, it cannot be restored.

#### **Award**

- A recipient may receive up to \$3,500 per semester for the Fall and Spring semesters.
- Scholarships will be awarded initially upon approval from the Admissions Office and are renewable annually as long as eligibility is maintained.

### **Departmental Scholarship - Traditional Programs**

#### **Architecture Scholarship**

##### **Description**

- The Architecture Scholarship is designed for students who are serious about pursuing architecture.

##### **Award**

- Award amounts are determined by the College of Architecture, Visual Arts, and Design.

### **Procedure**

- Potential recipients should apply directly with the College of Architecture, Visual Arts, and Design.

## **Athletic Scholarship**

### **Description**

- The Athletic Scholarship is designed to assist students who have been chosen to represent the University on one of the intercollegiate athletic teams.

### **Eligibility**

- A recipient must be selected for participation on one of the University's athletic teams.
- A recipient must meet eligibility requirements of the National Collegiate Athletic Association (NCAA), the Western Athletic Conference, and institutional policy.
- A recipient must sign a participant agreement and an Athletic Grant In Aid Form with the University.

### **Award**

- A recipient may receive up to full tuition, required fees, room, and board per semester for the Fall and Spring semesters.
- Scholarships will be accepted by signature of an Athletic Grant In Aid Form.
- Scholarships are awarded in accordance with NCAA and institutional bylaws, regulations, and policies.

### **Procedure**

- Potential recipients should apply directly with the Athletic Department. If the student is offered a scholarship, the student will receive a letter from the Financial Aid Office.

## **Bachelor of Applied Theology Scholarship**

### **Description**

- The Bachelor of Applied Theology (BAT) Scholarship is designed to assist students that are preparing to be pastors and church leaders.

### **Eligibility**

- Student must apply and be accepted to the BAT program.
- Students must sign the program contract with the School of Christian Ministries.

### **Award**

- The award varies each year as approved by the Dean of the School of Christian Ministries and by the President of the University.
- BAT scholarship recipients are not eligible to receive other institutional aid with the exception of those listed below:
  - VA Yellow Ribbon Program Scholarship
  - Participation-based scholarships
  - Donor scholarships

### **Procedure**

- Applicants should apply directly with the School of Christian Ministries.

## **Engineering Scholarship**

### **Description**

- The Engineering Scholarship is designed to attract and assist students who plan to major in engineering.

### **Eligibility**

- Recipients are selected by the College of Engineering in the spring and summer prior to the award year. Most of the scholarships are awarded for academic achievement prior to coming to California Baptist University based on transcripts, and SAT, ACT, or CLT scores.

### **Award**

- The award amount varies each year as approved by the Dean of the College of Engineering.

### **Procedure**

- Potential recipients should apply directly with the College of Engineering.

## **College of Architecture, Visual Arts, and Design Scholarship**

### **Description**

- The College of Architecture, Visual Arts, and Design (CAVAD) Scholarship is designed for students who are serious about pursuing these disciplines.

### **Award**

- Award amounts are determined by the College of Architecture, Visual Arts, and Design.

### **Procedure**

- Potential recipients should apply directly with the College of Architecture, Visual Arts, and Design.

## **Journalism and Speech/Debate Scholarship**

### **Description**

- The Journalism and Speech/Debate Scholarship is designed to attract and assist students who have been selected for participation in journalism or speech and debate.
- A recipient must be selected by the Communication Arts Department for participation in the publication of The Banner Student Newspaper, The Angelos Yearbook, or the Forensic Speech and Debate Team.

### **Award**

- The award amount varies each year as approved by the department.

### **Procedure**

- Potential recipients should apply directly with the Communication Arts Department.

## **Music Scholarship**

### **Description**

- The Music Scholarship is designed to attract and assist students who have been chosen for participation in one of the University's music performance groups.

### **Eligibility**

- A recipient must be selected by the School of Music for participation in a music performance group or as a staff accompanist. A recipient must sign a contractual agreement with the School of Music.

- Ensemble members or music students receiving a music scholarship are required to make normal academic progress in their academic studies. Normal academic progress is defined as enrolling in and successfully completing the proper sequence of courses listed in the current School of Music Handbook each semester. Students must comply with departmental procedures and make satisfactory progress toward their degree as reviewed by the School of Music faculty. This review can occur at any point during the semester or academic year.

### **Award**

- Recipients may receive varying amounts for the Fall and Spring semesters.
- Music scholarships are awarded on a semester-by-semester basis only.

### **Procedure**

- Potential recipients should apply directly with the School of Music.

## **ROTC Room and Board Scholarship**

### **Description**

- The Room and Board Scholarship is designed to assist students who receive full tuition scholarships from one of the US Military branches of service.

### **Eligibility**

- Recipients of the Room and Board Scholarship must be recipients of full tuition scholarships provided by the military.
- Recipients of the Room and Board Scholarship must have a completed FAFSA on file, even if the student does not plan on using financial aid

### **Award**

- Recipients will be awarded the amount of a meal plan and standard room. When applicable, the total award package, including other federal, state, and institutional aid, may be adjusted to avoid exceeding direct cost.

### **Procedure**

- Interested students should inquire with the office of the Assistant Professor for Military Science.

## **Theater Arts Scholarship**



## **Description**

- The Theater Arts Scholarship is designed to attract and assist students who have been selected for participation in annual drama and theater productions.
- A recipient must be selected by the School of Performing Arts for participation in the major play production (dramatic or technical) or drama ministry teams.

## **Award**

- Award amounts are determined by the Theater Department.

## **Procedure**

- Potential recipients should apply directly with the School of Performing Arts.

## **Other Scholarships**

### **California Baptist University Grant**

#### **Description**

- The California Baptist University Grant program is a need-based grant offered to traditional undergraduate students.

#### **Eligibility/Award**

- The CBU Grant is an institutional need-based grant that is awarded to students who demonstrate need as determined by the results of the FAFSA and consideration of all other sources of gift aid.
- The grant is renewable provided the student continues to demonstrate financial need, is maintaining satisfactory academic progress, and meets all other eligibility requirements to receive institutional aid.
- The CBU Grant is coordinated with all other sources of aid and is subject to reduction based upon other aid sources received prior to and during the course of the academic year.

#### **Procedure**

- Students must complete a FAFSA and submit all requested financial aid paperwork to the Financial Aid Office to be considered for need-based sources of financial aid.

### **California Baptist University Promise Grant**

#### **Description**

- The California Baptist University Promise Grant program guarantees that students receive a minimum annual amount of institutional aid as follows:
- First Time Freshman \$7,000
- Transfer Student \$6,000

### **Eligibility/Award**

- The CBU Promise Grant is an institutional grant that is awarded to First Time Freshman who have less than \$7,000 of institutional aid and to Transfer Students who have less than \$6,000 of institutional aid.
- It is added to the student's financial aid offer in an amount that, when added to all other sources of institutional aid, brings the student's total institutional aid to the promised amount listed above.
- The grant is renewable provided the student continues to need the award to meet the promised amount listed above, is maintaining satisfactory academic progress, and meets all other eligibility requirements to receive institutional aid.
- The CBU Promise Grant is coordinated with all other sources of institutional aid and is subject to reduction based upon other institutional aid received prior to and during the course of the academic year.

### **Procedure**

- As with all sources of institutional aid, the Promise Grant will be prorated based on the student's enrollment status.

## **Preferred District Scholarship**

### **Description**

- The Preferred District Scholarship program guarantees that first time freshmen entering CBU from one of the selected school districts having an agreement with California Baptist University receive a minimum of \$10,000 institutional aid.

### **Eligibility/Award**

- The Preferred District Scholarship is an institutional grant that is awarded to first time freshmen entering CBU from one of the selected school districts, as determined by the Admissions Office, who have less than \$10,000 of institutional aid.
- It is added to the student's financial aid offer in an amount that, when added to all sources of institutional aid, bring the total institutional aid to \$10,000.
- The grant is renewable provided the student continues to need the award to meet the \$10,000 guarantee, is maintaining satisfactory academic progress, and meets all other eligibility requirements to receive institutional aid.

- The Preferred District Scholarship is coordinated with all other sources of institutional aid and is subject to reduction based upon other institutional aid received prior to and during the course of the academic year.

### **Procedure**

- Students must complete a FAFSA and turn in all requested financial aid paperwork to the Financial Aid Office.
- Potential recipients must submit final official high school transcripts to the Undergraduate Admissions Office.
- As with all sources of institutional aid, the Preferred District Scholarship will be prorated based on the student's enrollment status.

## **Out of State Grant**

### **Description**

- The Out of State Grant program guarantees that students entering CBU, whose primary residence is a state other than California, receive a minimum of \$10,000 of institutional aid. The Grant is not available to students entering through International Admissions.

### **Eligibility/Award**

- The Out of State Grant is an institutional grant that is awarded to students entering CBU, whose primary resident is a state other than California, who have less than \$10,000 of institutional aid.
- It is added to the student's financial aid offer in the amount that, when added to all sources of institutional aid, brings the total institutional aid to \$10,000.
- The grant is renewable provided the student continues to need the award to meet the \$10,000 guarantee, is maintaining satisfactory academic progress, and meets all other eligibility requirements for institutional aid.
- The Out of State Grant is coordinated with all other sources of institutional aid and is subject to reduction based upon other institutional aid received prior to and during the course of the academic year.

### **Procedure**

- Students must complete a FAFSA and turn in all requested financial aid paperwork to the Financial Aid Office.
- Potential recipients must submit final official high school transcripts to the Undergraduate Admissions Office.
- As with all sources of institutional aid, the Out of State Grant will be prorated based on the student's enrollment status.

## **Church-Related Vocation (CRV) Scholarship**

### **Description**

- The Church-Related Vocation (CRV) Scholarship is designed to assist students who are preparing for a vocation as a minister.

### **Eligibility**

- The recipient must be a Southern Baptist student preparing for vocational ministry as a minister of education, music, children, youth, pastor, missionary, or denominational minister through the Southern Baptist Convention.
- Applicants for the scholarship must be interviewed and recommended by a faculty member of the School of Christian Ministries.
- Recipients must satisfactorily participate in the Supervised Ministry Program for students preparing for ministry in a church-related vocation.
- Recipients must complete at least nine (9) units of upper division coursework within the School of Christian Ministries.
- A local Southern Baptist Church must certify the recipient's status. Satisfactory church attendance and participation are required.
- The scholarship is renewable annually, with approval of the Dean of the School of Christian Ministries.

### **Award**

- Recipients may receive a maximum of \$1500 per semester, limited to the Fall and Spring semesters.

### **Procedure**

- Applications are available in the School of Christian Ministries.

## **International Mission Board Scholarship**

### **Description**

- The International Mission Board Scholarship assists the dependent children (as determined by the student's FAFSA) of an active missionary employed by the Southern Baptist Convention International Mission Board (IMB), or a missionary on furlough (stateside assignment) recognized as an IMB employee.

### **Eligibility**

- Recipients must be a traditional undergraduate student.

- Recipients must be enrolled fulltime (12 or more units).
- Recipients must make semesterly progress toward the completion of an undergraduate degree.
- Recipients must maintain Satisfactory Academic Progress.
- Recipients must maintain continuous enrollment at CBU. Exceptions may be granted in writing from the Student Services Office under limited circumstances (e.g. students who experience medical and/or emotional issues).
- Recipients may only apply the IMB Scholarship to their first traditional undergraduate degree program.
- Recipients must meet University Residency Requirements including residing in University housing and maintaining meal plan requirements. Please refer to the Student Handbook ("Meal Plans" and "Enrollment and Residency Requirements") for details.
- Recipients must abide by the CBU Standard of Student Conduct, understanding failure to do so may result in loss of this scholarship.

### **Award**

- Recipients will be awarded 75% of tuition. All other fees, including room and board charges, are the responsibility of the student.
- A recipient is eligible to receive participation based scholarships, but is not eligible for any other institutional aid.
- The scholarship will cover degree applicable courses for the first bachelor's degree.
- If the recipient is a Cal Grant recipient, he or she can receive the scholarship up to the cost of tuition, general fee, and student services fee.
- International Missions Board Scholarships are awarded during all academic terms: Fall, Spring, and Summer.

### **Procedure**

- Potential recipients should inquire with the Undergraduate Admissions Office.

## **Minister's Kin Scholarship**

### **Description**

- The Minister's Kin Scholarship assists the dependent children of evangelical ministers.

### **Eligibility**

- The recipient must be the dependent child (as determined by the FAFSA) of a minister engaged in full-time service as a pastor, minister of education, music, children, youth, chaplain, missionary appointed by the Southern Baptist North American Mission Board or denominational employee engaged in a full-time vocational ministry. Students

receiving a Bachelor's of Applied Theology are not eligible for a Minister's Kin Scholarship.

- The scholarship is renewable annually.

### **Award**

- A recipient may receive up to \$1,625 per semester for the Fall and Spring semesters.

### **Procedure**

- Potential recipients should inquire directly with the Admissions Office.

## **Multiple Sibling Discount**

### **Description**

- The Multiple Sibling Discount is designed to assist dependent students from families with two or more members who are simultaneously attending the Traditional Undergraduate Program at California Baptist University on a full-time basis.

### **Eligibility**

- Recipients must be immediate members of the same family (siblings) in which two or more family members are currently enrolled at California Baptist University in the Traditional Undergraduate Program on a full-time basis.
- Online Program students are not eligible.
- Siblings must both be dependent students as defined by the FAFSA.

### **Award**

- Recipients receive \$1,000 per semester for the Fall and Spring semesters.

### **Procedure**

- Potential recipients should complete the FAFSA and turn in all required paperwork to the Financial Aid Office. New students should inquire directly with the Admissions Office.

### **Veteran Benefits**

Using veteran educational benefits, Financial Aid Office staff will process course certification to the Department of Veterans Affairs in a timely and efficient manner. The Financial Aid Office maintains records for each identified veteran. A record of transfer work is kept on file and the Veterans Affairs (VA) is notified of the transfer work accepted for each veteran.

California Baptist University (CBU) is a participating Concurrent Admissions Program (ConAp) institution, and military credit or experience may provide some equivalency credit in accordance with the American Council on Education (ACE) guidelines.

At the beginning of their first term at CBU, new student veterans and dependents must provide a written request to the CBU School Certifying Official (SCO) to initiate reporting of verification of enrollment and academic progress to the appropriate VA regional office. Any changes in enrollment or attendance should be reported to the SCO. Satisfactory progress must be maintained as specified in the Scholastic Regulations Section under Academic Policies.

Students who qualify for the Post-9/11 GI Bill® may also qualify for the VA Yellow Ribbon Program Scholarship. The Yellow Ribbon GI Education Enhancement Program is a provision of the Post-9/11 Veterans Education Assistance Act of 2008. The program provides for an agreement between California Baptist University and the Department of Veterans Affairs to award scholarships to qualified VA students to fund tuition and fees that exceed benefits available under the Post-9/11 GI Bill®. Under the agreement, VA will match CBU's scholarship contribution. CBU will consider all students who qualify for the Post-9/11 GI Bill® at the 100% benefit level for the Yellow Ribbon Scholarship Program.

Student veterans/dependents requesting their classes be certified under Chapter 33 (Post 9/11 GI Bill®) are required to obtain a Certificate of Eligibility from the VA and submit that to the SCO. Student veterans under Chapter 31 Veterans Readiness and Employment (VR&E) case manager should forward a Purchase Order Authorization via Tungsten network directly to the SCO. For a period of ninety (90) days from the beginning of each term, students under Chapters 31 or 33 will not incur any penalty, including the assessment of late fees, the denial of access to classes, libraries, or other institutional facilities, or be required to secure additional financial resources to meet the student's financial obligation which results from delayed VA disbursement.

Student veterans and dependents receiving educational benefits under Chapters 30, 31, 33, 35, and 1606 are required to submit a Statement of Responsibility Form every semester if they plan to use VA educational benefits at CBU.

Students can fill out the form electronically located in the CBU Veterans page, visit [www.calbaptist.edu/veterans](http://www.calbaptist.edu/veterans). Once submitted, the form will go to both the SCO and the student's email address. CBU's SCO's will certify courses after receiving the form. Courses can still be certified after the term's drop with refund date once all required documentation has been received. GI Bill® is a registered trademark of the US Department of Veterans Affairs (VA). For more information about VA educational benefits, visit [www.gibill.va.gov](http://www.gibill.va.gov).

### **Military Tuition Assistance**

California Baptist University Online Programs are available to active-duty service members of all branches of the Armed Forces through CBU's participation in the Department of Defense Military Tuition Assistance (TA) Benefit Program. For additional information, go to <https://www.cbuonline.edu/students/militarytuitionassistance>.

## **VA Yellow Ribbon Program Scholarship**

### **Description**

- The Yellow Ribbon GI Education Enhancement Program is a provision of the Post-9/11 Veterans Education Assistance Act of 2008. The program provides for an agreement between California Baptist University and the Department of Veterans Affairs to award scholarships to qualified VA students to fund tuition and fees that exceed benefits available under the Post 9/11 GI Bill® (Chapter 33). Under the agreement, VA will match CBU's scholarship contribution.

### **Eligibility**

- Students must qualify for the Post-9/11 GI Bill® through Veterans Affairs and elect to receive benefits under the Post-9/11 GI Bill® program.
- Students must qualify for Yellow Ribbon program benefits as defined by the Post-9/11 GI Bill® and Yellow Ribbon GI Education Enhancement Program.

### **Award**

- Recipients may receive varying amounts to be determined by semester enrollment, tuition, and fee charges. Not to exceed \$10,000 per year max for undergraduate students and \$3,000 per year max for graduate students.
- Yellow Ribbon Scholarships are offered in lieu of CBU funded aid, including previously offered CBU funded academic or other institutional scholarships. However, Yellow Ribbon recipients will remain eligible to receive specific participation scholarships, in addition to the Yellow Ribbon Scholarship. The specific participation scholarships are as follows: athletics related, music, theater, speech/debate, Bachelor of Applied Theology program. The combination of these specific participation scholarships and Yellow Ribbon scholarships will only be funded up to direct charges and books and will not be refundable. If veteran benefits expire prior to graduation, academic or other institutional scholarships may be reinstated as long as academic renewal requirements have been met.
- Recipients will be awarded in the current and subsequent academic years in which the University participates in the Yellow Ribbon Program and the student maintains continued enrollment, conduct, and attendance.
- CBU's undergraduate Yellow Ribbon Scholarship award shall not exceed \$14,000 for any given academic year for undergraduate students and \$5,000 for any given academic year for graduate students.

### **Procedure**

- CBU will offer Yellow Ribbon Scholarship to students who qualify at the 100% benefit level for the Post-9/11 GI Bill® and the Yellow Ribbon Program as determined by their VA Certificate of Eligibility.

### **Policy**

- Students who utilize VA Chapter Benefits for tuition and fees at CBU may have their institutional scholarship aid reduced to direct costs. Institutional aid is not refundable and VA Chapter Benefits will be applied to tuition and fees first.

## **International Student Scholarships for Undergraduate Students**

### **Common Requirements for International Student Scholarships**



- Institutional aid is applied to tuition, fees, room and board charges only. Institutional aid consists of grants from California Baptist University and is not to exceed the total cost of tuition, fees and on-campus room and board.
- Institutional aid is applied directly to a student's account. No cash distributions are made directly to the recipients.
- Institutional aid is not transferable to students other than the recipient.
- Institutional aid recipients must maintain full-time enrollment to remain eligible. For financial aid purposes, full-time enrollment is defined as twelve (12) units for undergraduate students. By exception, institutional aid will be prorated to the enrollment status of half-time or less.
- Students receiving institutional aid must maintain satisfactory academic progress as stated in this catalog. Students receiving participation scholarships may remain eligible at the discretion of the department.
- Students concurrently enrolled in other institutions are eligible for California Baptist University institutional aid based only on the units being taken at CBU.
- Generally, institutional aid is awarded for the Fall and Spring semesters only, unless otherwise indicated.
- Students receiving "tuition discount" through their Memorandum of Understanding (MOU) cannot receive other institutional aid. Students can only receive the MOU or institutional aid, whichever is greater.

## **Global Initiatives Grant**

### **Description**

- The Global Initiatives Grant program is based on merit and need.

### **Eligibility**

- Student must maintain a cumulative grade point average (GPA) of 2.0 or higher.
- Student must demonstrate need as determined by the results of the international student financial aid packet to be eligible.
- New and continuing international students are eligible for the grant.
- The grant is renewable dependent upon meeting the eligibility requirements and availability of funds.

### **Award**

- Students are eligible to receive up to \$4,000 per semester.

### **Procedure**

- Potential recipients should complete and submit the International Financial Aid Packet and any other requested paperwork to the International Center.

## **Ambassador's Scholarship**

### **Description**

- The Ambassador's Scholarship is a merit-based scholarship designed to attract and retain international students of exceptional academic ability.

### **Eligibility**

- The scholarship is available only to entering freshmen.
- The recipient must have earned a minimum cumulative high school grade point average (GPA) of 3.5 on a 4.0 scale.
- The scholarship is renewable annually provided a minimum 2.0 cumulative GPA is maintained.
- Should the cumulative GPA drop below this requirement, the recipient will be given one probationary semester to restore the cumulative GPA to the minimum level. Only one such probationary semester will be allowed throughout the student's tenure at California Baptist University.

### **Award**

- A recipient may receive up to \$6,000 per semester for the Fall and Spring semesters.
- Scholarships will be awarded initially upon approval from the International Center and are renewable annually as long as eligibility is maintained.

## **Diplomat's Scholarship**

### **Description**

- The Diplomat's Scholarship is a merit-based scholarship designed to attract and retain international students of exceptional academic ability.

### **Eligibility**

- The scholarship is available only to entering freshmen.
- The recipient must have earned a minimum cumulative high school grade point average (GPA) of 3.0 - 3.49 on a 4.0 scale.
- The scholarship is renewable annually provided a minimum 2.0 cumulative GPA is maintained.
- Should the cumulative GPA drop below this requirement, the recipient will be given one probationary semester to restore the cumulative GPA to the minimum level. Only one such probationary semester will be allowed throughout the student's tenure at California Baptist University.

## **Award**

- A recipient may receive up to \$4,500 per semester for the Fall and Spring semesters.
- Scholarships will be awarded initially upon approval from the International Center and are renewable annually as long as eligibility is maintained.

## **Transfer INTERNATIONAL NAVIGATOR Scholarship**

### **Description**

- The Transfer INTERNATIONAL NAVIGATOR Scholarship is a merit-based scholarship designed to attract and retain international students of exceptional academic ability.

### **Eligibility**

- The scholarship is only available to incoming transfer students who have completed 24 or more units from an accredited university recognized by the U.S. Department of Education and/or the Council for Higher Education Accreditation.
- The recipient must have earned a college cumulative grade point average (GPA) of at least 3.3 or above.
- The scholarship is renewable annually provided a minimum 2.0 GPA is maintained.
- Should the cumulative GPA drop below this requirement, the recipient will be given one probationary semester to restore the GPA to the minimum level. Only one such probationary semester will be allowed throughout the student's tenure at California Baptist University.

## **Award**

- A recipient may receive up to \$4,000 per semester for the Fall and Spring semesters.
- Scholarships will be awarded initially upon approval from the International Center and are renewable annually as long as eligibility is maintained.

## **Transfer INTERNATIONAL EXPLORER Scholarship**

### **Description**

- The Transfer INTERNATIONAL EXPLORER Scholarship is a merit-based scholarship designed to attract and retain international students of exceptional academic ability.

### **Eligibility**

- The scholarship is only available to incoming transfer students who have completed 24 or more units from an accredited university recognized by the U.S. Department of Education and/or the Council for Higher Education Accreditation.
- The recipient must have earned a college cumulative grade point average (GPA) of at least 3.0 - 3.29.
- The scholarship is renewable annually provided a minimum 2.0 GPA is maintained.
- Should the cumulative GPA drop below this requirement, the recipient will be given one probationary semester to restore the GPA to the minimum level. Only one such probationary semester will be allowed throughout the student's tenure at California Baptist University.

### **Award**

- A recipient may receive up to \$3,000 per semester for the Fall and Spring semesters.
- Scholarships will be awarded initially upon approval from the International Center and are renewable annually as long as eligibility is maintained.

## **Federal Financial Aid Programs for Undergraduate Students**

### **Common Requirements for All Federal Programs**

All students applying for federal aid must complete a Free Application for Federal Student Aid (FAFSA). It must be valid and have an official EFC.

Federal aid recipients must be a U.S. citizen, permanent resident, or eligible non-citizen.

Federal aid recipients must not be in default of a student loan and must not owe for an over payment of any federal educational grant.

Federal aid recipients must maintain satisfactory academic progress according to institutional standards as stated in this catalog.

Students concurrently enrolled at other institutions will only be eligible to receive financial aid for registered units at California Baptist University, unless there is an approved consortium agreement.

Note: Federal programs are subject to change at any time.

### **Federal Pell Grant**

#### **Description**

- The Federal Pell Grant is a federally funded, need-based grant available to undergraduate students as determined annually by the U.S. Congress.

#### **Eligibility**

- Eligibility for the Federal Pell Grant is determined by the federal government according to a formula developed by the U.S. Department of Education and approved annually by Congress.

- Students must submit a FAFSA to determine eligibility. Students will be notified of eligibility via the Student Aid Report (SAR).
- If a student has less than 100% of Pell Grant eligibility for the year, then the maximum amount that can be awarded is added to their first term. Any remaining eligible amount is added their subsequent term.
- Students enrolled less than half time may qualify for a portion of their Pell Grant.

### **Award**

- Award amounts vary based on the annual amount approved by Congress and the student's eligibility based on the FAFSA.

## **Federal Supplemental Educational Opportunity Grant (FSEOG)**

### **Description**

- The Federal Supplemental Educational Opportunity Grant is a federally funded, need-based, campus-based grant designed to supplement other sources of financial aid for students who qualify for additional assistance.

### **Eligibility**

- Eligibility is determined by a student's expected family contribution (EFC). Students with the lowest EFC will be awarded first. Priority will be given to students with completed financial aid files. Availability is limited.

### **Award**

- In general, the award is up to \$2,000 per year, divided equally among fall and spring semesters of enrollment.
- The semester award amount will be prorated for less than half-time enrollment.

## **Federal Work Study Program**

### **Description**

- Federal Work Study (FWS) is a federally funded, need-based, campus-based work program designed to assist undergraduate and graduate students desiring a job on campus to earn money for their educational expenses.

### **Eligibility**

- Eligibility is determined by a student's financial need as determined by the results of the FAFSA. Availability is limited.

## **Award**

- FWS funds are not disbursed separately to the student, nor applied to the student's account; they are included in the student's regular paycheck. Work Study awards indicate a maximum amount for which a student is eligible. Student's earnings will be monitored each pay period and counted toward their eligibility.
- FWS earnings will not negatively impact FAFSA determined financial aid eligibility in subsequent years.

## **Procedure**

- Students obtain an employment application from Career Services. The application is reviewed by Financial Aid for FWS eligibility. Once employment is obtained, FWS will be applied. FWS amounts are based on hours worked and financial need as determined by the FAFSA.

## **Federal Direct Loan**

### **Description**

- The Federal Direct Loan is a low-interest loan available to students who have financial need as determined by the results of the FAFSA. The loan is made to the student by the US Department of Education through the Direct Loan Program. Students should refer to [www.nslds.ed.gov](http://www.nslds.ed.gov) regarding payment details and servicer information for their Direct Loan repayments. Interest rates are subject to change upon congressional and presidential action.

**Federal Subsidized Direct Loan Interest Rates** - No interest accrues while the student is enrolled in school at least half-time and repayment begins six months after graduating, leaving school, or dropping below half time enrollment.

**Federal Unsubsidized Direct Loan Interest Rates** - Interest begins accruing after the first disbursement. The student is responsible for any interest accrued but can defer the interest with the principle of the loan. Unsubsidized loans have a fixed interest rate calculated yearly based upon the ten year Treasury note index, plus an add-on determined by congress. The interest rate is capped at 9.5%.

### **Eligibility**

- Students are allowed subsidized loans for 150% of the published time frame for the program of study, up to the aggregate loan limit.
- Eligibility is determined by a student's financial need and grade level.
- First-time borrowers and transfer students must complete entrance counseling before any funds will be disbursed. Upon graduation or whenever a recipient ceases to be enrolled, exit counseling must be completed.
- When a refund is applicable, funds will be disbursed electronically directly to the student's preassigned account or via paper check if necessary.

## Award

- See following chart for eligibility amounts.

## Annual and Aggregate Loan Limits

### Federal Direct Loans

Academic Year	Dependent Students		Independent Students	
	Base Direct Loan Amount	Additional Unsubsidized Loan	Base Direct Amount	Additional Unsubsidized Loan
<b>Annual Limits</b>				
Year 1	\$3,500	\$2,000	\$3,500	\$6,000
Year 2	\$4,500	\$2,000	\$4,500	\$6,000
Year 3, 4, 5	\$5,500	\$2,000	\$5,500	\$7,000
<b>Aggregate Limits</b>				
Undergraduate	\$23,000	\$8,000	\$23,000	\$34,500

## Federal Parent Loan for Undergraduate Students (PLUS)

### Description

- Federal PLUS loans are available to credit worthy parent borrowers. Loans are made by the U.S. Department of Education. Repayment of PLUS loans begins within 60 days after final disbursement is made to the school unless the borrower requests a loan deferment. Fixed interest rates are determined yearly by Congress, not to exceed 9%. Updated interest rate information is made available at [studentaid.gov](http://studentaid.gov).

### Eligibility

- Eligibility is dependent upon the amount of other financial aid a student receives. Federal PLUS loans are not need-based; however, when added to the student's financial aid, the total may not exceed the students cost of attendance.

## Award

- Under the federal PLUS loan program, a parent may be eligible to borrow up to the difference between University costs and other aid received each academic year.

Note: Additional Direct Loans may also be available for dependent students whose parents do not qualify for a PLUS loan. A PLUS application must have been denied by the US Department of Education, prior to a dependent student receiving any additional unsubsidized loan.

## **State Financial Aid Programs**

### **Common Requirements for State Programs**

All students applying for new Cal Grant awards must submit a FAFSA and a GPA verification form by the published deadline (usually March 2). Current Cal Grant recipients must also submit the FAFSA to determine renewal of Cal Grant eligibility.

All students applying for state aid must be U.S. citizens, permanent residents, eligible non-citizens or, eligible AB540 student as determined by the state of California.

State aid recipients must be residents of California. Until age 18, the student's residency status is determined by that of the parents. After age 18, the student's personal residency must be verified.

State aid recipients must maintain at least half-time enrollment to be eligible to receive Cal Grant. For financial aid purposes, half-time enrollment is defined as six (6) units. Award amounts will be prorated for students enrolled less than full time in any semester or term.

State aid recipients must not be in default on a student loan and not owe a refund on any state or federal educational grant.

State aid recipients must make satisfactory academic progress as explained under the Satisfactory Academic Progress section of this catalog.

California Baptist University does not have a mandatory fifth year program.

If a student becomes a Cal Grant recipient, other awarded institutional aid may be reduced to prevent Cal Grant and institutional aid from exceeding demonstrated financial need.

Students concurrently enrolled at other institutions will only be eligible to receive financial aid for registered units at California Baptist University.

AB540 eligible students must complete the Worksheet for California Dream Act by the March 2nd deadline.

Additional documentation may be required. Please visit [www.csac.ca.gov](http://www.csac.ca.gov) for complete details.

## **Cal Grant A**

### **Description**

- The Cal Grant A is a state-funded, need and merit-based grant that provides tuition and fee assistance to eligible students.

### **Eligibility**

- Eligibility is determined by a student's financial need as determined by the results of the FAFSA and cumulative GPA. Please consult the Financial Aid Office for further information regarding eligibility and funding levels.

### **Award**

- Based on eligibility, Cal Grant A funds are awarded for tuition and fees only.
- Amounts are determined annually by the state legislature and administered by the California Student Aid Commission.



- Students interested in pursuing a Teaching Credential may be eligible for a 5th year Teaching Credential extension. Please see the Financial Aid Office for further information.

## **Cal Grant B**

### **Description**

- The Cal Grant B is a state-funded, need-based grant that provides tuition and fee assistance and an access allowance to students from low-income families.

### **Eligibility**

- Eligibility is determined by a student's financial need as determined by the results of the FAFSA and cumulative GPA. Please consult the Financial Aid Office for further information regarding eligibility and funding levels.

### **Award**

- Cal Grant B first-year, full-time recipients receive an access allowance only. The access allowance may vary according to state funding levels. In subsequent years, a Cal Grant B recipient enrolled full-time receives tuition and fee assistance in addition to the access allowance. The tuition and fee assistance award may vary according to state funding levels.
- Cal Grant B first-year recipients who are receiving the access portion only may be eligible to receive the California Baptist University Cal B Assistance grant. The California Baptist University Cal B Assistance is awarded only during the first year of a Cal Grant B award and should not exceed \$7,412.
- Amounts are determined annually by the state legislature and administered by the California Student Aid Commission.
- Students have the option to apply the access portion of their Cal Grant B to their outstanding balance on their student account, or the student can request a personal receipt of the funds prior to the funds disbursing to use for educational purposes such as books and supplies. Students may contact the Financial Aid Office for more information regarding the access portion of their Cal Grant B.

## **Private Financial Aid Programs**

Complete information regarding scholarships that are available to current California Baptist University students may be obtained at [https://insidecbu.calbaptist.edu/ICS/Financial\\_Aid](https://insidecbu.calbaptist.edu/ICS/Financial_Aid).

# Student Accounts

**Ms. Heidi Pendleton**

*Director of Student Accounts*

Phone 951.343.4371

FAX 951.343.4515

StudentAccounts@calbaptist.edu

The University reserves the right, with or without notice, to change fees and charges when necessary.

## Student Charges in U.S. Dollars

### Tuition

#### Traditional Undergraduate Student Tuition

##### Fall and Spring Semesters

Tuition Per Semester (13 - 18 units)	\$18,785
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Tuition Per Unit (below 13 units or above 18 units)	1,445
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##### Summer Semester

Tuition Per Unit (traditional students only)	613
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Audit Tuition (per unit)	172
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#### Traditional RN to BSN Student Tuition

RN to BSN Student Tuition (per unit)	\$340
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#### Online Program Undergraduate Student Tuition

Online Program Student Tuition (per unit)	\$613
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Pre-College Credit Student Tuition (per unit)	166
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Prior Learning Portfolio Units (per unit)	196
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Audit Tuition (per unit)	172
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Continuing Education Tuition (per unit)	Market Rate
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Professional Development Tuition (per unit)	Market Rate
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#### Intensive English Program (IEP) Student Tuition

IEP Tuition Per Semester (12 units)	\$5,250
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IEP Tuition Per Unit	437.50
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Traditional and Online Program Courses	Applicable tuition rate
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Internship, CBU Study Abroad, and Credit by Exam Units are all charged at the applicable per unit tuition rate based on the student's program.

Graduate students should refer to the Graduate University Catalog for financial information

## Non-refundable Fees

(Applies to all programs; unless otherwise specified)

### Required Student Fees

#### General Fee - Traditional Program (fall/spring)

Traditional Students (with 6 or more units)	\$775
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Traditional Students (with 5 or less units)	255
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#### General Fee - Online Program Studies (per semester)

Online Program Studies (with 6 or more units)	365
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Online Program Studies (with 5 or less units)	180
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#### General Fee - Intensive English Program (fall/spring)

IEP Students (with 6 or more units)	775
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IEP Students (with 5 or less units)	255
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#### Student Services Fee - Traditional and Intensive English Program (fall/spring)

On-campus Students (with 6 units or more)	300
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Off-campus Students (with 6 units or more)	280
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International Students (in addition to student services fee; fall/spring)	300
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#### Student Health Insurance (fall/spring)

Traditional Student Health Insurance (Optional, 7 or more units)	994
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International Student Health Insurance (Required, Traditional Undergraduate)	994
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Nursing Student Health Insurance (Optional, 1 or more units)	994
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#### New Student Fee (New Traditional and Intensive English Program)

Fall	310
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### Traditional Single Student Housing (per semester)

Housing Reservation Fee

Fall or Spring Semester

Tier 1 - Magnolia Crossing

Shared Occupancy

Private Occupancy

Tier 2 - College Park, Lancer Arms, The Colony, The Cottages, The Point, The Village, Tower Hall, University Houses, University Plaza

Shared Occupancy

Private Occupancy

Tier 3 - Simmons Hall, Smith Hall

Shared Occupancy

Private Occupancy

### Board (Semester Meal Plans)

The following plans are available only to commuters:

Plan A (35 meals; 150 dining dollars)	\$650
Plan B (50 meals; 250 dining dollars)	1,000
Plan C (75 meals; 250 dining dollars)	1,335

On Campus Residents must select one of the following:

Plan D (90 meals; 350 dining dollars; main campus apartment housing minimum)	1,670
Plan E (115 meals; 350 dining dollars; freshman housing minimum)	2,000
Plan F (140 meals; 350 dining dollars)	2,310
Plan G (160 meals; 400 dining dollars)	2,595
Plan H (180 meals; 450 dining dollars)	2,880
Plan I (205 meals; 450 dining dollars)	3,130
Plan J (225 meals; 500 dining dollars)	3,410
Plan K (245 meals; 550 dining dollars)	3,660

Plan L (270 meals; 550 dining dollars)	3,940
Plan O (60 meals; 650 dining dollars; only available to College Park, Magnolia Crossing, Spanish Oaks, University Houses)	1,525
Plan P (75 meals; 750 dining dollars; only available to College Park, Magnolia Crossing, Spanish Oaks, University Houses)	1,855
Plan Q (90 meals; 850 dining dollars; only available to College Park, Magnolia Crossing, Spanish Oaks, University Houses)	2,175

## Academic Fees

Art Lab Fee (ART 225, 300, 314, 325, 354)	\$115
Aviation Online Certification Fee (FLT 160, 260, 360, 460, 470)	100
Aviation Lab Fees (per course) (See Aviation Flight, BS for more information)	
AMG 330	500
AMG 332	600
AMG 424	600
AMG 426	125
AMG 452	500
DSP 330	175
DSP 497	600
FLT 116	175
FLT 117	7,737
FLT 118	11,870
FLT 119	175
FLT 214	3,600
FLT 216	9,288
FLT 311	175
FLT 312	19,571
FLT 313	13,951
FLT 314	9,489
FLT 315	525

FLT 317	13,590
FLT 318	8,455
FLT 319	6,576
FLT 419	8,060
FLT 440	1,200
FLT495	140
UAS 215	500
UAS 315	1,400
UAS 325	3,500
UAS 326	8,500
UAS 415	2,550
Business Oxford Trip Fee (BUS 398)	4,500
Business Undergraduate Internship Prep Series (BUS 291, 292, 391, 392)	2,500
Business Technology Fee (BUS 475, CIS 270, FIN 405, FIN 415)	60
Capstone Reading Fee (CBS 499, ENG 499, HSC 499, IDS 499, PHI499, SPA499)	250
Ceramics Lab Fee (ART 232)	100
Clinical Practicum Fee - Allied Health (HSC 495, KIN 433)	50
Clinical Practicum Fee - Allied Health (CDS 495)	100
Community Science Course Fee (WLD 122)	300
Design Thought Fee (DES 310)	50
Directed / Independent Study (per unit, in addition to tuition)	275
Exemption by Certification (per Certification)	100
Exemption by Exam Fee (per Exam)	250
Faithful Creatives Course Fee (DES 350)	160
Film Fee (FLM 320)	1,500
Firearms Course Fee (CJS 120)	100
Global Practicum (ARC 464G, ARC 564G, BEH 334G, EDU 415G, EDU 511G, EDU 534G, ENV 495G, HED 520G, MUS 068G, MUS 490G, MUS 559G, NUR 421G, NUR 539G, NUR 561G, PHO 498G, SPP 560G, SWK 515G, SWK 576G, SWK578G)	4,500
Global Practicum (NUR 430G)	3,200

Graphic Design Course Fee (GDM 215, 225, 235 TRAD only)	150
Illustration Course Fee (ILL 210, 250, 310, 350, 410; TRAD only)	75
Interior Design Studio (IND 310, 312, 410, 412; TRAD only)	500
Kinesiology Lab Fee (KIN 212)	110
Marine Science Lab Fee (SCI 120, 412)	420
Marketing Certificate Fee (MKT 333)	600
Music Instruction Fee (MUS 334, 335, 346, 376, 418, 419, 535, 572)	335
Music Private Instruction (per lesson)	
1 lesson per week (1/2 hour)	340
2 lessons per week (1 hour)	680
Nursing Equipment Fee (NUR 201, 501)	120
Photography Course Fee (PHO 105, 110, 120, 250, 310, 330, 332, 350, 400, 415, 432, 433, 450, 485, 499)	200
Prior Learning Portfolio Reading Fee (per discipline)	120
Production and Cinematography Course Fee (FLP 170, 306, 360)	150
Program Fees (per fall/spring semester unless otherwise specified)	
Architecture	\$1,350
Commercial Music	325
Computer Science Engineering	1,150
Construction Management	1,150
Engineering	1,150
Journalism and New Media	130
Music	150
Nursing	2,075
Nutrition and Food Science	
For Majors (per semester)	\$420
For Minors (per semester)	235
Physical Therapis Assistant (PTH 100, 150)	250
Radiological Sciences Clinical Fee (RAD 350, 355, 450, 455, 460)	75
Science Lab Fee (per lab)	210

**Subject Matter Competency Fees:**

	CBU Student	\$110
	Non-CBU Student	220
Testing Fee (BEH 440, BEH 480)		35
Theatre Lab Fee (THE 113)		80
Theatre Lab Fee (THE 313)		90
Uniform Fees (annual)		
	Camerata (MUS 068, 490B, 559)	\$325
	Lancer Chorus (MUS 092, 490D, 562)	325
	Magnolia Singers (MUS 091, 490C, 561)	325
	Rhapsody Chorale (MUS 094, 490E, 564)	325
	Symphonic Band (MUS 067, 490A)	325
	University Choir and Orchestra (MUS 090, 48, 560)	600
	Wind Ensemble Uniform Fee (MUS 097, 490F, 567)	325

**Student Accounts**

Credit Card Convenience Fee (assessed on credit and debit card payments by CBU's payment processor)	2.9%
Semester Payment Plan Enrollment Fee	\$35
Study Abroad Processing Fee (Non-CBU programs)	280
Late Payment Fee	200
Dishonored Check (per check)	30
Wire Transfer Fee	30

**Student Services**

ISP Fee (International Service Project)	\$3,500
USP Fee (United States Service Project)	2,300
SOS Fee (Summer of Service Project)	4,700
Lost Key	65



## Registrar

Graduation Application Fee	\$175
Duplicate Diploma Fee	50
Transcript Fee (per transcript)	10
Transcript Delivery / Mailing Fees	
Electronic Delivery (per transcript)	No Charge
Standard U.S. Mail (per transcript)	2.50
Standard International Mail (per transcript)	5.25
Express Mailing - Two Day U.S. (per transcript)	30
Express Mailing - International (per transcript)	55

## Admissions

Undergraduate	\$45
Re-admission	25
Testing Fee (ACT, Undergraduate)	35

## Additional Cost of Attendance Components

Cost of Attendance (COA) includes the amount of money the average student is expected to need for both **Direct costs (expenses charged by the school, such as tuition and on-campus housing)** and **Indirect costs (school related expenses a student will pay such as gas or an off-campus apartment)** during the academic school year. These costs are calculated based upon where the student plans to live and the academic program in which they are enrolled.

Additional Cost of Attendance per Semester	Living On Campus	Living Off Campus	Living with Parent
Housing	\$3,815	\$6,881	\$2,690
Food - campus meal plan	\$2,000	n/a	n/a
Food - outside meals	\$1,940	\$3,236	n/a
Books, course materials, supplies, and equipment	\$469	\$469	\$469
Transportation	\$554	\$882	\$806
Miscellaneous personal expenses	\$1,211	\$1,814	\$1,512

Additional Cost of Attendance for Fall 2023 and Spring 2024 Combined	Living On Campus	Living Off Campus	Living with Parent
Housing	\$7,630	\$13,762	\$5,380
Food - campus meal plan	\$4,000	n/a	n/a
Food - outside meals	\$3,880	\$6,472	n/a
Books, course materials, supplies, and equipment	\$938	\$938	\$938
Transportation	\$1,108	\$1,764	\$1,612
Miscellaneous personal expenses	\$2,422	\$3,628	\$3,024

## Policy for Student Accounts

All student account charges are due and payable by the Payment Due Date. To maintain enrollment, students must complete payment and agree to the terms and conditions of the Tuition and Fee Agreement, in addition to meeting all academic and standard of conduct requirements. The University expects students to cover all charges for the current semester before advancing to a future semester.

California Baptist University offers three payment options to assist students in covering tuition and fee charges. Students may choose to make a payment, set-up a monthly payment plan, and/or use financial aid to cover their balance. International, Special Admit, and Professional Development Students are required to pay their balance in full each semester by the Payment Due Date.

Students who remain enrolled past the last day to drop with refund must cover all charges incurred in accordance with the Policy for Refund of Tuition, Fees, Room, and Board Charges. If a balance exists, a hold will be placed on the student account preventing release of diploma, and future registration until the balance is paid in full with verified funds.

## Payment Due Dates

All students should pay their balance by close of business day on the Payment Due Date to avoid a Late Payment Fee.

Semester	Payment Due Date
Fall 2023	Wednesday, August 9, 2023
Spring 2024	Thursday, January 4, 2024
Summer 2024	Monday, May 6, 2024

## University Approved Payment Options

### Option 1 (Student Account Payment)

California Baptist University accepts the following forms of payment:

Online Payments - Online check payments and credit/debit card payments are accepted online through InsideCBU. Visa, MasterCard, American Express, and Discover are accepted with a convenience fee. Online check payments are accepted with no additional cost. Foreign Currency Payments processed by Convera formerly known as Western Union Business Solutions are also accepted online.

Check Payments - Check payments can be made in the Student Accounts Office or mailed to California Baptist University; Attention: Student Accounts; 8432 Magnolia Avenue, Riverside, CA 92504. The student ID number should be listed on the check. All payments must be received in the Student Accounts Office by the Payment Due Date.

## **Option 2 (Monthly Payment Plan)**

The monthly payment plan enables students to pay all or part of their semester charges in four monthly installments without interest. Payments are due on the 5th of the month. A \$35 per semester enrollment fee is required. Re-enrollment by the Payment Due Date is required each semester. Please see the InsideCBU Student Accounts tab for more information.

## **Option 3 (Financial Aid)**

Financial aid includes scholarships, grants, federal loans, and alternative loans. Students are encouraged to register and meet all financial aid requirements at their earliest opportunity. Financial Aid must be awarded and accepted by close of business day on the Payment Due Date. Please see the financial aid section of this catalog for more information.

## **Tuition and Fee Agreement**

All students are required to submit a Tuition and Fee Agreement electronically through InsideCBU. The agreement outlines the student's financial responsibility for covering all student account charges. Students are encouraged to read the agreement and contact the Student Accounts Office with any questions prior to submission.

## **Delinquent Accounts**

All student account charges are due and payable by the payment due date. Failure to make payments of any indebtedness to the University when due, including, but not limited to, tuition, housing or rental charges, student loans, laptop fees, special fees, library or parking fines, is considered sufficient cause, until the debt is settled with verified funds, to bar the student from classes, to record no grades on transcript, to withhold diploma, to dismiss the student, and to hold all records as the University deems necessary. At the completion of each semester, accounts with an outstanding balance are considered delinquent. Interest is charged on all delinquent accounts at a rate of .03% computed daily or 10% per year. In the event an account is turned over to a collection service, the cost of the service and reasonable attorneys' fees will be added to the account. Returning students will not be permitted to register for classes if a balance appears on their account.

## **Policy for Refund of Tuition, Fees, Room and Board Charges**

The Student Accounts Office will automatically process tuition refunds for all eligible students. Tuition refunds are calculated from the date of official withdrawal. A withdrawal is considered official when a completed Petition to Withdraw Form has been submitted to the Admissions Office and processed by the Office of the University Registrar, Financial Aid, and Student Accounts.

Ceasing to attend does not constitute an official withdrawal from a course or from the University. However, a Title IV-unofficial withdraw may be processed, as required per federal regulations, which may necessitate the return of federal financial aid.

California Baptist University expects to deliver instruction to its students through its traditional in-person and online formats. By attending the University, students acknowledge this expectation and understand that the University may be compelled to modify course instruction formats due to circumstances or events beyond the University's reasonable control such as acts of God, acts of government, war, disease, social unrest, and accidents. As such, students attending the University assume the risk that circumstances may arise that mandate the closure of the campus or place restrictions upon the University's delivery of instruction. By attending the University, each student understands and agrees that they will not be entitled to a refund or price adjustment for the cost of course instruction if their courses are required to be provided in a modified format which the University deems appropriate under such circumstances.

Refer to the Financial Aid and Academic Information sections in this catalog for additional information regarding withdrawals.

Tuition, room, and board charges may be refunded or credited per the following schedules:

## **Traditional Undergraduate Program**

### **Tuition**

#### **Withdrawal from a Course**

Within add/drop period	A student may drop from a course and receive a full credit of tuition. No mark will appear on the transcript and no charge is incurred.
Within withdrawal period	A student may withdraw from a course. However, there will be no credit of tuition, and a "W" will appear on the transcript.

#### **Withdrawal from the University (Traditional full-semester courses)**

A student withdrawing from the University during the semester may receive a credit on tuition (room and board not included) according to the following schedule:

Within the first two weeks after semester begins	100%
Within the third week after semester begins	75%
Within the fourth week after semester begins	50%
Within the fifth through eighth week after semester begins	25%
After the eighth week of the semester	No refund

Completion of even one course in a session will make a student ineligible for withdrawal from the University for that semester.

Refer to the University Calendar and course schedule for add/drop and withdrawal dates. Course schedules may be obtained at [www.calbaptist.edu/schedules](http://www.calbaptist.edu/schedules).

## **Online Programs of Study**

### **Tuition**

## Withdrawal from a Course

Within add/drop period	A student may drop from a course and receive a full credit of tuition. No mark will appear on the transcript and no charge is incurred.
Within withdrawal period	A student may withdraw from a course. However, there will be no credit of tuition, and a "W" will appear on the transcript.

## Withdrawal from the University (Online 8-week courses)

A student withdrawing from the University during the semester may receive a credit on tuition (room and board not included) according to the following schedule:

Within add/drop period	100%
After add/drop period	No refund

Completion of even one course in a semester will make a student ineligible for withdrawal from the University for that semester.

Refer to the University Calendar and course schedule for add/drop and withdrawal dates. Course schedules may be obtained at [www.calbaptist.edu/schedules](http://www.calbaptist.edu/schedules).

## Room and Board

These charges may be refunded or credited on a prorated basis upon approval of a written appeal. Appeals must indicate extenuating circumstances and be submitted to the Residence Life Office and/or University Card Services Office.

## Other Policies

### Repayment of Financial Aid

See "Withdrawal from the University" under Financial Aid for a complete discussion.

## **Academic Information**

- Graduation Requirements
- Academic Policies
- Registration Change, Withdrawal, and Attendance Policies
- Office of the University Registrar

## **Graduation Requirements**

### **Graduation Under a Particular Catalog**

Students must adhere to graduation requirements listed in the catalog in effect at the time of enrollment into the University. From an academic perspective, a student may choose to use any catalog subsequent to the catalog in effect at the time of enrollment into the University, provided the catalog chosen is not expired. The graduation requirements under student's chosen catalog remain in effect for the student until degree completion or catalog expiration of six years, whichever comes first. All students re-admitted to programs at California Baptist University after officially or unofficially withdrawing, or any lapse of enrollment of more than one semester, may be placed under the catalog current at the time of re-admission and subject to the degree requirements outlined in that catalog. The University is not responsible for providing courses or programs which have been discontinued.

At the University's discretion, policies, tuition and fees, and other information may change annually and will apply to all students. Updates regarding current policies, tuition and fees, and other information are available from the Office of Academic Advising, Office of the University Registrar, Student Accounts, Student Services, and other University offices.

### **Graduation Check List (Bachelors)**

Students should review their InsideCBU degree guide on a regular basis to evaluate progress toward graduation. To be considered for graduation, students must:

- Complete all academic requirements for the major, minor, and/or concentration, consistent with the catalog under which student enrolled at the University or subsequently selected
- Complete at least 124 semester units of credit, at least 39 of which must be upper division (300 level and 400 level courses)
- Complete at least 36 units at California Baptist University, at least 30 of which must be upper division (300 level and 400 level courses)
- Earn a cumulative grade point average of at least 2.0 overall with no grade below C- in the major field of study
- Complete all general education requirements
- Complete and submit a graduation application for planned graduation date
- Satisfy all financial obligations to the University
- Be in good academic standing (not suspended or academically disqualified) at the time of completion

## **Approval for Graduation**

Students should submit an application for graduation upon successful completion of ninety (90) or more earned units. Once the application is submitted, the University Registrar will complete a degree evaluation and audit, verifying the student's eligibility to graduate, which qualifies the student to participate in commencement ceremonies. To avoid a Late Graduation Application fee, Graduation Applications must be submitted by the application deadline. Students submitting applications after the degree posting date will be required to apply for the next eligible degree date. Student's inability to complete degree requirements by the designated degree posting date may require re-application and an additional fee.

Space within each commencement exercise is limited. Students submitting a Late Graduation Application may participate in the immediate commencement on a space availability basis. However, although student's degree will post upon completion of degree requirements, the student may be deferred to the subsequent commencement ceremony.

## **Graduation Honors**

Honors are awarded to baccalaureate degree students according to the following cumulative grade point average: Cum Laude, 3.50; Magna Cum Laude, 3.70; Summa Cum Laude, 3.90. Post-baccalaureate students (Second Major/Second Degree) are not eligible for graduation honors.

Honors are awarded to associate degree students according to the following cumulative grade point average: Honors, 3.50; High Honors, 3.70; Highest Honors, 3.9. To be eligible for graduation honors, associate degree students must have completed at least 30 units of coursework at California Baptist University of which 18 units or more must be letter grades.

Honors announced at the commencement ceremony represent the cumulative grade point average at the completion of the semester prior to the semester of the degree posting. Degrees and honors awarded in the ceremony are conditional upon completion of all course requirements in accordance with university policies.

## **Degree Posting Dates**

The University posts degrees three times each year, regardless of the specific date all work is completed. All degree requirements must be met prior to the posting date. The three approximate posting dates are at the end of the regular fall semester (last day in December), the end of the regular spring semester (first Friday in May), and the end of the regular summer semester (last day in August). Degrees completed between posting dates will be posted at the next scheduled date.

Once the degree is posted, no changes will be made to the transcript.

## **English Writing Proficiency**

All students must demonstrate proficiency in writing standard English. They may do so by earning at least a C- (or demonstrating comparable writing competence) in both ENG 113 - Composition and ENG 123 - Intermediate Composition (or ENG 113E and 123E). Students are placed in composition courses based on high school English grades, SAT/ACT/CLT scores and/or transfer coursework. Students wishing to challenge their placement may take an English placement exam one time prior to the last day to add a course in their first semester of enrollment at CBU. Students are required to enroll in the composition requirements until successfully completed. No student is eligible to graduate unless the Office of the University Registrar's official records show the English proficiency requirements have been met.

## **Requirement for Units Completed at California Baptist University**

Students seeking a bachelor's degree are required to complete 36 units at California Baptist University, of which at least 30 units must be taken at the upper division level (300 level and 400 level courses). Students seeking an associate degree are required to complete 30 units at California Baptist University.

### **General Education**

The General Education curriculum consists of 40-55 units of coursework designed to provide the student with a strong and diverse academic preparation. In keeping with the ideal of a liberal arts education, the general education curriculum provides students with a broad exposure to the world of ideas and the arts to secure a foundation for students to successfully move into their major of study. In addition, a decidedly Christian perspective is integrated into the requirements and afford the student an opportunity to develop a Christian worldview.

### **Upper Division**

Students must complete a minimum of 39 units of upper division coursework for graduation of which at least 30 units must be completed at California Baptist University. Upper division requirements can only be fulfilled with courses at the 300 and 400 (Junior and Senior) level. Lower division units cannot be used to fulfill upper division requirements. Upper division requirements for which a student receives an academic variance must be replaced by upper division electives. Students seeking substitutions and exemptions must submit an Academic Variance Form for approval.

### **Majors and Minors**

When completing a major and minor, twenty-four (24) units must be unique to the major, of which at least eighteen (18) must be upper division. Nine (9) upper division units must be unique to the minor. Coursework for credit toward a major, minor, or concentration must be passed with a minimum grade of C- and an overall average in the major or minor of 2.0 or higher. Certain disciplines may also require a minimum grade of C (2.0) in the lower-division prerequisites. Science courses with virtual labs may not meet major requirements.

### **Double Major**

Students who wish to concurrently complete two majors may do so by meeting the following conditions:

- Students complete all of the required courses listed in the catalog for both majors;
- Not more than four (4) upper division courses may be common to both majors; and
- Twenty-four (24) units must be unique to each major, of which at least eighteen (18) units must be upper division.

### **Second Major**

Students who previously earned a baccalaureate degree at another institution and wish to complete an additional major at California Baptist University must complete all requirements for the major as listed in the catalog current at the time of enrollment into the University. The student must complete the regular graduation application process. Students completing a second major will receive a certificate of completion. No certificate is granted for an additional minor.



## **Additional Major or Minor**

Students who previously earned a baccalaureate degree at California Baptist University may complete an additional major or minor by completing all requirements for the major or minor, as listed in the catalog current at the time of readmission to the University. For an additional major, a minimum of twenty-four (24) units must be unique to the major and at least eighteen (18) units must be upper division. Nine (9) upper division units must be unique to the minor. The student must complete the graduation re-application process. Students completing an additional major will receive a certificate of completion. No certificate is granted for an additional minor.

## **Second Degree**

Students seeking a second baccalaureate degree must complete a minimum of thirty (30) distinct units in a second area of major studies. Twenty-four (24) of these units must be at the upper division level (300 level and 400 level courses). A minimum of 154 total units are required for graduation with a second degree. All general education (if different from first degree), prerequisites, supporting courses, and departmental requirements for each major and degree, including units completed at California Baptist University, must be completed.

## **Electives**

An elective course is one which a student takes because of personal interest and is used to fulfill overall degree requirements. Electives may be taken from the regular University courses offered in each department. Students should plan carefully and complete prescribed coursework first to avoid a scenario in which more than 124 semester units are necessary in order to graduate.

## **Academic Policies**

### **Transfer Restrictions**

A maximum of 100 semester units may be accepted in transfer toward fulfilling bachelor degree requirements. Within these 100 units, no more than thirty (30) upper division units may be transferred and no more than ninety (90) lower division units may be transferred. A maximum of thirty (30) semester units is allowable from examinations (AP, CLEP, DANTES, IB). A maximum of eighteen (18) units may be accepted in transfer at the lower division level for college transcript completion of a Basic Peace Officer Standards Training (POST) certificate. A maximum of 45 semester units may be accepted in transfer toward fulfilling associate degree requirements.

The University will evaluate previous college work to determine its relationship to the requirements of California Baptist University. Only coursework completed with a grade of C- or better will be accepted in transfer. Lower division units and units from institutions that do not offer a baccalaureate degree will not be accepted for upper division credit. California Baptist University does not accept transfer work that was not designated as baccalaureate degree-applicable by the issuing institution.

All coursework completed at other institutions will be computed into the California Baptist University cumulative grade point average regardless of course transferability.

### **Advanced Placement Credit**

Students who score three (3) or higher on an Advanced Placement (AP) exam will receive three units of lower division credit for the equivalent course. For the most current AP score information contact the Office of the University

Registrar or visit InsideCBU. More information about the AP Program is available on the College Board website at [www.apcentral.collegeboard.com](http://www.apcentral.collegeboard.com).

## **College Level Examination Program (CLEP) and DSST**

Students wishing to receive credit for CLEP or DANTES Single Subject Tests (DSST) must provide to the University an official transcript issued by the College Board or by DSST. It is the student's responsibility to seek clarification of degree requirements before taking an examination. Examinations may not be repeated within six months of the testing date. Additional information about acceptable CLEP and DSST exams and scores is available on InsideCBU.

For the most current CLEP score information, contact the Office of the University Registrar or visit InsideCBU. Check the CLEP website at [www.collegeboard.com/clep](http://www.collegeboard.com/clep) for testing locations.

## **Enrollment at Other Institutions**

In order to ensure that coursework is transferable to California Baptist University, enrolled California Baptist University students who wish to complete coursework at other institutions and apply this work toward degree requirements at California Baptist University should receive prior approval from the Office of the University Registrar. Coursework completed at another institution without securing California Baptist University's prior approval for the course(s) may not be accepted as transferable. Additional information and appropriate forms are available on InsideCBU.

## **Credit Hour**

California Baptist University defines a credit hour as a minimum of 37.5-45 hours of engaged learning time over the duration of a term. This engaged learning time may be in face-to-face meetings, in a prescribed lab or internship/practicum setting, in synchronous or asynchronous online learning activities, hybrid courses, or in independent reading, research, or writing activities.

## **Course Load**

The standard academic load for undergraduate students is 12-18 units. A student may be approved to register for more than eighteen (18) units if the student has 1) a 3.0 cumulative GPA, 2) a minimum 3.0 California Baptist University session GPA in the preceding semester, 3) no outstanding incomplete course work, and 4) is in good academic standing. Permission for overload is granted on a semester-by-semester basis.

## **Classification of Students**

At the beginning of each semester all students are officially classified in the following manner:

Freshman	Any student who has less than 30 semester units
Sophomore	Any regular student who has earned 30-59 semester units
Junior	Any regular student who has earned 60-89 semester units
Senior	Any regular student who has earned 90 or more semester units

Graduate

Any regular student who has completed a bachelor's degree and is studying in a post-baccalaureate credential or certificate program, a master's program, or a doctoral program.

## Scholastic Regulations

An undergraduate student must maintain scholastic standards to remain enrolled at California Baptist University. A student must earn a minimum cumulative grade point average (GPA) of 2.0 to graduate.

### Academic Probation

A student who does not maintain a minimum cumulative GPA of 2.0 or who does not earn a minimum semester GPA of 1.7 will be placed on Academic Probation. A student on Academic Probation will be required to meet with an Academic Advisor to adjust their schedule and develop a course plan. In addition, the student may be required to participate in Academic Course on Excellence (GST 061). A student who earns a minimum cumulative GPA of 2.0 and a minimum semester GPA of 1.7 during the probationary semester will no longer be on Academic Probation. A student on Academic Probation who does not achieve a minimum cumulative GPA of 2.0 in the probationary semester but does earn a 2.3 semester GPA will continue on Academic Probation.

### Academic Suspension

A student who fails to earn a 2.0 cumulative GPA and a 1.7 semester GPA OR a 2.3 semester GPA during the probationary semester will be placed on Academic Suspension. Additionally, a student who fails all academic courses during any given semester will immediately be placed on Academic Suspension. To continue enrollment at California Baptist University, a student on Academic Suspension must appeal to and be approved by the Admissions and Re-entry Committee. If approved to continue, a student will be placed on Academic Probation, may be required to participate in Academic Course on Excellence (GST 061), and will be held to the restrictions and requirements of the Academic Probation status.

### Academic Disqualification

A student who is suspended for a second consecutive semester will be academically disqualified and may not enroll at California Baptist University for at least one semester. To regain academic qualification, a student must demonstrate the educational skills and motivation necessary to be academically successful. Requirements to demonstrate the necessary skills and motivation will be outlined in each student's appeal decision letter and may include completing 9-12 community college units of academic coursework in a single semester, earning a 2.3 semester grade point average or better. A student who has demonstrated academic success may then appeal to the Admissions and Re-entry Committee for readmission to California Baptist University under Academic Probation status. A student may need to readmit to the University prior to enrolling (see Satisfactory Academic Progress in the Financial Aid section and Readmit in the Traditional On-Campus Admissions section).

Following the close of each semester, a letter of notification will be sent to each student who has a change in academic status. All appeals related to the above regulations should be directed to the Chair of the Admissions and Re-entry Committee in compliance with dates detailed in the letter.

## Student Grievances

A student wishing to express concerns or grievances about academic matters involving coursework or interactions with instructors should first contact the instructor involved so that there is opportunity for each to address the specific student concerns. If the student feels unable to approach the instructor directly or does not believe the issue has been fully resolved with the instructor, the student should contact the Department Chair or Dean of the School or College having oversight of that course. If issues remain unresolved at these levels, the student should appeal to the Dean of Academic Persistence and Support.

For disputes involving conduct prohibited under the University's Title IX Policy, students, staff, and faculty are expected to promptly notify the Title IX Coordinator for proceedings consistent with the Title IX Policy.

## **Academic Dishonesty**

Please refer to the California Baptist University Student Handbook, Honor Code.

## **Academic Renewal**

Academic renewal provides an opportunity for re-admitted California Baptist University students to complete their academic careers at CBU without being penalized for grades lower than C- earned at CBU prior to re-entry.

### **Eligibility**

In order to be eligible for academic renewal consideration, a student must meet the following requirements:

- Not enrolled in any CBU credit-bearing courses for at least four (4) years.
- Previous cumulative grade point average at CBU was less than 2.0
- Not a graduate from CBU or any other four-year university.
- Submit a petition for Academic Renewal to the University Office of the Registrar upon re-admission.

### **Conditions and Processing**

- Students may be granted only one academic renewal.
- Academic renewal will only be granted for coursework completed at CBU prior to the extended absence.
- Only substandard grades (less than C-) from courses completed in semesters prior to re-admission will be granted renewal and removed from consideration for GPA and degree requirements. Total units completed will be recalculated based on previously completed courses with a grade of C- or higher.
- All courses granted academic renewal will remain on students' transcripts with notation.
- Students should discuss their desire to pursue academic renewal with their Student Success Coach and submit a petition for academic renewal upon re-entry into the University.

## **Credit/No Credit Courses**

A student may take up to twelve (12) units of coursework on a "credit/no credit" basis in lieu of a letter grade. ENG 113, 113E, 123, and 123E (English Composition) may not be taken on a "credit/no credit" basis, and not more than two (2) courses in general education may be taken on a "credit/no credit" basis.

Only one course may be taken per semester on a "credit/no credit" basis. All courses in the student's major or minor field must be taken for a letter grade.

Students must choose this grading option during the Add/Drop Period. In order to receive credit for work completed on a "credit/no credit" basis, the work must be equivalent to a C- grade or better. The grade of "credit" does not affect the GPA calculations; a grade of "no credit" has the same effect on the GPA calculation as a failing grade.

## **Pass/Fail**

Some courses are graded on a "pass/fail" basis. The grade of "pass" does not affect the GPA calculations; a grade of "fail" has the same effect on the GPA calculation as a failing grade.

## **Incomplete Grade Policy**

Students may only request an Incomplete from the instructor of the course in cases of extreme and unforeseen emergencies. Students are responsible to request the Incomplete prior to the end of the session, term, or semester in which the student is taking the course. If the Incomplete grade is not changed to a passing grade within six weeks of the end of the session, term, or semester, the grade automatically becomes an F and credit for the course may be obtained only by repeating the course. Students who receive an Incomplete will not be eligible for semester honors (Provost's or President's Honor Roll). An Incomplete grade may adversely affect students receiving financial aid.

## **Satisfactory Progress Grade Policy**

Students may only request a grade of Satisfactory Progress (SP) for courses that include a requirement of fieldwork, student teaching, and/or observation hours for completion of the course and that requirement cannot be completed within the semester for which the student was enrolled into the course. Students may only petition faculty members for a SP grade when the student is unable to complete the fieldwork during the semester due to conditions outside of the student's control. If a grade of SP is not raised to a passing grade within twelve (12) months of the issuance of the SP grade, the grade automatically becomes an F and credit for the course may be obtained only by repeating the course. An SP grade may not be used to extend the six-week time frame of an Incomplete Grade.

## **Examinations/Make-up Tests**

In the case of serious illness or unforeseen emergency, the student is responsible to communicate with the instructor of the course in which the test was missed as soon as practicable and arrange for a make-up test with the instructor. Make-up tests are at the discretion of the individual instructor.

## **Repeating Courses for Grade Replacement**

For grade replacement to apply, the course must have been originally taken at California Baptist University and repeated at California Baptist University. Courses that may be repeated multiple times for credit are not eligible for grade replacement. Tuition will be charged for the repeated units. (See Financial Aid for information regarding use of student aid to pay for repeated courses.) Students may not repeat a course once their degree has posted.

Courses may only be repeated one time for grade replacement. The second grade earned will be used in GPA calculations regardless of which grade is higher. If a grade of C- or higher is not earned when the course is repeated, the student may repeat the course again; however, subsequent grades will not replace the grade from the first repetition. Subsequent grades will be used in GPA calculations.

## **Grade Changes**

Students who believe a grade has been recorded in error have the responsibility to initiate a grade change request with the instructor within 30 days of the final grade being recorded. Requests may be made for grade changes based on computation and recording errors. Otherwise, grades are final at the completion of the course. No grade changes will be permitted once the degree has been posted.

## **Student Academic Appeals**

Any appeal for a grade change must be accompanied by appropriate documentation to demonstrate the grade was incorrectly recorded or determined. The grade appeal must include documentation that one or more of the following occurred: (1) The instructor made an error in calculating the final grade; (2) The final grade was based on criteria or standards at variance with the course syllabus; (3) The final grade was based on factors other than student achievement or performance. Failure to address one or more of these three reasons is a basis for rejection of that appeal. Students must recognize that they bear the burden of proof in the grade appeal process and that a grade appeal will not be successful without appropriate documentation.

Students wishing to appeal a grade should follow the below regular order of contacts and timelines.

### **Instructor Appeal**

An initial grade appeal should be made directly to the instructor. The student is encouraged to submit a written statement to the instructor clearly specifying the grounds upon which the student disputes the instructor's academic decision.

- Grade appeals for Fall semester courses must be filed by February 1 of the Spring semester immediately following the completion of the disputed course.
- Grade appeals for Spring or Summer semester courses must be filed by October 1 of the Fall semester immediately following the completion of the disputed course.

### **Department Chair or Dean Appeal**

If the student is dissatisfied with the instructor's response, or the instructor does not respond to a grade appeal within 30 days, the student may then appeal the instructor's academic decision to the appropriate Department Chair or Dean of the School or College having oversight of that respective instructor and course. The appeal should be submitted within 30 days of instructor decision or non-response.

### **Dean of Academic Persistence and Support**

If the student is dissatisfied with the decision rendered by the Department Chair or Dean of the School or College, the student may submit an appeal within 30 days of the previous decision for possible mediation. Appeals should be submitted to the Dean of Academic Persistence and Support. Upon receipt of the appeal, copies of the student's supporting evidence associated with the appeal will be obtained and an attempt will be made to mediate a resolution between the student, the faculty, and the Department Chair or Dean.

### **Student Academic Appeals Committee**

If the appeal is unable to be resolved through mediation within 30 days, the student may request the appeal be submitted to the Student Academic Appeals Committee. The student's request must be in writing and specify the student's rationale for contesting the decision rendered by the Department Chair or Dean, as well as include all supporting evidence. Upon submission of a timely request, the Student Academic Appeals Committee will convene and render a recommendation within 15 days.

The Student Academic Appeals Committee will convene and review all written documentation and evidence. The committee will receive the responses from previous appeals and have the discretion to request additional information prior to the committee meeting from the student, instructor, chair, or dean. The committee will make its recommendation based solely on the documentation submitted. Students are not permitted to attend the meeting or present before the committee.

**Provost and Senior Vice President of Academic Affairs**

Following the Student Academic Appeals Committee meeting, the committee will make a formal recommendation to the Provost and Senior Vice President of Academic Affairs regarding a resolution. Within 15 days of receiving the recommendation, the Provost may (1) accept the recommendation, (2) reject the recommendation and issue an independent decision, or (3) request the committee conduct additional investigation and re-review the initial recommendation.

The Provost/Senior Vice President of Academic Affairs' decision is final and not subject to further appeal.

## Grades and Grade Points:

Grade of A	Indicates the highest quality of work and is reserved for outstanding achievement.
Grade of B	Indicates superior work done in a sustained and intelligent manner.
Grade of C	Indicates average university-level work satisfactorily performed.
Grade of D	Indicates the lowest passing grade.
Grade of F	Indicates a failing grade.
Grade of CF	Indicates a failing chapel grade.
Grade of P	Indicates a passing grade.
Grade of CP	Indicates a passing chapel grade.
Grade of CR	Indicates work attempted under the "Credit/No Credit" grading option and was completed at the C- level or better.
Grade of NC	Indicates work attempted under the "Credit/No Credit" grading option that was completed below the C- level.
Grade of W	Indicates a withdrawal from the class.
Grade of I	Indicates incomplete work.
Grade of AU	Indicates the course was audited and not taken for academic credit.
Grade of SP	Indicates satisfactory progress in an ongoing course. (Thesis, Project, Student Teaching).
Grade of IP	Indicates the course is in progress.
Grade of NR	Indicates no grade has been recorded.

Course Grade	Quality Points	Course Grade	Quality Points
A	4.0	D-	0.7
A-	3.7	F	0.0
B+	3.3	CF (Chapel Fail)	0.0
B	3.0	P (Pass)	0.0
B-	2.7	CP (Chapel Pass)	0.0
C+	2.3	CR (Credit)	0.0
C	2.0	NC (No Credit)	0.0
C-	1.7	W (Withdrawal)	0.0
D+	1.3	I (Incomplete)	0.0
D	1.0	SP (Satisfactory Progress)	0.0



## **Semester Honors**

Each semester the University awards the President's Honor Roll and the Provost's Honor Roll to students who achieve academic excellence. In order to qualify for the President's Honor Roll a student must earn a session GPA of 4.0 while taking a minimum of 12 units of graded coursework (not P/F, CR/NC, AU, etc.) and maintaining satisfactory scholastic standing. In order to qualify for the Provost's Honor Roll a student must earn a session GPA of at least 3.6 while taking a minimum of 12 units of graded coursework (not P/F, CR/NC, AU, etc.) and maintaining satisfactory scholastic standing. All courses taken during a given semester must be successfully completed; any failing grade (including chapel fail and NC) or Incomplete will disqualify the student for semester honors. Post-baccalaureate students are not eligible for semester honors. Students will not be eligible for the Provost's or President's Honor Roll if they elect to Petition for an Incomplete. Semester honors will be posted on the transcript.

## **Grade Reports**

Grade reports are available to students through InsideCBU upon the completion of the semester. Students may view grades by accessing their Degree Guide in InsideCBU. The University does not release any grade information to any person other than the requesting student without the written permission of the student.

## **Change of Personal Information**

Students are expected to file a Student Information Change form with the Office of the University Registrar promptly upon a change of any personal information, including but not limited to student's address, telephone number, or name. If a student does not receive University notices because of an incorrect or outdated address, the student will still be held responsible for the information provided. Students can access the Student Information Change Form on InsideCBU.

## **Classification and Numbering of Courses**

The first digit of the course number indicates the level of the course: 100-200 = first and second undergraduate year; 300-400 = third and fourth undergraduate year; 500-600 = master's level; 700 = doctoral level.

## **Course Cancellations and Format Changes**

California Baptist University expects to deliver instruction to its students through its traditional in-person and online formats. By attending the University, students acknowledge this expectation and understand that the University may be compelled to modify course instruction formats due to circumstances or events beyond the University's reasonable control such as acts of God, acts of government, war, social unrest, and accidents. As such, students attending the University assume the risk that circumstances may arise that mandate the closure of the campus or place restrictions upon the University's delivery of instruction. Further, all courses at California Baptist University are subject to cancellation, meeting day and time changes, or format changes for reasons such as low enrollment, curriculum updates, or staffing. Students will be notified of course cancellations and schedule changes via their California Baptist University LancerMail account.

## **Study Abroad**

Students may receive academic credit for overseas study tours offered by California Baptist University or authorized Study Abroad programs. A maximum of 18 units per semester may be earned for Study Abroad. Non-academic tours will not be considered for academic credit. All students wishing to receive Study Abroad credit must attend a Study Abroad Information Session and process their Petition to Study Abroad prior to the trip's departure. Study Abroad petitions are available from the Director of Academic Engagement. Students will be assessed a Study Abroad per unit

tuition rate for tours offered through California Baptist University. Students participating in other authorized study abroad programs will be assessed for the cost of the program.

Requirements to participate in Study Abroad include:

- First-time freshmen must have completed two semesters of course work at California Baptist University
- Transfer students must have completed one semester of course work at California Baptist University
- Students must be in good standing with Financial Aid, Student Accounts, and Student Services
- Students must meet any minimum GPA requirements established by California Baptist University's study abroad partners

## **Directed Study and Independent Study**

Directed Study will be limited to those courses which are listed in the catalog as part of the University's regular curriculum. Independent Study is limited to original coursework not included in the University's regular curriculum. Approval for the arrangement must include the faculty member, Dean/Department Chair, and University Registrar. In addition to regular tuition, a per credit unit Directed or Independent Study fee will be assessed. Students begin the process by coordinating their request for Directed or Independent Study with a Student Success Coach. A Student Success Coach, in collaboration with the appropriate faculty member, completes and submits the form to the Dean/Department Chair and University Registrar for approval.

Following are California Baptist University's Directed and Independent Study guidelines:

- Junior or Senior academic standing
- 3.0 or better grade point average
- Limit of four (4) units of directed study or independent study in any given semester
- A maximum of nine (9) units of directed study or independent study may be applied toward degree requirements

## **Internship**

An internship is a form of experiential learning that integrates knowledge and theory learned in the classroom with practical application and skills development in a professional setting. Internships provide students the opportunity to gain valuable applied experience and make connections in professional fields they are considering for career paths while giving employers the opportunity to guide and evaluate talent.

Students may enroll in an internship for academic credit at the upper division level with approval and signatures from the faculty member, Dean/Department Chair, and University Registrar. Students are responsible for locating their own internship experience prior to enrollment and are encouraged to utilize the Career Services office for assistance in the process. Minimum enrollment requirements include a 2.0 cumulative GPA and sophomore status.

Internships must be completed within the semester in which both the enrollment and the internship experience occur. Retroactive credit may not be granted for internships previously completed. For current Internship enrollment information, please see InsideCBU Internships.

## **Challenging a Course for Credit or Exemption**

A student wishing to challenge a course by examination or certification should consult the Office of the University Registrar for information. Not all courses offered at California Baptist University may be challenged by exam or certification, and determinations will be made by the appropriate academic dean or department chair.

Students wishing only to be exempt from a course requirement, but not wishing to receive university credit, will be billed the exemption by exam or exemption by certification fee, and no credit will be earned. The exemption by exam fee will be assessed whether or not the exam is successfully passed.

Students who wish to receive credit for the challenged course and who successfully pass the exam will be charged the appropriate tuition and a grade of "Credit" will appear on the transcript. If the exam is not passed, the student will only be charged the exemption by exam fee and nothing will appear on the transcript.

Courses previously attempted at California Baptist University or another institution may not be challenged. Challenge exams may be attempted only once per course and should be completed prior to the add/drop dates. Credit and tuition costs for coursework completed by exam will appear in the semester that the exam is passed. Students may not exceed 30 units of degree credit by challenge exams including AP, CLEP, and DSST, IB, and California Baptist University exams.

## **Auditing a Course**

Students do not earn academic credit for audited courses. Audited courses cannot be applied toward degree requirements. Audited courses appear on the student's transcript and are indicated by an AU in lieu of a credit-bearing grade.

Students may only register to audit a course during the first two weeks of the semester, pending available space in the desired course. Regular withdrawal policies apply to audited coursework.

## **Post Baccalaureate Credit**

Post baccalaureate credit for a course taken as an undergraduate student must be requested prior to the posting of the bachelor's degree. The following criteria must be met in order to grant credit:

- Course(s) were not used to complete a bachelor's degree, second major, minor, emphasis, or concentration
- Student was classified as a Senior (90.0+ units) when courses were completed

## **Privacy of Student Records**

In compliance with the Family Educational Rights and Privacy Act of 1974 (FERPA), a student's confidential academic record is available for inspection by the student. See the Office of the University Registrar for further information regarding academic records.

FERPA permits the University to disclose certain information ("Directory Information") without the Student's consent. All other information, including grades, class schedules, tuition charges and fees, grade point average, etc. is confidential and the access is restricted to those persons or agencies defined in FERPA.

Please see Student Handbook for additional information.

## **Registration Change, Withdrawal, and Attendance Policies**

Completion of the registration process constitutes a contract and obligates the student for full payment. The student must complete the appropriate process to add, drop, or withdraw from a course. Students may seek assistance with the registration process, including adding, dropping, and withdrawing from courses, from their Student Success Coach. Students should consult the University Calendar and their Student Success Coach for add, drop, and withdraw dates.

A student may submit an appeal to add, drop, or withdraw from a course after the respective period has closed. Approval of such appeals will be granted only in extreme cases where extenuating circumstances are evident and can be substantiated. Contact a Student Success Coach for information on the add and drop appeal process. Contact the Dean of Academic Persistence and Support to initiate an appeal to withdraw from a course after the Withdraw period.

Attendance requirements for each course are defined by the instructor and are outlined in the syllabus. Participation is of paramount importance, and excessive absence may negatively affect the final grade.

Additional information is available for students at InsideCBU Attendance and Withdraw Policies or through a Student Success Coach.

## **Adding a Course**

During the initial Add period a student may add a course to their class schedule. Students are responsible for additional charges that may be incurred due to added courses.

## **Dropping a Course**

During the initial Drop period a student may drop a course from their class schedule. Ceasing to attend a course does not constitute a drop from the course. Tuition charges are refunded for dropped courses and no grades will appear on the transcript. Dropping a course could result in the reduction of financial aid, including previously awarded aid, which could result in an increase to the student account balance.

## **Dropping All Courses in a Semester or Session**

Students requesting to drop all courses in a semester or session must contact their Student Success Coaches prior to the end of the Drop period (see University Calendars) to begin the withdrawal process. Tuition charges are refunded for dropped courses and no grades will appear on the transcript. Ceasing to attend courses does not constitute a drop of courses (see Ceasing to Attend section).

## **Withdrawal from the University**

Students are considered withdrawn from the university if they drop or withdraw from all courses in the current semester after participating in a course on or after the first day of the semester. Students requesting official withdrawal from the University must contact their Student Success Coach to begin the withdrawal process.

## **Withdraw from a Course**

During the initial Withdraw period a student may withdraw from a course from a scheduled course. Ceasing to attend a course does not constitute a withdrawal from the course. Tuition is charged for withdrawn courses and a grade of W will appear on the transcript. W grades do not impact GPA.

## **Withdraw from All Courses in a Semester or Session**

Students requesting to withdraw from all courses in the current semester or session must contact their Student Success Coach to begin the withdrawal process. Semester or Session withdraw, if initiated prior to the last day of the Semester or Session, will result in grades of W for all courses that have not concluded. Ceasing to attend courses does not constitute an official withdrawal from the University. However, ceasing to attend all courses may result in Return to Title IV financial aid processing, as required per federal regulations.

## **Ceasing to Attend**

A student who stops attending a course for which they are officially registered, without following the drop or withdraw procedures outlined above, will receive a calculated grade in that course consistent with the requirements of the course syllabus.

Ceasing to attend all courses may result in Return to Title IV financial aid processing, as required per federal regulations. Refer to the Financial Aid and Student Accounts sections in this catalog for additional information regarding the effects of ceasing to attend without providing notification to the University according to the official withdrawal process.

## **Leave of Absence**

Students who need to take a leave of absence with plans to return to the University should contact their Student Success Coach. If approved, a student may leave the University for one semester and return at the conclusion of the leave without completing the readmit process. Should a student not return at the conclusion of the leave and subsequently desires to return, they must complete the readmit process to return to the University.

## **Administrative Discretion**

The University reserves the right to disqualify, discontinue, exclude, or involuntarily withdraw any student from the University at the discretion of the Provost, the Senior Vice President for Enrollment and Student Services, Dean of Students, or designee.

California Baptist University is concerned about the well-being of all students. Behavior that demonstrates that the student's well-being may be in jeopardy, interferes with the educational efforts of other students, puts fellow students or the institution at risk, or conflicts with California Baptist University's mission to educate all students may result in an administrative withdrawal from the institution.

## **Office of the University Registrar**

The Office of the University Registrar maintains the student's official academic record and assists students with transcripts, letter requests, degree and enrollment verifications, and other requests related to the student's enrollment. The Office of the University Registrar also maintains articulation agreements, completes official evaluation of previous college work, reviews requests for concurrent enrollment transfer approvals, reviews academic variances, processes all applications for graduation, reviews the academic record for final degree completion, and posts completed degrees.

## **Academic Services**

- Annie Gabriel Library
- Student Success Coaching and Advising
- Office of Student Success
- Disability Services
- University Tutoring Center
- University Writing Center
- Veterans Resource Center

### **Annie Gabriel Library**

The staff, resources, and services of the Annie Gabriel Library enhance the quality of the academic experience available at California Baptist University by meeting the research and information needs of its students and faculty. In addition to the more than 500,000 books (including 370,000 eBooks) in its collection, the library currently provides access to more than 50,000 full-text journal titles through its online databases and subscriptions. Students and faculty can access books, journals, reference resources, streaming videos and music through the library catalog (OneSearch Catalog), which is available along with many other resources and services through the library Web page ([calbaptist.edu/library](http://calbaptist.edu/library)). The Annie Gabriel Library houses computer workstations and provides access to the campus wireless network. It participates in local, regional, and national information networks that increase its resource offerings to the California Baptist University community through its interlibrary loan programs. It houses special collections and archives devoted to Southern Baptist history, Holocaust Studies, Hymnology, and California Baptist University history.

### **Student Success Coaching and Advising**

The Office of Academic Advising assists students with course registration, degree planning, graduation checks, program changes, various academic appeals, and with goal setting as students seek to live their purpose. Student Success Coaches work in cooperation with academic departments and other student support offices to ensure the best possible assistance is provided to students navigating their programs of study and the University. Coaches are available by appointment, walk-in, chat, email, and phone.

### **Office of Student Success**

The Office of Student Success (OSS) hosts a variety of academic support services and resources. OSS includes California Baptist University's University Tutoring Center, University Writing Center, Disability Services Office, and the Veterans Resource Center.

### **Disability Services**

The Disability Services Office is committed to providing support services to achieve equal access to the education experience. Disability Services (DS) approves and coordinates accommodations and services for Students with documented disabilities to help Students acquire skills essential to achieve academic success. Services may include note taking, extended testing time, a quiet testing environment, academic support, and auxiliary aids, i.e., Interpreter, readers/scribes for exams, and textbooks in alternate format.

## **University Tutoring Center**

The University Tutoring Center (UTC) provides additional instruction and academic resources in order to help CBU students succeed in their coursework.

## **University Writing Center**

Writing Center coaches are trained to cultivate purpose-driven writers, communicators, and influencers. They are here to help students develop the necessary process and strategies to become more rhetorical writers, who communicate clearly and persuasively. While they are not editors, the coaches provide useful resources and help students to recognize areas for improvement.

## **Veterans Resource Center**

Strategically located next to the US Army Reserve Officer Training Corps (ROTC) office and Office of Student Accounts, the Veterans Resource Center is co-located with the Office of Student Success to provide ready access to tutoring, testing, and Disability Services. The Veterans Resource Center (VRC) is committed to providing a supportive environment and a committed campus culture to all Student veterans and their dependents. The VRC is devoted to assisting veterans with their transition to post-secondary education. The VRC is dedicated to providing Student veterans/dependents a place to study, relax, fellowship with other veterans, increase peer mentorship, and offer computer access with complimentary printing.

## **Other Resources**

The OSS also facilitates/coordinates review of Academic Appeals and provides administrative support for the Alpha Chi National Honor Society.

# Course Descriptions

## Accounting

### ACC 250 - Principles of Accounting I

**Units:** 3

**When Offered:** Fall, Spring, & Online

An introduction to financial accounting, involving its basic structure, the accounting cycles for service and merchandising enterprises, assets, liabilities, and accounting systems.

**Grade Type:** Letter Grade

### ACC 251 - Principles of Accounting II

**Units:** 3

**When Offered:** Fall, Spring, & Online

This course has an emphasis on managerial accounting involved with corporations, control accounting, and decision making.

**Grade Type:** Letter Grade

**Prerequisite(s):** ACC 250

### ACC 310 - Intermediate Accounting I

**Units:** 3

**When Offered:** Fall & Online

A comprehensive and in-depth coverage of accounting principles. The course is for accounting majors or students wanting a solid understanding of accounting. The accounting cycle steps are reviewed and more complex accounting problems are presented. Topics include cash, short-term investments, accounts receivable, inventories, liabilities, statement of cash flows, revenue recognition, and debt financing.

**Grade Type:** Letter Grade

**Prerequisite(s):** ACC 251

### ACC 311 - Intermediate Accounting II

**Units:** 3

**When Offered:** Spring & Online

This course has an emphasis on property, equipment, intangible assets, corporations, long-term investments in equity securities, long-term liabilities, accounting for pensions, leases, error corrections, analysis of financial statements, income taxes and financial reporting.

**Grade Type:** Letter Grade

**Prerequisite(s):** ACC 310

### ACC 320 - Cost Accounting

**Units:** 3

**When Offered:** Spring & Online

This course covers budgeting, standard costs, analysis of variances, job order and process accounting, profit centers, capital budgeting, and managerial controls.

**Grade Type:** Letter Grade

**Prerequisite(s):** ACC 251



## **ACC 330 - Governmental and Non-Profit Accounting**

**Units: 3**

**When Offered:** Spring & Online

Covers municipal, school, university, hospital, church, and other forms of governmental and non-profit organizational accounting. Types of funds discussed are general, revenue, capital projects, enterprise, debt service, and others.

**Grade Type:** Letter Grade

**Prerequisite(s):** ACC 251

## **ACC 345 - Managerial Accounting**

**Units: 3**

**When Offered:** Online

Introduction to managerial accounting concepts and principles, focusing on the development and application of costing concepts as they apply to manufacturing environments. This includes the collection and reporting of cost data used for planning, controlling and decision-making in a business environment.

**Grade Type:** Letter Grade

## **ACC 410 - Advanced Accounting**

**Units: 3**

**When Offered:** Fall & Online

A study of business combinations and consolidation accounting, including the accounting relationships between parent and subsidiary business entities, the processing of intercompany transactions, and elimination entries. Additional topics may include recording foreign currency exchange transactions, translations of foreign subsidiary financial statements and partnership accounting.

**Grade Type:** Letter Grade

**Prerequisite(s):** ACC 311

## **ACC 420 - Accounting Information Systems**

**Units: 3**

**When Offered:** Fall & Online

A study of accounting and processing controls for automated accounting systems, and developing and implementing an automated accounting system.

**Grade Type:** Letter Grade

**Prerequisite(s):** ACC 251 and CIS 270

## **ACC 430 - Federal Income Tax Accounting**

**Units: 3**

**When Offered:** Fall & Online

Covers the theory of tax accounting with practical applications to individuals, proprietorships, partnerships, corporations, and fiduciary organizations.

**Grade Type:** Letter Grade

**Prerequisite(s):** ACC 250

## **ACC 470 - Auditing**

**Units: 3**

**When Offered:** Spring & Online

A study of the attest function performed by independent public accountants. Topics include management assertions, fundamental principles (formerly generally accepted auditing standards), tests of controls and substantive procedures for the accounting cycles, and report forms and opinions. Various techniques are used to study auditing concepts and practices and may include preparing problem sets, analyzing case studies, and performing simulated audit procedures.

**Grade Type:** Letter Grade

**Prerequisite(s):** ACC 251

## **ACC 480 - Accounting Ethics**

**Units:** 3

**When Offered:** Fall

This course focuses on the ethical and professional responsibilities of CPAs in public and private practice. Ethical reasoning, corporate governance, decision making and ethical frameworks will be examined to provide a base of understanding. The AICPA Code of Professional Conduct and other professional standards will be studied as they apply to the practice of accounting.

**Grade Type:** Letter Grade

## **ACC 491 - Internship in Accounting**

**Units:** 1-3

**When Offered:** Fall, Spring, Summer

Under faculty supervision, the student will work in an accounting firm, or in a business, governmental entity or non-profit organization in an accounting area. This is an opportunity for field experience in applying accounting coursework and principles.

**Grade Type:** Letter Grade

**Prerequisite(s):** Permission of the Dean

## **Air Force**

Courses offered through concurrent enrollment at California State University, San Bernardino.

## **AIR 090 - Leadership Laboratory**

**Units:** 0

**When Offered:** As offered

Open only to enrolled Air Force ROTC cadets. Cadets must be concurrently enrolled in aerospace studies courses. Designed to allow students to apply leadership techniques and military skills taught in the classroom and to develop their confidence as future military officers.

*This course offered through concurrent enrollment at California State University, San Bernardino.*

**Grade Type:** Pass/Fail

## **AIR 101 - The Air Force Today I**

**Units:** 0.67

**When Offered:** As offered

Examines the roles and ethical standards expected of an Air Force officer. Presents the opportunities and benefits of being an Air Force officer.

*This course offered through concurrent enrollment at California State University, San Bernardino.*

**Grade Type:** Letter Grade

## **AIR 102 - The Air Force Today II**

**Units: 0.67**

**When Offered:** As offered

The Air Force organization, structure, and mission with emphasis on the basic skills used by military officers.

*This course offered through concurrent enrollment at California State University, San Bernardino.*

**Grade Type:** Letter Grade

## **AIR 103 - The Air Force Today III**

**Units: 0.67**

**When Offered:** As offered

Further analysis of ethical standards expected of an Air Force officer with an emphasis on group dynamics.

*This course offered through concurrent enrollment at California State University, San Bernardino.*

**Grade Type:** Letter Grade

## **AIR 201 - The Development of Air Power I**

**Units: 0.67**

**When Offered:** As offered

Development of air power technology and tactics from 1900 through the Vietnam War and its impact on military thought.

*This course offered through concurrent enrollment at California State University, San Bernardino.*

**Grade Type:** Letter Grade

## **AIR 202 - The Development of Air Power II**

**Units: 0.67**

**When Offered:** As offered

Development of air power technology and tactics from the Vietnam War to present and its impact on military thought.

*This course offered through concurrent enrollment at California State University, San Bernardino.*

**Grade Type:** Letter Grade

## **AIR 203 - The Development of Air Power III**

**Units: 0.67**

**When Offered:** As offered

In-depth discussion of values and public expectations as they relate to military officers.

*This course offered through concurrent enrollment at California State University, San Bernardino.*

**Grade Type:** Letter Grade

## **AIR 301 - Air Force Leadership and Management I**

**Units: 2**

**When Offered:** As offered

Principles and functions of management and leadership. Introduction to "Total Quality Management."

*This course offered through concurrent enrollment at California State University, San Bernardino.*

**Grade Type:** Letter Grade

## **AIR 302 - Air Force Leadership and Management II**

**Units: 2**

**When Offered:** As offered

"Quality Air Force" initiatives, procedures, and applications.

*This course offered through concurrent enrollment at California State University, San Bernardino.*

**Grade Type:** Letter Grade

## **AIR 303 - Air Force Leadership and Management III**

**Units: 2**

**When Offered:** As offered

Ethics in modern society and the military, including the "Standards of Conduct" and the principles of modern war.

*This course offered through concurrent enrollment at California State University, San Bernardino.*

**Grade Type:** Letter Grade

## **AIR 401 - National Security Forces in Contemporary American Society I**

**Units: 2**

**When Offered:** As offered

Forces and issues that influences policy decisions and application of military force. The impact of the executive branch and Congress on military operations.

*This course offered through concurrent enrollment at California State University, San Bernardino.*

**Grade Type:** Letter Grade

## **AIR 402 - National Security Forces in Contemporary American Society II**

**Units: 2**

**When Offered:** As offered

Geopolitical influences on U.S. political decision making and the use of military force.

*This course offered through concurrent enrollment at California State University, San Bernardino.*

**Grade Type:** Letter Grade

## **AIR 403 - National Security Forces in Contemporary American Society III**

**Units: 2**

**When Offered:** As offered

Basic knowledge necessary for effective military leadership including consideration of legal issues and the military judicial system.

*This course offered through concurrent enrollment at California State University, San Bernardino.*

**Grade Type:** Letter Grade

## **Allied Health**

### **ALH 301 - Global Health Engagement Seminar**

**Units: 3**

**When Offered:** Spring

This seminar is the first half of the Global Health Engagement sequence. Students will prepare for a summer global engagement practicum through class lectures and a research paper. Cultural awareness and sensitivity as well as an understanding of global health are key components of this class. Students are required to take this course prior to completion of the global health engagement practicum.

**Grade Type:** Letter Grade

**Prerequisite(s):** HSC 100

## **ALH 401 - Global Health Engagement Practicum**

**Units:** 3

**When Offered:** Summer

The purpose of the global health engagement practicum is to provide students with an opportunity to expand the level of understanding of what it takes to be an international health care professional, and to gain new insight about the commitment it takes to follow the path to becoming an international health care provider. Students will have the opportunity to travel abroad, working with partners in healthcare and health related fields.

**Repeatable:** May be repeated once for credit

**Grade Type:** Letter Grade

**Prerequisite(s):** ALH 301

## **ALH 405 - Grant Writing**

**Units:** 3

**When Offered:** As offered

An examination of the skills required to locate funding opportunities and write and submit grant applications and reports for health promotion and education programs. The course is designed to help students to gain experience and practice in finding grant money and applying for grants to undertake community health projects.

**Grade Type:** Letter Grade

## **American Sign Language**

### **ASL 115 - American Sign Language I**

**Units:** 3

**When Offered:** Fall, Spring, & Online

An introductory course designed for students with no previous experience using ASL. Beginning with the alphabet, students will learn the basic components of ASL-fingerspelling, vocabulary, grammar and syntax, expressive and receptive skills, along with Deaf culture and social etiquette.

**Grade Type:** Letter Grade

### **ASL 125 - American Sign Language II**

**Units:** 3

**When Offered:** Fall, Spring, & Online

This course is for students who possess a functional knowledge of fingerspelling, vocabulary formation, placement and directionality. Acquaintance with current and historical aspects of Deaf culture and social etiquette is also assumed. In this course students will refine their expressive and receptive skills, while broadening their understanding of the Deaf-world. Must pass with a C- or better to continue in ASL 215.

**Grade Type:** Letter Grade

**Prerequisite(s):** ASL 115

### **ASL 215 - Intermediate American Sign Language I**

**Units:** 3

**When Offered:** Fall

Students will be introduced to advanced language and vocabulary development with special emphasis placed on sentence construction and expressive skills. The course will provide further development of conversational techniques and use of ASL in normal everyday situations such as the location of items around the home, complaints, making suggestions and requests, and exchanging personal information through life events. This course will also expand the study of Deaf cultural issues. Must pass with a C- or better to continue in ASL 225.

**Grade Type:** Letter Grade

**Prerequisite(s):** ASL 125

## **ASL 225 - Intermediate American Sign Language II**

**Units:** 3

**When Offered:** Spring

This course will introduce students to the art of hand shape storytelling and legends within the Deaf community. This section will include the grammatical use of ASL in sign movements conveyed and modified in the language, how and when to use facial movements; and how body, head and eye movements are used in phrasing and agreement. In this section, students will learn to sign everyday information through description and identification of things and talking about weekend events. Class emphasis will be on expressive and receptive skills.

**Grade Type:** Letter Grade

**Prerequisite(s):** ASL 215

## **ASL 307 - Deaf Ministry**

**Units:** 3

**When Offered:** Fall, Spring

Demographic and congregational studies suggest that only a fraction of the deaf population has been effectively evangelized in their own primary language. Students will learn practical methods of communicating the gospel to the deaf population using a cultural-linguistic model for deaf ministry.

**Grade Type:** Letter Grade

## **ASL 315 - Deaf Studies**

**Units:** 3

**When Offered:** As offered

An interdisciplinary introduction to the concepts, issues and literary genre of the deaf-world. This course emphasizes the Deaf community as a cultural linguistic people group and the centrality of ASL, heritage and traditions, and values in this community. From a literary and theoretical view, the course locates the field of Deaf Studies within the broader field of Disability Studies by analyzing intersections and differences between the two.

**Grade Type:** Letter Grade

## **ASL 325 - American Sign Language Linguistics**

**Units:** 3

**When Offered:** As offered

This course offers a comparative analysis of linguistic properties and tendencies of American Sign Language and English. General topics of study include an overview of the historical evolution of sign languages, leading into contemporary thought on phonology, morphology and syntax of ASL. Students will also explore regional and dialectal linguistic variations that occur within sub-communities such as Black, Hispanic and Asian Deaf communities.

**Grade Type:** Letter Grade

**Prerequisite(s):** ASL 225

## **ASL 415 - American Deaf Culture**

**Units: 3**

**When Offered:** As offered

This course explores the history, traditions and issues of Deaf American culture from its 18th century European origins to contemporary multicultural USA. Utilizing a multilayered approach to learning-lecture, readings, case study, film study, contextual experience and classroom debate-students will analyze the complex web of influences and issues-linguistic, political, economic, educational, religious, medical and social-that form what we commonly refer to as "culture."

**Grade Type:** Letter Grade

## **ASL 425 - Introduction to Interpreting for the Deaf**

**Units: 3**

**When Offered:** As offered

To be an effective interpreter one needs high levels of skill in the languages being interpreted. This course is full of challenging exercises with videotaped source materials that make ASL skills strong and flexible and prepares students to move on to more advanced skills. Helpful theoretical introduction for each topic, study questions and comprehension sections called "Get to Know the Signer," make these materials a thorough, powerful learning tool.

**Grade Type:** Letter Grade

**Prerequisite(s):** ASL 225

## **Anthropology**

### **ANT 200 - Special Topics in Anthropology**

**Units: 3**

**When Offered:** As offered

An in-depth seminar on a selected topic within Anthropology.

**Repeatable:** Course is repeatable for credit with a change in topic

**Grade Type:** Letter Grade

**Prerequisite(s):** ANT 225

### **ANT 225 - Cultural Anthropology**

**Units: 3**

**When Offered:** Fall, Spring

A general survey of Cultural Anthropology from a behavioral, cognitive, and material perspective and viewed as a social science, focuses on cultural factors that affect human behavior, including a brief overview of the four major fields of anthropology. Topics include cultural change, language, family, religious practices, economic subsistence patterns, and political power systems.

**Grade Type:** Letter Grade

### **ANT 315 - Health and Holistic Healing**

**Units: 3**

**When Offered:** Fall, Spring

This course provides students with a greater perspective of the ways in which various cultures engage with and understand health and illness. Students will gain understanding of the political and economic structures embedded within health systems.

**Grade Type:** Letter Grade

## **ANT 320 - Ethnomedicine**

**Units: 3**

**When Offered:** Spring (even years)

A general survey to the field of medical anthropology, with a special focus on ethnomedicine. Topics covered include cross-cultural views of human health, disease and illness, healing, and ideologies of the body. Theoretical and methodological approaches used by medical anthropologist are also taught as they shed light on different ethnomedical systems. Special focus will be on reading ethnographic materials from Western and non-Western setting to explore how health, illness, and healing are culturally shaped and mediated.

**Grade Type:** Letter Grade

**Prerequisite(s):** ANT 225 or permission of the Dean

## **ANT 325 - Physical Anthropology and Archaeology**

**Units: 3**

**When Offered:** Spring

A general survey of Physical Anthropology, including evolutionary theory, the primate fossil record, primatology, human variability, and genetics. The history, methods, and theories of archaeology are also considered - covering all eras of the human past, from prehistoric to modern times.

**Grade Type:** Letter Grade

## **ANT 340 - Theory in Anthropology**

**Units: 3**

**When Offered:** Fall (odd years)

This course addresses anthropological theory in a historical context and explores how the discipline has developed over time. Theories of culture are the main focus, though archeological, physical, and linguistic anthropological theories are discussed. Approaches to understanding human behavior from cognitive, material, and behavioral approaches are central.

**Grade Type:** Letter Grade

**Prerequisite(s):** ANT 225

## **ANT 350 - Language and Culture**

**Units: 3**

**When Offered:** Spring

An examination of the relationship between culture and language including a basic understanding of language, the development of language, linguistic aspects of culture and how the symbiosis of language and culture affect individuals, groups and nations.

**Grade Type:** Letter Grade

## **ANT 360 - Globalization and Culture**

**Units: 3**

**When Offered:** Spring (even years)

This course explores the nature of globalization from multiple perspectives, but especially as evidenced in increasingly dynamic national and ethnic identities, (im)migration, economic disparity, and social systems. Students consider how various cultural elements (including gender ideologies, family systems, religious practices, and economic and political traditions) have been affected as a result of globalization. Using comparative methods alongside anthropological and historical theories, students engage in an interdisciplinary approach to understanding globalization.

**Grade Type:** Letter Grade



## **ANT 399 - Independent Study**

**Units: 3**

**When Offered:** As offered

An opportunity for students who have demonstrated the ability to do independent work to pursue in depth a topic of particular interest.

**Grade Type:** Letter Grade

**Prerequisite(s):** ANT 225

## **ANT 400 - Special Topics in Anthropology**

**Units: 3**

**When Offered:** As offered

An in-depth seminar on a selected topic within Anthropology.

**Repeatable:** Course is repeatable for credit with a change in topic

**Grade Type:** Letter Grade

## **ANT 410 - Economic and Political Anthropology**

**Units: 3**

**When Offered:** Spring (odd years)

This course will examine patterns of subsistence (economics) and social organization and control. Focusing on case studies and theoretical perspectives in anthropology regarding economics and political systems, students will explore the meaning and function of various approaches to subsistence and social organization. Using the comparative perspective (ethnology), students will also critically assess democracy as it is contextualized among various people groups to consider various forms of political engagement and shape their own views of how cultural groups employ these patterns of culture.

**Grade Type:** Letter Grade

## **ANT 430 - Culture and Personality**

**Units: 3**

**When Offered:** Fall

This course focuses on the interaction between personal patterns of behavior and social influences, paying particular attention to media influence and a history of social and psychological perspectives. Students will consider the dynamic between environment and heredity (nature/nurture) as they explore several facets of human behavior.

**Grade Type:** Letter Grade

**Prerequisite(s):** ANT 225

## **ANT 450 - Family and Gender Studies**

**Units: 3**

**When Offered:** Fall (odd years)

This course explores a diversity of family systems, both modern and historic. Focusing on case studies and theoretical perspectives in anthropology, students will explore the tangible roles family and gender play in everyday life throughout the world. Using the comparative perspective (ethnology), students will shape their perspectives about family and gender through the exploration of cultural groups and the extent to which they employ dynamic family and gender roles.

**Grade Type:** Letter Grade

## **ANT 460 - Religion and Culture**

**Units: 3**

**When Offered:** Fall (even years)

This course examines an anthropological approach to religion and magic, and its relationship to symbolism, myths, sacred spaces, and rituals. This course investigates anthropological theories of religion providing a multicultural analysis of numerous forms of religious expression. Additionally, this course will examine the subject of "religion" as it intersects with economics, politics, gender, secularism, and post-colonialism.

**Grade Type:** Letter Grade

## **Applied Theology**

### **APT 192 - Foundations for Ministry**

**Units: 3**

**When Offered:** Fall

This course is an introduction to the expectations of the Bachelor of Applied Theology program. Emphasis is given to spiritual foundations for ministry, including personal and church discipleship. Attention is given to models of discipleship and the student's development of a personal strategy of discipleship.

**Grade Type:** Letter Grade

**Prerequisite(s):** Bachelor of Applied Theology major

### **APT 292 - Theology of Pastoral Ministry**

**Units: 3**

**When Offered:** Spring

This course is an introduction to the practical ministry responsibilities inherent in the role of a pastor. Emphasis is given to the normal functions of the pastor in the observance of the ordinances, wedding, counseling, and conflict management. Emphasis is also given to challenges confronting contemporary pastors in providing pastoral leadership and care for congregations.

**Grade Type:** Letter Grade

### **APT 293 - Supervised Church Ministry Internship I**

**Units: 2**

**When Offered:** Spring

A more intensive application of APT 292 in the Applied Theology program. The student will progressively have the opportunity to focus on the accomplishment of ministry in a specific ministry context, while continuing to integrate various elements of a semester's study.

**Grade Type:** Letter Grade

**Prerequisite(s):** APT 292

### **APT 365 - Doctrine of the Church**

**Units: 3**

**When Offered:** Fall

This course examines key biblical passages related to the church, overviews major historical positions of the church, and assesses related models of pastoral leadership, ministry, and preaching. The emphasis of the course is to help students develop a biblical and practical theology of the church.

**Grade Type:** Letter Grade

### **APT 371 - Christian Theology I**

**Units: 3**

**When Offered:** Fall & Online

An expanded study of the biblical doctrines of God, humanity, and sin.

**Grade Type:** Letter Grade

**Prerequisite(s):** Bachelor of Applied Theology or Christian Studies major

## **APT 372 - Christian Theology II**

**Units: 3**

**When Offered:** Spring & Online

An expanded study of the biblical doctrines of salvation, the person of Christ, the church, and last things.

**Grade Type:** Letter Grade

**Prerequisite(s):** Bachelor of Applied Theology or Christian Studies major

## **APT 392 - Supervised Church Ministry Internship II**

**Units: 2**

**When Offered:** Fall

A more intensive application of APT 293 - Supervised Church Ministry Internship I in the Applied Theology program under the guidance of a University supervisor. The student will progressively have opportunities for ministry involvement, mentoring, and ministry skill development. The emphasis of the course is for the student understanding of the priority and implementation of evangelism and missions in the ministry of the church.

**Grade Type:** Letter Grade

**Prerequisite(s):** APT 293

## **APT 393 - Supervised Church Ministry Internship III**

**Units: 2**

**When Offered:** Spring

A more intensive application of APT 392 - Supervised Church Ministry Internship II in the Applied Theology program under the guidance of a University supervisor. The student will progressively have opportunities for ministry involvement, mentoring, and ministry skill development. The emphasis of the course is upon development of communication skills in preaching and teaching of the Bible.

**Grade Type:** Letter Grade

**Prerequisite(s):** APT 392

## **APT 452 - Advanced Biblical Preaching**

**Units: 3**

**When Offered:** Fall

This course prepares students in communicating the truth of the ancient Scriptures to modern people. It explores the variations of crafting of expository sermons. The course will examine how sermons can be constructed to reflect the genre of the biblical literature: narrative, poetry, psalms, history, prophecy, parable, apocalyptic, and epistles.

**Grade Type:** Letter Grade

**Prerequisite(s):** CST 451

## **APT 482 - Pastoral Leadership**

**Units: 3**

**When Offered:** Spring & Online

Pastoral Leadership is an intensive study of the leadership role of the pastor in relation to the nature of the church,

leadership models, leadership challenges, and practical leadership strategies.

**Grade Type:** Letter Grade

## **APT 492 - Supervised Church Ministry Internship IV**

**Units:** 2

**When Offered:** Fall

A more intensive application of APT 393 - Supervised Church Ministry Internship III in the Applied Theology program under the guidance of a University supervisor. The student will progressively have opportunities for ministry involvement, mentoring, and ministry skill development. The emphasis of the course is the development of leadership skills.

**Grade Type:** Letter Grade

**Prerequisite(s):** APT 393

## **APT 495 - Senior Exegesis Seminar**

**Units:** 3

**When Offered:** Spring

This capstone course for the Applied Theology program is designed to demonstrate student competence in research/writing and in biblical exegesis utilizing interpretive tools, the biblical languages, theological reflection, and practical application to the global and local Church. The student will integrate the various elements of the program into a personal and practical theology/philosophy of Christian ministry.

**Grade Type:** Letter Grade

**Prerequisite(s):** APT 492

# **Architecture**

## **ARC 120 - Design Communication**

**Units:** 4

**When Offered:** Spring

The course will establish a base of design concepts and knowledge with an introduction to references and ideas to foster independent inquiry. The course will introduce graphic communications through a series of two dimensional exercises; developing foundational skills.

**Grade Type:** Letter Grade

**Prerequisite(s):** CAVAD major

## **ARC 122 - Design Fundamentals**

**Units:** 4

**When Offered:** Fall

The course will establish a base of design concepts and knowledge with an introduction to references and ideas to foster independent inquiry. The course will develop foundational appreciation and skills for effective three-dimensional (3D) visual expression through graphic representation.

**Grade Type:** Letter Grade

**Prerequisite(s):** Architecture or Interior Design major

## **ARC 200 - Special Topics in Architecture**

**Units: 1-3****When Offered:** As offered

This course will focus on various studio and lecture courses, which explore and present selected topics in architecture and design.

**Repeatable:** May be repeated for credit with change in topic**Grade Type:** Letter Grade**ARC 210 - Design Studio I****Units: 6****When Offered:** Fall

The studio explores and develops conceptual strategies for basic formal and spatial design, emphasizing the role of ordering principles and of fundamental architectonic elements in the implementation of design intentions. Students also will be introduced to foundational processes for developing design projects through the application of formal analytical vocabulary, diagramming, drawing methods and conventions, and three-dimensional modeling.

**Grade Type:** Letter Grade**Prerequisite(s):** ARC 122 and CAVAD major**ARC 212 - Design Studio II****Units: 6****When Offered:** Spring

The studio focuses on conceptualization and implementation of architectural ideas in response to environment, landscape, site and enclosure, as applied to a specific program and building type. Students will continue to develop the foundational design processes introduced in previous studios, and will be introduced to the role of rigorous precedent analysis in the generation of architectural ideas.

**Grade Type:** Letter Grade**Prerequisite(s):** ARC 210**ARC 220 - Computer Modeling****Units: 3****When Offered:** Fall, Spring

The course will be an advanced course to develop an awareness and understanding of the role of Building Information Modeling in the student's ability to study design ideas and present those ideas in the various design disciplines. Emphasis will be on the relationship of computer graphics with the design process.

**Grade Type:** Letter Grade**Prerequisite(s):** ARC 120 and CAVAD major**ARC 240 - Architectural History I****Units: 3****When Offered:** Fall

The course will cover formal, theoretical, material, pragmatic and conceptual aspects of architecture, cities and art, examined in relation to their cultural contexts, from pre-history to circa 1400.

**Grade Type:** Letter Grade**ARC 242 - Architectural History II****Units: 3****When Offered:** Spring

The course will cover formal, theoretical, material, pragmatic and conceptual aspects of architecture, cities and art, examined in relation to their cultural contexts, from circa 1400 to the present.

**Grade Type:** Letter Grade

## **ARC 280 - Materials and Methods**

**Units:** 4

**When Offered:** Spring

Introduction to materials and methods of the construction of buildings emphasizing the integration of design and technology. Includes comprehensive introduction to the construction of buildings and their systems, materials and methods, and their implications on building sustainability and design decision-making. Common construction methods and details are introduced. Material applications in structural and non-structural building components are explored. CAD and BIM systems are used to develop construction documents for a case study building. Skills developed include analysis of building form and function, understanding design and material selection interrelationships, and communication of ideas through drawing.

**Grade Type:** Letter Grade

**Prerequisite(s):** Architecture major

## **ARC 310 - Design Studio III**

**Units:** 6

**When Offered:** Fall

The studio focuses on conceptualization and implementation of architectural ideas throughout the process of pre-design, programmatic development, site design, and building design. Emphasis will be placed on architectural design as an interpretation and accommodation of various human activities through the exploration of program, perception, scale, proportion, life-safety code and accessibility requirements. Students will continue to develop the design processes introduced in previous studios.

**Grade Type:** Letter Grade

**Prerequisite(s):** ARC 212

## **ARC 312 - Design Studio IV**

**Units:** 6

**When Offered:** Spring

The studio draws upon the three previous courses in the studio sequence, emphasizing the integrative nature of architectural design. Students will develop and demonstrate their abilities to conceptualize and implement building designs that bring together basic design principles, structural and envelope systems, environmental systems, programmatic and building service systems and egress, through the design of housing.

**Grade Type:** Letter Grade

**Prerequisite(s):** ARC 310

## **ARC 350 - Architectural Theory I**

**Units:** 3

**When Offered:** Fall

The purpose of this course is to enable students to understand the formation and context of various architectural ideas. This course on architectural theory provides students with a means to propose and navigate architectural discourse as a part of their development as architects.

**Grade Type:** Letter Grade

**Prerequisite(s):** ARC 242, ART 241, or 242

## **ARC 370 - Professional Preparation**

**Units: 2**

**When Offered:** Spring

Professional Preparation provides an introduction to the profession of architecture through 1) exploration of the structures of practice including how an office functions and expectations of internship experience; 2) exploration of a critical position of the student in relationship to their design work resulting in the craft of portfolio production; 3) development of professional skills and documents required to obtain a job in professional practice setting; and 4) examination of leadership skills as applied within an architectural practice setting.

**Grade Type:** Letter Grade

## **ARC 380 - Thermal Environmental Systems**

**Units: 3**

**When Offered:** Fall

This course deals with the thermal and environmental processes which effect buildings and how the designer responds to or manipulates the thermal environment. It is necessary for the architect to understand those processes, the human response to them and the impact of them. The class will be organized around the why, what and how of these issues and processes.

**Grade Type:** Letter Grade

**Prerequisite(s):** PHY 115

## **ARC 385 - Luminous and Sonic Environmental Systems**

**Units: 3**

**When Offered:** Spring

The course deals with those building elements that pertain to the visual and aural conditioning for the purposes of human use and comfort. The basic principles of light (natural and electrical) and acoustical systems, their integration with other building systems and the impact on the aesthetics of design will be stressed. Plumbing and electrical systems also will be presented. The sustainability of various systems will be explored.

**Grade Type:** Letter Grade

**Prerequisite(s):** CAVAD major

## **ARC 393 - Structural Systems I**

**Units: 4**

**When Offered:** Fall

Introductory course in statics and strengths of materials for architects. The course provides both qualitative understanding and quantitative understanding, but places a specific focus on the conceptual relationships between structure and form. Topics include static systems, tension and compression, bending and shear stress, combined stresses, strain, cross-sectional considerations, and the physical behavior of structural materials and systems. Additionally, this course integrates the above material with design studio processes via course projects and course format.

**Grade Type:** Letter Grade

**Prerequisite(s):** MAT 145 or 245

## **ARC 400 - Special Topics in Architecture**

**Units: 1-3**

**When Offered:** As offered

The course will focus on various studio and lecture courses, which explore and present selected topics in architecture

and design.

**Repeatable:** May be repeated for credit with change in topic

**Grade Type:** Letter Grade

## **ARC 410 - Design Studio V**

**Units:** 6

**When Offered:** Fall

This course is an advanced design studio that assumes a high level of proficiency in design process and representation, as well as in other content areas developed in previous studios. This studio focuses on the conceptualization and implementation of comprehensive architectural design. Students will be expected to draw upon all previous coursework in order to thoroughly develop a project from a detailed program.

**Grade Type:** Letter Grade

**Prerequisite(s):** ARC 312

## **ARC 412 - Design Studio VI**

**Units:** 6

**When Offered:** Spring

The studio is an advanced design studio that promotes the critical, creative and innovative exploration of environmental, human and tectonic factors associated architectural design process and design thinking.

**Grade Type:** Letter Grade

**Prerequisite(s):** ARC 410

**Pre- or Co- Requisite(s):** ARC 480

## **ARC 460 - International Design Seminar**

**Units:** 4

**When Offered:** Spring

The course offers students an opportunity to learn, discuss, and analyze historical and contemporary architecture theory, criticism, and design principles on location. Raises and addresses architectural questions of composition, society, politics, and environment. Students may only earn credit for either ARC 460 or 561.

**Grade Type:** Letter Grade

## **ARC 462 - International History and Theory Seminar**

**Units:** 3

**When Offered:** Spring, Summer

The course covers the detailed history of architecture and urban development in the host city, from its founding to the present. Offered only abroad.

**Grade Type:** Letter Grade

**Pre- or Co- Requisite(s):** ARC 312

## **ARC 464 - International Architecture Seminar**

**Units:** 3

**When Offered:** Spring, Summer

The course offers students an opportunity to experience and discuss the development of non-American built environments. Focused on studying architecture in concert with, and through the lens of an allied field of study, the course examines contemporary phenomena in the built environment and its relationship with its inhabitants.

**Repeatable:** May be repeated for a maximum of six (6) units



**Grade Type:** Letter Grade

**Prerequisite(s):** Permission of the Dean

## **ARC 464G - International Architecture Seminar**

**Units:** 3

**When Offered:** Spring, Summer

The course offers students an opportunity to experience and discuss the development of non-American built environments. Focused on studying architecture in concert with, and through the lens of an allied field of study, the course examines contemporary phenomena in the built environment and its relationship with its inhabitants. Students registered in this section will participate in a global practicum experience during which the skills learned throughout the semester will be applied in an international setting. Offered only abroad.

**Repeatable:** May be repeated for a maximum of six (6) units

**Grade Type:** Letter Grade

**Fee:** Additional trip fee(s)

**Prerequisite(s):** Permission of the Dean

## **ARC 480 - Advanced Sustainable Systems**

**Units:** 3

**When Offered:** Spring

This course will explore the history, goals, methods of design, quantification, and holistic integration of sustainable systems in architecture. Specific topics include design strategies for energy reduction, passive heating and cooling, comparative energy modeling, photovoltaic systems, envelope design, life cycle analysis, and sustainable vernacular architecture. Through readings, lectures, research, and projects, students will develop the theoretical framework and technical skills to implement fundamental sustainable strategies in architectural design and to evaluate their impact.

**Grade Type:** Letter Grade

**Prerequisite(s):** ARC 380

## **ARC 491 - Architecture Internship**

**Units:** 1-3

**When Offered:** As offered

The purpose of this course is to expose students to the profession of architecture in a professional office setting, familiarize students with a professional working environment, prepare students for future employment and allow students to start their AXP process.

**Repeatable:** May be repeated for a maximum of six (6) units

**Grade Type:** Pass/Fail

**Prerequisite(s):** ARC 370

## **ARC 492 - Architecture Integrated Experience**

**Units:** 1-3

**When Offered:** As offered

This course serves as an alternate to an architectural internship. The purpose of this course is to expose students to the profession of architecture by becoming aware of and having the opportunity to practice the skill sets needed to be a successful architect in the workplace. Further this course aims to prepare students for future employment and allow students to start their AXP process.

**Grade Type:** Pass/Fail

**Prerequisite(s):** ARC 370

## **ARC 493 - Structural Systems II**

**Units: 4**

**When Offered:** Fall

Introduction to and application of a systems approach of structural design and analysis of buildings for architects. Topics include considerations of steel, concrete, timber, and long-spans structures. Introduction to structural analysis including introduction to typical structural analysis computer programs. Integration of course material with design studio processes via course projects and course format.

**Grade Type:** Letter Grade

**Prerequisite(s):** ARC 393

## **Aviation**

### **AVN 110 - Introduction to Aviation**

**Units: 3**

**When Offered:** Fall

A survey of the U.S. aviation industry, including the history of aviation, attributes of an aviation professional, career planning, certification, airports, airspace, air traffic control, and navigational aids.

**Grade Type:** Letter Grade

### **AVN 200 - Special Topics in General Aviation**

**Units: 3**

**When Offered:** As offered

Designed to allow a student to engage in directed in-depth study on issues associated with general aviation.

**Repeatable:** May be repeated once for credit

**Grade Type:** Letter Grade

### **AVN 210 - Aviation Meteorology**

**Units: 3**

**When Offered:** Spring

An in-depth study of aviation weather, including temperature, atmospheric pressure, wind and moisture, stability, turbulence, clouds, air masses, fronts, thunderstorms, and icing. A study of weather charts, weather reports, and forecasts.

**Grade Type:** Letter Grade

### **AVN 300 - Aviation Research, Writing and Communication**

**Units: 3**

**When Offered:** Fall

A review of techniques necessary to complete a research project on an aviation topic, including data collection techniques, literature review procedures, data analysis, proper structure of reports, American Psychological Association (APA) formatting, and the manuscript submission process.

**Grade Type:** Letter Grade

### **AVN 310 - Aviation Law and Regulations**

**Units: 3**

**When Offered:** Spring

An in-depth study of various U.S. federal aviation regulations and legislation affecting the aviation industry, including 14 CFR Parts 1, 25, 61, 67, 91, 121, 139, 175, and NTSB Part 830. An examination of the international aviation environment, such as standards and recommended practices promulgated by the International Civil Aviation Organization.

**Grade Type:** Letter Grade

## **AVN 322 - Aviation Safety**

**Units: 3**

**When Offered:** Spring

An introduction to the safety regulations, requirements, and environment in the U.S., including an in-depth examination of Safety Management Systems (SMS).

**Grade Type:** Letter Grade

## **AVN 390 - Leadership in Aviation**

**Units: 3**

**When Offered:** Fall

This course studies the many aspect of leadership in aviation. Various theories of leadership will be studied through study at the tactical, operational, and strategic levels. Multiple examples will be studied along with studying timeless principles of leadership. Past as well as current leaders will be studied to assess their success and failures. The student will be challenged to develop their personal aspects of leadership to prepare them to be leaders in aviation.

**Grade Type:** Letter Grade

**Prerequisite(s):** AVN 110

## **AVN 400 - Special Topics in Commercial Aviation**

**Units: 3**

**When Offered:** As offered

Designed to allow a student to engage in directed in-depth study on issues associated with commercial aviation.

**Repeatable:** May be repeated one (1) time for credit

**Grade Type:** Letter Grade

## **AVN 490 - Aviation Internship I**

**Units: 1-3**

**When Offered:** As offered

This course provides students the opportunity to perform an internship in the profession of aviation.

**Repeatable:** May be repeated for a maximum of three (3) units

**Grade Type:** Letter Grade

**Prerequisite(s):** Permission of the Department Chair

## **AVN 491 - Aviation Internship II**

**Units: 1-3**

**When Offered:** As offered

This course provides students the opportunity to perform an internship in the profession of aviation.

**Repeatable:** May be repeated for a maximum of three (3) units

**Grade Type:** Letter Grade

**Prerequisite(s):** AVN 490 and permission of the Department Chair

## Aviation Dispatch

### DSP 330 - Dispatch I

**Units:** 3

**When Offered:** Fall

An in-depth study analyzing large aircraft weight and balance and performance charts, high-speed aerodynamics, instrument approach plates and high altitude enroute charts. An introduction to 14 CFR 121 and 117 regulations applicable to domestic and flag carriers will be covered. An analysis of aviation weather will be conducted including interpreting charts and weather theory. This course will prepare students for the ADX FAA knowledge test. Students must be age 21 to receive permission to enroll.

**Grade Type:** Letter Grade

**Fee:** Additional lab fee

**Prerequisite(s):** AVN 210, 310, and FLT 119 and permission of the Department Chair

### DSP 430 - Dispatch II

**Units:** 3

**When Offered:** Spring

In-depth study of airline cross-country flight operations. This course will analyze performance limitations including applying MELs and CDLs, runway analysis charts, NOTAMs, PIREPs, RVR reports, operations around hazardous weather, and weight and balance considerations unique to large transport aircraft. Students will be expected to apply weather theory knowledge, aircraft system limitations and airline operation objectives to successful plan flights. Students will be introduced to airline quality FAA approved Air Carrier Operation Specifications and Dispatch Operating Manuals. Students must be age 21 to enroll.

**Grade Type:** Letter Grade

**Prerequisite(s):** DSP 330

### DSP 497 - Dispatch III

**Units:** 3

**When Offered:** Spring

Thoroughly integrating knowledge from Instrument Ground School, Turbine Systems, Aviation Laws and Regulations, Aviation Human Factors, Aviation Meteorology and Dispatch I and II, students will apply practical dispatch knowledge and techniques in accordance with 14 CFR 65 Appendix A. Advanced weather theory, aerodynamics, systems knowledge, and airline economic/operation practices will prepares students for the FAA Dispatch Practical Exam. Students must be age 21 to receive permission to enroll.

**Repeatable:** Yes

**Grade Type:** Letter Grade

**Fee:** Additional lab fee

**Prerequisite(s):** FLT 410

**Pre- or Co- Requisite(s):** DSP 430

## Aviation Flight

Required flight lab fees are for planning purposes. Actual flight training costs may vary.

## **FLT 116 - Private Pilot Ground**

**Units: 5**

**When Offered:** Fall, Spring

An in-depth study of airframes and aircraft systems, aircraft instruments, safety, aerodynamics, stability, physiology, weather, airports, airspace, emergency operations, ground reference maneuvers, charts and publications, and the principles of pilotage, dead-reckoning, as well as radio and electronic methods of navigation as applied to cross-country flight planning to prepare the student for the FAA private pilot knowledge test.

**Grade Type:** Letter Grade

**Fee:** Additional lab fee

## **FLT 117 - Private Flight I**

**Units: 2**

**When Offered:** Fall, Spring, Summer

First of two flight training courses that lead to Airplane Single Engine Land Private Pilot certificate. This course culminates in the airplane solo.

**Grade Type:** Pass/Fail

**Fee:** Additional lab fee

**Prerequisite(s):** Permission of Department Chair

## **FLT 118 - Private Flight II**

**Units: 2**

**When Offered:** Fall, Spring, Summer

Second of two flight training courses that lead to Airplane Single Engine Land Private Pilot certificate.

**Grade Type:** Pass/Fail

**Fee:** Additional lab fee

**Prerequisite(s):** FLT 117

## **FLT 119 - Instrument Pilot Ground**

**Units: 3**

**When Offered:** Fall, Spring

An in-depth study of aircraft instruments, preflight and aircraft systems, navigation, holding, approaches, emergencies, and weather reports and forecasts. Prepares student for the FAA instrument rating knowledge test.

**Grade Type:** Letter Grade

**Fee:** Additional exam fee

**Prerequisite(s):** FLT 116 and 117

## **FLT 140 - Time Building Flight Lab I**

**Units: 1**

**When Offered:** Fall, Spring, Summer

Time Building Flight Lab.

**Repeatable:** May be repeated one (1) time for credit

**Grade Type:** Pass/Fail

**Fee:** Additional lab fee

**Prerequisite(s):** FLT 117 and permission of the Department Chair

## **FLT 160 - Private Pilot**

**Units: 9**

**When Offered:** Online

Students complete the Federal Aviation Administration written, oral, and practical examinations culminating in the Airplane Single Engine Land Private Pilot certificate.

**Grade Type:** Pass/Fail

**Fee:** Additional course fee

## **FLT 214 - Instrument Flight I**

**Units: 2**

**When Offered:** Fall, Spring, Summer

First of two flight training courses that lead to Airplane Single Engine Land Instrument Pilot rating.

**Grade Type:** Pass/Fail

**Fee:** Additional lab fee

**Prerequisite(s):** FLT 118

## **FLT 215 - Commercial I and Instrument I Airplane Pilot Lab**

**Units: 1**

**When Offered:** Fall, Spring, Summer

This lab is designed with two purposes. It will be an introduction to Instrument flight and a time building course for the commercial rating. Students will split their time on solo cross countries to build flight time as well as dual flights with their instructor to learn basic instrument flight maneuvers. Fifty flight hours.

**Grade Type:** Pass/Fail

**Fee:** Additional lab fee

**Prerequisite(s):** FLT 118 and permission of the Department Chair

## **FLT 216 - Instrument Flight II**

**Units: 2**

**When Offered:** Fall, Spring, Summer

Second of two flight training courses that lead to Airplane Single Engine Land Instrument Pilot rating.

**Grade Type:** Pass/Fail

**Fee:** Additional lab fee

**Pre- or Co- Requisite(s):** FLT 214

## **FLT 224 - Modern Avionics and Navigational Aids**

**Units: 3**

**When Offered:** Fall, Spring

An in-depth study of the modern avionics and navigation aids available to pilots, including NEXTGEN, ADS-B, and Garmin 500, 600, and G1000 units, and Aspen Evolution PFD1000.

**Grade Type:** Letter Grade

## **FLT 260 - Instrument Rating**

**Units: 7**

**When Offered:** Online

Students complete the Federal Aviation Administration written, oral, and practical examinations culminating in an Instrument Airplane rating.

**Grade Type:** Pass/Fail  
**Fee:** Additional course fee

### **FLT 301 - Advanced and Commercial Airplane Pilot Ground**

**Units:** 3  
**When Offered:** Spring  
An in-depth study of aerodynamics, instruments, engines, and systems of multi-engine aircraft.  
**Grade Type:** Letter Grade  
**Prerequisite(s):** FLT 311, 312, and permission of Department Chair

### **FLT 311 - Commercial Pilot Ground**

**Units:** 3  
**When Offered:** Spring  
An in-depth study of aerodynamics, instruments, engines and systems, airports, air traffic control, and airspace, FARs, performance and weight and balance, aeromedical factors, aviation weather, navigation and flight operations. Prepares students for the FAA Commercial Pilot knowledge test.  
**Grade Type:** Letter Grade  
**Fee:** Additional exam fee  
**Prerequisite(s):** FLT 119 and 214

### **FLT 312 - Commercial Flight I**

**Units:** 4  
**When Offered:** Fall, Spring, Summer  
First of two flight training courses that lead to Airplane Single Engine Land Commercial Pilot certificate.  
**Grade Type:** Pass/Fail  
**Fee:** Additional lab fee  
**Prerequisite(s):** FLT 216

### **FLT 313 - Commercial Flight II**

**Units:** 3  
**When Offered:** Fall, Spring, Summer  
Second of two flight training courses that lead to Airplane Single Engine Land Commercial Pilot certificate.  
**Grade Type:** Pass/Fail  
**Fee:** Additional lab fee  
**Prerequisite(s):** FLT 312

### **FLT 314 - Commercial Multi Engine Flight**

**Units:** 1  
**When Offered:** Fall, Spring, Summer  
Flight training course that leads to Airplane Multi Engine Land Commercial Pilot certificate.  
**Grade Type:** Pass/Fail  
**Fee:** Additional lab fee  
**Prerequisite(s):** FLT 313 and permission of the Department Chair

### **FLT 315 - Flight Instructor Pilot Ground**

**Units: 3**

**When Offered:** Spring

An in-depth study of the practical application of flight training skills, including the principles of learning and communication, instructional methods, techniques, and media. Students will prepare a training syllabus and conduct ground lessons. Prepares students for the FAA Flight/Ground Instructor knowledge test.

**Grade Type:** Letter Grade

**Fee:** Additional exam fee

**Prerequisite(s):** FLT 311 and permission of Department Chair

## **FLT 318 - Certified Flight Instructor Lab**

**Units: 3**

**When Offered:** Fall, Spring, Summer

Flight instruction leading to the Certified Flight Instructor (CFI).

**Grade Type:** Pass/Fail

**Fee:** Additional lab fee

**Prerequisite(s):** FLT 216 and 315

## **FLT 319 - Certified Flight Instrument Instructor Lab**

**Units: 1**

**When Offered:** Fall, Spring, Summer

Flight instruction leading to the Certified Flight Instrument Instructor (CFII).

**Grade Type:** Pass/Fail

**Fee:** Additional lab fee

**Prerequisite(s):** FLT 318

## **FLT 326 - Human Factors**

**Units: 3**

**When Offered:** Spring

A review of the psychological human factors that affect aviation, including individual and organizational factors, and technology-induced errors. Includes common human errors and detection and recovery skills. The chain of events leading up to an aircraft accident are examined in light of specific aircraft accidents.

**Grade Type:** Letter Grade

## **FLT 328 - Aircraft Systems**

**Units: 3**

**When Offered:** Fall

An in-depth study of aircraft systems, including engine, fuel, electric, hydraulic, pneumatic, flight control, and computer systems and displays.

**Grade Type:** Letter Grade

## **FLT 350 - Airplane Aerodynamics**

**Units: 3**

**When Offered:** Fall

This course studies the physical principles of airplane aerodynamics. Course involves examining the factors affecting aircraft performance, stability and control, and special flight conditions often experienced by commercial pilots of fixed-wing aircraft. Emphasized is stall/spin awareness and recovery, and commercial aircraft design and construction



issues. This course will deal primarily with low speed aerodynamics or incompressible flow; includes a section on high-speed aerodynamics toward the end of the course.

**Grade Type:** Letter Grade

## **FLT 360 - Commercial Pilot Single Engine**

**Units:** 10

**When Offered:** Online

Students complete the Federal Aviation Administration written, oral, and practical examinations culminating in the Airplane Single Engine Land Commercial Pilot certificate.

**Grade Type:** Pass/Fail

**Fee:** Additional course fee

## **FLT 410 - Turbine Systems**

**Units:** 3

**When Offered:** Spring

An in-depth study of turbine systems and turbine aircraft performance.

**Grade Type:** Letter Grade

## **FLT 419 - Multi-Engine Instructor Pilot Lab**

**Units:** 1

**When Offered:** As offered

Flight instruction leading to the Multi-Engine Instructor certificate.

**Grade Type:** Pass/Fail

**Fee:** Additional lab fee

**Prerequisite(s):** FLT 315

## **FLT 420 - Crew Resource Management**

**Units:** 3

**When Offered:** Fall

An in-depth study of the complex multi-crew environment, including methods to enhance efficiency via a focus on interpersonal communication, leadership, and decision making. Designed to minimize accidents associated with human error.

**Grade Type:** Letter Grade

## **FLT 421 - Mission Aviation**

**Units:** 3

**When Offered:** As offered

An in-depth study of missionary aviation including piloting in third world countries, cross cultural communication, missionary support, raising support, etc.

**Grade Type:** Letter Grade

## **FLT 422 - Turbine Transition Lab**

**Units:** 1

**When Offered:** As offered

Flight instruction in turbine-powered aircraft and simulator.

**Grade Type:** Pass/Fail

**Fee:** Additional lab fee

**Prerequisite(s):** FLT 314 and permission of the Department Chair

## **FLT 430 - Airline Prep**

**Units:** 3

**When Offered:** Fall

Introduces the students to the policies, procedures, work practices, operating practices, and expectations for pilots in the airline industry.

**Grade Type:** Letter Grade

## **FLT 440 - Advanced Aircraft Systems**

**Units:** 3

**When Offered:** As offered

The course provides simulator training in propulsion systems for turbo-propeller aircraft and jets along with basic operation and control of interrelated aircraft systems including use of a Flight Management System (FMS). The course also includes high altitude physiology, airspace, weather considerations, and Crew Resource Management (CRM).

**Grade Type:** Letter Grade

**Fee:** Additional course fee

**Pre- or Co- Requisite(s):** FLT 410 and 420

## **FLT 460 - Commercial Pilot Multi Engine**

**Units:** 4

**When Offered:** Online

Students complete the Federal Aviation Administration written, oral, and practical examinations culminating in the Airplane Multi Engine Land Private Pilot certificate.

**Grade Type:** Pass/Fail

**Fee:** Additional course fee

## **FLT 470 - Flight Instructor**

**Units:** 6

**When Offered:** Online

Prepares students for the Federal Aviation Administration written, oral, and practical examinations culminating in the Flight Instructor Pilot certificate.

**Grade Type:** Pass/Fail

**Fee:** Additional course fee

## **FLT 495 - Advanced Aerodynamics**

**Units:** 3

**When Offered:** Spring

This course will survey the theory of airplane performance and flight characteristics. The course will provide in class instruction and practical laboratory work in both a simulator and aircraft to quantitatively document aircraft performance, and stability and control. Flight test data reduction and reporting techniques will conclude the learning objectives as students will report on the results of their tests and evaluations of the aircraft.

**Grade Type:** Letter Grade

**Fee:** Additional course fee

**Prerequisite(s):** EGR 446 or FLT 350, and Senior status

## **Aviation Management**

### **AMG 320 - Fixed Base Operations**

**Units:** 3

**When Offered:** Fall (odd years)

A study of the practical issues associated with managing, operating, and marketing a fixed base operation (FBO).

**Grade Type:** Letter Grade

### **AMG 324 - Aviation Security**

**Units:** 3

**When Offered:** Fall (even years)

An in-depth examination of security regulations, requirements, and environment in the U.S., including the role of the Department of Homeland Security in ensuring aviation security.

**Grade Type:** Letter Grade

### **AMG 330 - Airport Management I**

**Units:** 3

**When Offered:** Fall (odd years)

An in-depth study of 14 CFR P139, Airport certification. Prepares students for the Airport Certified Employee (ACE) Operations exam offered by the American Association of Airport Executives.

**Grade Type:** Letter Grade

**Fee:** Additional lab fee

### **AMG 332 - Airport Management II**

**Units:** 3

**When Offered:** Spring (even years)

An in-depth study of airport finance and administration, planning, construction, environmental, operations, security, maintenance, communications and community relations. Prepares students for the Certified Member (C.M.) exam offered by the American Association of Airport Executives.

**Grade Type:** Letter Grade

**Fee:** Additional lab fee

**Prerequisite(s):** AMG 330

### **AMG 423 - Airport Planning and Design**

**Units:** 3

**When Offered:** Spring (even years)

An in-depth study of planning, including data collection, forecasting, master planning, and environmental issues. Also includes an in-depth study of airside design, including airport capacity, pavement design, runway and taxiway design criteria, FAR Part 77 criteria, and landslide design, including ground access, curbside requirements, and traffic flow.

**Grade Type:** Letter Grade

**Prerequisite(s):** AMG 330

## **AMG 424 - Business Aviation Management**

**Units:** 3

**When Offered:** Fall (even years)

An in-depth study of business aviation, including transportation needs analysis, aircraft acquisition methods, aviation department management, operations, maintenance, and safety.

**Grade Type:** Letter Grade

**Fee:** Additional course fee (TRAD only)

## **AMG 426 - Airline Management**

**Units:** 3

**When Offered:** Spring (odd years)

Introduces the airline industry, including the history and unique aspects of the industry. Provides an in-depth study of the structure of airlines, including route planning, fleet selection, maintenance requirements, passenger services, marketing, and pricing.

**Grade Type:** Letter Grade

**Fee:** Additional course fee

## **AMG 452 - Aviation Finance and Consulting**

**Units:** 3

**When Offered:** Spring (odd years)

Introduces aviation-specific financial management principles, including financial document analysis, financial ratios, forecasting, financing, asset management, as well as an overview of the consulting industry, including an in-depth study of the many aspects of consulting, such as RFPs, RFQs, and the bid process. Uses spreadsheet, presentation, word processing and internet search tools to analyze financial reports, calculate ratios, solve financial problems, and respond to RFPs and RFQs.

**Grade Type:** Letter Grade

**Fee:** Additional course fee

## **AMG 499 - Aviation Management Capstone**

**Units:** 3

**When Offered:** Spring

Provides a senior culminating experience for aviation management majors.

**Grade Type:** Letter Grade

**Prerequisite(s):** Senior status

## **Aviation Unmanned Systems**

### **UAS 115 - Introduction to Unmanned Aerial Systems**

**Units:** 3

**When Offered:** Fall (odd years)

This course will provide students with insight into the Unmanned Aerial Systems (UAS) industry through the introduction of UAS history, systems elements, regulatory system, COA (Certificate of Approval) process, operations, geospatial data, automation and autonomy, safety assessments, detect, sense and avoid, sensors and payloads, human factors, and the future of UAS.

**Grade Type:** Letter Grade

## **UAS 215 - Small Unmanned Aerial Systems Flight Lab**

**Units: 2**

**When Offered:** Spring (even years)

Several stages of flight simulation and actual flight will include EP (external pilot) training, FPV (first person view), and programming the autopilot for autonomous flight.

**Grade Type:** Pass/Fail

**Fee:** Additional lab fee

**Prerequisite(s):** UAS 115

## **UAS 325 - Medium Unmanned Aerial Systems Operations I**

**Units: 3**

**When Offered:** Fall (even years)

The course will be a blend of academics and simulator sorties on a specific unmanned aerial system command and control system for medium size UAS and beyond line of site (BLOS) operations. The academics and simulator sorties will include preflight operations, normal command and control, recovery, and emergencies including lost link, lost communications, loss of power, and loss of battery power to mention a few of the aspects. The class will include simulators that allow the student to practice what they have learned in the academics throughout the course culminating in scenario-based training of several operational missions.

**Grade Type:** Letter Grade

**Fee:** Additional course fee

**Prerequisite(s):** UAS 215

## **UAS 326 - Medium Unmanned Aerial Systems Operations II**

**Units: 3**

**When Offered:** Summer

The course will be a blend of academics, simulator sorties, and flight training/sorties on a specific unmanned aerial system command and control system for medium size UAS and beyond line of site (BLOS) operations. The academics, and simulator/flight sorties will include preflight operations, normal command and control, recovery, and emergencies including lost link, lost communications, loss of power, and loss of battery power to mention a few of the aspects. The class will include simulator and flight training that allow the student to practice what they have learned in the academics throughout the course culminating in scenario-based training of several operational missions.

**Grade Type:** Letter Grade

**Fee:** Additional course fee

**Prerequisite(s):** UAS 325

## **UAS 400 - Special Topics in UAS**

**Units: 1**

**When Offered:** As offered

Current topics in unmanned systems.

**Repeatable:** May be repeated for a maximum of four (4) units with change in topic

**Grade Type:** Letter Grade

## **UAS 415 - Unmanned Aerial Systems Mission Planning**

**Units: 3**

**When Offered:** Fall

Students will learn how to operate any Unmanned Aerial Systems (UAS) platform that uses a Piccolo autopilot system.

This course will prepare the student by going over crew positions, user interface of piccolo command center and viewpoint, normal and emergency operations, and mission planning.

**Grade Type:** Letter Grade

**Fee:** Additional course fee

**Prerequisite(s):** UAS 215

## **UAS 425 - Large Unmanned Aerial Systems Operations**

**Units:** 3

**When Offered:** Spring (odd years)

The course is a blend of academics and simulator sorties on a specific unmanned aerial system command and control system for large size UAS and beyond line of site (BLOS) operations.

**Grade Type:** Letter Grade

## **Behavioral Science**

### **BEH 097 - Research Assistant**

**Units:** 0

**When Offered:** As offered

This course is designed to provide students a deeper understanding of the behavioral and social sciences by participating in the scientific research process under the individualized mentorship of faculty. Students enrolled in this course will gain valuable insight into the entire research process (conceptualization, measurement development, participant recruitment, data collection, entry, analysis, as well as write-up and dissemination, as applicable), preparing them to engage with the professional fields of behavioral and social sciences and to conduct their own independent research.

**Repeatable:** May be repeated for credit

**Grade Type:** Pass/Fail

### **BEH 200 - Special Topics in Behavioral Sciences**

**Units:** 1-3

**When Offered:** As offered

An in-depth seminar on a selected topic within the Behavioral Sciences.

**Repeatable:** May be repeated for credit with change in topic

**Grade Type:** Letter Grade

### **BEH 250 - Reading and Writing in the Behavioral Sciences**

**Units:** 3

**When Offered:** Fall, Spring, Summer, & Online

In this course, students learn to write formal manuscripts using APA style. They also learn to read, understand, and critically evaluate behavioral science research as presented in academic journals and conferences. Learners in this course build foundational skills needed to succeed in their future courses.

**Grade Type:** Letter Grade

### **BEH 290 - Introduction to Research Methods**

**Units:** 3

**When Offered:** Fall, Spring, & Online

This course provides a comprehensive overview of both quantitative and qualitative research methods used in behavioral science research, along with an understanding of the ethical considerations and other challenges involved in good research design. Additional topics include measurement, sampling, and qualitative and quantitative data analysis.

**Grade Type:** Letter Grade

**Prerequisite(s):** BEH 250

## **BEH 333 - Epistemology and Worldview**

**Units:** 3

**When Offered:** Fall, Spring, & Online

This course examines the basic models of integrating the Christian faith and modern behavioral sciences, including the development of Biblical examples of worldview and epistemology. Emphasis is placed upon the student's development of a personal theory of integration.

**Grade Type:** Letter Grade

## **BEH 334 - Cultural Social Service Engagement Practicum**

**Units:** 3

**When Offered:** As offered

This practicum incorporates instruction to prepare students for a cultural engagement through class lectures and a research paper. Cultural awareness and sensitivity as well as an understanding of a biblical worldview of social problems are key components of instruction. Additionally, the practicum provides an opportunity to travel, working with social service providers in a non-profit organization within a culturally diverse area.

**Grade Type:** Letter Grade

**Fee:** Additional trip fee(s)

**Prerequisite(s):** ANT 225, PSY 213, or SOC 213

## **BEH 334G - Global Social Service Engagement Practicum**

**Units:** 3

**When Offered:** As Offered

This practicum incorporates instruction to prepare students for their summer global engagement through class lectures and a research paper. Cultural awareness and sensitivity as well as an understanding of a biblical worldview of global social problems are key components of instruction. Additionally, the practicum provides an opportunity to travel abroad, working with social service providers in a non-profit organization within the host country. Students registered in this section will participate in a global practicum experience during which the skills learned throughout the semester will be applied in a global setting.

**Grade Type:** Letter Grade

**Fee:** Additional trip fee(s)

**Prerequisite(s):** ANT 225, PSY 213, or SOC 213, and permission of the Dean

## **BEH 350 - Statistics for the Behavioral Sciences**

**Units:** 4

**When Offered:** Online

Introduction to descriptive statistics and probability, probability distributions, estimation, tests of hypotheses, chi-square tests, regression analysis, and correlation with applications in the behavioral sciences. Course emphasizes selection, application, and interpretation of appropriate statistical tests. Includes laboratory applications of statistical software to behavioral science data.

**Grade Type:** Letter Grade

**Prerequisite(s):** BEH 290, and MAT 115 or higher

## **BEH 383 - Statistics and Research Methodology I**

**Units: 4**

**When Offered:** Fall, Spring

This course introduces the various quantitative and qualitative methodologies utilized in behavioral science research. Also included are the collection, treatment, and interpretation of data in research and testing using a statistical analysis application.

**Grade Type:** Letter Grade

**Lecture:** 3 hours **Lab:** 3 hours

**Prerequisite(s):** BEH 290, and either MAT 115 or STA 144

## **BEH 385 - Statistics and Research Methodology II**

**Units: 4**

**When Offered:** Fall, Spring

This course presents some of the more complex quantitative and qualitative methodologies utilized in behavioral science research. It builds on the various concepts of quantitative research, qualitative research, data collection, analysis, and interpretation introduced in previous courses. This course continues the development of student proficiency with basic and intermediate functions of a statistical analysis application.

**Grade Type:** Letter Grade

**Lecture:** 3 hours **Lab:** 3 hours

**Prerequisite(s):** BEH 383

## **BEH 391 - Intermediate Statistics with Computer Applications**

**Units: 4**

**When Offered:** Online

Using a statistics software application, this course will examine applied statistics emphasizing correlational methods such as multiple regression and factor analysis, as well as analysis of variance and covariance for analyzing experimental data. Laboratory activities involve selecting the appropriate statistical tests, interpreting the results, and scientific report writing.

**Grade Type:** Letter Grade

**Prerequisite(s):** BEH 350

## **BEH 399 - Independent Study**

**Units: 1-3**

**When Offered:** As offered

An opportunity for students who have demonstrated the ability to do independent work to pursue in depth a topic of particular interest.

**Grade Type:** Letter Grade

## **BEH 400 - Special Topics in Behavioral Science**

**Units: 1-3**

**When Offered:** As offered

An in-depth seminar on a selected topic within the Behavioral Sciences.

**Repeatable:** May be repeated for credit with change in topic

**Grade Type:** Letter Grade

## **BEH 440 - Field Experience**



**Units: 3**

**When Offered:** Fall, Spring, Summer

A practical application of field experience for students in community or campus responsibilities for the Anthropology, Behavioral Science, Psychology, or Sociology majors in a field placement under professional supervision.

**Grade Type:** Pass/Fail

**Fieldwork:** 120 hours

**Fee:** Additional exam fee (TRAD only)

**Prerequisite(s):** ANT 225, PSY 213, or SOC 213 and permission of the Dean

## **BEH 480 - Capstone**

**Units: 3**

**When Offered:** Fall, Spring

This course provides students the opportunity to integrate and demonstrate learning from their major, evaluate their own strengths and weaknesses, and demonstrate an understanding of the integration of a Christian worldview and their major field of study. Students will evaluate their personal goals, calling and purpose as well as develop skills to move toward successful and fruitful participation in multiple levels of community, including graduate school and careers.

**Grade Type:** Letter Grade

**Fee:** Additional testing fee

**Prerequisite(s):** Senior status

## **Biology**

### **BIO 101 - Orientation to the Discipline**

**Units: 1**

**When Offered:** Fall, Spring

This course is designed to introduce students to the basic skills necessary for academic success in the discipline of Biology and to provide students with an overview of professions in which the major may be applied.

**Grade Type:** Pass/Fail

### **BIO 114 - General Botany with Lab**

**Units: 4**

**When Offered:** Spring

A study of the physiology, morphology, reproduction, and a survey of the plant kingdom, including fungi, algae, liverworts, mosses, ferns, gymnosperms and angiosperms. Emphasis will be placed on the development, reproduction, and the relevance of plants to humans.

**Grade Type:** Letter Grade

**Lecture:** 3 units **Lab:** 1 unit

**Fee:** Additional lab fee

### **BIO 143 - Principles of Biology**

**Units: 3**

**When Offered:** Fall, Spring, Summer, & Online

An introductory course in biological principles intended for non-majors. Emphasis on scientific method, chemistry of life, interpretation of data, morphology and physiology of animals and plants, genetics, and current biological problems. Meets the general education requirement for natural sciences.

**Grade Type:** Letter Grade

## **BIO 143L - Principles of Biology Lab**

**Units: 1**

**When Offered:** Fall, Spring, Summer, & Online

Laboratory exercises in biology emphasizing basic scientific principles used in biology.

**Grade Type:** Letter Grade

**Fee:** Additional lab fee

**Pre- or Co- Requisite(s):** BIO 143

## **BIO 146 - General Biology I with Lab**

**Units: 4**

**When Offered:** Fall, Spring, Summer

Topics covered include cell structure and function, genetics, reproduction, and development of animal systems.

**Grade Type:** Letter Grade

**Lecture:** 3 units **Lab:** 1 unit

**Fee:** Additional lab fee

## **BIO 148 - General Biology II with Lab**

**Units: 4**

**When Offered:** Fall, Spring, Summer

Includes organismal biology of animals and plants, their behavior, ecology, evolution, and adaptations.

**Grade Type:** Letter Grade

**Lecture:** 3 units **Lab:** 1 unit

**Fee:** Additional lab fee

## **BIO 153 - Anatomy and Physiology I**

**Units: 3**

**When Offered:** Fall, Spring, Summer, & Online

This course is designed for professional nursing and general college students. Included are a general survey of human histology and the study of structure and function of organ systems of the human body, including the integumentary, skeletal, muscular, endocrine, and nervous systems. Structure and function of sensory organs are also included in the course. Should be taken with Anatomy and Physiology I Lab .

**Grade Type:** Letter Grade

## **BIO 153L - Anatomy and Physiology I Lab**

**Units: 1**

**When Offered:** Fall, Spring, Summer, & Online

A laboratory experience designed to illustrate and reinforce topics covered in BIO 153 Anatomy and Physiology I. Included is the detailed study of cells, tissues, the structure and function of the skeleton, the muscles, and the nervous and endocrine systems of the human body using laboratory experience and demonstration.

**Grade Type:** Letter Grade

**Fee:** Additional lab fee

**Pre- or Co- Requisite(s):** BIO 153

## **BIO 163 - Anatomy and Physiology II**

**Units: 3****When Offered:** Fall, Spring, Summer

A continuation of BIO 153 - Anatomy and Physiology I. Included is the study of structure and function of the circulatory (blood, heart, blood vessels, and circulation), lymphatic, immune, respiratory, urinary, and reproductive systems. Should be taken with BIO 163L - Anatomy and Physiology II Lab.

**Grade Type:** Letter Grade**Prerequisite(s):** (Recommend: BIO 153)**BIO 163L - Anatomy and Physiology II Lab****Units: 1****When Offered:** Fall, Spring, Summer

A laboratory experience designed to illustrate and reinforce topics covered in Anatomy and Physiology II. Included is the study of circulatory, lymphatic, immune, respiratory, urinary, and reproductive systems using laboratory experience and demonstration.

**Grade Type:** Letter Grade**Fee:** Additional lab fee**Pre- or Co- Requisite(s):** BIO 163**BIO 173 - Medical Terminology****Units: 3****When Offered:** Fall, Spring

The analysis of the Greek and Latin components of medical and biological terms with the objective of developing skills in word recognition and word building.

**Grade Type:** Letter Grade**BIO 200 - Topics in Biology****Units: 1-4****When Offered:** As offered

This class deals with research projects and topics of current or historical interest which are not normally covered in other established courses. Content variable from year to year.

**Grade Type:** Letter Grade**BIO 204 - Microbiology for Engineers****Units: 2****When Offered:** Fall

This course covers the basic science of environmental microbiology using an integrated lecture and laboratory approach. Topics covered include basic microbiological concepts, classification of organisms, chemical composition of life (carbohydrates, nucleic acids, proteins, and lipids), the cell (Prokaryotes, Eukaryotes, cell membrane, organelles), cell biology, types of pathogenic organisms, causes of microbial disease, energy and metabolism, Eubacteria, Fungi, algae, viruses, bacterial growth, microbial environments (earth, air, water, extreme), detection, enumeration, and identification.

**Grade Type:** Letter Grade**Fee:** Additional lab fee**Prerequisite(s):** CHE 115 and 115L**BIO 205 - Human Microbiology**

**Units: 3**

**When Offered:** Fall, Spring, Summer

A study of microorganisms with special emphasis on bacteria and viruses in the human environment. Should be taken with Human Microbiology Lab.

**Grade Type:** Letter Grade

## **BIO 205L - Human Microbiology Lab**

**Units: 1**

**When Offered:** Fall, Spring, Summer

This laboratory experience is meant to demonstrate and reinforce topics covered in Human Microbiology. Students will gain hands-on experience in various microscopy, staining, and culture techniques that will be applied to the identification and classification of various microorganisms.

**Grade Type:** Letter Grade

**Fee:** Additional lab fee

**Pre- or Co- Requisite(s):** BIO 205

## **BIO 302 - Ecology with Lab**

**Units: 4**

**When Offered:** Spring

The study of the interrelations of plants and animals in relation to the environment. Field study and local ecology are emphasized.

**Grade Type:** Letter Grade

**Fee:** Additional lab fee

**Prerequisite(s):** BIO 114, 143, or 146

## **BIO 305 - Microbiology with Lab**

**Units: 4**

**When Offered:** Fall, Spring

A general survey of microorganisms with an emphasis on bacteria. The study includes morphologic characteristics, growth, reproduction, metabolism, genetics and taxonomy of bacteria; a general survey of viruses, fungi, protozoans and algae; and microbiology of food, water, soil and industry. Mechanisms of pathogenesis and control of microorganisms of human relevance will also be introduced.

**Grade Type:** Letter Grade

**Lecture:** 3 units **Lab:** 1 unit

**Fee:** Additional lab fee

**Prerequisite(s):** BIO 146 or 153. (Recommend: High school Chemistry or CHE 102)

## **BIO 313 - Genetics**

**Units: 4**

**When Offered:** Fall, Spring

The principles of genetics including Mendelian, nature of genetic materials, chromosome mechanics, genetic recombination, and gene action. Emphasis will be placed on the transmission of genetic factors.

**Grade Type:** Letter Grade

**Prerequisite(s):** BIO 146

## **BIO 316 - Comparative Anatomy with Lab**

**Units: 4****When Offered:** As offered

A comparative study of the functional anatomy of the vertebrates; laboratory dissection of representative vertebrates (spiny dogfish, mud puppy, cat).

**Grade Type:** Letter Grade**Lecture:** 3 units **Lab:** 1 unit**Fee:** Additional lab fee**Prerequisite(s):** BIO 148**BIO 324 - Developmental Biology with Lab****Units: 4****When Offered:** Fall, Spring

Descriptive and experimental study of the vertebrate embryonic development.

**Grade Type:** Letter Grade**Lecture:** 3 units **Lab:** 1 unit**Fee:** Additional lab fee**Prerequisite(s):** BIO 146**BIO 330 - Cell and Molecular Biology with Lab****Units: 4****When Offered:** Fall, Spring

An examination of the structure, ultrastructure, organization, and functions of cells, with emphasis on bioenergetics, membranes, organelles, genes and gene regulation, genetic control of cell division and differentiation, structure and function of biological macromolecules, particularly nucleic acids and proteins. Mechanisms of DNA replication and repair, transcription and translation will be studied, in addition to bacteriophage and eukaryotic virus biology, mobile genetic elements and genetic engineering.

**Grade Type:** Letter Grade**Lecture:** 3 units **Lab:** 1 unit**Fee:** Additional lab fee**Prerequisite(s):** BIO 146 and 148. (Recommend: CHE 125 and 125L)**BIO 344 - Vertebrate Physiology with Lab****Units: 4****When Offered:** Spring

Principles of physiology and the function of vertebrate organ systems with emphasis on human.

**Grade Type:** Letter Grade**Lecture:** 3 units **Lab:** 1 unit**Fee:** Additional lab fee**Prerequisite(s):** BIO 148, CHE 115, and CHE 115L**BIO 353 - Advanced Human Anatomy and Physiology I with Lab****Units: 4****When Offered:** Fall

This course is designed for students with a primary interest in careers in medicine, dentistry, and other allied healthcare professions, and graduate education in biological sciences and biochemistry. Included is the detailed study of histology and structure and function of the integumentary, skeletal, muscular, nervous and endocrine systems, correlated by laboratory experience and demonstration. Lab will incorporate current selected relevant peer-reviewed scientific literature and problem-based learning to facilitate students' introductory knowledge of common pathologies,

diagnoses, and treatment, along with integration of virtual human cadaver (anatomage) and advanced physiology equipment.

**Grade Type:** Letter Grade

**Lecture:** 3 units **Lab:** 1 unit

**Fee:** Additional lab fee

**Prerequisite(s):** BIO 146, 148, CHE 125 and 125L

## **BIO 363 - Advanced Human Anatomy and Physiology II with Lab**

**Units:** 4

**When Offered:** Spring

This course is a continuation of BIO 353 and includes the detailed study of the cardiovascular system, respiratory system, immune and lymphatic systems, gastrointestinal system, urinary system, and reproductive systems, correlated with laboratory experience and demonstration. Lab will incorporate current selected relevant peer-reviewed scientific literature and problem-based learning to facilitate students' introductory knowledge of common pathologies, diagnoses, and treatment, along with integration of virtual human cadaver (anatomage) and advanced physiology equipment.

**Grade Type:** Letter Grade

**Lecture:** 3 units **Lab:** 1 unit

**Fee:** Additional lab fee

**Prerequisite(s):** BIO 353

## **BIO 380 - Biology Seminar**

**Units:** 1

**When Offered:** Fall, Spring

This course will introduce and reinforce the skills necessary to perform biological research including discussions of the scientific method, literature research, reading scientific journal articles, analyzing scientific data, reporting research findings in both written and visual formats, critiquing original research, and science ethics. It will also explore field work opportunities available for students. Each student will be required to present a research proposal and/or locate and prepare all necessary documents for entering an internship, field work, or research opportunity.

**Grade Type:** Letter Grade

**Prerequisite(s):** Biology major

## **BIO 399 - Independent Study**

**Units:** 3

**When Offered:** As offered

An opportunity for students who have demonstrated the ability to do independent work to pursue in depth a topic of particular interest.

**Grade Type:** Letter Grade

## **BIO 412 - Topics in Biology**

**Units:** 1-4

**When Offered:** As offered

This class deals with research projects and topics of current or historical interest which are not normally covered in other established courses. Content variable from year to year.

**Repeatable:** May be repeated for a maximum of twelve (12) units with change in topic

**Grade Type:** Letter Grade

## **BIO 425 - Cancer Biology**

**Units: 4**

**When Offered:** Spring

The overall goal of this course is to increase the student's awareness of the molecular, cellular, and genetic mechanisms that lead to cancer formation. This course specifically focuses on the regulation of signal transduction pathways, cell cycle entry and progression, programmed cell death, and ultimately the behavior of cancer cells as they metastasize leading to a terminal disease. Lecture with discussion.

**Grade Type:** Letter Grade

**Prerequisite(s):** BIO 146, and 330 or CHE 443

## **BIO 430 - Laboratory Techniques in Molecular Biology**

**Units: 2**

**When Offered:** Spring (odd years)

This laboratory-based course is designed for each student to gain a fundamental knowledge of molecular biology techniques that are regularly used in a research lab setting.

**Grade Type:** Letter Grade

**Fee:** Additional lab fee

**Prerequisite(s):** BIO 330 or CHE 443

## **BIO 435 - Proteomics, Genomics, and Bioinformatics with Lab**

**Units: 4**

**When Offered:** Spring (even years)

This course introduces students to concepts in molecular and genetic basis of cellular processes and the inferences made of these processes through genome and protein database analysis and modeling. Emphasis will be placed on theoretical and experimental approaches used to gain insights in genome structure and function through the use and application of web-based bioinformatics tools developed from advances in the human genome project.

**Grade Type:** Letter Grade

**Fee:** Additional lab fee

**Prerequisite(s):** BIO 330 or CHE 443

## **BIO 440 - Pharmacology with Discussion**

**Units: 4**

**When Offered:** Fall

This course will introduce the student to basic and clinical pharmacology as related to the promotion of health and alleviation of disease. The course will consider drug absorption, distribution, metabolism, elimination, and pharmacodynamic effects on the human body. Prescription drug classification, function and uses will be introduced with emphasis on the impact medically prescribed drug classification, function and uses will be introduced with emphasis on the impact medically prescribed drugs will have on the patient. Students will increase their understanding of drug design and action, as well as their understanding of disease and pharmacotherapeutic treatment.

**Grade Type:** Letter Grade

**Prerequisite(s):** BIO 330 or CHE 443, and BIO 344 or 353 or both 153 and 163

## **BIO 489 - Immunology and Molecular Pathogenesis with Lab**

**Units: 4**

**When Offered:** Spring

This course is designed for upper division biology students, particularly those enrolled in the pre-medical and pre-health sciences. Various aspects of the immune system, including the cellular, molecular, and physiological aspects of innate and antibody and cell-mediated adaptive immunity, as they relate to pathogenesis will be covered in the course.

**Grade Type:** Letter Grade

**Fee:** Additional lab fee

**Prerequisite(s):** BIO 146 and 148. (Recommend: BIO 305 and 330)

## **BIO 490 - Research in Biology**

**Units: 1-4**

**When Offered:** Fall, Spring, Summer

This class focuses on laboratory research projects and topics of current or historical interest that are not normally covered in other established courses. Content varies from year to year and is determined by both instructor and student's interest.

**Repeatable:** May be repeated for a maximum of eight (8) units

**Grade Type:** Letter Grade

**Prerequisite(s):** BIO 148, Sophomore status, and permission of the Department Chair

## **BIO 491 - Internship in Biology**

**Units: 1-4**

**When Offered:** As offered

Under the advisement of a faculty member and supervising professional, the student will work or otherwise actively participate in a work/volunteer setting related to their major in Biology. This can be in an industrial, research, healthcare, or other approved setting. Variable (1-4) units can be earned in any one semester.

**Repeatable:** May be repeated for a maximum of six (6) units

**Grade Type:** Letter Grade

**Prerequisite(s):** Biology major and Junior or Senior status

## **BIO 499 - Biology Capstone**

**Units: 2**

**When Offered:** Fall, Spring

This course is designed to be a culminating exercise for students to reflect upon, evaluate, and assimilate knowledge and experience they have gained by participating in a research or internship opportunity prior to this course. Students will prepare a presentation (both written and oral) that will focus on that experience.

**Grade Type:** Letter Grade

**Prerequisite(s):** Biology or Biomedical Sciences major and Junior status

## **Business Administration**

### **BUS 101 - Introduction to Business**

**Units: 3**

**When Offered:** Fall, Spring

Introduces students to various business disciplines, provides an overview of each function's role in an organization and explores the various career opportunities available within each of these disciplines.

**Grade Type:** Letter Grade

### **BUS 200 - Special Topics in Business**

**Units: 3**

**When Offered:** As offered

This course offers a concentration upon a specific topic in the field of business. The topic varies by semester. It may be



taken multiple times with change in topic.

**Repeatable:** May be repeated for credit with change in topic

**Grade Type:** Letter Grade

## **BUS 212 - Economics, Life, and Society**

**Units:** 3

**When Offered:** Fall, Spring

A fascinating exploration of current topics affecting our daily lives, including standard of living, poverty and inequality, healthcare, education, work and labor, housing, family structure, financial and credit markets, food and agriculture, energy, trade and globalization, and environmental concerns, through an integrated lens of economics, politics, social structures, and ethics, by introducing the historical background, asking critical questions, evaluating information, and developing grounded worldviews.

**Grade Type:** Letter Grade

## **BUS 217 - Microeconomics**

**Units:** 3

**When Offered:** Fall, Spring, & Online

This course studies economic behavior at the individual level. Topics include decision-making processes of households and firms, supply and demand, elasticity, and marginal analysis. Market structure and public policy are examined to evaluate their impact on economic welfare and the allocation of scarce resources.

**Grade Type:** Letter Grade

## **BUS 218 - Macroeconomics**

**Units:** 3

**When Offered:** Fall, Spring, & Online

This course offers a common sense approach to economics, covering basic economic laws and how they apply to our world and everyday life. The course focuses on the overall economy and economic theories that offer explanations for its fluctuations and changes. Also, the course is designed to give the student a sufficient grounding in the terminology, basic concepts, and issues of economics to stimulate interest in further study and provide background in business.

**Grade Type:** Letter Grade

## **BUS 237 - Management Based on Biblical Principles**

**Units:** 3

**When Offered:** Fall, Spring

In this course students learn to identify and apply effective management and leadership behaviors based on principles found in the Bible. This course will equip each student with skills in making biblically-informed choices in realistic business scenarios.

**Grade Type:** Letter Grade

## **BUS 291 - International Business Practicum Prep I**

**Units:** 1

**When Offered:** Fall

This class is designed to prepare students for their international internship. It focuses on developing a four year career road-map, career counseling, and developing goals for the students international business internship program.

**Grade Type:** Letter Grade

**Fee:** Additional practicum fee

## **BUS 292 - International Business Practicum Prep II**

**Units: 1**

**When Offered:** Spring

This class is designed to prepare students for their international internship. It focuses on building the tools a student needs to be successful for finding the career of their choice. Students will develop a resume and cover letter, build a Linked-in profile, update career goals, and engage in a mock interview.

**Grade Type:** Letter Grade

**Fee:** Additional practicum fee

**Pre- or Co- Requisite(s):** BUS 291

## **BUS 303 - Business Finance**

**Units: 3**

**When Offered:** Fall, Spring, & Online

This course provides an introduction to the principles of financial management. It includes an overview of financial management, financial analysis and control, capital investment decisions, raising funds and cost of capital, sources of long-term funds and cash management principles.

**Grade Type:** Letter Grade

**Prerequisite(s):** ACC 250 or 350, and CIS 270

## **BUS 315 - Business Statistics**

**Units: 3**

**When Offered:** Fall, Spring, & Online

This course includes the assembling and presentation of statistical data, probability distributions, sampling techniques, and statistical analysis. A project with practical problem solving is required.

**Grade Type:** Letter Grade

**Prerequisite(s):** CIS 270, and MAT 115 or STA 144

## **BUS 334 - International Business**

**Units: 3**

**When Offered:** Fall, Spring, & Online

An introduction to international business which will expose students to major international business issues, including international trade, cultures, economics, marketing, and communication issues of multinational corporations.

**Grade Type:** Letter Grade

## **BUS 337 - Management with Biblical Foundation**

**Units: 3**

**When Offered:** Online

A study of management and decision-making principles with a strong emphasis on integrating a biblical foundation. Key biblical principles of business and administration are studied.

**Grade Type:** Letter Grade

## **BUS 341 - Operations Management**

**Units: 3**

**When Offered:** Online

The course focuses on the systematic planning, design, and operations of the business process that ultimately impacts

the management of production and the delivery of goods and services to end-users. Particular emphasis will give an overview of the business processes, and outlines and supports the understanding of how a business operates. The topics of the course will cover the tactical and strategic sourcing relationships of resources including supply aspect, purchasing, procurement, forecasting, inventory control, quality, sustainability, work-in-process, and negotiations that provide management with the tools to deliver goods and services to end-users.

**Grade Type:** Letter Grade

## **BUS 343 - Human Resource Management**

**Units:** 3

**When Offered:** Spring & Online

This is a survey of the principles and practices involved in supervising employees and administering personnel programs. It includes the study of human resource planning, recruitment, selection, training and development, and compensation and benefits.

**Grade Type:** Letter Grade

## **BUS 345 - Nonprofit Management**

**Units:** 3

**When Offered:** Fall

This course will provide a comprehensive overview of the key topics nonprofit leaders encounter daily. Topics include: the governance and management of nonprofit organizations, the scope and structure of the nonprofit sector, leadership of nonprofits (including church and faith-based organizations), management, fundraising, earned income strategies, financial management, lobbying and advocacy, managing international and global organizations, and social entrepreneurship.

**Grade Type:** Letter Grade

## **BUS 352 - Global Supply Chain Management**

**Units:** 3

**When Offered:** Spring & Online

The course focuses on the design and management of global supply chain systems that vary in size, thus aiding in the understanding of how to develop assets and configure processes in a firm's supply chain that enable the firm to develop operational competencies that are aligned with competitive strategies to manage the global supply chain. Particular emphasis will focus on the processes that facilitate the structure, development, and management of a global supply chain.

**Grade Type:** Letter Grade

## **BUS 356 - Business Communication Strategies**

**Units:** 3

**When Offered:** Fall, Spring & Online

This course teaches essential skills and techniques of communication strategy used in external and inter-organizational communication, interpersonal and group communication, and written and oral communication in business settings. It provides opportunities for students to apply these skills in correspondence, research, reports and presentations, and prepare them for effective job searches and productive careers in business, management and leadership.

**Grade Type:** Letter Grade

## **BUS 358 - Business Law**

**Units: 3**

**When Offered:** Fall, Spring, & Online

This course covers the law of sales, employment, contracts, negotiable instruments, agency and partnerships, corporations, insurance, real and personal property, estates, and bankruptcy.

**Grade Type:** Letter Grade

## **BUS 359 - Intellectual Property Law**

**Units: 3**

**When Offered:** As offered

The course will examine technology policy, patent law, trademark law, copyright law, trade secrets, intrusions on privacy and other personal rights, biotechnology, e-commerce, important contract issues for technology companies, tort liabilities for physical and economic harms, antitrust and anticompetitive conductor.

**Grade Type:** Letter Grade

## **BUS 363 - Microfinance**

**Units: 3**

**When Offered:** Spring (odd years)

This course examines microfinance as a business oriented tool to help alleviate global poverty so that sustainable, systematic change might occur. Students will define and explore the growing practice of microfinance and its impact here in the United States and around the world. Emphasis is on using microfinance tools, business strategies, and innovation to address the social and economic problems.

**Grade Type:** Letter Grade

## **BUS 374 - Entrepreneurial Finance**

**Units: 3**

**When Offered:** As offered

An overview of financial principles as they apply to the entrepreneurial environment. Topics covered include an introduction to the financial environment for entrepreneurs, development of business and financial plans, organizing and financing a new venture, measuring and evaluating financial performance, obtaining financing, creating value, and structuring for growth. Additional topics will be included as applicable to the entrepreneurial environment.

**Grade Type:** Letter Grade

**Prerequisite(s):** BUS 303

## **BUS 380 - Business Analytics Visualization and Strategy**

**Units: 3**

**When Offered:** Fall (odd years)

This course teaches strategies for visual analyses of business data to inform business strategies across a variety of industries. Students will learn how to create and interpret charts, graphs, infographics, interactive dashboards and communicate the visual insights to customers and employers. A variety of visualization tools will be used for practice and preparation for industry certifications, e.g. SAS, Tableau, GIS.

**Grade Type:** Letter Grade

**Prerequisite(s):** BEH 290, BUS 315, CJS 481, EGR 305, or STA 144

## **BUS 381 - Spatial Analytics in Business**

**Units: 3**

**When Offered:** Fall, Spring (even years)

This course trains students in developing spatial analyses for business decisions and strategy across a variety of industries, e.g. business, logistics, real estate, healthcare, marketing analytics, finance. Students will learn how to perform market and customer segmentation, identify patterns in consumer behavior and how they change over time, and others. This course prepares towards SAS, Tableau, GIS certification and is ideal for students who wish to have careers requiring analytics, strategy and/or consulting.

**Grade Type:** Letter Grade

**Prerequisite(s):** BEH 290, BUS 315, CJS 481, EGR 305, or STA 144

## **BUS 391 - International Business Practicum Prep III**

**Units:** 1

**When Offered:** Fall

This class is designed to prepare students for their international internship. It focuses on building the tools a student needs to be successful in finding the career of their choice. Students will refine their cover letter, resume, and Linked-In profiles. In addition, students will complete a mock-interview and attend a career fair. Students will also select and familiarize themselves with their chosen international internship location.

**Grade Type:** Letter Grade

**Fee:** Additional practicum fee

**Pre- or Co- Requisite(s):** BUS 292

## **BUS 392 - International Business Practicum Prep IV**

**Units:** 1

**When Offered:** Spring

This class is designed to prepare students for their international internship. It focuses on building the tools a student needs to be successful in finding the career of their choice. Students will learn standards of etiquette and behavior for traveling abroad, be prepared with financial understanding for the internship, complete the internship application and pre-departure orientation and understand the internship location, industry, and logistics.

**Grade Type:** Letter Grade

**Fee:** Additional practicum fee

**Pre- or Co- Requisite(s):** BUS 391

## **BUS 393 - International Business Internship Practicum**

**Units:** 3

**When Offered:** Summer

This course facilitates student learning and professional development while students participate in an 8-week international internship. It provides a framework for students to reflect on and analyze the specific skills gained throughout their international internship. This course also supports student self-awareness and personal growth in a cross-cultural context.

**Grade Type:** Letter Grade

**Prerequisite(s):** BUS 392

## **BUS 398 - Study Abroad**

**Units:** 3

**When Offered:** As offered

Under faculty supervision, the student will study abroad in a business emphasis area. This is an opportunity for students to learn business principles in a non-U.S. setting and to explore varying world views.

**Grade Type:** Letter Grade

**Fee:** Additional trip fee(s)

**Prerequisite(s):** Permission of the Dean

## **BUS 399 - Independent Study**

**Units: 3**

**When Offered:** As offered

This course provides for individual study, seminar, and internship approaches to the study of business. Experimental education is encouraged. Student consulting to small businesses is often undertaken.

**Grade Type:** Letter Grade

## **BUS 400 - Special Topics in Business**

**Units: 3**

**When Offered:** As offered

This course offers a concentration upon a specific topic in the field of business. The topic varies by semester.

**Repeatable:** May be repeated for a maximum of twelve (12) units with change in topic

**Grade Type:** Letter Grade

## **BUS 435 - Leadership in Organizations**

**Units: 3**

**When Offered:** Spring (even years)

This course examines the basic concepts, theories, nature and practices of leadership and leadership behavior. A major assumption of the course content is that there is a difference between management and leadership, a difference succinctly characterized in the observation. "Lead people; manage things." An emphasis on integrating biblical principles and leadership will also be studied. Real-world applications are done through extensive case studies. Students completing this course for credit may not also earn credit for LDR 310.

**Grade Type:** Letter Grade

## **BUS 440 - Quantitative Business Analysis**

**Units: 3**

**When Offered:** Fall, Spring, & Online

This course explores quantitative methods utilized in business decision-making, with an emphasis placed on problem solving and evaluation, as well as applications in marketing, finance, accounting, and operations. Topics may include decision analysis, linear programming, forecasting techniques, statistical process control, and inventory models. A project with practical problem solving is required.

**Grade Type:** Letter Grade

**Prerequisite(s):** BUS 315

## **BUS 452 - Logistics Planning and Controlling**

**Units: 3**

**When Offered:** Online

The course focuses on management techniques with analytical framework needed to solve problems associated with a firm's logistics planning and control. The course covers the core competencies to manage the planning, implementing, controlling, and distributing of goods and services for a firm. This course will address topics of production planning and scheduling, inventory management, and the design and management of supply and distribution networks.

**Grade Type:** Letter Grade

## **BUS 454 - International Management**

**Units: 3**

**When Offered:** Spring

This course examines the role of the manager in the international management environment and explores the foundation of international management, the role of culture in managing internationally, and international organizational behavior issues with a focus on managing international risk and strategic planning in all areas of management.

**Grade Type:** Letter Grade

**Prerequisite(s):** BUS 334

## **BUS 457 - Negotiation and Conflict Resolution**

**Units: 3**

**When Offered:** Fall

The course incorporates "real world" negotiation cases, practical bargaining tactics, as well as personal and interpersonal negotiation skills development. Students will complete several negotiation self-awareness instruments and develop a negotiation skills strategy. This course emphasizes the stages of negotiation, bargaining, power structure, and cultural differences at the individual, team, and organizational levels. The course emphasizes the various functions of negotiation theory, conflict resolution, and best practices across multiple industries, such as business, law, education, engineering, psychology, entertainment, and public administration.

**Grade Type:** Letter Grade

## **BUS 463 - Business and Organizational Management**

**Units: 3**

**When Offered:** Fall, Spring, & Online

This course is the study of management theories and the functional concepts of leadership, planning, and decision making. Special emphasis is placed on quality issues, globalism, diversity, ethics, productivity, motivation, skill development, and human resource management. An emphasis on integrating biblical principles and leadership will also be studied.

**Grade Type:** Letter Grade

## **BUS 464 - Family Business Management**

**Units: 3**

**When Offered:** Spring (odd years)

The study of the unique issues faced by family owned and operated businesses. Theoretical foundations, differences between family and non-family firms, generational differences, succession, estate planning, family meetings, conflict management strategies, and boards of directors will be discussed.

**Grade Type:** Letter Grade

## **BUS 474 - International Business Finance**

**Units: 3**

**When Offered:** Spring

Interpretation of finance principles from an international perspective. Topics include overview of the international monetary system, balance of payments, world financial markets and institutions. Additionally, management issues for multi-national firms are covered, including cost of capital, multinational cash management, and tax issues.

**Grade Type:** Letter Grade

**Prerequisite(s):** BUS 303

## **BUS 475 - Project and Team Management**

**Units: 3**

**When Offered:** Fall & Online

This course focuses both on general management theory and specific project and team practices useful in the rapidly shifting environment of technology. Particular emphasis is given to the range of diverse techniques required to meet the challenges of managing teams to the successful completion of technology projects in the contemporary workplace. A comprehensive project will be completed in a group setting using Project Management theory and techniques.

**Grade Type:** Letter Grade

## **BUS 480 - Business Models and Analytics**

**Units: 3**

**When Offered:** Fall (even years)

This course teaches business models to explore and predict specific applied business environments, e.g. customer retention, consumer decisions, sales forecasting, text analytics, etc. Concepts combine application of business models and strategy for marketing, finance, production, process, and managerial targets. This course is ideal for students who prepare for careers requiring analytics, strategy and/or consulting and prepares for industry certifications, e.g. SAS, Tableau, GIS.

**Grade Type:** Letter Grade

**Prerequisite(s):** BEH 290, BUS 315, CJS 481, EGR 305, or STA 144

## **BUS 481 - Design Thinking in Business Analysis**

**Units: 3**

**When Offered:** Spring (odd years)

This course teaches how to develop business analytics that improve customer experiences and meet employers' expectations. Students will learn design thinking strategies to identify hidden customer needs, define problems and opportunities, elicit and gather project requirements. They will then practice aligning these user needs with analytics models and tie them into a winning business strategy. This course is ideal for students who prepare for careers requiring analytics, strategy, and/or consulting for a variety of industries.

**Grade Type:** Letter Grade

**Prerequisite(s):** BEH 290, BUS 315, CJS 481, EGR 305, or STA 144

## **BUS 485 - Business Policy and Strategy**

**Units: 3**

**When Offered:** Fall, Spring, & Online

This is an integrative study of senior management functions using advanced case analysis, focusing on general management and decision making. Topics include setting objectives; implementing, supporting, and controlling organization-wide policies; developing strategies to achieve objectives; setting standards for measuring performance; evaluating and reformulating policies in response to change; and fulfilling leadership responsibilities.

**Grade Type:** Letter Grade

**Prerequisite(s):** BUS 303, 463 or ENT 462, and MKT 333

## **BUS 489 - Business Practicum**

**Units: 1-3**

**When Offered:** As offered

Students will apply business knowledge to collaboratively complete a designated project for an outside organization.

**Repeatable:** May be repeated for a maximum of six (6) units

**Grade Type:** Letter Grade

**Prerequisite(s):** Permission of the Dean



## **BUS 491 - Internship in Business**

**Units: 1-3**

**When Offered:** Fall, Spring, Summer

Under faculty supervision, the student will be assigned to a business or non-profit organization in an emphasis area (Business Technology, Marketing, Management). This is an opportunity for field experience in applying business principles.

**Repeatable:** May be repeated for a maximum of six (6) units

**Grade Type:** Letter Grade

**Prerequisite(s):** Permission of the Dean

## **Chemistry**

### **CHE 101 - Orientation to the Discipline**

**Units: 1**

**When Offered:** Fall, Spring

This course is designed to introduce students to the basic skills necessary for academic success in the discipline of Chemistry and to provide students with an overview of professions in which the major may be applied.

**Grade Type:** Letter Grade

**Prerequisite(s):** Declared Major in Chemistry, Biochemistry and Molecular Biology, Forensic Chemistry, or Pharmaceutical Sciences

### **CHE 102 - Fundamentals of Chemistry**

**Units: 3**

**When Offered:** Fall, Spring, Summer, & Online

A review of fundamental topics in chemistry including units of measurements, classifications of matter, atomic and molecular structure, bonding, the periodic table, chemical reactions, solutions, gases, and energy.

**Grade Type:** Letter Grade

### **CHE 112 - Organic and Biochemistry for Health Sciences**

**Units: 3**

**When Offered:** Fall, Spring, Summer

A survey of Organic and Biochemistry topics with special emphasis on metabolic processes and applications to medicine and health. Should be taken with CHE 112L - Organic and Biochemistry for Health Sciences Lab.

**Grade Type:** Letter Grade

**Prerequisite(s):** CHE 102, or 115 and 115L

### **CHE 112L - Organic and Biochemistry for Health Sciences Lab**

**Units: 1**

**When Offered:** Fall, Spring, Summer

A laboratory experience designed to illustrate and reinforce topics covered in Organic and Biochemistry for Health Sciences and introduce students to laboratory experiments and equipment that are foundational to the study of these disciplines.

**Grade Type:** Letter Grade

**Fee:** Additional lab fee

**Pre- or Co- Requisite(s):** CHE 112

## **CHE 115 - General Chemistry I**

**Units: 3**

**When Offered:** Fall, Spring

A study of inorganic chemical systems including properties of atoms, molecules and ions, composition of matter, solutions, stoichiometry, thermochemistry, gas laws, electronic structure of elements, chemical bonding and molecular geometry. Course content is presented at a level required for Chemistry and related science majors.

**Grade Type:** Letter Grade

**Lecture:** 3 units

**Prerequisite(s):** CHE 102 or high school chemistry

## **CHE 115L - General Chemistry I Lab**

**Units: 1**

**When Offered:** Fall, Spring

A laboratory experience designed to illustrate and reinforce topics covered in General Chemistry I and introduce students to laboratory practices, experiments and equipment that are foundational to the study of Chemistry.

**Grade Type:** Letter Grade

**Fee:** Additional lab fee

**Pre- or Co- Requisite(s):** CHE 115

## **CHE 125 - General Chemistry II**

**Units: 3**

**When Offered:** Fall, Spring, Summer

A continuation of CHE 115 - General Chemistry I including the study of inorganic chemical systems including liquids and solids, solutions, colloids, kinetics, equilibria, acid-base chemistry, thermodynamics, electrochemistry, and nuclear chemistry. Course content is presented at a level required for Chemistry and related science majors.

**Grade Type:** Letter Grade

**Lecture:** 3 units

**Prerequisite(s):** CHE 115 and 115L

## **CHE 125L - General Chemistry II Lab**

**Units: 1**

**When Offered:** Fall, Spring, Summer

A laboratory experience designed to illustrate and reinforce topics covered in CHE 125 - General Chemistry II and continue to introduce students to laboratory practices, experiments, and equipment that are foundational to the study of Chemistry.

**Grade Type:** Letter Grade

**Fee:** Additional lab fee

**Prerequisite(s):** CHE 115L

**Pre- or Co- Requisite(s):** CHE 125

## **CHE 200 - Special Topics in Chemistry**

**Units: 1-3**

**When Offered:** As offered

Various appropriate topics of different concentrations are offered each time. Student involvement in selection of topics is strongly encouraged.

**Repeatable:** May be repeated one (1) time for credit with change in topic

**Grade Type:** Letter Grade

## **CHE 230 - Introduction to Molecular Modeling**

**Units:** 1

**When Offered:** Spring

The development of computer-generated models to investigate quantitative information about structures, reactivities, and stabilities of molecules.

**Grade Type:** Letter Grade

**Prerequisite(s):** CHE 115 and 115L

## **CHE 321 - Quantitative Chemical Analysis with Lab**

**Units:** 4

**When Offered:** Fall

A survey of separation and quantitation principles and methods.

**Grade Type:** Letter Grade

**Lecture:** 3 units **Lab:** 1 unit

**Fee:** Additional lab fee

**Prerequisite(s):** CHE 125 and 125L

## **CHE 341 - Advanced Inorganic Chemistry with Lab**

**Units:** 4

**When Offered:** Spring (even years)

A study of electronic structure of atoms, bonding and structure of molecules, coordination chemistry, an overview of the chemistry of the elements, the periodic table and periodic trends, transition metal chemistry, including ligand field theory, organometallic chemistry, including catalytic reactions and solid state chemistry.

**Grade Type:** Letter Grade

**Lecture:** 3 hours **Lab:** 4 hours

**Fee:** Additional lab fee

**Prerequisite(s):** CHE 125, 125L, and MAT 245

## **CHE 351 - Organic Chemistry I with Lab**

**Units:** 4

**When Offered:** Fall, Spring

An integrated mechanistic study of the nomenclature, chemical, and stereochemical properties of aliphatic hydrocarbons.

**Grade Type:** Letter Grade

**Lecture:** 3 units **Lab:** 1 unit

**Fee:** Additional lab fee

**Prerequisite(s):** CHE 125 and 125L

## **CHE 352 - Organic Chemistry II with Lab**

**Units:** 4

**When Offered:** Fall, Spring

A continuation of CHE 351 covering the major aliphatic and aromatic functional groups. Includes an introduction to spectroscopy.

**Grade Type:** Letter Grade  
**Lecture:** 3 units **Lab:** 1 unit  
**Fee:** Additional lab fee  
**Prerequisite(s):** CHE 351

## **CHE 399 - Independent Study**

**Units:** 1-3

**When Offered:** As offered

This course of study is offered to afford the superior student an opportunity to explore independently subject matter not already offered in the catalog.

**Grade Type:** Letter Grade

## **CHE 400 - Special Topics in Chemistry**

**Units:** 1-3

**When Offered:** As offered

Various appropriate topics of different concentrations are offered each time.

**Repeatable:** May be repeated one (1) time for credit with change in topic

**Grade Type:** Letter Grade

## **CHE 400L - Special Topics Lab**

**Units:** 1

**When Offered:** As offered

This laboratory course will be offered in conjunction with the special topics course to provide instruction with hands on experience. Topic varies for different semesters.

**Repeatable:** May be repeated for credit with change in topic

**Grade Type:** Letter Grade

**Fee:** Additional lab fee

**Concurrent Requisite(s):** CHE 400

## **CHE 415 - Physical Chemistry I**

**Units:** 3

**When Offered:** Fall

A study of thermodynamics, kinetic molecular theory, and kinetics of chemical systems.

**Grade Type:** Letter Grade

**Prerequisite(s):** CHE 125, 125L, and MAT 255. (Recommended: MAT 342 or 343)

## **CHE 416 - Physical Chemistry II with Lab**

**Units:** 4

**When Offered:** Spring (odd years)

A study of quantum mechanics, molecular structure, and spectroscopy.

**Grade Type:** Letter Grade

**Lecture:** 3 hours **Lab:** 4 hours

**Fee:** Additional lab fee

**Prerequisite(s):** CHE 125, 125L, and MAT 255

**Pre- or Co- Requisite(s):** CHE 230

## **CHE 443 - Biochemistry I with Lab**

**Units: 4**

**When Offered:** Fall, Spring

A survey of the chemical reactions in living systems. Attention given to enzymes.

**Grade Type:** Letter Grade

**Lecture:** 3 units **Lab:** 1 unit

**Fee:** Additional lab fee

**Prerequisite(s):** CHE 351 (Recommended: BIO 146)

## **CHE 444 - Biochemistry II with Lab**

**Units: 4**

**When Offered:** Fall

A continuation of CHE 443 - Biochemistry I with Lab including a detailed look at DNA, transcription, translation, protein synthesis, lipid metabolism (e.g., cholesterol synthesis) and amino acid and nucleic acid metabolism.

**Grade Type:** Letter Grade

**Fee:** Additional lab fee

**Prerequisite(s):** CHE 443

## **CHE 453 - Advanced Organic Chemistry**

**Units: 3**

**When Offered:** Spring (odd years)

A continuation of the study of Organic Chemistry, with special emphasis placed on the study of organic mechanisms, name reactions, and drugs of abuse.

**Grade Type:** Letter Grade

**Prerequisite(s):** CHE 352

## **CHE 470 - Instrumental Analysis**

**Units: 4**

**When Offered:** Spring

This course is a study of instrumental methods of analysis including spectroscopic, chromatographic, and electrochemical techniques with emphasis on the theory, design, and applications of various instruments.

**Grade Type:** Letter Grade

**Lecture:** 2 units **Lab:** 2 units

**Fee:** Additional course fee

**Prerequisite(s):** CHE 321

## **CHE 475 - Forensic Chemistry with Lab**

**Units: 4**

**When Offered:** Fall

This course builds on the students' criminalistics and chemistry foundation to study advanced topics in forensic chemistry. Topics studied are in the areas of: metrology including statistics, quality control, and sampling; chemical foundations including equilibria, partitioning, and instrumentation; drugs and poisons; combustion including explosives and firearms; and materials including colorants, polymers, inks, paints, fibers, and paper.

**Grade Type:** Letter Grade

**Lecture:** 3 units **Lab:** 1 unit

**Fee:** Additional lab fee

**Prerequisite(s):** CHE 470 (Recommended: SCI 205)

## **CHE 480 - Chemistry Research Seminar**

**Units:** 1

**When Offered:** Fall

An introduction to performing chemistry research including discussions of the scientific method, literature research, reading scientific journal articles, analyzing scientific data, reporting research findings in both written and visual formats, critiquing original research, and science ethics. A research proposal will be written by each participant.

**Grade Type:** Letter Grade

**Prerequisite(s):** Chemistry or Biochemistry and Molecular Biology major and Junior or Senior status

## **CHE 485 - Forensic Chemistry Major Capstone**

**Units:** 3

**When Offered:** Fall, Spring

This course is designed to be a culminating exercise for students to reflect upon, evaluate, and assimilate knowledge and experience they have gained by participating in a laboratory-based research experience, related hands-on opportunity, or composing a senior thesis. In addition, students will have an opportunity to prepare for professional interviews.

**Grade Type:** Letter Grade

**Prerequisite(s):** CHE 475 and Senior status

## **CHE 490 - Research in Chemistry**

**Units:** 1-4

**When Offered:** Fall, Spring, Summer

The focus of this class is an independent laboratory research project that the student undertakes under the direction of a faculty member who acts as a research advisor. Content varies from year to year and is determined by both instructor's and students' interests.

**Repeatable:** May be repeated for a maximum of eight (8) units

**Grade Type:** Letter Grade

**Prerequisite(s):** CHE 125, 125L, and permission of the Department Chair

# **Chinese**

## **CHI 115 - Mandarin Chinese I**

**Units:** 3

**When Offered:** As offered

An introduction to the sound system and grammar of Chinese with emphasis on speaking, reading, writing and listening comprehension. Classes are conducted in Chinese as much as possible. Students will learn Pinyin system and practice simplified Chinese characters. The class also will contain discussions on Chinese customs and cultural background, which are essential in understanding the language.

**Grade Type:** Letter Grade

## **CHI 125 - Mandarin Chinese II**

**Units: 3**

**When Offered:** As offered

A continuation of CHI 115 - Mandarin Chinese I will continue to be conducted in Chinese as much as possible. Students will practice more on the sound system, and continue to study the grammar of Chinese with emphasis on speaking, reading, writing and listening comprehension. They will learn and practice simplified Chinese characters. The class will contain discussions on Chinese customs and cultural background, which are essential in understanding the language.

**Grade Type:** Letter Grade

**Prerequisite(s):** CHI 115

## **Christian Behavioral Science**

### **CBS 200 - Special Topics in Christian Behavioral Science**

**Units: 1-3**

**When Offered:** As offered

An in-depth seminar on a selected topic within Christian Behavioral Science.

**Repeatable:** May be repeated for credit with change in topic

**Grade Type:** Letter Grade

### **CBS 303 - Marriage and Family in the Christian Community**

**Units: 3**

**When Offered:** Fall, Spring

A comparison of Marriage and Family systems in Biblical and American cultural perspectives. The course will contrast and compare the foundations of marriage in Western Culture and the Judeo-Christian worldview. Family roles and relational development will also be addressed. Marital adjustment including finances, marital sexuality, communication and parenting will be presented from a Biblical approach.

**Grade Type:** Letter Grade

### **CBS 350 - Lifespan Development and Discipleship**

**Units: 3**

**When Offered:** Spring

This course examines the relationship between human development as it is understood within the Behavioral Sciences and Discipleship as formation, transformation, and reformation within the Judeo-Christian theologies. The content draws on comparisons between Behavioral Science theories of lifespan in comparison with Theological perspectives on learning and maturity in relationship to mental and spiritual health. It further examines development as a biological, cognitive, relational, and spiritual process that moves toward maturity and wisdom in the context of life and life-to-life family, congregation and peer relationships.

**Grade Type:** Letter Grade

### **CBS 399 - Independent Study**

**Units: 1-3**

**When Offered:** As offered

An opportunity for students who have demonstrated the ability to do independent work to pursue in depth a topic of particular interest.

**Grade Type:** Letter Grade

### **CBS 400 - Special Topics in Christian Behavioral Science**

**Units: 1-3****When Offered:** Fall, Spring

An in-depth seminar on a selected topic within Christian Behavioral Science. The course will introduce students to the historical and contemporary literature and issues related to the selected topic as well as encourage critical thinking. Specifically, consideration will be given to the differences between a secular and biblical view of the selected topic.

**Repeatable:** May be repeated one (1) time for credit with change in topic**Grade Type:** Letter Grade**CBS 403 - Congregation and Community****Units: 3****When Offered:** Fall

An overview of Christian congregation and community from theological and behavioral science perspectives. Subjects include the function and purpose of Christian Institutions including the household and congregation as a place of discipleship, worship, fellowship and relational reconciliation. Secondary institutions will include Christian media, economics, law and education. The impact of the shift from Christian nationalism to post-Christian America will be addressed.

**Grade Type:** Letter Grade**CBS 415 - Biblical Wisdom and Human Behavior****Units: 3****When Offered:** Fall

A comprehensive examination of the principles for living found in the Biblical Wisdom literature. The principles will be applied to several areas of human behavior including personality development, abnormality and mental health, cognition, emotions, marriage and family life, authority, work, financial management, and citizenship. The implications for personal choices, parenting, counseling, teaching and ministry will be thoroughly considered.

**Grade Type:** Letter Grade**CBS 420 - Behavioral Implications of Theology****Units: 3****When Offered:** Spring

Examination of the behavioral, cognitive, and affective implications of specific doctrinal beliefs. Systematic theology is interpreted as a basis for understanding human behavior. Subjects include bibliology (Bible), theology (God), soteriology (salvation), hamartiology (sin), ecclesiology (church), and anthropology (man), with particular attention to application in Christian education and counseling.

**Grade Type:** Letter Grade**CBS 423 - Models of Christian Counseling****Units: 3****When Offered:** Spring

An examination of current Christian-oriented counseling approaches toward the development of a personal integrated model of counseling that is distinctly Christian. The models will be considered in light of the essentials of a biblical theology of counseling. Further attention will be given to understanding the differences between clinical and congregational approaches to counseling.

**Grade Type:** Letter Grade**Prerequisite(s):** BEH 333**CBS 433 - Foundations of Pastoral Counseling**



**Units: 3**

**When Offered:** Fall (odd years)

This course will introduce the student to ministerial counseling at the relational, theological and practical levels. The student will understand the place of counseling in ministry and discipleship and will be exposed to the major areas of counseling that is found in a religious and congregational context. In addition, the student will be exposed to the integration of theology and Behavioral Science theory and methods to both compare and contrast these approaches.

**Grade Type:** Letter Grade

## **Christian Studies**

### **CST 100 - Overview of the Bible**

**Units: 3**

**When Offered:** Online

A general survey of the Hebrew Bible and the Christian writings (New Testament) with special emphasis to the religious and national life of the Hebrew people, the life of Jesus, and the development of the early church. An Online Program requirement for Online Degree Programs only.

**Grade Type:** Letter Grade

### **CST 110 - Old Testament Survey**

**Units: 3**

**When Offered:** Fall, Spring

A survey of the books of the Old Testament and their theological contribution to the overall storyline of the Bible. Attention is also given to the historical and cultural context of ancient Israel. Fulfills general education requirement for non-Christian Studies majors.

**Grade Type:** Letter Grade

### **CST 130 - New Testament Survey**

**Units: 3**

**When Offered:** Fall, Spring

A survey of the books of the New Testament and their contributions to the overall storyline of the Bible. Special attention is given to the life of Jesus and the development of the early church in their historical, cultural, and theological settings. Fulfills general education requirement for non-Christian Studies majors.

**Grade Type:** Letter Grade

### **CST 200 - Special Topics in Christian Studies**

**Units: 3**

**When Offered:** As offered

An examination of specific areas of Christian studies such as theology, Bible, missions, hermeneutics, Christian philosophy, etc.

**Repeatable:** May be repeated for credit with change in topic

**Grade Type:** Letter Grade

### **CST 210 - Pentateuch and Former Prophets**

**Units: 3**

**When Offered:** Fall & Online

This class examines the books of Genesis - Kings (as listed in the Hebrew canon) with special attention given to the theological contributions each book provides for the overall shape of the Old Testament. The historical background of Israel and the Ancient Near East will also be considered. Core requirement for Applied Theology or Christian Studies majors.

**Grade Type:** Letter Grade

## **CST 220 - Latter Prophets and Writings**

**Units:** 3

**When Offered:** Spring & Online

This class examines the books of Isaiah - 2 Chronicles (as listed in the Hebrew canon) with special attention given to the theological contribution each book provides for the overall shape of the Old Testament. The literary structure of each book and the cultural background of Israel and the Ancient Near East will also be considered. Core requirement for Applied Theology or Christian Studies majors.

**Grade Type:** Letter Grade

## **CST 230 - Jesus and the Gospels**

**Units:** 3

**When Offered:** Fall & Online

An investigation of the testimony provided by the Gospels concerning the life of Jesus of Nazareth, with special attention given to the critical issues prompted by such study.

**Grade Type:** Letter Grade

## **CST 240 - Paul and the Early Church**

**Units:** 3

**When Offered:** Spring & Online

An introductory consideration of the incidents, individuals, and issues included in the historical, epistolary, and apocalyptic portions of the New Testament.

**Grade Type:** Letter Grade

## **CST 300 - History of Baptist Thought**

**Units:** 3

**When Offered:** Fall, Spring, & Online

An examination of Baptist history and doctrine with respect to other Christian denominations and non-denominational churches. Attention will be given to the global impact of Baptists through local church renewal, promotion of religious liberty, participation in missions, and biblical fidelity. Core requirement for Applied Theology students, Christian Studies majors and minors.

**Grade Type:** Letter Grade

## **CST 302 - Foundations of Christian Thought**

**Units:** 3

**When Offered:** Online

An introduction and primer to Christian theology with special emphasis on identifying the importance and development of a Christian worldview, understanding the doctrine of scripture and biblical authority, learning to do theology, comprehending the relationship between truth, faith and reason, and applying a biblical worldview to the Christian life.

**Grade Type:** Letter Grade

## **CST 350 - Biblical Interpretation**

**Units: 3**

**When Offered:** Fall, Spring, & Online

A historical and theoretical consideration of interpretative methodology as illustrated by and applied to selected texts from various portions of the biblical materials. Core requirement for Christian Studies majors and minors.

**Grade Type:** Letter Grade

**Prerequisite(s):** Previous Biblical Studies coursework

## **CST 360 - Church History**

**Units: 3**

**When Offered:** Fall, Spring, & Online

A survey of the development of the Christian church from the close of the New Testament period to the present time, with special attention to the origin of various denominations. Core requirement for Christian Studies majors and minors.

**Grade Type:** Letter Grade

## **CST 370 - The Christian Faith**

**Units: 3**

**When Offered:** Fall, Spring

An exploration of the biblical truths of Scripture, God, humanity, sin, Jesus, the Holy Spirit, salvation, the Christian life, the church, and the life to come. Students will examine each major doctrine and understand its place in the biblical story.

**Grade Type:** Letter Grade

## **CST 381 - Christian Missions**

**Units: 3**

**When Offered:** Online

An examination of the issues faced by today's Christian missionaries, including divine call, recruitment, theological issues, cultural problems, political involvement, methodology, and indigenization. Student involvement in missions-related activities is expected.

**Grade Type:** Letter Grade

## **CST 383 - Ministry with Youth**

**Units: 3**

**When Offered:** Spring (odd years)

This class focuses on foundational issues related to adolescents with application to the local church. Student involvement in youth ministry is expected.

**Grade Type:** Letter Grade

**Prerequisite(s):** Previous Biblical Studies coursework

## **CST 399 - Independent Study**

**Units: 1-3**

**When Offered:** As offered

An opportunity for students who have demonstrated the ability to do independent work to pursue in depth a topic of

particular interest. Courses listed in the catalog may not be taken as independent study.

**Grade Type:** Letter Grade

### **CST 400 - Special Topics in Christian Studies**

**Units:** 3

**When Offered:** As offered

An examination of specific areas of Christian studies (theology, Bible, missions, etc.).

**Repeatable:** May be repeated for credit with change in topic

**Grade Type:** Letter Grade

**Prerequisite(s):** Previous Biblical Studies coursework

### **CST 410 - Special Topics in Old Testament**

**Units:** 3

**When Offered:** As offered

An examination of specific area(s) of Old Testament study.

**Repeatable:** May be repeated for credit with change in topic

**Grade Type:** Letter Grade

**Prerequisite(s):** Previous Old Testament coursework

### **CST 411 - Special Topics in New Testament**

**Units:** 3

**When Offered:** As offered

An examination of specific area(s) of New Testament study.

**Repeatable:** May be repeated for credit with change in topic

**Grade Type:** Letter Grade

**Prerequisite(s):** Previous New Testament coursework

### **CST 412 - Special Topics in Theology**

**Units:** 3

**When Offered:** As offered

An examination of specific area(s) of Theology.

**Repeatable:** May be repeated for credit with change in topic

**Grade Type:** Letter Grade

**Prerequisite(s):** Previous Theology coursework

### **CST 413 - Special Topics in Church History**

**Units:** 3

**When Offered:** As offered

An examination of specific area(s) of Church History.

**Repeatable:** May be repeated for credit with change in topic

**Grade Type:** Letter Grade

**Prerequisite(s):** Previous Church History coursework

### **CST 414 - Special Topics in Christian Ministry**

**Units: 3**

**When Offered:** As offered

An examination of specific area(s) of Christian Ministry.

**Repeatable:** May be repeated for credit with change in topic

**Grade Type:** Letter Grade

**Prerequisite(s):** Previous Christian Ministry coursework

## **CST 425 - Christian Social Ethics**

**Units: 3**

**When Offered:** Fall & Online

This course will explore perennial social ethics issues as they relate to Christian faith and life. Topics include key social problems, the Church's historical responses to those issues, and the biblical teachings with regard to core Christian doctrines (e.g., creation, fall, redemption, image of God, neighbor love). Standard models of Christian engagement in society with respect to the individual believer, the local church, and the global Christian Church will also be considered.

**Grade Type:** Letter Grade

**Prerequisite(s):** 3 units of Biblical Studies coursework

## **CST 451 - Biblical Preaching**

**Units: 3**

**When Offered:** Spring & Online

A study of the basic principles for preparing and delivering biblical sermons, with an emphasis on the writing, delivery, and analysis of expository sermons.

**Grade Type:** Letter Grade

**Prerequisite(s):** Previous Biblical Studies coursework

## **CST 460 - Biblical Theology**

**Units: 3**

**When Offered:** Online

An introduction to the Bible's theological and canonical formation, major themes, and overall story with a specific emphasis on the relationship between the Testaments.

**Grade Type:** Letter Grade

## **CST 480 - Pastoral Ministry and Leadership**

**Units: 3**

**When Offered:** Online

A study of the practical duties of the modern pastor, with emphasis given to problems arising in the performance of regular pastoral duties as well as those created by the environment.

**Grade Type:** Letter Grade

## **CST 490 - Supervised Ministry**

**Units: 3**

**When Offered:** As offered

A course of supervised in-service training in a local church. Active participation in Christian ministry is expected (minimum 9 hours weekly) under supervision of a Field Supervisor.

**Grade Type:** Pass/Fail

**Prerequisite(s):** Junior or Senior status, and permission of the Dean

## **CST 491 - International Missions Practicum**

**Units:** 3

**When Offered:** Spring, Summer

Allowing Christian Studies credit for participation in International Service Projects, an extended missions experience designed to acquaint students with the implementation of mission principles in an international context. No more than three (3) units may apply to general education.

**Repeatable:** May be repeated one (1) time for credit with change in topic

**Grade Type:** Pass/Fail

**Prerequisite(s):** Permission of the Dean

## **Communication Sciences and Disorders**

### **CDS 101 - Introduction to Communication Disorders**

**Units:** 3

**When Offered:** Fall, Spring

This is an introductory course that is designed to meet the requirements of the American Speech-Language-Hearing Association's (ASHA) knowledge standards in the areas of normal processes, communication disorders, and clinical application. Students will demonstrate a basic knowledge of common speech, language, and hearing disorders, including etiologies, characteristics, prevention, assessment, and intervention.

**Grade Type:** Letter Grade

### **CDS 230 - Phonetics**

**Units:** 3

**When Offered:** Fall, Spring

Phonetics is the study of the sounds that make up language. Both phonetic theory and practical phonetic analysis will be studied. Students in this course will learn how to transcribe English (and some non-English) sounds using the International Phonetic Alphabet. They will also learn how the sounds of language are produced and how to use software that generates sonograms - visual representations of the sounds. The analysis of sonograms is a useful clinical as well as prominent research tool.

**Grade Type:** Letter Grade

**Prerequisite(s):** CDS 101

### **CDS 240 - Speech and Hearing Anatomy and Physiology**

**Units:** 3

**When Offered:** Fall, Spring

This course introduces students to the anatomy and physiology relevant to the production of speech, perception of sound, and swallowing process. Students will learn the structures, muscles and functions of respiration, phonation, articulation, sound perception, and swallowing. This knowledge of normal human anatomy and physiology is the foundation upon which the study of speech, hearing and swallowing disorders is built.

**Grade Type:** Letter Grade

**Prerequisite(s):** BIO 153

### **CDS 250 - Typical and Atypical Language Development**

**Units: 3**

**When Offered:** Fall, Spring

This course is designed to provide undergraduate students a thorough understanding of language development from birth through adulthood. Students will first learn the cognitive, motor, perceptual, and social bases of language, and how development in these domains influences language development. Students learn the domains of language and how these domains interrelate to form a complete language system. Finally, language development through school-age, adolescence and adulthood will be covered, including literacy development.

**Grade Type:** Letter Grade

## **CDS 310 - Introduction to Audiology**

**Units: 3**

**When Offered:** Fall, Spring

This course introduces students to the profession of audiology and provides an overview of auditory function and the basic principles of audiologic assessment.

**Grade Type:** Letter Grade

## **CDS 320 - Aural Rehabilitation**

**Units: 3**

**When Offered:** Fall, Spring

In this course students will study the effects of hearing loss on perceptual, cognitive, communicative, educational, occupational, social, and emotional aspects of life for all age ranges. Students will be able to identify common intervention techniques and build proficiency in the application of assessment tools, and developing recommendations for rehabilitation for infants through adults.

**Grade Type:** Letter Grade

**Prerequisite(s):** CDS 310

## **CDS 330 - Speech Hearing Sciences**

**Units: 3**

**When Offered:** Fall, Spring

This course provides a brief review of the anatomy and acoustics relevant to the production of speech and perception of sound. Students will then learn the scientific principles driving the processes of respiration, phonation, articulation, and sound perception. This course explores many scientific concepts and theories that explain how humans produce and perceive speech. Clinical measures and imaging techniques of respiration, phonation, articulation, hearing, and brain function will be covered. Clinical application of concepts and theories will be covered heavily.

**Grade Type:** Letter Grade

**Prerequisite(s):** CDS 230 and 240

## **CDS 340 - Clinical Methods and Procedures**

**Units: 3**

**When Offered:** Fall, Spring

This is a comprehensive course that will prepare students for clinical practicum courses and, ultimately, clinical practice. Students will learn the entire clinical practice, including taking and giving referrals, taking case histories, assessing/ treating patients, and writing documentation. Students will also learn coding and billing for private insurance, Medicaid and Medicare. Navigating ethical issues, protecting PHI, maintaining licensure, establishing professional networks, and managing a case load will also be covered.

**Grade Type:** Letter Grade

**Prerequisite(s):** CDS 250

## **CDS 400 - Special Topics in Communication Disorders**

**Units: 3**

**When Offered:** As offered

This course will teach advanced topics in specialized communication disorders areas such as articulation, fluency, voice and resonance, receptive and expressive language, hearing, swallowing, cognitive aspects, social aspects, and communication modalities. The specific topic will be announced each semester offered.

**Repeatable:** May be repeated for a maximum of twelve (12) units with change in topic

**Grade Type:** Letter Grade

**Prerequisite(s):** CDS 101 and 230

## **CDS 405 - Fluency Disorders**

**Units: 3**

**When Offered:** Fall, Spring

The course will cover the nature, theories, etiology, assessment and management of fluency disorders from preschool children through adults. Students will also be introduced to etiologies, assessment and management of neurogenic dysfluency. Students will be introduced to application of various assessment and treatment strategies with clients across the age span and across settings.

**Grade Type:** Letter Grade

**Prerequisite(s):** CDS 240

## **CDS 410 - Language Disorders in Children**

**Units: 3**

**When Offered:** Fall, Spring

This course is designed to provide undergraduate students an introduction to language disorders in young and school-age children. Students learn receptive and expressive language development and disorders in children, analysis of the components of language and how each component is involved in language disorders. This course covers the basic principles of language assessment and intervention, and the unique presentations and treatments for various sub-groups of children with language impairment.

**Grade Type:** Letter Grade

**Prerequisite(s):** CDS 250

## **CDS 420 - Articulation and Phonological Disorders**

**Units: 3**

**When Offered:** Fall, Spring

The purpose of this course is to provide speech development of typical and atypical children and theoretical bases of phonology and phonetics describing speech sound disorders. Students will learn the basics of assessment and treatment in articulation and phonological disorders. Students will learn about various aspects of articulation and phonological disorders including anatomy and physiology of articulation, characteristics of different kinds of speech production disorders, phonetic and phonemic assessment and treatment approaches.

**Grade Type:** Letter Grade

**Prerequisite(s):** CDS 230

## **CDS 430 - Neurogenic and Neurological Disorders**

**Units: 3**

**When Offered:** Fall, Spring

This is an introductory level course designed to acquaint students with the basics of neuroanatomy and



neurophysiology and related communication disorders. Students will learn the etiologies, symptoms and treatment methods for the aphasias, RHD, apraxia, dysarthria, TBI and dementias. Effective counseling methods for this population of patients and their families will also be covered.

**Grade Type:** Letter Grade

**Prerequisite(s):** CDS 240

## **CDS 440 - Voice and Craniofacial Disorders**

**Units:** 3

**When Offered:** Fall, Spring

This course will begin with a brief review of the anatomy and physiology of the head and neck. Students will then learn about underlying conditions that cause structural communication disorders including but not limited to vocal fold pathology and craniofacial disorders. Students will be introduced to assessment and management of the speech, voice and resonance disorders that occur in structural communication disorders.

**Grade Type:** Letter Grade

**Prerequisite(s):** CDS 240

## **CDS 491 - Internship in Communication Disorders**

**Units:** 1-4

**When Offered:** As offered

Under the advisement of a faculty member and supervision of communication disorders profession, the student will work or otherwise actively participate in a community-based communication disorders setting.

**Repeatable:** May be repeated for a maximum of six (6) units

**Grade Type:** Letter Grade

**Prerequisite(s):** Communications Disorders major, and Junior or Senior status

## **CDS 495 - Speech Language Pathology Assistant Clinical Practicum**

**Units:** 3

**When Offered:** Fall, Spring

The course has a three-fold objective: 1) to provide a minimum of 126 hours of supervised undergraduate clinical practicum; 2) to provide students with understanding of the scope of roles and responsibilities, laws and regulations, ethics, and other related issues of employment as a Speech-Language Pathology Assistant; 3) to self-review and assess their attainment of professional experience in the College of Health Science.

**Grade Type:** Letter Grade

**Fee:** Additional clinical practicum fee

**Prerequisite(s):** CDS 340, 410, 420, and permission of the Department Chair

## **Communication Studies**

### **COM 113 - Oral Communication**

**Units:** 3

**When Offered:** Fall, Spring, & Online

This course is designed to introduce the process of public communication and to help develop and refine the skills of oral communication.

**Grade Type:** Letter Grade

### **COM 200 - Special Topics in Communication Studies**

**Units: 3**

**When Offered:** As offered

Concentration upon a specific topic in the field of communication arts. Topic varies for different semesters.

**Repeatable:** May be repeated for credit with change in topic

**Grade Type:** Letter Grade

## **COM 210 - Forensic Workshop**

**Units: 1-3**

**When Offered:** Fall, Spring

A participation class in forensics. Students compete in intercollegiate events. Majors may take a maximum of eight (8) units as part of the Communications Program. Communications minors may take a maximum of four (4) units. Students should consult their advisor in the Communication Arts Department to determine how many units per semester are allowed since the program is offered on a continuing basis.

**Grade Type:** Letter Grade

## **COM 250 - Introduction to Communication Studies**

**Units: 3**

**When Offered:** Online

An introduction to the basic concepts of communication and skills necessary to communicate in a variety of contexts. Emphasis on communication traditions, views, and techniques are used in interpersonal, group, public, intercultural, and mass communication situations.

**Grade Type:** Letter Grade

## **COM 306 - Small Group Communication**

**Units: 3**

**When Offered:** Fall & Online

This course examines the dynamics in communication within small groups. Students will learn effective critical thinking and problem solving skills for use when working in small groups.

**Grade Type:** Letter Grade

## **COM 308 - Interpersonal Communications**

**Units: 3**

**When Offered:** Fall, Spring & Online

This class examines the dynamics of the two-person communication process. Students will study the development of self-concept, self-disclosure, perception, listening, and feedback as they affect the communication process. Non-verbal communication, attitudes, beliefs, and values will also be explored.

## **COM 333 - Oral Interpretation and Readers Theatre**

**Units: 3**

**When Offered:** Spring & Online

Analysis and oral presentation of literature in a way that is vivid, compelling, and dramatic. This class will help the student to perfect skills in dramatic reading, reading of scripture, and finding and preparing literature for oral presentation.

**Grade Type:** Letter Grade

## **COM 340 - Rhetoric and Persuasion**

**Units: 3****When Offered:** Spring & Online

This course is designed to develop advanced analysis of communication artifacts using theories of rhetoric and persuasion. The course discusses and makes use of rhetorical theorists from classical and contemporary traditions through the lens of compliance gaining. A focus will be on understanding human persuasion in everyday life, as well as in scholarly perspective.

**Grade Type:** Letter Grade

## **COM 375 - Legal, Ethical, and Social Foundations of Communication**

**Units: 3****When Offered:** Online

Explores philosophical and theoretical foundations of ethics in communication and public relations. Emphasis is placed on rhetorical, cultural, interpersonal, and organizational contexts of communication studies. Ethical dilemmas in communication studies and public relations are analyzed from a Christian worldview and theoretical perspective.

**Grade Type:** Letter Grade

## **COM 399 - Independent Study**

**Units: 3****When Offered:** As offered

An opportunity for students who have demonstrated the ability to do independent work to pursue in depth a topic of particular interest.

**Grade Type:** Letter Grade

## **COM 400 - Special Topics in Communication Studies**

**Units: 3****When Offered:** Fall, Spring

Concentration upon a specific topic in the field of communication arts. Topic varies for different semesters.

**Repeatable:** May be repeated for credit with change in topic**Grade Type:** Letter Grade

## **COM 401 - Argumentation and Debate**

**Units: 1-3****When Offered:** Fall

A study of the principles and models of argumentation and debate, the basic theories, strategies, and processes by which a student may present an effective argument, as well as their application to business and interpersonal communication as well as ministry. The course provides practical experience in forming arguments, defending a position, using evidence to build a case, refutation, and analysis of arguments. Special emphasis given to the principles of Parliamentary Debate. Only three (3) units may be applied to major.

**Repeatable:** May be repeated for a maximum of eight (8) units**Grade Type:** Letter Grade

## **COM 403 - Communication Theory**

**Units: 3****When Offered:** Fall & Online

This course is designed to introduce theories in the academic field of communication studies. The focus of the course will be on recognizing human communication theories in everyday life, and being able to critically examine situations

in multiple cultural contexts based on those theories. Connections will be made between these theories and the prominent theories of related fields.

**Grade Type:** Letter Grade

## **COM 405 - Rhetorical Criticism**

**Units:** 3

**When Offered:** Spring & Online

This course is designed to develop advanced analysis of communication artifacts using rhetorical theory. The course discusses and makes use of rhetorical theorists from classical and contemporary traditions to better understand cultural artifacts from various contexts. Application to various non-communication related fields will be explored.

**Grade Type:** Letter Grade

## **COM 410 - Forensic Workshop**

**Units:** 1-3

**When Offered:** Fall, Spring

A participation class in forensics. Students compete in intercollegiate events. Majors may take a maximum of eight (8) units as part of the Communications Program. Communications minors may take a maximum of four (4) units. Students should consult their advisor in the Communication Arts Department to determine how many units per semester are allowed since the program is offered on a continuing basis.

**Grade Type:** Letter Grade

**Prerequisite(s):** COM 210

## **COM 420 - Strategic Communication and Global Engagement**

**Units:** 3

**When Offered:** Fall (even years) & Online

In this course students will analyze and evaluate the historical, economic, social, cultural, and political forces of globalization in the context of media. A strong focus will be on modern and contemporary world cultures and on current issues in the globalization of media forms and information technologies. Historical contexts and pressures at work within the contested terrain of globalism will be examined. Students will understand the development of global communication and media networks as these have evolved, expanded, and make up globalization. In addition, students will closely examine the role of digital media and global activism.

**Grade Type:** Letter Grade

## **COM 425 - Organizational Communication**

**Units:** 3

**When Offered:** Fall, Spring, & Online

Examination of the nature and process of communication in modern organizations, including theories, change strategies, internal personnel relations, and conflict management, as they relate to organizational cultures.

**Grade Type:** Letter Grade

## **COM 430 - Communication Research and Methods**

**Units:** 3

**When Offered:** Spring (even years) & Online

Explores basic methodologies of communication research, including experiments, surveys, focus groups, field observations, content analysis, and rhetorical and critical analyses. These methodologies and the theoretical and ethical assumptions underpinning them are examined as ways of posing questions and getting answers about human

communication. Each student will write papers based on a research project including problem definition, literature review, data gathering and analysis and reporting.

**Grade Type:** Letter Grade

## **COM 435 - Gender and Communication**

**Units:** 3

**When Offered:** Fall

This class examines gender from both a secular and biblical perspective through an examination of rhetoric, interpersonal communication, and media. Students will learn what gender is, how society and biology impact what gender is, and how gender impacts their own communication and the communication of others.

**Grade Type:** Letter Grade

## **COM 440 - Digital Trends in Communication**

**Units:** 3

**When Offered:** Online

Exploration of emerging trends in digital media, providing an opportunity for students to understand, deploy, and reflect upon digital communication trends. A theoretical survey of past, current, and predicted future trends and research on the impact of these communication technologies.

**Grade Type:** Letter Grade

## **COM 450 - Internship in Communication Studies**

**Units:** 1-3

**When Offered:** Fall, Spring

Under faculty supervision, the student will be assigned to a position, utilizing principles of communication studies acquired and employed throughout their university experience. This internship provides an opportunity for investigating and participating in field experience with a practitioner of the trade, giving depth and breadth to their understanding of communication studies as a whole.

**Grade Type:** Letter Grade

**Prerequisite(s):** Permission of the Department Chair

## **COM 451 - Internship in Communication Studies**

**Units:** 1-3

**When Offered:** Fall, Spring

Under faculty supervision, the student will be assigned to a position, utilizing principles of communication studies acquired and employed throughout their university experience. This internship provides an opportunity for investigating and participating in field experience with a practitioner of the trade, giving depth and breadth to their understanding of communication studies as a whole.

**Grade Type:** Letter Grade

**Prerequisite(s):** COM 450 and permission of the Department Chair

## **COM 485 - Principles of Communication Management and Programming**

**Units:** 3

**When Offered:** Online

This course provides students with an understanding of the communication management and decision-making process in strategic communication. Principles of leadership and management are explored to deepen the understanding of

communication practitioner's role in various organizations to create comprehensive communication programming.

**Grade Type:** Letter Grade

## **Computed Tomography**

### **CTI 425 - Principles of Computed Tomography**

**Units:** 3

**When Offered:** Summer

This course will provide a broad understanding of physics and imaging techniques used in computed tomography (CT). Principles related to data acquisition and image formation are presented along with post processing, display, and archival techniques.

**Grade Type:** Letter Grade

**Pre- or Co- Requisite(s):** RAD 499

### **CTI 475 - Computed Tomography Clinical Practice**

**Units:** 4

**When Offered:** Summer

This course provides the clinical education necessary to become proficient in the skills required of a CT technologist. Each student is required to complete a total of 375 clinical hours and the clinical experience requirements as outlined by the American Registry of Radiologic Technologists (ARRT).

**Grade Type:** Letter Grade

**Pre- or Co- Requisite(s):** CTI 425 and RAD 499

## **Computer Information Systems**

### **CIS 265 - Information Systems Essentials**

**Units:** 3

**When Offered:** Fall, Spring, & Online

This is an introduction to the essential computer software tools used in the modern information society. Students will be introduced to software applications such as word processing, presentations, spreadsheets, databases, and email. Project-based learning activities will provide hands-on experiences for students to practice and apply the skills to real-world situations. Students will integrate these tools in a comprehensive project.

**Grade Type:** Letter Grade

### **CIS 268 - Computer Programming Languages**

**Units:** 3

**When Offered:** Spring

In this course concepts of computer programming languages are presented. Attention is given to the common constructs of programming languages as well as a structured approach to program development. The programming language may change from semester to semester.

**Grade Type:** Letter Grade

### **CIS 270 - Business IT Application**

**Units:** 3

**When Offered:** Fall, Spring, & Online

This course develops essential math and computer skills necessary in today's market and business environment. Students will learn and practice the Microsoft Office suite application packages: Word, Excel, and PowerPoint. They will build essential math skills that support upper division requirements and integrate with computer software applications. Students will take the examination and have the opportunity to earn the Microsoft Office Specialist (MOS) Excel Analyst certification and digital badge.

**Grade Type:** Letter Grade

**Fee:** Additional course fee

## **CIS 465 - Essentials of Geographic Information Systems**

**Units:** 3

**When Offered:** Fall

The course provides an overview of the theoretical foundation and applied use of Geographic Information Systems (GIS). At the conclusion of the course, students will have working knowledge of GIS and their appropriate application in various disciplines and organizational settings. The historical development of innovative and collaborative geographic information tools that assist with managing the challenges associated with positional data will also be introduced. Students will demonstrate acquired knowledge via application of the fundamental and principal concepts of geographical information systems by completing a series of lab assignments and a culminating research project.

**Grade Type:** Letter Grade

## **Computer Information Technology**

### **CIT 320 - Enterprise Architecture**

**Units:** 3

**When Offered:** Online

Alignment of business and technology models is a tactical business objective that supports all business strategies meant to improve the value chain in service-driven organizations. The focus of enterprise architectures is to facilitate this alignment by identifying the main components of an organization or a sub-set of it (such as its information systems), and the ways in which these components work together. The components include staff, business processes, technology, information, as well as financial and other resources. This course gives an introduction to enterprise architecture frameworks (EAFS) that may be used to catalog and document enterprise components to help inform, guide, and constrain choices in business, IS or IT solutions development.

**Grade Type:** Letter Grade

### **CIT 330 - Project Management**

**Units:** 3

**When Offered:** Online

The students will learn the theoretical and practical aspects of project management. Topics include organizational theory, group behavior, project management skills, case studies, personal and group productivity tools, management of distributed work, stakeholders, consultants, and knowledge management. Students will also learn software development team configuration and maintenance; software project documentation; communication in a software project (reporting and presentations); project management tools; advanced life cycle models; measurement, metrics and control; testing; systems integration; maintenance; systems development automation.

**Grade Type:** Letter Grade

### **CIT 340 - System Analysis and Design**

**Units:** 3

**When Offered:** Online

This course begins with business functional analysis and ends with object oriented information systems design. Students are introduced to tools and techniques enabling effective analysis, design and documentation of an information system. The student learns formal methodologies that form the basis of object-oriented systems engineering practices. Models that focus on the articulation of business functions, integrating process, data and behavioral abstractions form the core of formal methods in systems development using the unified modeling language (UML).

**Grade Type:** Letter Grade

## **CIT 350 - Foundations of Information Systems**

**Units:** 3

**When Offered:** Online

This course provides an understanding of information systems and their use in achieving strategic advantage in business practice. This class explores the technology itself, focusing on the primary business application of the technology, what problems it can address, and the organizational importance of these systems for remaining competitive in a global economy. Students will become familiar with the wide range of business processes that must be managed effectively for success. The class demonstrates the many types of information systems supporting business processes and a study of how technology, especially information technology, can be used as an essential component of linking technology policy with corporate strategy and identifying technology options that will ensure the most effective execution of organizational strategy.

**Grade Type:** Letter Grade

## **CIT 360 - Legal and Ethical Practices in Information Technology**

**Units:** 3

**When Offered:** Online

This course offers extensive and topical coverage of the legal, ethical, and societal implications of information technology. Students will learn about issues such as file sharing, infringement of intellectual property, security risks, internet crime, identity theft, employee surveillance, privacy, compliance, social networking, and ethics of IT corporations. Students will gain an excellent foundation in ethical decision making for current and future business managers and IT professionals.

**Grade Type:** Letter Grade

## **CIT 370 - Database Design and Processing**

**Units:** 3

**When Offered:** Online

This course is a comprehensive introduction to data management in organizations. It establishes the data management foundation for the computing major. Topics include conceptual and logical data modeling, entity relationship and relational data modeling, and database design and implementation using the SQL programming language.

**Grade Type:** Letter Grade

## **CIT 380 - Computer and Network Security**

**Units:** 3

**When Offered:** Online

This course will provide the student with the knowledge of modern computer and network security procedures, the ability to recognize attacks, and best practices process countermeasures. Students will also learn how to process the authentication, identification, data secrecy, data integrity, authorization, access control, computer viruses, and general network security procedures. This course will also cover secure e-commerce and applications of public key methods, digital certificates, and credentials.

**Grade Type:** Letter Grade



## **CIT 430 - Python Dev and Data Structures**

**Units: 3**

**When Offered:** Online

This course is an introduction to object-oriented design and data structures using the popular Python programming language. The course covers four major aspects of computing: programming basics, object oriented programming, data structures, and software development life cycle. The level of instruction assumes at least one semester of programming in an object-oriented language C++. Topics include the design of collection classes with polymorphism and inheritance, multiple implementations of collection interfaces, and the analysis of the space/time tradeoffs of different collection implementations (specifically array-based implementations and link-based implementations). Collections covered include sets, lists, stacks, queues, trees, dictionaries, and graphs.

**Grade Type:** Letter Grade

**Prerequisite(s):** EGR 121

## **CIT 440 - Web Application Development**

**Units: 3**

**When Offered:** Online

The course will introduce concepts in programming web application servers. We will study the fundamental architectural elements of programming web sites that produce content dynamically. The primary technology introduced will be java servlets and java server pages (JSPS), but we will also cover the related topics as necessary so that students may build significant applications. Such topics include: http; html and xml; JavaBeans; design patterns (e.g., abstract factories and model-view-controller); tag libraries (JSTL); relational databases (MYSQL and JDBC); object-relation mapping tools; security (including SSL); Ajax; web services (SOAP, WSDL and UDDI); frameworks; internationalization; scalability and performance issues.

**Grade Type:** Letter Grade

## **CIT 450 - E-Commerce Systems Development**

**Units: 3**

**When Offered:** Online

This course introduces students to the fundamentals of microsoft.net framework, the asp.net web development environment, and C# programming. It also covers xml web services, SQL server database and Microsoft web server IIS (internet information services). Students study how to develop powerful web sites and web applications that access databases using dynamic, server-side programming in C#. They also learn how to deploy such applications over various servers.

**Grade Type:** Letter Grade

**Prerequisite(s):** CIT 440

## **CIT 460 - Business Networking**

**Units: 3**

**When Offered:** Online

Provides students with the ability to assess the needs of an organization and select, develop, integrate, and administer the appropriate solution. Specifically, students will be proficient in the technical aspects of a network, including installation, maintenance, monitoring, resource management, user management, and performance issues; have working knowledge in common operating systems including installation, configuration, scripting, user and resource management, troubleshooting and the use of common system utilities; and they will be able to evaluate, analyze, design, manage, administer and troubleshoot networks.

**Grade Type:** Letter Grade

## **CIT 465 - Advanced Business Networking**

**Units: 3**

**When Offered:** Online

In Advanced Business Networking students will acquire the ability to assess the IT needs of an organization and select, develop, integrate, and administer appropriate solutions. Specifically, students will be proficient in the technical aspects of wireless networking, network operating systems, in-depth TCP/IP networking, voice and video over IP, network security, troubleshooting network problems ensuring integrity and availability, and network management.

**Grade Type:** Letter Grade

**Prerequisite(s):** CIT 460

## **CIT 470 - Information Processing Systems**

**Units: 3**

**When Offered:** Online

Today's organizations are complex systems spanning a variety of corporate functions aimed at achieving a range of objectives. Its environment is subject to globalization and to the effects of the "era of information". Its management is therefore exposed to a formidable task of analyzing huge amounts of time-critical information and, nonetheless, it is expected to always make the right decisions at the right times. Conveniently, a range of technologies and products cumulatively known as business intelligence (BI) come to the rescue.

**Grade Type:** Letter Grade

## **Computer Science**

### **CSC 200 - Special Topics**

**Units: 1-4**

**When Offered:** As offered

This course offers a concentration upon a specific topic in the field of computer science. The topic varies by semester.

**Repeatable:** May be repeated for credit with change in topic

**Grade Type:** Letter Grade

### **CSC 311 - Compiler Design and Languages**

**Units: 3**

**When Offered:** Fall

Introduction to concepts and considerations of modern compilers and programming languages. Language translation, types and declaration, and abstraction mechanisms are studied. Both functional and object-oriented programming paradigms are explored through examination of several programming languages.

**Grade Type:** Letter Grade

**Prerequisite(s):** EGR 227

### **CSC 312 - Algorithms**

**Units: 3**

**When Offered:** Spring

Algorithms are the heart of any computer software; they define the procedure for accomplishing a data-intensive task. This course establishes terms and methods for talking about algorithms, examines some of the basic algorithms for sorting, searching and other fundamental tasks, and explores more advanced algorithms in bioinformatics and other fields.

**Grade Type:** Letter Grade

**Prerequisite(s):** EGR 227

## **CSC 313 - Graphics and Visual Computing**

**Units: 3**

**When Offered:** Spring

This course explores issues related to the production and the analysis of imagery and visual representations. Computer graphics are introduced from basic concepts through rendering and animation. Visualization of data is presented. Computer Vision and Image Processing is presented both mathematically and practically with an emphasis on creating image manipulation programs in a high-level language.

**Grade Type:** Letter Grade

**Prerequisite(s):** EGR 227

## **CSC 321 - Web Application Development**

**Units: 3**

**When Offered:** Spring

The design and development of data driven web applications. The integration and exploitation of HTML, JavaScript, server-side programming languages and database technology.

**Grade Type:** Letter Grade

**Prerequisite(s):** EGR 222

## **CSC 322 - Mobile Application Development**

**Units: 3**

**When Offered:** Fall

Investigation of mobile operating systems and associated software development environments. Consideration of unique constraints and techniques for creating software designed for mobile devices. Design and development of several mobile applications targeted at the primary mobile operating systems.

**Grade Type:** Letter Grade

**Prerequisite(s):** EGR 222

## **CSC 323 - Cloud Computing and Application Development**

**Units: 3**

**When Offered:** Spring

Investigation of modern cloud computing platforms and the practice of creating scalable software solutions that utilize essential cloud computing products like serverless computing, serverless key-value NOSQL databases, cloud storage, publisher/subscriber messaging, identity access and permissions management, machine learning (ML) integration, etc.

**Grade Type:** Letter Grade

**Prerequisite(s):** EGR 226

## **CSC 400 - Special Topics**

**Units: 1-4**

**When Offered:** As offered

This course offers a concentration upon a specific topic in the field of computer science. The topic varies by semester.

**Repeatable:** May be repeated for credit with change in topic

**Grade Type:** Letter Grade

## **CSC 411 - Social and Professional Issues in Computing**

**Units: 2****When Offered:** Spring

The Christian worldview provides a framework within which the complicated ethical and social issues of computing can be considered. This course will guide students through an examination of several key ethical questions in computing, using Biblical principles as a guide.

**Grade Type:** Letter Grade**CSC 414 - Theory of Computation****Units: 3****When Offered:** Fall

Computer scientists use hardware and software components to solve problems; this course encompasses the theoretical basics that underlie them. Automata, languages and grammar, language processing, computability and complexity theory will be examined in detail. Important topics will be explored using a combination of conceptual work and coding exercises.

**Grade Type:** Letter Grade**Prerequisite(s):** CSC 311 and EGR 225**CSC 415 - Theory of Computation and Compilers****Units: 3****When Offered:** Fall

Introduction to concepts and considerations of modern compilers and programming languages. Language translation, types and declaration, and abstraction mechanisms are studied. Both functional and object-oriented programming paradigms are explored through examination of several programming languages. Automata, languages and grammar, language processing, computability and complexity theory will be examined in detail. Important topics will be explored using a combination of conceptual work and coding exercises.

**Grade Type:** Letter Grade**Prerequisite(s):** EGR 225 and 227**CSC 421 - Artificial Intelligence****Units: 3****When Offered:** Spring

Artificial Intelligence (AI) is concerned with the design and analysis of autonomous agents that perceive their environment and make rational decisions. This course introduces the basic definitions and issues in Artificial Intelligence and Machine Learning. Students will create reasoning systems in software and explore their capabilities in dealing with new knowledge. Ethical issues in AI will be presented and examined from a Christian perspective.

**Grade Type:** Letter Grade**Prerequisite(s):** EGR 227**CSC 422 - Machine and Deep Learning****Units: 3****When Offered:** Fall

This course covers introductory machine learning topics including supervised and unsupervised learning, linear and logistic regression, support vector machines, neural networks (MLPs, CNNs, RNNs, GANs) and more. Coursework includes instruction and programming assignments in algorithmic implementations and high-level library usage. Students also apply machine learning techniques to a unique research project.

**Grade Type:** Letter Grade**Prerequisite(s):** EGR 121 or CIS 268, and one of the following: EGR 305, MAT 353, STA 144, 310, or one additional, approved statistic course

## **CSC 423 - Data Mining**

**Units: 3**

**When Offered:** Fall

The course commences with an examination of the knowledge discovery process. In particular, the introduction equips students with the strategic thinking skills essential to focus on cutting edge data mining techniques that can be applied in a wide variety of settings, e.g., business, engineering, health care, science, etc. Traditional topics include data mining algorithms and implementation issues, advantages and disadvantages of data mining, and examples of knowledge engineering. Current topics such as ubiquitous, distributed, and spatiotemporal geographic data mining will also be explored. This is a practical hands-on course that culminates in a real-world project implemented via open source tools.

**Grade Type:** Letter Grade

**Prerequisite(s):** EGR 121 or CIS 268, and one of the following: EGR 305, MAT 353, STA 144, 310, or one additional, approved statistics course

## **CSC 424 - Natural Language Processing**

**Units: 3**

**When Offered:** Spring

Natural language is ubiquitous, e.g., humans speak and write to communicate, to transfer information, and to document knowledge. Natural Language Processing (NLP) is an integral component in countless information systems requiring advanced manipulation of natural language. In this class, students will be introduced to NLP starting with the concept of understanding words in context and the need for natural language processing in the business environment. The discussion continues with a detailed study of words and is a foundational framework supporting phonetics and speech synthesis. Subsequent topics include concepts of how words are grouped together to form unique grammatical units. The last part of the course, explores solving real-world NLP problems and deals with two key areas: corpus building, feature engineering, and application development. Course material is presented via theory-based lectures, group discussion, and practical labs-a culminating research project will be individually crafted.

**Grade Type:** Letter Grade

**Prerequisite(s):** EGR 121 or CIS 268, and one of the following: EGR 305, MAT 353, STA 144, 310, or one additional, approved statistics course

## **CSC 431 - Information Security and Computer Forensics**

**Units: 3**

**When Offered:** Fall

This course provides an introduction to the field of Security in computing. Topics include common security standards and policies, cryptography and information security, access controls, attacks and countermeasures, and computer forensics.

**Grade Type:** Letter Grade

**Prerequisite(s):** EGR 222

## **CSC 432 - Network Traffic Analysis**

**Units: 3**

**When Offered:** Spring

This course provides an in-depth look into the fundamentals of packet-switched network traffic analysis at the network layer and above as applied to problems in traffic engineering, economics, security, etc. The course will explore the design and integration of analytic tools and techniques into the fabric of the network including: spatial and temporal anomaly detection, origin-destination matrix estimation, application mix determination, deep-packet inspection, fingerprinting, intrusion detection and insider threat mitigation. Finally, the course covers active defense and offensive methods reliant on traffic analysis. Contains a lab component.

**Grade Type:** Letter Grade

**Prerequisite(s):** CSC 431

## **CSC 433 - Cyber Security Incident Response and Recovery**

**Units:** 3

**When Offered:** Fall

This course provides an in-depth look to define the nature and scope of cyber security incident handling services, including intrusion/incident detection, damage control, service continuity, forensic analysis, service/data restoration, and incident reporting. Material covers policy, planning, operations, and technology issues involved in related cyber incident handling plans; i.e., Business Continuity, Disaster Recovery, and Continuity of Operations. Specific incident types addressed include, natural disasters, denial of service, malicious code, malicious misuse of hardware and firmware, unauthorized access, data compromise and inappropriate use, including insider attacks. Emphasis is given to the detection and analysis of infiltration and exfiltration techniques employed during cyber attacks, thus enabling the incident handler to detect low noise attacks, and to deconstruct particularly insidious attacks. Contains a lab component.

**Grade Type:** Letter Grade

**Prerequisite(s):** CSC 431

## **CSC 434 - Secure System Principles**

**Units:** 3

**When Offered:** Spring

This course provides an advanced course that focuses on key principles of a constructive approach to secure systems. A brief review of operating systems and computer architecture is provided. Major topics include threat characterization and subversion; confinement; fundamental abstractions, principles, and mechanisms, such as reduced complexity, hierarchical relationships, least privilege, hardware protection, resource management and virtualization, software security, secure system composition, mutual suspicion, synchronization, covert and side-channel analysis, secure metadata, secure operational states, usability, and life cycle assurance. Current developments will include advances in security hardware, components, and systems. This course has heavy reliance on software development and implementation.

**Grade Type:** Letter Grade

**Prerequisite(s):** CSC 431

## **Construction Management**

### **CON 105 - Introduction to Construction Management**

**Units:** 3

**When Offered:** Fall

This course will explore fundamental concepts related to the theory and practice of construction management. The course includes an overview of the construction industry, job market, common project management tools, basic materials and methods of construction, risk management challenges, sustainable operations, and leadership skills required to direct a construction company and project activities.

**Grade Type:** Letter Grade

### **CON 205 - Plan Reading and Estimating**

**Units:** 3

**When Offered:** Spring

Plan Reading and Estimating introduces students to construction plan reading and interpretation of residential and

commercial projects. With a basic understanding in plan reading, students will apply estimating processes and learn cost engineering terminologies. Students will learn how to conduct quantity surveys from residential and commercial plans and understand the principles of unit price cost estimating.

**Grade Type:** Letter Grade

## **CON 215 - Computer-Aided Drafting and Design**

**Units:** 3

**When Offered:** Fall

This course introduces students to construction visualization, graphical geometry and analysis in construction, sketching applications, computer-aided design, and fundamentals of building information modeling.

**Grade Type:** Letter Grade

## **CON 310 - Construction Materials and Methods**

**Units:** 3

**When Offered:** Fall

This course explores information about construction materials and methods. The following concepts are presented in this course: (a) site investigation; (b) construction materials characteristics and costs; (c) construction methods; (d) equipment types and uses; and (e) equipment production rates and cost.

**Grade Type:** Letter Grade

## **CON 315 - Building Information Modeling**

**Units:** 3

**When Offered:** Fall, Spring

This course introduces students to the application of Building Information Modeling (BIM), both as a product and a process. BIM is a new approach to the built environment as a building project delivery platform in which digital representation of a building process is used to facilitate the exchange and interoperability of information. This course introduces students to the various benefits of improved design quality, reduction in design errors, improved field productivity, reduction in conflicts, and their associated changes as it relates to manufacturing cost and time.

**Grade Type:** Letter Grade

**Prerequisite(s):** CON 215 or EGR 122

## **CON 325 - Construction Company Financial Management**

**Units:** 3

**When Offered:** Spring

This course introduces students to practices in accounting and financial management for the construction industry. Students analyze and apply concepts related to managerial accounting, project controls, financial statement analysis, work in progress, lending, sureties, risk management, and taxes for construction companies and project teams.

**Grade Type:** Letter Grade

**Prerequisite(s):** ACC 250

## **CON 330 - Construction Safety**

**Units:** 3

**When Offered:** Spring

Introduces students to the various causes of construction accidents and adopted strategies to prevent worksite injuries and illnesses with an emphasis on OSHA standards.

**Grade Type:** Letter Grade

## **CON 340 - Building Structures**

**Units: 3**

**When Offered:** Spring

Building Structures introduces students to the types and nature of structural systems including material basics as it relates to: wood, steel, and concrete.

**Grade Type:** Letter Grade

**Prerequisite(s):** EGR 241

## **CON 350 - Project Delivery, Law and Contracts**

**Units: 3**

**When Offered:** Spring

This course provides fundamental knowledge for the documentation, administration, and successful delivery of construction projects through the application of industry standard project delivery methodologies. The course will also introduce students to various aspects of construction contracts in respect to project delivery, construction law and ethics.

**Grade Type:** Letter Grade

## **CON 415 - Emerging Technologies in Construction**

**Units: 3**

**When Offered:** Spring

This is a project-based course that provides an opportunity for students to apply state-of-the-art technologies to explore solutions to contemporary technological and managerial challenges in the modern construction industry. Students in this course will utilize their knowledge about computerized simulation and modeling technologies such as Building Information Modeling (BIM), scanning technologies, and virtual reality (VR) or augmented reality (AR) technologies to address design and management challenges on construction projects.

**Grade Type:** Letter Grade

**Prerequisite(s):** CON 315

## **CON 430 - Advanced Estimating**

**Units: 3**

**When Offered:** Fall

This course introduces students to advanced concepts in construction estimating/cost engineering, including but not limited to the creation of estimating spreadsheets and application of labor, material and equipment calculations. The use of cost estimating databases, what distinguishes between direct and indirect construction costs, bid proposal preparation and various computer applications.

**Grade Type:** Letter Grade

**Prerequisite(s):** CON 205

## **CON 460 - Construction Planning and Scheduling**

**Units: 3**

**When Offered:** Spring

Construction Planning and Scheduling introduces students to theory and application of construction scheduling to control the acquisition, movement, storage, utilization of workers, material, and equipment with emphasis given to the Critical Path Method (CPM).

**Grade Type:** Letter Grade

**Prerequisite(s):** CON 430



## **CON 470 - Mechanical Electrical and Piping Construction**

**Units: 3**

**When Offered:** Fall

This course advances student knowledge of mechanical, electrical, and piping (MEP) systems in construction. Students examine principles of code, design, and materials and methods related to the MEP trades. Students perform applied MEP exercises related to examination of plans and specifications, requests for information, submittals, shop drawings, clash detection, and construction coordination.

**Grade Type:** Letter Grade

## **Criminal Justice**

### **CJS 113 - Introduction to Criminal Justice**

**Units: 3**

**When Offered:** Fall, Spring, & Online

A survey of the U.S. system of criminal justice. The history and philosophy of criminal justice administration in America, description of its social and political institutions, and overviews of major issues in the discipline are covered.

**Grade Type:** Letter Grade

### **CJS 120 - Firearms**

**Units: 1**

**When Offered:** Fall, Spring

This course offers students an introduction to the basic operation of handguns. The course will include basic shooting skills, firearm ammunition, safety, legal aspects of gun ownership, handgun shooting sports and activities, ballistics, and firearms cleaning and maintenance.

**Grade Type:** Pass/Fail

**Fee:** Additional lab fee

### **CJS 200 - Special Topics**

**Units: 1-3**

**When Offered:** As offered

An examination of a specific issue in the field of Criminal Justice.

**Repeatable:** May be repeated for credit with change in topic

**Grade Type:** Letter Grade

### **CJS 301 - Fundamentals of Criminal Law**

**Units: 3**

**When Offered:** Fall, Spring

Nature of criminal law and its philosophical and historical development; major definitions and concepts; classification of crime; elements of crimes and penalties using California and federal statutes as illustrations; defenses to criminal responsibility; and criminal responsibility.

**Grade Type:** Letter Grade

### **CJS 304 - Ethics for Law Enforcement**

**Units: 3****When Offered:** Online

A traditional exploration of the field of law enforcement ethics, which broadly encompasses the history of justice and theories of morality and ethics from antiquity to the modern age. It will also cover the ethical problems unique to law enforcement such as "shoot - no shoot" scenarios, the use of force in general, racial profiling and hate crimes, opportunities for corruption in the context of the War on Drugs, and various other law enforcement issues.

**Grade Type:** Letter Grade**CJS 321 - Courts and Criminal Procedures****Units: 3****When Offered:** Fall, Spring

A study of the judiciary in the criminal justice system; structure of the California and federal court systems; prosecution; criminal defense, right to counsel; pre-trial release; grand juries; adjudication process; types and rules of evidence; appeals and sentencing.

**Grade Type:** Letter Grade**CJS 331 - Police Systems and Practices****Units: 3****When Offered:** Fall, Spring

An opportunity to analyze the police profession; organization and administration of law enforcement systems; the police role in a democracy; police discretion; police subculture and ethics; police stress; police-community interaction; current and future issues.

**Grade Type:** Letter Grade**CJS 341 - Minorities and the Criminal Justice System****Units: 3****When Offered:** Fall, Spring, & Online

Students will critically examine the charges of direct and indirect institutional racism within the totality of the criminal justice system. Students will also analyze society's response to crime, cultural, economic and political differences.

**Grade Type:** Letter Grade**CJS 350 - Emergency Management****Units: 3****When Offered:** Online

This course will cover the principles of emergency management as practiced in the state of California, as well as the County, State and Federal Government. Chief components of the course are the establishment of protocols and procedures, planning and preparedness, intergovernmental responsibilities, developing a response, and mitigating disasters and recovery.

**Grade Type:** Letter Grade**CJS 355 - Information Management****Units: 3****When Offered:** Online

This course examines the use of technology in the management of criminal justice data and systems. The course studies trends in the use of modern technology in the administration of management and personnel data. Lastly, the course

examines potential unintended consequences of the use of technology in criminal justice management.

**Grade Type:** Letter Grade

## **CJS 360 - Historical Perspectives of Criminal Justice**

**Units:** 3

**When Offered:** Online

The course offers an introduction to the historical study of crime and the administration of justice throughout human history, especially in the United States. The course highlights both changes in criminal behavior and the different ways that societies have sought to deter, punish and rehabilitate.

**Grade Type:** Letter Grade

## **CJS 400 - Special Topics**

**Units:** 1-3

**When Offered:** As offered

An examination of a specific issue in the field of Criminal Justice.

**Repeatable:** May be repeated for credit with change in topic

**Grade Type:** Letter Grade

## **CJS 401 - Crime and Delinquency**

**Units:** 3

**When Offered:** Fall & Online

A study of the traditional and theoretical schools of criminology. Theories relating to individual abnormality and theories relating to cultural influences are examined. Theories of the causes of delinquency and data on delinquent behavior including gangs, minor and major criminal actions, and methods of correction are also covered.

**Grade Type:** Letter Grade

## **CJS 402 - Hate Crime**

**Units:** 3

**When Offered:** Fall

This course explores the problem of hate crime, which can be defined as criminal acts motivated by an extreme bias of hate. The course will focus on hate crimes as a specific type of criminal activity and will address various efforts to prevent these crimes and to hold offenders accountable.

**Grade Type:** Letter Grade

## **CJS 403 - Mass Media, Culture, and Crime**

**Units:** 3

**When Offered:** Spring

This course explores and analyzes the treatment of crime, criminals, victims and the criminal justice system in news, entertainment, and social media. The course attempts to explain changes over time by examining the history of these treatments. Lastly, the course analyzes the real effect of these messages on contemporary life, law, and culture.

**Grade Type:** Letter Grade

## **CJS 421 - Narcotics**

**Units:** 3

**When Offered:** Fall

This course will examine the role of narcotics and drugs in the U.S. criminal justice system and the impact of drugs on crime. This course will address issues related to the history of drugs in society; narcotics' legal and regulatory, social and political context; patterns and drugs of abuse; and strategies of enforcement and rehabilitation.

**Grade Type:** Letter Grade

## **CJS 441 - Fundamentals of Criminal Investigation and Report Writing**

**Units:** 3

**When Offered:** Spring

Students will study investigation theory; collection and preservation of evidence; importance of field notes and offense reports; sources of information; interview and interrogation; use of forensic science; and case and trial preparation.

**Grade Type:** Letter Grade

## **CJS 472 - Terrorism and Homeland Security**

**Units:** 3

**When Offered:** Online

This course will cover the detailed study of terrorism, counter terrorism, terrorist personalities, and terrorist groups, including types, tactics, and trends on a worldwide scale as well as domestically. The course also examines the unique challenges posed by the government's war on terrorism and commitment to homeland security. The issues of prevention, civil liberties, and nation building will be examined.

**Grade Type:** Letter Grade

## **CJS 485 - Methods of Research for Criminal Justice**

**Units:** 3

**When Offered:** Fall & Online

The course examines scientific approaches to the study of criminal justice. Students will learn how to research and study crime using the scientific method. Students will be exposed to various research methods and designs, which will be illustrated with criminological examples and exercises. Finally, the students will calculate and interpret measures of central tendency, dispersion, and association.

**Grade Type:** Letter Grade

## **CJS 496 - Institutional and Community Corrections**

**Units:** 3

**When Offered:** Fall, Spring

This course provides a survey of the historical, philosophical, and legal bases of correctional procedures and institutions and an examination of current problems and innovations. It examines the increasing task of managing persons who have been arraigned or have been sentenced to prisons and various correctional facilities in America. The nature of the institutional environment, issues of community-based policing, and the administrative concerns of safety and efficiency are also included.

**Grade Type:** Letter Grade

## **CJS 497 - Comparative Criminal Justice**

**Units:** 3

**When Offered:** Spring & Online

The functions, institutions, and operations of U.S. and foreign criminal justice systems are compared. Comparisons are made between countries similar to the U.S., such as Canada and Great Britain, as well as those which are quite different, such as Asian or Arabic countries. The underlying concepts of law enforcement, judicial and correctional

processes will be studied in current and historic perspectives.

**Grade Type:** Letter Grade

## **CJS 499 - Senior Project**

**Units:** 3

**When Offered:** Spring

A senior capstone course designed to demonstrate the competence of Criminal Justice majors in the discipline and assess their research and writing skills. The portfolio produced by the student in completion of this project must conform to the departmental guidelines for Senior Projects.

**Grade Type:** Letter Grade

**Prerequisite(s):** CJS 485 and Senior status

## **Cybersecurity**

### **CYB 220 - Security by Design**

**Units:** 3

**When Offered:** Online

This course explores the theoretical and practical aspects of basic security design fundamentals as they relate to the analysis, design, development, and implementation of Information System components. Topics covered include separation of domains, isolation, encapsulation, least privilege, simplicity of design, testing, documentation, minimization of implementation, deployment, maintenance, fail safe defaults, fail secure, modularity, layering, least astonishment, open design, usability, and reverse engineering.

**Grade Type:** Letter Grade

**Prerequisite(s):** EGR 121

### **CYB 390 - Database Security**

**Units:** 3

**When Offered:** Online

This course equips students with a comprehensive knowledge and understanding of how database systems are managed along with the issues and solutions associated with protecting the associated data assets. Topics covered include relational databases, NoSQL databases, object based vs. object oriented, database vulnerabilities, indexing, inference, aggregation, polyinstantiation, hashing and encryption, masking, database access controls, information flow, database security models, SQL Injection, inference and aggregation security issues, and common DBMS vulnerabilities.

**Grade Type:** Letter Grade

**Prerequisite(s):** CIT 380 and STA 144

### **CYB 410 - Defensive Security**

**Units:** 3

**When Offered:** Online

This course explores the theories, concepts, and methodologies related to the analysis and assessment of the cybersecurity needs and vulnerabilities of the organization. Students are equipped with the knowledge of the various options available to mitigate threats within a system. Topics covered include network mapping, network security techniques and components, cryptography, malicious activity detection, countermeasures, trust relationships, defense in Depth (layering), OS and application patching, vulnerability scanning and windows, social engineering, and analytical tools.

**Grade Type:** Letter Grade

**Prerequisite(s):** CIT 380, CYB 220, NAM 320, and STA 144

## **CYB 420 - Offensive Security**

**Units:** 3

**When Offered:** Online

This course equips students with the knowledge and skills necessary to take an offensive position in regards to cybersecurity and the organization. Topics covered include penetration testing, ethical hacking, honeypots, false ports and services, false directories, attacker identification, network entry point notifications, subversion, and tarpitting.

**Grade Type:** Letter Grade

**Prerequisite(s):** CIT 380, CYB 220, NAM 320, and STA 144

## **CYB 430 - Computer Forensics**

**Units:** 3

**When Offered:** Online

This course equips students with the knowledge and skills necessary to successfully navigate the cybersecurity incident response lifecycle. Topics covered include response preparation, incident detection, data collection, data analysis, remediation, and legal compliance.

**Grade Type:** Letter Grade

**Prerequisite(s):** CIT 380, EGR 121, NAM 320, and STA 144

## **CYB 440 - Cybersecurity Management**

**Units:** 3

**When Offered:** Online

This course explores the theories, concepts, and methodologies related to organizational security. Students will be equipped with the knowledge and skills required for success regarding the following topics: component procurement, identity management, risk management, cybersecurity planning, security program management, and security operations.

**Grade Type:** Letter Grade

**Prerequisite(s):** CIT 380

## **CYB 470 - Network Defense**

**Units:** 3

**When Offered:** Online

This course explores the methodologies, tools, and techniques necessary to protect network and communications assets from cyber related threats. Students will be equipped with the knowledge and skills required for success in regards to the following topics: implementing IDS/IPS, implementing firewalls and VPNs, defense in depth, honeypots and honeynets, network monitoring, network traffic analysis, minimizing exposure, network access control, DMZs/proxy servers, network hardening, mission assurance, network policy development and enforcement, network operational procedures, and network attacks.

**Grade Type:** Letter Grade

**Prerequisite(s):** CIT 380, 460, and STA 144

## **CYB 480 - Essential Tenets of Cybersecurity**

**Units:** 3

**When Offered:** Online

This course explores the theoretical and practical aspects of the core tenets of cybersecurity in order to prepare students with the knowledge and skills necessary to secure information resources, perform threat assessments, and mitigate risks. Topics include security and risk management, asset security, security engineering, communications and network

security, identify and access management, security assessment and testing, security operations, and software development security.

**Grade Type:** Letter Grade

**Prerequisite(s):** CYB 410 and 420

## **CYB 495 - Cybersecurity Capstone**

**Units:** 3

**When Offered:** Online

This course provides the opportunity to integrate knowledge and demonstrate skills obtained throughout the program in the form of an enterprise level cybersecurity related project, which involves a risk assessment of an organization's current cybersecurity posture and noting the results in the form of findings, discussion, and recommendations. The course culminates with a final report/paper and presentation.

**Grade Type:** Letter Grade

**Prerequisite(s):** CYB 390, 410, 420, 440, and 470

## **Design**

### **DES 101 - Design Technology Applications I**

**Units:** 3

**When Offered:** Fall, Spring

This is an introduction to the essential computer software tools used in the modern production of information society, with a focus on the workflow and productions native to design oriented tasks utilized in design and allied design professions. Students will be introduced to foundational design software applications - including Adobe Photoshop, Illustrator, and InDesign - and will be introduced to other workflow applications such as word processing, presentations, spreadsheets, databases, and email. Project based learning activities will provide hands-on experiences for student to practice and apply skills to real-world situations.

**Grade Type:** Letter Grade

### **DES 110 - Creativity: Process and Purpose**

**Units:** 3

**When Offered:** Fall, Spring

This course provides an introduction to creativity through discussion and project-based learning. The course provides overview and practice of creative processes (e.g. ideation, research, empathy, proto-typing, etc), in-depth discussion of the theological foundations for creativity, and practice for developing creative habits.

**Grade Type:** Letter Grade

### **DES 200 - Special Topics in Design**

**Units:** 1-3

**When Offered:** As offered

This course will focus on various studio and lecture courses, which explore and present selected topics in design.

**Repeatable:** May be repeated for a maximum of six (6) units with change in topic

**Grade Type:** Letter Grade

### **DES 310 - Creativity: Collaboration and Context**

**Units: 3**

**When Offered:** Fall, Spring

This course builds on a foundational understanding of creativity's process and purpose. The aim of the course is for students to apply these foundations to the act of completing interdisciplinary creative projects in context.

**Grade Type:** Letter Grade

**Fee:** Additional course fee

**Prerequisite(s):** DES 110

## **DES 350 - Fellowship of Faithful Creatives**

**Units: 1**

**When Offered:** Fall, Spring

This course focuses on the intersection of Christian faith and Creative Practice as it relates to the creative person, the creative process, the creative product, and a Christian creative purpose.

**Repeatable:** May be repeated for a maximum of six (6) units

**Grade Type:** Letter Grade

**Fee:** Additional course fee

## **DES 400 - Special Topics in Design**

**Units: 1-3**

**When Offered:** As offered

This course will focus on various studio and lecture courses, which explore and present selected topics in design.

**Repeatable:** May be repeated for a maximum of six (6) units with change in topic

**Grade Type:** Letter Grade

## **DES 491 - Design Internship**

**Units: 1-3**

**When Offered:** As offered

The purpose of this course is to expose students to their respective design profession in a professional office setting, familiarize students with a professional working environment, and prepare students for future employment.

**Repeatable:** May be repeated for a maximum of three (3) units

**Grade Type:** Pass/Fail

## **DES 498 - Portfolio**

**Units: 3**

**When Offered:** Fall, Spring

This is an interdisciplinary course where students will focus on their portfolios and final presentation specific to their industry. Standards in presentation and expectations will be examined to set guidelines for the student's efforts in portfolio building. The goal of this course is for the student to finish with a strong, cohesive and compelling portfolio of student work. This course should focus on presentation beyond the capstone projects required for graduation.

**Grade Type:** Letter Grade

## **Early Childhood Studies**

### **ECH 320 - Infant, Toddler, and Early Childhood Cognitive Development**



**Units: 3**

**When Offered:** Fall & Online

This course describes how the cognitive processes of thought, perception, attention, and problem-solving develop in infants and young children. Students will have the opportunity to explore the value of active learning in the development of knowledge, the specific ways in which children construct knowledge, and the theoretical models that support cognitive development at home and in school.

**Grade Type:** Letter Grade

## **ECH 340 - Infant, Toddler, and Early Childhood Perceptual and Motor Development**

**Units: 3**

**When Offered:** Fall & Online

This course explores the concept of active learning and its importance to children's construction of knowledge through perception and movement, essentials of every learning experience.

**Grade Type:** Letter Grade

## **ECH 350 - Infant, Toddler, and Early Childhood Social and Emotional Development**

**Units: 3**

**When Offered:** Spring & Online

This course introduces students to the process through which a child develops a sense of self within a socio-cultural system. Students will learn the significance of a supportive interpersonal environment for personality development. They will evaluate theories of emotional and personality development in infants and young children. They will describe the effects of social and emotional development on learning.

**Grade Type:** Letter Grade

## **ECH 360 - Early Childhood Curriculum**

**Units: 3**

**When Offered:** Online

This course provides an introduction to the theory and practice of curriculum development in early childhood educational settings. Students will examine the principles involved in planning, implementing and evaluating developmentally appropriate curriculum in all developmental domains. Course content will emphasize the teacher's role in providing educational experiences that foster optimal growth and development of the individual child.

**Grade Type:** Letter Grade

## **ECH 365 - Infant, Toddler, and Early Childhood Assessment including Children with Disabilities**

**Units: 3**

**When Offered:** Spring & Online

Assessment procedures for use with infants, toddlers, and preschool children with disabilities. Includes information on basic assessment issues and concerns, specialized assessment instruments for particular developmental domains, and recommended procedures for assessing young children with mild to moderate disabilities. Students will become familiar with a wide range of assessment approaches and understand how assessment results can be used in curriculum planning and program evaluation for general and special education.

**Grade Type:** Letter Grade

## **ECH 370 - Spiritual Development in Young Children**

**Units: 3**

**When Offered:** Spring & Online

This course will explore spiritual development in young children from a biblical perspective including the role of Scripture in spiritual formation. Students will learn how to facilitate effectively the spiritual growth of children through a comprehensive understanding of the process of spiritual formation.

**Grade Type:** Letter Grade

## **ECH 375 - Early Intervention: Early Childhood Special Education**

**Units: 3**

**When Offered:** Fall & Online

Students will reflect on current trends and research in early intervention, including instructional content and practice for young children with disabilities. Students will apply and synthesize knowledge of early childhood intervention practice and research through analysis of videotapes and case studies as well as field work experiences.

**Grade Type:** Letter Grade

## **ECH 385 - Theories and Models for Understanding Behavior in Young Children with Disabilities**

**Units: 3**

**When Offered:** Spring & Online

Students will examine theories of learning as they apply in special education, particularly as they apply to behavior management in young children with disabilities. Principles of applied behavior analysis will be used in a case study.

**Grade Type:** Letter Grade

## **ECH 395 - Infant, Toddler, and Early Childhood Learning Environments including Children with Disabilities**

**Units: 3**

**When Offered:** Fall & Online

Students will investigate learning environments for young children including home learning, hospital intervention programs, childcare centers, public school environments, and residential programs. They will examine the characteristics of model learning environments and how to plan for non-disabled children as well as children with various types of disabilities.

**Grade Type:** Letter Grade

## **ECH 415 - Consultation and Collaboration in Early Childhood Intervention**

**Units: 3**

**When Offered:** Spring & Online

Students will examine the role of the early childhood intervention specialist as a member of interdisciplinary teams through readings, observations, interviews with professionals and family members. They will acquire skills in working with interdisciplinary team members.

**Grade Type:** Letter Grade

**Prerequisite(s):** Senior status

## **ECH 425 - Low Incidence Disabilities in Young Children**

**Units: 3**

**When Offered:** Fall

Through fieldwork and interaction with professionals from the community, students will become familiar with the

particular needs of young children with low incidence disabilities and their families.

**Grade Type:** Letter Grade

**Prerequisite(s):** Senior status

## **ECH 435 - Cross Cultural Perspectives of Children including Children with Disabilities**

**Units:** 3

**When Offered:** Fall & Online

Students will investigate how issues of culture affect beliefs and relationships among professionals and families with young children including children with disabilities and how multiple perspectives can affect child outcomes. Students will choose an area of interest to investigate using problem-based learning and present the result of their research to class members.

**Grade Type:** Letter Grade

## **ECH 440 - STEM Curriculum Integrated with the Arts**

**Units:** 3

**When Offered:** Spring & Online

This course will provide an introduction to the theory and practice of curriculum development in Pre-K settings with a specific focus on STEM integrated with the Arts. Students will learn how to design, implement and evaluate developmentally appropriate programming (DAP) as well as the educator's responsibility in providing experiences that cultivate development of the whole child.

**Grade Type:** Letter Grade

**Prerequisite(s):** ECH 320, 340, and 350

## **ECH 455 - Research Seminar in Early Childhood including Early Childhood Intervention**

**Units:** 3

**When Offered:** Spring & Online

Students will gain understanding of research in the area of early childhood intervention. Using the topic of inclusion as a focus, students will read and critique research in the areas of special education policy, professionals' beliefs and relationships, family concerns, issues of culture, and child outcomes. In addition, students will write an integrative research review in an area of interest, and they will orally present their review to class members.

**Grade Type:** Letter Grade

**Prerequisite(s):** Senior status

## **ECH 460 - Adult Supervision**

**Units:** 3

**When Offered:** Fall & Online

This course is a study of the methods and principles of supervising teachers, assistant teachers, student teachers, parents and volunteers in early childhood and child development classrooms. Emphasis is on the role of administrators and classroom teachers who function as mentors to new personnel while simultaneously addressing the needs of administrative concerns, other staff, children and parents. Practical experience is attained in verbal and written communication. Attention is given to the role of communication as the conduit for establishing good interpersonal relations. This course is designed to be in alignment with the California Child Development Permit training requirements which state a Master Teacher must have a minimum of two (2) units in adult supervision.

**Grade Type:** Letter Grade

**Prerequisite(s):** ECH 320, 340, and 350

## **ECH 461 - Administration of Early Childhood Programs I**

**Units: 3**

**When Offered:** Fall & Online

This course involves an introduction to management skills and administrative responsibilities pertaining to the successful operation of care and educational environments for early childhood programs. Emphasis is on the administration of programs for infants, toddlers, preschool, and school-age children. Content areas include: child and program development, adult supervision and management, family and community relationships, human resources development, business and fiscal management, and technological skill development. This course satisfies the Child Development Permit Requirement for Site Supervisor and Program Director Levels.

**Grade Type:** Letter Grade

**Pre- or Co- Requisite(s):** ECH 460

## **ECH 462 - Administration of Early Childhood Programs II**

**Units: 3**

**When Offered:** Spring & Online

This course examines the dynamics of management behavior and responsibilities, and the communication process within the organization. It includes the essentials of curriculum design, and its implementation and maintenance through systems of professional staff accountability. Quality program standards are reviewed and their link to professional growth planning and development are addressed. Presented as the foundation for effective management is skill building in leadership, teamwork, time management, sensitivity toward diversity, and advocating for the principles of developmentally appropriate practices. This course satisfies the Child Development Permit Requirement for Site Supervisor and Program Director Levels.

**Grade Type:** Letter Grade

**Prerequisite(s):** ECH 461

## **ECH 495 - Practicum in Early Childhood and Intervention**

**Units: 3**

**When Offered:** Fall

This course is a practicum that includes observation, participation, and teaching in the early childhood setting from birth through transitional kindergarten. Emphasis is on program planning including assessment for children in early childhood education and early childhood intervention. This course meets the requirements of the California Child Development Permit, Core Areas: Child Growth and Development, Child, Family and Community and Programs and Curriculum.

**Grade Type:** Letter Grade

**Prerequisite(s):** Permission of the Dean and Senior status

## **ECH 498 - Early Childhood Studies Portfolio**

**Units: 3**

**When Offered:** Spring

This capstone course serves to assess student learning in the Early Childhood Studies program. Students will draw on their work in early childhood studies classes to provide evidence of developing skills, knowledge and dispositions for becoming an early childhood educator.

**Grade Type:** Letter Grade

**Fee:** Additional portfolio fee

**Prerequisite(s):** Senior status

## **Education**

## **ECH 435G - Cross Cultural Perspectives of Children including Children with Disabilities Global Practicum**

**Units:** 3

**When Offered:** As offered

This course is designed to give students an opportunity for observation, practice, and service in a global context. The field experience will allow students to extend their learning through the designing and implementation of content-specific pedagogy and teaching strategies. Reflective practices will give students the opportunity to assess discipline-specific areas and gain cultural awareness and sensitivity.

**Grade Type:** Letter Grade

**Fee:** Additional trip fee(s)

**Prerequisite(s):** Permission of Dean

## **EDU 101 - Professional Educator Series I: The Student Experience**

**Units:** 1

**When Offered:** Fall

This course introduces future educators to the Elementary Education major at CBU, as well as the teaching profession. The class will focus on developing their professional identities, open-mindedness, empathy and compassion, and legacy/future minded thinking and actions. Additionally, the class will focus on developing a desire for life-long learning, as well as a strengthening their commitments to educating and enriching the lives of children, families, schools, communities and the world.

**Grade Type:** Letter Grade

## **EDU 102 - Professional Educator Series II: The Community Context**

**Units:** 1

**When Offered:** Spring

This course will explore the community context of learning. Specifically, students will learn more about issues of diversity, equity and social justice. This course also includes a service learning component that will address a community-identified concern and need.

**Grade Type:** Letter Grade

**Prerequisite(s):** EDU 101

## **EDU 200 - Special Topics in Education**

**Units:** 3

**When Offered:** As offered

Concentration upon a specific topic in the field of education. Topic varies for different semesters.

**Repeatable:** May be repeated for credit with change in topic

**Grade Type:** Letter Grade

## **EDU 300 - American Public School**

**Units:** 3

**When Offered:** Online

Exploring the educational paradigm historically and philosophically, students survey curriculum practices, teacher effectiveness, learner needs of the public schools, and classroom management to understand the challenges of teaching today. Emphasis is placed upon cultural diversity and a dynamic society.

**Grade Type:** Letter Grade

## **EDU 302 - Growth, Development, and Learning**

**Units: 3**

**When Offered:** Online

This course is a study of human growth and development during the first two decades of life. Emphasis is placed on how teachers apply theoretical foundations of the learning process, cultural forces affecting behavior, testing, grouping of students, and inclusion. A certificate of clearance is required prior to engaging in fieldwork. Prerequisite for all other education courses.

**Grade Type:** Letter Grade

**Fieldwork:** 15 hours required

## **EDU 307 - Technology in the Classroom**

**Units: 2**

**When Offered:** Fall

Students will examine and apply various instructional theories and technologies to enhance student engagement and achievement. Students will demonstrate proficiency in various computer, web, and mobile device applications for the K-12 classroom and evaluate their relative effectiveness in relation to student achievement. A required course for all credential candidates.

**Grade Type:** Letter Grade

## **EDU 341 - The Exceptional Child**

**Units: 3**

**When Offered:** Fall, Spring, & Online

The nature, determinants, adjustments, and problems of persons who have cognitive gifts and talents, cognitive delays, physical disabilities, learning disabilities, and who have emotional or behavior disorders will be studied in conjunction with appropriate educational interventions in the mainstream classroom and other settings. The course will acquaint students with (a) characteristics and needs of children with disabilities that affect learning, (b) methods of assessing disabilities, (c) components of the Individual Education Program (IEP), (d) instructional strategies and material, (e) positive behavior support, (f) special needs of families of learners with disabilities, (g) agencies and professional supporting learners with disabilities, and (h) legislation, including Public Law 94-142, IDEA (Part B and Part H), the American Disabilities Act (ADA), and the Rehabilitation Act of 1973 ("Section 504"), as well as subsequent amendments relevant to special education.

**Grade Type:** Letter Grade

**Fieldwork:** Ten hours of fieldwork is required. A certificate of clearance is required prior to engaging in fieldwork.

## **EDU 399 - Independent Study**

**Units: 3**

**When Offered:** As offered

An opportunity for students who have demonstrated the ability to do independent work to pursue in depth a topic of particular interest.

**Grade Type:** Letter Grade

## **EDU 400 - Special Topics in Education**

**Units: 3**

**When Offered:** As offered

Concentration upon a specific topic in the field of education. Topic varies for different semesters.

**Repeatable:** May be repeated for credit with change in topic

**Grade Type:** Letter Grade

## **EDU 401 - Oral Language Development, Instruction, and Assessment**

**Units:** 3

**When Offered:** Fall

Students will learn all aspects of language development, including syntax, morphology, semantics, phonology, and pragmatics from birth to adulthood. Additionally, students will learn about pedagogical instructional methods to enhance students' receptive and expressive vocabularies. Finally, students will learn how children learn to communicate in general, and in English specifically, while emphasizing individual patterns of communication development and dialectical usage.

**Grade Type:** Letter Grade

**Prerequisite(s):** Pre-Elementary Education major

## **EDU 405 - Teaching Math and Science**

**Units:** 3

**When Offered:** As offered

This course prepares future teachers to meet the California State requirements for the Multiple Subject Credential in math and science and to equip diverse students with knowledge and methodologies necessary for the successful integration and teaching of these subjects. This course consists of the study of current best practice techniques and curriculum development used in teaching mathematics and science in the public schools. Emphasis is placed on effective instructional methods and evaluation procedures. Hours of observation and participation in Math and Science classrooms are required with the purpose of providing students with opportunities to apply methods learned in this course to public school settings.

**Grade Type:** Letter Grade

**Prerequisite(s):** Credential program acceptance and EDU 409

## **EDU 407 - Reading and Writing in the Content Areas**

**Units:** 3

**When Offered:** As offered

Focusing on the attainment of skills as a teacher of literacy, this course requires students to demonstrate content reading and writing competencies, such as determining reading readiness, applying readability formulas, evaluating textbooks, and developing strategies for vocabulary, critical thinking, and comprehension. Focus is placed on the preparation of lessons using PAR: pre-reading, assistance during reading and reflection after reading. Students are also introduced to beginning reader strategies.

**Grade Type:** Letter Grade

**Fieldwork:** 20 hours of fieldwork required

**Prerequisite(s):** Credential program acceptance, EDU 409, 411, and 497

## **EDU 409 - Educational Psychology**

**Units:** 3

**When Offered:** As offered

This course will equip candidates to appraise the relationship between the theories and practices of human development and teaching and learning methods. Specifically, candidates will examine the manner in which world view perspectives of developmental forces impact classroom policies and procedures. The role of assessment in determining student needs and designing appropriate pedagogical strategies will also be emphasized. This course will solidify understanding of the strengths-based approach to making the pedagogical decisions required in the TPA process.

**Grade Type:** Letter Grade

**Fieldwork:** 4 hours of fieldwork is required

## **EDU 410 - Elementary Methods**

**Units:** 3

**When Offered:** Fall

This course examines various research-based instructional techniques, planning strategies, methods, and assessment practices for the elementary schools, both public and private. Ten (10) hours of structured observation is required, equally divided between primary and upper elementary grade classrooms.

**Grade Type:** Letter Grade

**Prerequisite(s):** EDU 409 and 415

## **EDU 411 - Theories and Methods of Teaching Diverse Students**

**Units:** 3

**When Offered:** As offered

This course will equip candidates with the theories and practices connected to working with diverse student populations. Candidates will examine the manner in which societal and cultural forces have impacted current perspectives of equity especially as they relate to special needs and English language learning students. The role of assessment in determining student needs and designing appropriate pedagogical strategies will also be emphasized. This course will solidify understanding of the strengths-based approach to making adaptations required in the TPA process.

**Grade Type:** Letter Grade

**Fieldwork:** 10 hours of fieldwork is required

**Prerequisite(s):** Credential program acceptance, EDU 409, 410, and ETC 407

## **EDU 411G - Theories and Methods for Teaching Diverse Students**

**Units:** 3

**When Offered:** As offered

This course will equip candidates with the theories and practices connected to working with diverse student populations. Candidates will examine the manner in which societal and cultural forces have impacted current perspectives of equity especially as they relate to special needs and English language learning students. The role of assessment in determining student needs and designing appropriate pedagogical strategies will also be emphasized. This course will teach candidates how to implement culturally responsive practices with a strengths-based approach to making adaptations required in the TPA process. Students registered in this section will participate in a global practicum experience during which the skills learned throughout the semester will be applied in an international setting. Students may only earn credit for EDU 411 or EDU 411G.

**Grade Type:** Letter Grade

**Fieldwork:** 10 hours within the semester and extended fieldwork composed of 12 days in the global setting.

**Fee:** Additional course fee

**Prerequisite(s):** Credential program acceptance, EDU 409, 410, and ETC 407, and permission of the Advisor

## **EDU 412 - Teaching Language Arts and Social Studies**

**Units:** 3

**When Offered:** As offered

This course prepares future teachers to meet the California state requirements for the Multiple Subject Credential and to equip students with knowledge and skills necessary for the successful teaching of these subjects. It is a study of the scope, the organization, and the instructional procedures used to teach social studies and language arts. Students learn how to design and develop interdisciplinary units of study, how to write and assess instructional objectives, and how to



organize and integrate social studies and language arts instruction for diverse learners in the public classroom.

**Grade Type:** Letter Grade

**Fieldwork:** 20 hours of fieldwork is required

**Prerequisite(s):** Credential program acceptance, EDU 409, and 411

## **EDU 413 - Disability Studies for General Education Teachers**

**Units:** 3

**When Offered:** Fall

This course will introduce new teachers to the history of disability through the ages, the relevance of current educational policies to inclusion, technology in the inclusive classroom, intersectionality and its influence upon inclusive practices, working with families, and issues of transition from school to the post-school world. Furthermore, students will learn about the ethical framings of disability and strategies for effectively teaching and including students with disabilities in the general education classroom. Grounded in a disability studies framework, this course encourages students to examine their beliefs about disability and the influence of historical and cultural meanings of disability upon their work as teachers. Students will also learn how to create dynamic and inclusive classroom cultures, getting to know students, selecting appropriate instructional, lesson planning and assessment strategies (UDL, MTSS, RTI), co-teaching, IEPs, 504 plans, IDEIA, and promoting an inclusive school culture.

**Grade Type:** Letter Grade

**Prerequisite(s):** EDU 415 and Elementary Education major

## **EDU 415 - Equity and Diversity in American Public Education**

**Units:** 3

**When Offered:** Spring

Students will explore the demographic shifts in American life and schools throughout the late 20th and early 21st centuries, and examine the impact of these shifts on education. This course will equip candidates with the theories and practices connected to working with diverse student populations. Candidates will examine the manner in which societal and cultural forces have impacted current perspectives of equity, especially as they relate to educating children and young adults from diverse cultures, ethnicities, religions and races, children and young adults with learning disabilities and those who are English language learners and/or emergent bilingual students.

**Grade Type:** Letter Grade

**Prerequisite(s):** EDU 102 and Pre-Elementary Education major

## **EDU 415G - Equity and Diversity in American Public Education Global Practicum**

**Units:** 3

**When Offered:** As offered

Students will explore the demographic shifts in American life and schools throughout the late 20th and early 21st centuries, and examine the impact of these shifts on education through a global perspective. This course will equip candidates with the theories and practices connected to working with diverse student populations. Candidates will examine the manner in which societal and cultural forces have impacted current perspectives of equity, especially as they relate to educating children and young adults from diverse cultures, ethnicities, religions and races, children and young adults with learning disabilities and those who are English language learners and/or emergent bilingual students.

**Grade Type:** Letter Grade

**Fee:** Additional course fee

**Prerequisite(s):** EDU 102 and Pre-Elementary Education major

## **EDU 416 - Pedagogical Approaches to Literacy Acquisition**

**Units:** 3

**When Offered:** Spring

This course will focus on pedagogical approaches to emergent through fluent literacy acquisition. Teacher candidates will learn about word recognition (decoding/phonics, sight words, high frequency words, structural analysis), comprehension (explicit/literal, implicit/inferential, and evaluative), vocabulary, spelling, writing and fluency instruction. This course will also examine various research-based assessment practices for elementary school teachers.

**Grade Type:** Letter Grade

**Practicum:** 5 weeks of fieldwork are required

**Prerequisite(s):** EDU 401, 410, and Elementary Education major

## **EDU 416L - Pedagogical Approaches to Literacy Acquisition Lab**

**Units:** 1

**When Offered:** As offered

This course is a one (1) credit lab course that will prepare our multiple subject and education specialist credential candidates for the Reading Instruction Competence Assessment (RICA), which is a state-required exam.

**Grade Type:** Pass/Fail

**Prerequisite(s):** EDU 416

## **EDU 422 - Teaching Social Studies to Diverse Learners**

**Units:** 3

**When Offered:** Spring

This course is a study of the scope, organization and instructional procedures used to teach social studies. Students will learn how to design and develop interdisciplinary units of study, how to write and assess instructional objectives suitable for a diverse student population, and learn how to organize and integrate language arts instruction in the public school classroom. These units and lessons must follow state adopted curriculum standards and frameworks. Various teaching strategies will be demonstrated and experienced during the class periods including SDAIE strategies for English Language Learners. Therefore, students will have a variety of lesson plan models to use in the classroom. Students will work in collaborative groups to complete portions of class work. Each course objective is designed to meet a portion of the Teacher Preparation Expectations for certification in the state of California.

**Grade Type:** Letter Grade

**Fieldwork:** Required and includes 10 hours of fieldwork and participation activities

**Prerequisite(s):** EDU 410 and Elementary Education major

## **EDU 425 - Teaching Math to Diverse Learners**

**Units:** 3

**When Offered:** Spring

Studies the current best practice techniques and curriculum development used in teaching mathematics and science in the public schools. Emphasis is placed on effective instructional methods and evaluation procedures. A minimum of 10 hours of observation and participation in Math elementary classrooms is required with the purpose of providing students with opportunities to apply methods learned in this course to public school settings. This course provides opportunities for candidates to apply and evaluate the theories and methods studies in education coursework through intense fieldwork observation and lesson preparation within the subject areas of mathematics and science. Integrated lesson planning and unit development with appropriate assessment will be a strong component of course content. This course is also designed to provide opportunity to demonstrate the use of critical thinking and informed decision making concerning teaching and learning.

**Grade Type:** Letter Grade

**Prerequisite(s):** EDU 410 and Elementary Education major

## **EDU 435 - Teaching Science to Diverse Learners**

**Units: 3**

**When Offered:** Fall

Studies the current best practice techniques and curriculum development used in teaching science in the public schools. Emphasis is placed on effective instructional methods and evaluation procedures. A minimum of 10 hours of observation and participation in science classrooms is required with the purpose of providing students with opportunities to apply methods learned in this course to public school settings.

**Grade Type:** Letter Grade

**Prerequisite(s):** EDU 410 and Elementary Education major

## **EDU 440 - Classroom Management and Ethics**

**Units: 3**

**When Offered:** As offered

This course explores the context and best practices of teacher ethics and classroom management. The course equips students to navigate the implicit and explicit ethical dilemmas inherent in the routine decisions teachers make every school day in a manner consistent with the profession's code of ethics. The course also equips students with a variety of classroom management and ethics strategies and techniques to optimize the learning environment for all students.

**Grade Type:** Letter Grade

**Fieldwork:** 10 hours of fieldwork is required

**Prerequisite(s):** Credential program acceptance

**Pre- or Co- Requisite(s):** EDU 409

## **EDU 442 - Language Arts and Content Literacy Instruction for Diverse Learners**

**Units: 4**

**When Offered:** Fall

This course is a study of the scope, organization and instructional procedures used to teach language arts/content area literacy, English language learners and students who are struggling with their literacy development. Students will learn how to design and develop interdisciplinary units of study, how to write and assess instructional objectives suitable for a diverse student population, and learn how to organize and integrate language arts instruction in the public school classroom. These units and lessons must follow state adopted curriculum standards and frameworks. Various teaching strategies will be demonstrated and experienced during the class periods including SDAIE strategies for English Language Learners. Students will work in collaborative groups to complete portions of class work. This course focuses on preparing elementary school teacher candidates to identify the challenges and support related to academic language within the content areas. In addition, the course prepares teacher candidates to use content-based literacy strategies (e.g. reading, writing, speaking, and listening) to facilitate learning of content area subject matter for the full range of learners in the classroom. This course will also examine various research-based assessment practices for elementary school teachers.

**Grade Type:** Letter Grade

**Prerequisite(s):** EDU 416 and Elementary Education major

## **EDU 450 - Bilingual Issues and Methods**

**Units: 3**

**When Offered:** As offered

This course provides an in-depth study of the legal, ethical, social, and cultural issues surrounding the field of bilingual education. Students will study and develop methods of delivering academic content in English in order to provide bilingual students with equal access to the curriculum.

**Grade Type:** Letter Grade

## **EDU 451 - Classroom Management and Ethics for Middle and High School Teachers**

**Units: 3**

**When Offered:** Fall, Spring

This course explores the context and best practices of teacher ethics and classroom management in middle and high school settings. The course equips students to navigate the implicit and explicit ethical dilemmas inherent in the routine decisions teachers make every school day in a manner consistent with the profession's code of ethics. The course also equips students with a variety of classroom management and ethics strategies and techniques to optimize the learning environment for all students.

**Grade Type:** Letter Grade

## **EDU 452 - The Exceptional Child in Middle and High School Settings**

**Units: 3**

**When Offered:** Fall, Spring

The nature, determinants, adjustments, and problems of persons with intellectual gifts, intellectual disabilities, physical disabilities, learning disabilities, health problems, and emotional problems will be studied in conjunction with appropriate educational interventions in the general education Middle and High School classroom setting.

**Grade Type:** Letter Grade

## **EDU 481 - Initial Clinical Practice: Preliminary Single Subject Credential**

**Units: 7**

**When Offered:** Fall, Spring

Teacher Candidates will complete an initial clinical experience in a school classroom under the direction of a qualified Mentor Teacher and University Supervisor. This clinical experience requires the teacher candidate to adhere to the hour expectations articulated within the site's teacher contract for the entire placement. The evaluation will be based on California's Teaching Performance Expectations.

**Grade Type:** Pass/Fail

**Prerequisite(s):** Program Director approval

## **EDU 482 - Final Clinical Practice: Preliminary Single Subject Credential**

**Units: 7**

**When Offered:** Fall, Spring

Teacher Candidates will complete final clinical experience in a school classroom under the direction of a qualified Mentor Teacher and University Supervisor. This clinical experience requires the teacher candidate to adhere to the hour expectations articulated within the site's teacher contract for the entire placement. The evaluation will be based on California's Teaching Performance Expectations.

**Grade Type:** Pass/Fail

**Prerequisite(s):** Program Director approval

## **EDU 490 - Subject Area Specialization**

**Units: 3**

**When Offered:** As offered

Working almost exclusively in small groups or one-on-one with the instructor, students focus only on the strategies and methods designed specifically for their subject area. In addition to the hours of observation required, divided equally between middle school and high school, students in this course will teach three mini lessons, which are directly supervised by a master teacher, visit Open house night, sit in on a parent teacher conference, and tutor students.

**Grade Type:** Letter Grade

**Prerequisite(s):** Credential program acceptance, EDU 407, 409, 411, and 497

## **EDU 490E - Subject Area Specialization: English**

**Units: 3**

**When Offered:** As offered

Students learn research-based methodologies that are specific to English content area instruction. Students engage with relevant information from textbooks, experts, and professional journals associated with English and secondary instruction. In addition, students participate in fieldwork hours that take them into both middle and high schools.

**Grade Type:** Letter Grade

**Prerequisite(s):** EDU 407, 409, 411, 497 and permission of the Program Director

## **EDU 490H - Subject Area Specialization: History or Social Science**

**Units: 3**

**When Offered:** As offered

Students learn research-based methodologies that are specific to History or Social Science content area instruction. Students engage with relevant information from textbooks, experts, and professional journals associated with History or Social Science and secondary instruction. In addition, students participate in fieldwork hours that take them into both middle and high schools.

**Grade Type:** Letter Grade

**Prerequisite(s):** EDU 407, 409, 411, 497 and permission of the Program Director

## **EDU 490L - Subject Area Specialization: Health**

**Units: 3**

**When Offered:** As offered

Students learn research-based methodologies that are specific to Health content area instruction. Students engage with relevant information from textbooks, experts, and professional journals associated with Health and secondary instruction. In addition, students participate in fieldwork hours that take them into both middle and high schools.

**Grade Type:** Letter Grade

**Prerequisite(s):** EDU 407, 409, 411, 497 and permission of the Program Director

## **EDU 490M - Subject Area Specialization: Math**

**Units: 3**

**When Offered:** As offered

Students learn research-based methodologies that are specific to Math content area instruction. Students engage with relevant information from textbooks, experts, and professional journals associated with Math and secondary instruction. In addition, students participate in fieldwork hours that take them into both middle and high schools.

**Grade Type:** Letter Grade

**Prerequisite(s):** EDU 407, 409, 411, 497 and permission of the Program Director

## **EDU 490P - Subject Area Specialization: Physical Education**

**Units: 3**

**When Offered:** As offered

Students learn research-based methodologies that are specific to Physical Education content area instruction. Students engage with relevant information from textbooks, experts, and professional journals associated with Physical Education and secondary instruction. In addition, students participate in fieldwork hours that take them into both middle and high schools.

**Grade Type:** Letter Grade

**Prerequisite(s):** EDU 407, 409, 411, 497 and permission of the Program Director

## **EDU 490S - Subject Area Specialization: Science**

**Units: 3**

**When Offered:** As offered

Students learn research-based methodologies that are specific to Science content area instruction. Students engage with relevant information from textbooks, experts, and professional journals associated with Science and secondary instruction. In addition, students participate in fieldwork hours that take them into both middle and high schools.

**Grade Type:** Letter Grade

**Prerequisite(s):** EDU 407, 409, 411, 497 and permission of the Program Director

## **EDU 490U - Subject Area Specialization: Music**

**Units: 3**

**When Offered:** As offered

Students learn research-based methodologies that are specific to Music content area instruction. Students engage with relevant information from textbooks, experts, and professional journals associated with Music and secondary instruction. In addition, students participate in fieldwork hours that take them into both middle and high schools.

**Grade Type:** Letter Grade

**Prerequisite(s):** EDU 407, 409, 411, 497 and permission of the Program Director

## **EDU 490V - Subject Area Specialization: Visual Art**

**Units: 3**

**When Offered:** As offered

Students learn research-based methodologies that are specific to Visual Art content area instruction. Students engage with relevant information from textbooks, experts, and professional journals associated with Visual Art and secondary instruction. In addition, students participate in fieldwork hours that take them into both middle and high schools.

**Grade Type:** Letter Grade

**Prerequisite(s):** EDU 407, 409, 411, 497, and permission of the Program Director

## **EDU 490W - Subject Area Specialization: World Languages (Spanish)**

**Units: 3**

**When Offered:** As offered

Students learn research-based methodologies that are specific to World Languages content area instruction in Spanish. Students engage with relevant information from textbooks, experts, and professional journals associated with Spanish instruction at the secondary level. In addition, students participate in fieldwork hours that take them into both middle and high schools.

**Grade Type:** Letter Grade

**Prerequisite(s):** EDU 497 and permission of the Program Director

## **EDU 497 - Secondary Methods**

**Units: 3**

**When Offered:** As offered

This course examines various research-based instructional techniques, planning strategies, methods, and assessment practices for the secondary schools, both public and private. Structured observation is required, equally divided between the middle school and high school classroom. This course will introduce the California TPA process.

**Grade Type:** Letter Grade

**Prerequisite(s):** Credential program acceptance

**Pre- or Co- Requisite(s):** EDU 409

## **EDU 498 - Student Teaching and Seminar**

**Units: 14**

**When Offered:** As offered

Teaching experience in a school setting under the guidance of a University supervisor with a cooperating teacher in the school. Open to general education or dual credential teacher candidates who have completed the course, testing, and document requirements.

**Grade Type:** Pass/Fail

**Prerequisite(s):** Permission of the Program Director

**Concurrent Requisite(s):** EDU 499

## **EDU 499 - Student Teaching Portfolio**

**Units: 1**

**When Offered:** As offered

Teaching candidates complete the TPA portfolio as a comprehensive assessment of the Teacher Performance Expectations. Students are required to take this course concurrently with EDU 498 - Student Teaching and Seminar.

**Grade Type:** Pass/Fail

**Prerequisite(s):** Permission of the Program Director

**Pre- or Co- Requisite(s):** EDU 498

## **ETC 407 - Technology and Learning**

**Units: 3**

**When Offered:** As offered

Candidates will examine and apply various instructional theories and technologies to enhance student engagement and achievement. Candidates will demonstrate proficiency in various computer, web, and mobile device applications for the K-12 classroom and evaluate their relative effectiveness in relation to student achievement.

**Grade Type:** Letter Grade

## **SPE 430 - Professional Relationships in Middle and High School Settings**

**Units: 3**

**When Offered:** Fall, Spring

This course will focus on the basic aspects of effective collaboration between special education professionals and others involved in the education and care of middle and high school individuals with disabilities, including parents and family members. Special education teachers will acquire methods for effective team building, knowledge of community resources, and advocacy. In addition, candidates will introduce the Individualized Family Service Plan, the Individualized Education Program, and the Individualized Transition Plan.

**Grade Type:** Letter Grade

## **SPE 446 - Applied Behavior Analysis**

**Units: 3**

**When Offered:** As offered

This course focuses on developing an educational approach to supporting positive academic and social behaviors in the classroom and community using the principles of Applied Behavior Analysis (ABA). Specifically, students will be presented with the concepts of reinforcement, punishment, stimulus control, shaping and, fading as they are applied to increasing or decreasing academic and social behaviors. Students will also be presented with information regarding functional assessment, behavior support plans and laws (federal and state) governing behavioral issues related to individuals with special needs.

**Grade Type:** Letter Grade

**Prerequisite(s):** Credential program acceptance, EDU 341, and 409

## **SPE 448 - Technology and Moderate to Severe Disabilities**

**Units:** 3

**When Offered:** As offered

This course discusses the use of technology for education and support of students with moderate to severe disabilities. Particular focus will be placed on students with autism spectrum disorder. Completion of a college level technology course is recommended.

**Grade Type:** Letter Grade

**Prerequisite(s):** Credential program acceptance, EDU 341, and 409

## **SPE 455 - Consultation, Collaboration, and Effective Interventions**

**Units:** 3

**When Offered:** As offered

This course will focus on the basic aspects of effective communication between special education professionals and others involved in the education and care of individuals with disabilities, including parents and family members. Special education teachers will acquire methods for effective team-building, knowledge of community resources, and advocacy. They will learn how to promote self-advocacy for persons in special education.

**Grade Type:** Letter Grade

**Fieldwork:** 10 hours of fieldwork required

**Prerequisite(s):** Credential program acceptance, EDU 341, and 409

## **SPE 458 - Assessment and Interventions**

**Units:** 4

**When Offered:** As offered

This course will provide candidates with an advanced theoretical foundation related to the distinct characteristics of mild/moderate disabilities. Candidates will use information regarding characteristics of individuals with mild/moderate service needs to develop instructional interventions that honor and support the unique characteristics of these individuals. The course consists of three components: (a) a clinical component in which CBU candidates will work directly with elementary students on a regular basis; (b) a face-to-face component in which CBU candidates engage in the course content directly with the professor unless otherwise specified; (c) an online component in which CBU candidates engage in online learning experiences designed to introduce, reinforce, or expand the candidates knowledge and skills.

**Grade Type:** Letter Grade

**Prerequisite(s):** Credential program acceptance, EDU 341, and 409

## **SPE 468 - Teaching Students with Moderate to Severe Disabilities: Instructional Strategies**

**Units:** 3

**When Offered:** As offered

Instructional strategies for students with moderate/severe disabilities. Includes assessment, curriculum adaptations, curriculum delivery, and program evaluation. Topics include functional academics, communication skills, behavioral issues, and accessing the core curriculum.

**Grade Type:** Letter Grade

**Prerequisite(s):** Credential program acceptance, EDU 341, and 409



## **SPE 469 - Teaching Students with Moderate to Severe Disabilities: Community Integration**

**Units:** 3

**When Offered:** As offered

Integrating students with moderate or severe disabilities into the community. Includes social networks, social skills, community based instruction, movement, mobility, and specialized health care.

**Grade Type:** Letter Grade

**Prerequisite(s):** Credential program acceptance, EDU 341, and 409

## **SPE 490 - Diagnostic and Remedial Techniques in Reading**

**Units:** 4

**When Offered:** As offered

This course will focus on the various causes of reading disabilities, including severe visual and phonological dyslexia; formal and informal methods for diagnosing reading problems; and the application of the results of assessment in IEP design. Instruments such as the Wide Range Achievement Test, Informal Phonics Inventory, Fry's High Frequency Sight Word Test, the Johns Informal Reading Inventory, and the Woodcock Reading Inventory will be covered.

Students will also examine various instructional procedures, strategies, and materials for remediating reading disabilities in students in special education and mainstream classrooms. A clinical practicum is included.

**Grade Type:** Letter Grade

**Prerequisite(s):** Credential program acceptance, EDU 341, 409, and 416

## **SPE 498 - Student Teaching in Special Education**

**Units:** 15

**When Offered:** As offered

Teaching experience in a special education school setting under the guidance of a University supervisor with a cooperating teacher in the school. Open to teacher candidates who have completed the course, testing, and document requirements.

**Grade Type:** Pass/Fail

**Prerequisite(s):** Permission of the Program Director

## **Engineering**

### **EGR 101 - Engineering from a Christian Worldview**

**Units:** 3

**When Offered:** Fall

The course serves as an introduction to the exciting field and vocation of engineering and the value of engineering education. This course includes guest lectures describing various engineering disciplines, team-based introductory projects, community service, and weekly readings that focus on how to be successful as an engineering student. The weekly readings include topics on self-discovery, goal setting, work-life balance, and understanding the teaching/learning process. A course emphasis includes Christian perspectives on purpose, integrity, and service as they relate to the vocation of engineering. This is the first course required of all students considering engineering as a major. Note: This is a required course for Engineering, Computer Science, and Construction Management Majors.

**Grade Type:** Letter Grade

**Pre- or Co- Requisite(s):** ICS 105

### **EGR 102 - Introduction to Engineering Design**

**Units: 4**

**When Offered:** Spring

Introduction to fundamental techniques used in engineering design and analysis. Different models of the design process will be examined. A collaborative team oriented design project will be undertaken.

**Grade Type:** Letter Grade

## **EGR 103 - Engineering Service I**

**Units: 1-3**

**When Offered:** Fall, Spring, Summer

Taking engineering out into the community through service. Activities important to the community will be addressed by teams of engineering students. Intended to stimulate ideas of engineering design classes. 30 hours of service required per unit.

**Repeatable:** May be repeated for credit

**Grade Type:** Letter Grade

**Pre- or Co- Requisite(s):** EGR 101 or 102

## **EGR 106 - Introduction to Engineering Design - Energy Systems**

**Units: 1**

**When Offered:** Spring

A broad overview of fundamentals and applied concepts of energy used in engineering design and analysis. Energy issues related to sources, generation, delivery, conversion, efficiency and the environment will be discussed. Basic design calculation problems dealing with thermodynamics and heat transfer principles will be examined. This course is for the students with approved design experience.

**Grade Type:** Letter Grade

**Prerequisite(s):** Permission of the Department Chair

## **EGR 121 - Introduction to Computer Programming in C++**

**Units: 3**

**When Offered:** Fall, Spring, & Online

Introduction to computer science. Covers problem solving methods and algorithm development, modern programming methodologies, and fundamentals of high-level block structured language using C++.

**Grade Type:** Letter Grade

**Prerequisite(s):** EGR 181 or MAT 115

## **EGR 122 - Visualization Languages I**

**Units: 3**

**When Offered:** Fall, Spring

Engineering is a discipline which requires the effective communication of visual information as part of persuasion or education. Excel (beginning and advanced techniques), and a CAD program will be covered to assist in that process for a real current engineering problem of interest. For example this might include the utilization of solar power in Riverside County to address energy consumption concerns. This course lays the foundation for future courses which have elements of data and information presentation.

**Grade Type:** Letter Grade

## **EGR 124 - Visualization Languages - Excel**

**Units: 1****When Offered:** Fall, Spring

Beginning through advanced level of Excel will be covered to assist real engineering problems and data analysis. This course lays the foundation for future courses which have elements of data and information presentation. This course is for the students with approved AutoCAD course and experience.

**Grade Type:** Letter Grade**Prerequisite(s):** Permission of the Department Chair

## **EGR 181 - Elementary Mathematics for Engineering Applications with Lab**

**Units: 4****When Offered:** Fall

This is a four unit course that prepares the engineering student for EGR 182. There is no prerequisite. This course will include instruction in the following areas: graphs, linear equations, polynomials, factoring, functions, roots and radicals, quadratic equations and inequalities, graphing relations and functions, polynomial and rational functions, inverse, exponential and logarithmic functions, systems of equations and inequalities, matrices and determinants, as well as sequences and series.

**Grade Type:** Letter Grade

## **EGR 182 - Introductory Mathematics for Engineering Applications**

**Units: 4****When Offered:** Fall, Spring

This course will provide an overview of the salient math topics most heavily used in the core sophomore-level engineering courses. These include trigonometry, vectors, complex numbers, sinusoids and harmonic signals, systems of equations and matrices, derivatives, integrals, differential equations and Fourier series within the context of an engineering application. These concepts will be reinforced through extensive examples of their use in the core engineering curriculum. Students may only earn credit for either EGR 182 or EGR 182L.

**Grade Type:** Letter Grade**Prerequisite(s):** EGR 181 or MAT 115

## **EGR 182L - Introductory Mathematics for Engineering Applications Lab**

**Units: 1****When Offered:** Fall, Spring

This lab course will focus on engineering applications of the math topics covered in EGR 182 and MATLAB programming skills. The lab sessions include experiments of mechanical and electric systems involving math topics most heavily used in the core sophomore-level engineering courses, such as algebraic, trigonometry, vectors and complex numbers, sinusoids and harmonic signals, and derivatives. Students may only earn credit for either EGR 182 or EGR 182L.

**Grade Type:** Letter Grade**Prerequisite(s):** Permission of the Department Chair

## **EGR 192 - Engineering Seminar I**

**Units: 1****When Offered:** Fall, Spring

Different speakers of importance to the engineering profession will make presentations. Included are area engineering leaders and professionals as well as nationally recognized contributors to the profession of engineering. A two page '4MAT' response which includes a one page executive summary will be required.

**Grade Type:** Letter Grade

## **EGR 221 - Data Structures**

**Units: 3**

**When Offered:** Spring

Develops discipline in program design, style, debugging, testing. Examines linked data structures, trees, introduction to graphs, and recursion.

**Grade Type:** Letter Grade

**Prerequisite(s):** CIS 268 or EGR 121

## **EGR 222 - Software Engineering**

**Units: 3**

**When Offered:** Fall

Overview of the software development process. Includes requirements, design, construction, and testing of software. Software project planning. Analysis, architecture, and design of software systems using UML. Evaluating designs. Implementing designs using appropriate data structures, frameworks, and APIs.

**Grade Type:** Letter Grade

**Prerequisite(s):** CIS 268 or EGR 121

## **EGR 223 - Software Engineering Approach to Human Computer Interaction**

**Units: 3**

**When Offered:** Spring

Design, implementation and evaluation of user interfaces. Usability engineering. Task analysis, user-centered design, and prototyping. Conceptual models and metaphors for user interfaces.

**Grade Type:** Letter Grade

**Prerequisite(s):** EGR 222

## **EGR 225 - Discrete Structures I**

**Units: 3**

**When Offered:** Fall

Introduces the foundations of discrete mathematics as they apply to computer science, focusing on providing a solid theoretical foundation for further work. Topics include functions, relations, sets, simple proof techniques, Boolean algebra, propositional logic, digital logic, elementary number theory, and the fundamentals of counting.

**Grade Type:** Letter Grade

## **EGR 226 - Operating Systems and Networking**

**Units: 3**

**When Offered:** Spring

Introduces the fundamentals of operating systems including processes, memory, scheduling, input/output together with the basics of networking protocols.

**Grade Type:** Letter Grade

**Prerequisite(s):** EGR 222

## **EGR 227 - Data Structures and Analysis**

**Units: 3**

**When Offered:** Spring

Fundamental data structures for implementation and analysis. Techniques for solving problems by programming.

Analysis for complexity and performance trade-offs. Topics include object oriented design, debugging, abstract data types (ADTs), recursion, big-O notation, interfaces, inheritance, and encapsulation, linked lists, stacks, queues, hash tables, heap, trees, searching, sorting.

**Grade Type:** Letter Grade

**Prerequisite(s):** EGR 222

## **EGR 231 - Circuit Theory I**

**Units:** 4

**When Offered:** Fall

Linear circuit elements, sources, Kirchhoff's laws, mesh and node equations, Thevenin and Norton equivalent circuits, resistive network analysis, sinusoidal steady-state analysis, power, transient analysis of simple circuits.

**Grade Type:** Letter Grade

**Pre- or Co- Requisite(s):** EGR 182 or MAT 245

## **EGR 232 - Circuit Theory II and Design**

**Units:** 4

**When Offered:** Spring

Analysis of networks and systems by transform and state-variable methods, two-port networks, topology, network functions, application of convolution, network synthesis, filter design. An analog design project requiring a written report, poster and presentation will be required.

**Grade Type:** Letter Grade

**Prerequisite(s):** EGR 231

## **EGR 234 - Digital Logic Design**

**Units:** 4

**When Offered:** Fall

Boolean algebra, number systems and representations, analysis and design of combinational and sequential logic circuits, minimization, small and medium scale integrated devices, programmable logic and simulation of digital circuits.

**Grade Type:** Letter Grade

**Prerequisite(s):** MAT 115 or higher

## **EGR 241 - Statics**

**Units:** 3

**When Offered:** Fall, Spring

Study of forces, moments, free-body diagrams, friction, equilibrium, first and second moments of lines, centers of pressure, mass and gravity, and moments of inertia.

**Grade Type:** Letter Grade

**Prerequisite(s):** EGR 182 or MAT 245

## **EGR 242 - Strength of Materials**

**Units:** 3

**When Offered:** Fall, Spring

Introduction of stress and strain, stress transformations, analysis of stresses, strain, and deflections in axial members, beams, and torsional shafts. Analysis of pressure vessels.

**Grade Type:** Letter Grade

**Prerequisite(s):** EGR 241, and either 182 or MAT 245

## **EGR 251 - Surveying**

**Units:** 4

**When Offered:** Fall

A study of the science and art of relative spatial measurements for engineering purposes. Special emphasis is placed on the theory of errors, use of modern surveying instruments, and field practice in transit-tape traversing, leveling and route surveying. In addition, engineering graphing techniques and software are introduced.

**Grade Type:** Letter Grade

## **EGR 252 - Transportation**

**Units:** 3

**When Offered:** As offered

Introduction to transportation engineering with an emphasis on highway design. Topics include transportation demand and planning, aerial photography, environmental impact statements, horizontal and vertical alignment, earthwork, volumes, and design of flexible and rigid pavements.

**Grade Type:** Letter Grade

**Prerequisite(s):** EGR 251 and MAT 255

## **EGR 254 - Materials Engineering**

**Units:** 3

**When Offered:** Spring

Study of the mechanical and physical properties of construction materials. Introduction to concrete mix design. Laboratory experiments include the measurement of strains using mechanical gauges and electrical resistance strain gauges; behavior and failure of ductile and brittle materials subjected to axial or bending forces; introduction to creep, impact and stability of columns. A design project is required, as well as written reports.

**Grade Type:** Letter Grade

## **EGR 256 - Principles of Environmental Engineering and Science**

**Units:** 3

**When Offered:** Spring

Introductory study of environmental engineering principles, including chemistry, microbiology, ecosystems, material and energy balances, nutrient cycles, risk assessment, risk management, sustainability, water treatment, wastewater treatment, air pollution, solid and hazardous waste, noise pollution, and radiation protection.

**Grade Type:** Letter Grade

**Prerequisite(s):** CHE 112, or both 115 and 115L

## **EGR 261 - Fundamentals of Bioengineering I**

**Units:** 3

**When Offered:** Fall

The two semester "Fundamentals of Bioengineering" course sequence introduces students to the broad field of Bioengineering and to principles, some basic engineering skills and techniques used in the profession. The course introduces broad topics in cellular and physiological principles and diverse biomedical engineering fields such as bioinstrumentation, bioimaging, biomechanics, biomaterials, and biomolecular engineering.

**Grade Type:** Letter Grade

**Prerequisite(s):** EGR 182 or MAT 245

## **EGR 262 - Fundamentals of Bioengineering II**

**Units:** 3

**When Offered:** Spring

This course is a continuation of EGR 261 with application emphasis, by covering biomechanical, bioelectrical, physiological and computer modeling aspects of the field. The course covers some of the mechanical, computer modeling and electrical aspects of the field, particularly as related to the human cardiovascular system.

**Grade Type:** Letter Grade

**Prerequisite(s):** EGR 261

## **EGR 263 - Introduction to 3D Computer Aided Design**

**Units:** 2

**When Offered:** Fall

This course introduces students to three dimensional (3D) computer aided design (CAD) using Solidworks software. Students will learn to create sketches, extrusions, revolutions, and holes. Design considerations for 3D printing and/or rapid prototyping will be included.

**Grade Type:** Letter Grade

## **EGR 271 - Basic Principles and Calculations in Chemical Engineering I**

**Units:** 2

**When Offered:** Fall

An introduction to concepts used in chemical engineering calculations including chemical process variables and conservation principles of mass applied to various chemical systems.

**Grade Type:** Letter Grade

**Prerequisite(s):** MAT 245

**Pre- or Co- Requisite(s):** CHE 115 and 115L

## **EGR 272 - Basic Principles and Calculations in Chemical Engineering II**

**Units:** 2

**When Offered:** Spring

A continuation of EGR 271 - Basic Principles and Calculations in Chemical Engineering I including conservation principles of energy applied to various chemical systems and the application of basic thermodynamic principles.

**Grade Type:** Letter Grade

**Prerequisite(s):** EGR 271

**Pre- or Co- Requisite(s):** CHE 125 and 125L

## **EGR 281 - Introduction to Industrial and Systems Engineering**

**Units:** 3

**When Offered:** Fall

Gateway to the Bachelor of Science in Industrial and Systems Engineering. A combination of plant tours, laboratory experiences, and lecture are used to introduce the philosophy, subject matter, aims, goals, and techniques of industrial and systems engineering.

**Grade Type:** Letter Grade

## **EGR 291 - Special Topics or Research Project**

**Units: 1-3**

**When Offered:** Fall

This special registration permits the completion of lower division degree requirements for transfer or other students, program requirement changes, or other special circumstances in which students have partial but not full credit toward a specific degree requirement. It also provides the opportunity for recognition of supervised academic experiences that are not included in traditional curriculum. Registration requires approval by the dean and sponsoring faculty member. The determination of degree credits is at the time of registration.

**Grade Type:** Letter Grade

**Prerequisite(s):** EGR 101 and permission of the Dean

## **EGR 296 - Project or Research Experience**

**Units: 0-3**

**When Offered:** Summer

This course provides the opportunity for recognition of supervised academic experiences that are not included in traditional curriculum. Students are provided with the opportunity to work on projects overseen by the faculty in order to gain experience in engineering.

**Repeatable:** May be repeated for a maximum of six (6) units

**Grade Type:** Pass/Fail

**Prerequisite(s):** Permission of the Department Chair

## **EGR 301 - Engineering from a Christian Worldview**

**Units: 3**

**When Offered:** Fall

The course serves as an introduction to the exciting field and vocation of engineering and the value of engineering education. This course includes guest lectures describing various engineering disciplines, team-based introductory projects, community service, and weekly readings that focus on how to be successful as an engineering student. The weekly readings include topics on self-discovery, goal setting, work-life balance, and understanding the teaching/learning process. A course emphasis includes Christian perspectives on purpose, integrity, and service as they relate to the vocation of engineering. This is the first course required of all students considering engineering as a major. Note: This is a required course for Engineering, Computer Science, and Construction Management Majors.

**Grade Type:** Letter Grade

**Pre- or Co- Requisite(s):** ICS 105

## **EGR 302 - Engineering Design and Documentation**

**Units: 3**

**When Offered:** Spring

Team design of industrial or self-designed projects. Requires the design and development of a process or product with oral and written reports. Includes a review and analysis of professional papers.

**Grade Type:** Letter Grade

**Pre- or Co- Requisite(s):** EGR 102 and one of the following: CSC 321, 322, or EGR 305

## **EGR 303 - Engineering Service II**

**Units: 1-3**

**When Offered:** Fall, Spring, Summer

Taking engineering out into the community or a cross cultural setting through service. Intended to stimulate ideas of



engineering design classes could be taken in conjunction with the ISP or study abroad option. Fulfills the requirement of EGR 103 for upper division transfers. 30 hours of service required per unit.

**Repeatable:** May be repeated for credit

**Grade Type:** Letter Grade

**Prerequisite(s):** Junior status

## **EGR 304 - Leadership Cohort**

**Units:** 1

**When Offered:** Spring

Preparation for a lifetime of leadership as an engineer. Small group discussion format, with opportunities for student facilitated discussions. Topics include: leadership in organizations, emotional intelligence, the psychology of small group dynamics and team performance, global perspectives of engineering. Written executive summaries as part of a "4MAT" like response will be required prior to discussion.

**Grade Type:** Letter Grade

**Prerequisite(s):** Permission of the Department Chair

## **EGR 305 - Engineering Statistics**

**Units:** 3

**When Offered:** Fall, Spring

An introduction to the primary statistical and probabilistic models used in the collection and interpretation of engineering data. The focus is on summary techniques, regression models, and application of the central limit theorem, confidence intervals, hypothesis tests, and analysis of variance.

**Grade Type:** Letter Grade

**Prerequisite(s):** MAT 245

## **EGR 306 - Internship Preparation**

**Units:** 1

**When Offered:** Fall

Designed to prepare you for the official internship during your junior summer. Discussion and development of the individual's priorities for their learning contract. Topics include: resume and internship writing, finding an internship, how you will be assessed as an intern, the psychology of the workplace, different types of bosses and working on teams, and the different types of work environment. Junior status required.

**Grade Type:** Letter Grade

## **EGR 321 - Computer Organization**

**Units:** 3

**When Offered:** Fall

Study of organization and structuring of the major hardware and software components of computers. Includes mechanics of information transfer and control within a digital computer system. Introduces machine instruction sets and assembly language programming.

**Grade Type:** Letter Grade

**Prerequisite(s):** EGR 234

## **EGR 322 - Microcontroller System Design**

**Units:** 3

**When Offered:** Spring

Design of hardware and software for embedded systems using a modern microcontroller. Covers hardware interfacing including memory system design, interrupt interfacing, and use of internal and external peripheral devices. Emphasis is placed on assembly language programming of the microcontroller including device drivers, exception and interrupt handling, and interfacing with higher-level languages. Laboratory exercises require assembly language programming and hardware design.

**Grade Type:** Letter Grade

**Prerequisite(s):** EGR 321

## **EGR 323 - Software Requirements and Analysis**

**Units:** 4

**When Offered:** Spring

This course covers techniques for discovering and eliciting requirements using languages and models for representing requirements, analysis, and validation techniques, including need, goal, and use case analysis, requirements in the context of system engineering, and requirements documentation standards. With a focus on traceability, human factors, and requirements management, software change requests become manageable. Quality assurance, verification, inspections, and reviews of the requirements proceed using statistical approaches to quality control.

**Grade Type:** Letter Grade

**Prerequisite(s):** EGR 222

## **EGR 324 - Engineering Economics**

**Units:** 3

**When Offered:** Fall, Spring

Economic concepts of supply, demand, and production; cost-benefit analysis and break-even analysis; return on investment; analysis of options; time value of money; management of money; economic analysis, accounting for risk applied to the engineering process.

**Grade Type:** Letter Grade

**Prerequisite(s):** MAT 245 or STA 144

## **EGR 325 - Database Systems**

**Units:** 3

**When Offered:** Spring

Overview of current database technologies with an emphasis on relational database technology. Introduction to database design, entity relationship diagramming, structured query language, and stored procedures.

**Grade Type:** Letter Grade

**Prerequisite(s):** CIS 268 or EGR 121

## **EGR 326 - Software Design and Architecture**

**Units:** 3

**When Offered:** Spring

An in-depth look at software design. Study of design patterns, frameworks, and architectures. Survey of current middleware architectures. Component based design. Measurement theory and appropriate use of metrics in design. Designing for qualities such as performance, safety, security, reusability, reliability, etc. Measuring internal qualities and complexity of software. Evaluation and evolution of designs. Basics of software evolution, reengineering, and reverse engineering.

**Grade Type:** Letter Grade

**Prerequisite(s):** EGR 327

## **EGR 327 - Software Construction**

**Units: 3**

**When Offered:** Fall

Coverage of software construction fundamentals including minimizing complexity, anticipating change, and constructing for verification. Discussion will include best practices like patterns, object orientated programming and agility. Management of the construction process and accounting for practical considerations will also be examined.

**Grade Type:** Letter Grade

**Prerequisite(s):** EGR 222 and 227

## **EGR 328 - Numerical Methods for Computing**

**Units: 2**

**When Offered:** Spring

The course introduces numerical methods for computing using standard Numerical Libraries. Students will solve matrix equations with decompositions, including LU and QR. The Singular Value Decompositions are covered in depth as the foundation for Natural Language Processing.

**Grade Type:** Letter Grade

**Prerequisite(s):** MAT 255

## **EGR 329 - Computer Architecture**

**Units: 3**

**When Offered:** Fall

Introduces students to the organization and architecture of computer systems, beginning with the standard von Neumann model and then moving forward to more recent architectural concepts. Introduction to assembly language programming.

**Grade Type:** Letter Grade

**Prerequisite(s):** EGR 121 and 225

## **EGR 331 - Signals and Systems**

**Units: 3**

**When Offered:** Fall

Characterization of linear systems by impulse response, convolution, transfer function. Study of linear differential equations and linear difference equations as models. Study of continuous and discrete signals including filters and their effects. Uses transform methods including Fourier series and transforms, FFT, Laplace transforms and Z transforms. Includes computer problems. Assumes familiarity with MATLAB computer software.

**Grade Type:** Letter Grade

**Prerequisite(s):** EGR 232 and MAT 255

## **EGR 332 - Communication Systems**

**Units: 3**

**When Offered:** As offered

Introduction to principles of modern communication systems with an emphasis on digital data transmission. Pulse amplitude and pulse code modulation are covered. Digital techniques of delta modulation and time division multiplexing are presented. The basics of AM, FM, and PM transmitters and receivers are treated along with noise effects, filtering, threshold effects and phase-locked loops. Common carrier, fiber optic, satellite and television systems are outlined. Local and Wide area networks are explored in depth.

**Grade Type:** Letter Grade

**Prerequisite(s):** EGR 331

## **EGR 333 - Electronics I**

**Units:** 3

**When Offered:** Fall

Study of electronic devices and basic circuit configurations. Topics covered include amplifier basics, diodes, field effect transistors, and bipolar junction transistors. Includes lab problems.

**Grade Type:** Letter Grade

**Prerequisite(s):** EGR 232

## **EGR 334 - Electronics II**

**Units:** 3

**When Offered:** As offered

Study of integrated-circuit amplifier design techniques, differential amplifiers, frequency response, feedback, and operational amplifiers. Special topics may include CMOS digital logic circuits, output stages and power amplifiers, filters, and oscillators. Includes lab problems.

**Grade Type:** Letter Grade

**Prerequisite(s):** EGR 333

## **EGR 335 - Data Acquisition, Design and Visualization**

**Units:** 3

**When Offered:** Fall

Design and implementation of computer-assisted data acquisition (DAQ) systems and computer controlled instrumentation. Designs are implemented and visualized as virtual instruments using the LabVIEW Graphical Programming Language.

**Grade Type:** Letter Grade

**Prerequisite(s):** EGR 232

## **EGR 341 - Thermodynamics**

**Units:** 3

**When Offered:** Fall

Thermodynamic properties, heat and work, first and second laws, processes, ideal and nonideal cycles.

**Grade Type:** Letter Grade

**Prerequisite(s):** Both CHE 115 and 115L, and PHY 203, 214, or EGR 272

## **EGR 342 - Fluid Mechanics**

**Units:** 3

**When Offered:** Spring

Introductory concepts of fluid motions, fluid statics, control volume forms and basic principles, and applications basic principles of fluid mechanics to problems in viscous and compressible flow.

**Grade Type:** Letter Grade

**Pre- or Co- Requisite(s):** MAT 342 or 343

## **EGR 343 - Dynamics**

**Units: 3**

**When Offered:** Fall

Kinematics and kinetics of particles and rigid bodies including Newton's Second Law, work energy methods, impulse-momentum, central and oblique impact.

**Grade Type:** Letter Grade

**Prerequisite(s):** EGR 241, MAT 255, and PHY 201

## **EGR 344 - Materials and Manufacturing Processes**

**Units: 4**

**When Offered:** Fall

Properties of the principal families of materials used in mechanical engineering design with an introduction to the manufacturing processes used to convert these materials into finished products. Application of statistics and probability to material properties and manufacturing. Laboratory experiments in strength of materials, property of materials, and manufacturing processes.

**Grade Type:** Letter Grade

**Prerequisite(s):** EGR 242

## **EGR 346 - Machine Design**

**Units: 3**

**When Offered:** Fall

The fundamentals of machine elements in mechanical design. Includes the analysis of components under static and fatigue loadings, and the analysis, properties, and selection of machine elements such as shafts, gears, belts, chains, brakes, clutches, bearings, screw drives and fasteners.

**Grade Type:** Letter Grade

**Prerequisite(s):** EGR 242

## **EGR 351 - Structural Analysis I**

**Units: 3**

**When Offered:** Fall

Application of fundamental analysis concepts to the behavior of civil engineering structures and structural components. Analysis of statically determinate and indeterminate structures using classical methods such as Slope Deflection and Moment Distribution. Introduction to a typical Structural Analysis Computer Programs.

**Grade Type:** Letter Grade

**Prerequisite(s):** EGR 242

## **EGR 352 - Structural Design I**

**Units: 3**

**When Offered:** Spring

Principles of the design of steel structures. Design includes axial tension and compression members, flexural members, beam-columns, connections and composite design. LRFD methods are used.

**Grade Type:** Letter Grade

**Prerequisite(s):** EGR 351

## **EGR 353 - Soil Mechanics**

**Units: 3**

**When Offered:** Fall

The study of index, mechanical and hydraulic properties of soils. Soil identification, compaction, shear strength, consolidation, vertical stress distribution, and flow through porous media. Principles of laboratory identification and testing of soils. Site investigation and in situ testing.

**Grade Type:** Letter Grade

**Prerequisite(s):** EGR 254

## **EGR 354 - Soil and Foundation Engineering**

**Units:** 3

**When Offered:** Spring

A continuation of EGR 353. Lateral earth pressures, retaining wall design, elastic stress distribution, settlement, and bearing capacity of foundation systems. Sizing of shallow and deep foundation systems.

**Grade Type:** Letter Grade

**Prerequisite(s):** EGR 353

## **EGR 355 - Dynamics and Vibration**

**Units:** 3

**When Offered:** Fall

This course covers the topics of kinetics and kinematics of a particle and rigid body. The topics under kinematics and kinetics include: force and acceleration, work and energy, and impulse and momentum. The course also covers free and forced vibrations for undamped and damped systems. On an application level, students work with a computerized model using Matlab/Simulink.

**Grade Type:** Letter Grade

**Prerequisite(s):** EGR 241

## **EGR 356 - Hydrology**

**Units:** 3

**When Offered:** Spring

Introduction to surface and ground water hydrology: hydrologic cycle, precipitation, evaporation, infiltration, groundwater flow, well hydraulics, runoff, rainfall-runoff relationships, uniform flow in open channels, streamflow measurements, hydrologic routing, hydrologic modeling, hydrologic probability, and applications.

**Grade Type:** Letter Grade

**Prerequisite(s):** MAT 245

## **EGR 361 - Introduction to Biomechanics**

**Units:** 3

**When Offered:** Fall

The course introduces biomechanical principles and their application from a quantitative and rehabilitation perspective. Primary topic areas will include kinematics and kinetics of human movement including modern measurement techniques in human movement science. A model-based description of the mechanical behavior of biological tissues and how biomechanical and neural factors interact in human movement will also be introduced. Labs will provide the student with an understanding of fundamental techniques used in biomechanical analyses and rehabilitation engineering design and development.

**Grade Type:** Letter Grade

**Prerequisite(s):** BIO 153 and EGR 242

## **EGR 363 - Biofluid Mechanics and Relevant Technologies**

**Units: 3**

**When Offered:** Fall

Introduces the basic principles of fluid mechanics and applies them to key functions of the human body. Students will learn topics such as Poiseuille flow, Bernoulli's equation, and Ohm's Law analogy and how they relate to cardiovascular physiology, prosthetic heart valves, and aqueous humor dynamics relevant to Glaucoma. Medical Devices and sensors relating to fluid flow will be covered as well as basic Heat Transfer and Thermodynamics. Course includes a weekly laboratory session that includes both hands-on experimental measurements and computer-based numerical modeling of fluid flow using MATLAB.

**Grade Type:** Letter Grade

**Prerequisite(s):** EGR 382, and either 262 or PHY 203

## **EGR 364 - Bioimaging**

**Units: 3**

**When Offered:** Spring

Medical imaging techniques have become important tools for monitoring of diseases and understanding of the molecular aspects of living organisms. This course provides a broad-based overview of major imaging techniques used in biomedical patient care and research. Imaging techniques covered include x-ray, computed tomography (CT), ultrasound, nuclear medicine (PET), and magnetic resonance imaging (MRI). The underlying physics, image formation theories and selected applications are lectured.

**Grade Type:** Letter Grade

**Prerequisite(s):** EGR 382

## **EGR 365 - Biomedical Engineering Research and Instrumentation**

**Units: 3**

**When Offered:** Spring

This course focuses on laboratory research projects and topics of current interest that are not normally covered in other established courses. Students are expected to be actively engaged in the research and design activity by performing experiments, simulations, or related lab tasks and also by conducting literature review for a project. Through participation in experimental/engineering designs, students will learn how to collect and generate data for papers, posters, and presentations to be used in a professional seminar or journal articles. Content varies from year to year, and are determined by both instructor and student interest.

**Grade Type:** Letter Grade

**Pre- or Co- Requisite(s):** EGR 305

## **EGR 367 - Machine Learning for Bioengineering**

**Units: 2**

**When Offered:** Fall

Machine learning uses interdisciplinary principles of linear algebra, statistics, probability theory, optimization techniques, and computer programming to construct useful patterns of data and make accurate predictions. Machine learning is becoming prominent, with various applications in the field of biomedical engineering. This course will introduce students to the fundamental theories and algorithms for machine learning. Through this course, students will explore various machine learning algorithms (Bayesian classification, linear/nonlinear regression, logistic regression, support vector machines, principal component analysis, and deep learning) and learn how to implement them using Python.

**Grade Type:** Letter Grade

**Prerequisite(s):** EGR 262 and 382

## **EGR 371 - Heat and Mass Transport**

**Units: 3**

**When Offered:** Fall

Study of fundamental heat and mass transfer principles including conduction, forced and free convection (including the application of boundary layer concepts), radiation, and diffusion. It will include the analysis and computation of heat transfer, mass transfer, temperature, and concentration profiles in systems with simple geometries. Estimation and use of local and overall heat and mass transfer coefficients will be covered.

**Grade Type:** Letter Grade

**Prerequisite(s):** EGR 272, 342, and MAT 342

## **EGR 372 - Chemical Engineering Thermodynamics**

**Units: 3**

**When Offered:** Spring

The fundamentals and applications of thermodynamic properties and processes with a focus on multi-component systems including phase equilibria, non-ideal solution behavior, and chemical reaction equilibria. Analysis and design of process equipment and systems using thermodynamics.

**Grade Type:** Letter Grade

**Prerequisite(s):** EGR 272, 341, and MAT 342

**Pre- or Co- Requisite(s):** PHY 203

## **EGR 373 - Materials Engineering and Selection**

**Units: 2**

**When Offered:** Fall

An introduction to the properties and processing of metals, polymers, and other materials. The influences of crystal structure, bonding, and electronic structure on physical and mechanical properties are examined. Causes and control of various types of corrosion are explored.

**Grade Type:** Letter Grade

**Prerequisite(s):** CHE 125 and 125L

## **EGR 374 - Separations**

**Units: 3**

**When Offered:** Spring

Study of separation processes including continuous contact, staged, and batch processes. Separations by phase addition/creation, barrier, interaction with solids, and external field or gradient will be examined.

**Grade Type:** Letter Grade

**Prerequisite(s):** EGR 371

**Pre- or Co- Requisite(s):** EGR 372

## **EGR 381 - Operations Research I: Deterministic Methods**

**Units: 3**

**When Offered:** Fall

Introduction to linear programming; transportation and assignment problems; dynamic programming; integer programming; nonlinear programming.

**Grade Type:** Letter Grade

**Prerequisite(s):** MAT 115 or higher

## **EGR 382 - Applied Differential Equations and Linear Algebra**



**Units: 3**

**When Offered:** Fall, Spring

An introduction to ordinary differential equations is complemented with the tandem presentation of elementary linear algebra, inclusive of vector spaces, matrices, systems of linear equations, and eigenvectors and eigenvalues. Theory and solution methods for differential equations, including numerical approximations, are presented along with engineering-related applications. MATLAB is used for computer-based methods.

**Grade Type:** Letter Grade

**Prerequisite(s):** EGR 121 and MAT 255

## **EGR 383 - Quality Control**

**Units: 3**

**When Offered:** Fall

Quantitative aspects of statistical quality control (process control, acceptance sampling by attribute and by variable, rectifying inspection), quality assurance and the management of QC/QA functions.

**Grade Type:** Letter Grade

**Prerequisite(s):** EGR 305

## **EGR 384 - Human Factors and Ergonomics**

**Units: 3**

**When Offered:** Spring

Physiological systems and psychological characteristics; ergonomics; anthropometry; effects of the physical environment on humans; occupational safety and health; work methods.

**Grade Type:** Letter Grade

## **EGR 386 - Operations Research II: Probabilistic Methods**

**Units: 3**

**When Offered:** Spring

An introduction to ordinary differential equations is complemented with the tandem presentation of elementary linear stochastic processes; Markov chains; queuing theory and queuing decision models; probabilistic inventory models.

**Grade Type:** Letter Grade

**Prerequisite(s):** EGR 305

## **EGR 390 - Internship**

**Units: 1**

**When Offered:** As offered

A required internship with industry, research, non profit or other experience with a minimum of 200 hours of supervised work. A learning contract signed by the student and supervisor is required at the beginning and an executive summary written by the student and signed by the supervisor is required at completion.

**Grade Type:** Letter Grade

**Prerequisite(s):** EGR 306

## **EGR 392 - Engineering Seminar II**

**Units: 1**

**When Offered:** Spring

Different speakers of importance to the engineering profession will make presentations. Included are area engineering leaders and professionals as well as nationally recognized contributors to the profession of engineering. Short reflection

papers are required and will be included in your electronic portfolio. May serve as EGR 192 credit for upper division transfer students.

**Repeatable:** May be repeated for credit

**Grade Type:** Letter Grade

## **EGR 400 - Special Topics in Engineering**

**Units:** 1-3

**When Offered:** As offered

This course offers a concentration upon a specific topic in the field of engineering. The topic varies by semester.

**Repeatable:** May be repeated for a maximum of eighteen (18) units with change in topic

**Grade Type:** Letter Grade

## **EGR 401 - Capstone Design**

**Units:** 3

**When Offered:** Fall

The first of a two course senior capstone design sequence. Various design topics may be discussed including equipment design, the design of process systems, and economics. Student teams select a project which may involve company sponsorship, and proceed through the design methodology introduced in earlier design classes, incorporating appropriate engineering standards and multiple realistic constraints. Every project has a 'customer' which requires the generation of a customer spec. During the sequence students provide detailed schedules for building a prototype system or designing a process and present weekly progress reports. They also produce technical specifications, undergo a preliminary design review (PDR), and build a working prototype system if appropriate.

**Grade Type:** Letter Grade

**Prerequisite(s):** EGR 302 or 352

## **EGR 402 - Capstone Design and Presentation**

**Units:** 3

**When Offered:** Spring

A continuation of EGR 401 - Capstone Design. Further development of the project will take place and will involve testing as appropriate. Teams will develop proper documentation for their projects and will appropriately communicate and present the results of their project. A final presentation is given to the public which could include members of the engineering advisory council. The presentation will be recorded and included as a part of students' senior portfolios.

**Grade Type:** Letter Grade

**Prerequisite(s):** EGR 401

## **EGR 403 - FE Exam**

**Units:** 1

**When Offered:** Fall

A review course for the Fundamentals of Engineering Exam or an equivalent exam for the programs within the College of Engineering. Review topics may be tailored to fit the needs of the various programs. Exam policies and test-taking strategies may be covered.

**Grade Type:** Letter Grade

**Prerequisite(s):** Senior status

## **EGR 405 - Internship Report and Presentation**

**Units: 1****When Offered:** Fall, Spring

Students will report on their internship experiences. Each student will submit a written report and give an oral presentation. Students will receive faculty and peer evaluations of their presentations.

**Grade Type:** Letter Grade**Prerequisite(s):** Permission of the Department Chair**EGR 425 - Real Time and Embedded Development****Units: 3****When Offered:** Spring

Focus on Programming real-time applications on an embedded platform running a real-time operating system (RTOS). Consideration will be given to cross-compiled software development, embedded system debugging, multitasking, real-time scheduling, inter-task communication, software design for deterministic execution time, software performance analysis and optimization, device drivers.

**Grade Type:** Letter Grade**Prerequisite(s):** EGR 222 and 329**EGR 427 - Software Project Management****Units: 3****When Offered:** Fall

Project planning, cost estimation and scheduling. Project management tools. Analysis of options and risks. Release and configuration management. Software process standards and process implementation. Approaches to maintenance and long-term software development.

**Grade Type:** Letter Grade**Prerequisite(s):** EGR 222**EGR 431 - Control Systems****Units: 3****When Offered:** Spring

Analog control system modeling, analysis, and design using root locus and frequency response methods. Introduction to state variable methods and digital control. Includes lab projects on real-time control systems. MATLAB and SIMULINK are used extensively as design tools.

**Grade Type:** Letter Grade**Prerequisite(s):** EGR 331**EGR 432 - Applied Electromagnetics****Units: 3****When Offered:** Spring

Vector description of the electric and magnetic properties of free space (using the laws of Coulomb, Ampere, and Faraday). Maxwell's electromagnetic field equations. Wave propagation in unbounded regions, reflection and refraction of waves, and transmission lines and antennas.

**Grade Type:** Letter Grade**Prerequisite(s):** EGR 232, MAT 343, and PHY 203**EGR 433 - Power Electronics**

**Units: 3**

**When Offered:** Fall

Introduction to the power electronic systems, power controls, switching circuits; power converter topologies and magnetic components including AC/DC, DC/DC, DC/AC converters and their applications.

**Grade Type:** Letter Grade

**Prerequisite(s):** EGR 333 and 431

## **EGR 434 - Robot Modeling and Control**

**Units: 3**

**When Offered:** As offered

Introduction to fundamentals of robotics. Topics include coordinate frames and transformations, forward and inverse positional kinematics, velocities and Jacobians of linkages, dynamics, sensors and actuators, path planning, robot control methodologies. Special topics such as teleoperation, haptics or computer vision will be introduced. Includes lab problems.

**Grade Type:** Letter Grade

**Prerequisite(s):** EGR 431

## **EGR 435 - Advanced Digital System Design Using FPGAs**

**Units: 3**

**When Offered:** Fall

Field-Programmable Gate Arrays (FPGAs) have become a popular method of implementing digital electronic designs. Introduction to FPGA integrated circuit structure, concepts, programming, and user designs by way of lecture and laboratory. Thorough treatment of the Verilog Hardware Description Language (HDL) and Xilinx design software plus development boards, in a learn-by-doing approach, via simulation and actual implementation plus testing. Students are taught design building blocks in ever increasing complexity, first combinational blocks then sequential. For example: multiplexors, decoders, counters, state-machines, UARTS and finally an imbedded microcontroller.

**Grade Type:** Letter Grade

**Prerequisite(s):** EGR 322

## **EGR 437 - Digital Signals and Systems**

**Units: 3**

**When Offered:** Spring

This course focuses on the representation and analysis of discrete-time signals and systems, and also provides an introduction on digital signal processing. Topics covered include convolution sum, difference equations, discrete-time Fourier Series and Fourier Transform, z-Transform, sampling and reconstruction, DFT, FFT, digital FIR and IIR filters.

**Grade Type:** Letter Grade

**Prerequisite(s):** EGR 331

## **EGR 441 - Heat Transfer**

**Units: 3**

**When Offered:** Spring

Steady and unsteady heat conduction including numerical solutions, forced and natural convection in external and internal flows, thermal radiation properties and exchange between surfaces, introduction to heat exchangers, and boiling and condensation are covered.

**Grade Type:** Letter Grade

**Prerequisite(s):** EGR 341

**Pre- or Co- Requisite(s):** EGR 342

## **EGR 442 - Computer-Aided Engineering Design and Visualization**

**Units: 3**

**When Offered:** Spring

Design, analysis and visualization of engineering components and systems using interactive computer programs with emphasis on computer simulation.

**Grade Type:** Letter Grade

**Prerequisite(s):** EGR 242

## **EGR 443 - Mechanical Vibrations**

**Units: 3**

**When Offered:** Spring

The theory and analysis of vibrating systems including single and multi-degrees of freedom, free and forced, vibrations, with and without damping.

**Grade Type:** Letter Grade

**Prerequisite(s):** EGR 343 and 382

## **EGR 444 - Mechanical Engineering Laboratory**

**Units: 3**

**When Offered:** Spring

Measurement of fluid flow, heat transfer, power and other properties of mechanical equipment. Design of experiments, use of data acquisition systems, data reporting and presentation.

**Grade Type:** Letter Grade

**Prerequisite(s):** EGR 305 and 441

**Pre- or Co- Requisite(s):** EGR 443

## **EGR 445 - Thermal Design of Heat Exchangers**

**Units: 3**

**When Offered:** As offered

This course covers the topics of classification of heat exchangers, design methods, single-phase convection correlations and two phase-correlations, pressure drop calculations, and fouling of heat exchangers. Study of various types of heat exchangers are also discussed, such as double pipe heat exchangers, shell-and-tube heat exchanger, compact heat exchangers, plate heat exchangers, condensers, and evaporators.

**Grade Type:** Letter Grade

**Prerequisite(s):** EGR 371 or 441

## **EGR 446 - Aerodynamics**

**Units: 3**

**When Offered:** Spring

This course will introduce students the topic of gas dynamics and concepts of lift, drag, and pitching moment. The course will also cover the topics of potential flow, mechanics of laminar and turbulent flow, boundary-layer theory, and applications to wings and turbo-machinery. Numerical analysis will also be utilized in design analysis and problem solving.

**Grade Type:** Letter Grade

## **EGR 447 - Mechanics of Composite Structures**

**Units: 3**

**When Offered:** Fall

This course will introduce students to the fiber-reinforced composite materials and structures with emphasis on numerical analysis. Topics covered in this course will include composite micromechanics and failure criteria, design considerations for structures made of composite materials, and the overview of fabrication process and experimental characterization.

**Grade Type:** Letter Grade

**Prerequisite(s):** EGR 242

## **EGR 448 - Propulsion**

**Units: 3**

**When Offered:** As offered

This course will introduce students to the topic of propulsion, stationary power production with gas turbine engines, and reciprocating engines. Air-breathing propulsion is emphasized, with a brief treatment of rocket propulsion. It also includes the application of thermodynamic and fluid-mechanical principles to analysis of performance and design with numerical methods.

**Grade Type:** Letter Grade

## **EGR 451 - Project and Construction Management**

**Units: 3**

**When Offered:** Fall

An introduction to professional construction management practice including contracts, addendums, bonds, design-build, bids, specifications, scheduling, and other legal issues.

**Grade Type:** Letter Grade

**Prerequisite(s):** Junior or Senior status

## **EGR 452 - Structural Dynamics and Earthquake Engineering**

**Units: 3**

**When Offered:** Spring

The course will focus on the analysis of the dynamic response of structural systems. Students will be introduced to the basic concepts of seismology and structural dynamics including the evaluation of structural response to earthquake motions. We will also discuss the seismic design procedure in building codes used in the United States. This will enable students to have a better understanding of dynamic behavior of structural systems under earthquakes. Students will also use their knowledge of seismic design to prepare the Professional Engineer's (PE) examination, which is a mandatory section in California.

**Grade Type:** Letter Grade

**Prerequisite(s):** EGR 351 and 343

## **EGR 453 - Environmental Engineering I**

**Units: 3**

**When Offered:** Fall

Introductory study of water treatment and supply, wastewater collection and treatment common to rural and metropolitan areas. Laboratory principles and methods related to safety, sampling, data analysis, and measurement of selected physical, chemical, and biological characteristics of water and wastewater are introduced. Field trips are required.

**Grade Type:** Letter Grade

**Prerequisite(s):** Senior status

## **EGR 454 - Environmental Engineering II**

**Units: 3**

**When Offered:** As offered

Introductory study of solid and hazardous waste management and air pollution control. Study of solid and hazardous waste properties, sources, composition, magnitude, and regulations. Engineered solid waste management functional elements will be introduced. Landfilling methods including siting and modern landfill designs will be studied.

Introduction to air pollution sources, quality, meteorology, atmospheric dispersion modeling, and control methods.

Field trips are required.

**Grade Type:** Letter Grade

**Prerequisite(s):** EGR 453

## **EGR 455 - Structural Design II**

**Units: 3**

**When Offered:** Fall

Principles of the design of reinforced concrete structures. Design includes flexural members, compression members, one-way slabs and footings. ACI Strength Design Method.

**Grade Type:** Letter Grade

**Prerequisite(s):** EGR 352

## **EGR 456 - Sustainable Civil Engineering**

**Units: 3**

**When Offered:** As offered

This course will focus on applying the principles and practices necessary such that planning, design, and construction of a project can be sustainable technically, economically, and environmentally. Students will carefully examine scientific, economic, energy, political, ethical, and regulatory principles by evaluating two actual case studies-one in a developed country; one in a developing country.

**Grade Type:** Letter Grade

**Prerequisite(s):** EGR 256

## **EGR 457 - Transportation Engineering**

**Units: 3**

**When Offered:** Fall

Introduction to transportation engineering with an emphasis on highway design. Topics include transportation demand and planning, aerial photography, environmental impact statements, horizontal and vertical alignment, earthwork, volumes, and design of flexible and rigid pavements, and batteries.

**Grade Type:** Letter Grade

**Prerequisite(s):** Junior or Senior status

## **EGR 458 - Water Resources Engineering**

**Units: 3**

**When Offered:** Spring

A continuation and extension of Fluid Mechanics with civil engineering applications of hydraulic and hydrologic engineering. Applications of the concepts from Fluid Mechanics (hydrostatics, conservations laws), analyses of pipe flows, pipe networks, hydraulic machinery, hydroelectric power, pressure conduits, reservoirs and dams, and open channel flow are covered.

**Grade Type:** Letter Grade

**Prerequisite(s):** EGR 342 and 356

## **EGR 459 - Advanced Transportation Engineering**

**Units:** 3

**When Offered:** As offered

Advanced transportation engineering with an emphasis on the design, construction, maintenance and rehabilitation of highway pavements, airport pavements, railroads, traffic engineering, sustainable transportation systems. The course will cover topics like transportation material characterization, pavement structural design, pavement damage (distress) prediction, airport pavement design specifications, railroad sub-structure design, traffic forecasting, and building sustainable transportation infrastructure.

**Grade Type:** Letter Grade

**Prerequisite(s):** EGR 251

## **EGR 462 - Biomaterials I: Fundamentals of Concepts**

**Units:** 3

**When Offered:** Spring

The course provides students with a fundamental understanding of the material selection process required in engineering for medical applications. Materials to be covered include both short-exposure, such as surgical tools and catheters, and long-exposure, such as implants and shunts. Topics to be included are: the manufacturing process, performance characteristics, biocompatibility testing, and long-term biological response such as tissue formation and fibrosis. Relevant design considerations will be discussed, including common medical device standards relating to biomaterials testing and performance.

**Grade Type:** Letter Grade

**Prerequisite(s):** EGR 382, CHE 115, and 115L

## **EGR 463 - Biomaterials II: Polymers for Biomedical Applications**

**Units:** 3

**When Offered:** Fall

The course provides students with a fundamental understanding of the soft material science and technology required in engineering for medical applications such as cardiovascular, bones and joint, intraocular lenses, artificial kidney, surgical sutures, tissue ingrowth polymers, and controlled release of drugs. Topics to be included are: polymeric materials for advanced technology, thermoplastics, elastomers, thermosets, nanocomposites, and biopolymers. This course also includes the emerging areas of technological growth such as separation, nanomedicine, and biotechnology. Recent examples from the literature will be used to illustrate technologically relevant materials in current nano-biotechnology.

**Grade Type:** Letter Grade

**Prerequisite(s):** CHE 115, 115L, EGR 242, and 382

## **EGR 464 - Neural Engineering**

**Units:** 3

**When Offered:** Spring

This course provides students with basic principles, theories, and methods that underlie technology for recording and stimulation of central and peripheral nervous system structures. The course also presents recent advances in the development of technology, its practical applications in neuroscience and in medicine.

**Grade Type:** Letter Grade

**Prerequisite(s):** BIO 153 and EGR 262



## **EGR 473 - Chemical Reaction Engineering**

**Units: 3**

**When Offered:** Fall

The course covers reaction kinetics, differential and integral data analysis, batch, mixed, and plug flow reactors, systems with multiple reactions, reactor cascades, temperature and energy effects, and catalysis.

**Grade Type:** Letter Grade

**Prerequisite(s):** EGR 371 and 372

## **EGR 474 - Chemical Process Control**

**Units: 3**

**When Offered:** Spring

Control theory and practice, instrumentation, system responses, transfer functions, feed-back control, and stability as applied to chemical engineering processes.

**Grade Type:** Letter Grade

**Prerequisite(s):** EGR 272 and MAT 342

## **EGR 475 - Process Safety**

**Units: 2**

**When Offered:** Fall

Fundamentals of chemical process safety including toxicology, industrial hygiene, toxic release and dispersion models, fires and explosions, and designs to prevent fires and explosions.

**Grade Type:** Letter Grade

**Prerequisite(s):** EGR 342

## **EGR 477 - Chemical Engineering Laboratory**

**Units: 3**

**When Offered:** Fall

The application of fundamentals to the experimental study of various chemical processes and unit operations. Experimental design, data collection and analysis, error analysis, instrumentation, and oral and written communication will be emphasized.

**Grade Type:** Letter Grade

**Prerequisite(s):** EGR 302 and 374

## **EGR 478 - Bioprocess Engineering**

**Units: 3**

**When Offered:** As offered

Embracing emerging challenges in sustainable biochemical production, environment protection, biomedical engineering, pharmaceutical, and alternative energy resources, this course explores the principles and potentials in applying biological tools for chemical transformation processes. The focus is on the fundamentals of engineering principles involved in biological processing and bioreactors. Contents will cover biocatalysis fundamentals, biocatalyst engineering and application, microbial growth, and bioreactor analysis and design. A brief survey on related biotechnologies, including bioseparation, biosensors and bioassay, and other emerging frontier biotechnologies will also be provided.

**Grade Type:** Letter Grade

**Prerequisite(s):** MAT 342 or EGR 382

## **EGR 481 - Systems Simulation**

**Units: 3**

**When Offered:** Fall

Model design to simulate discrete event systems with basic input and output analysis using high order languages, applied to industrial systems analysis and design problems.

**Grade Type:** Letter Grade

**Prerequisite(s):** EGR 305

## **EGR 482 - Supply Chain and Logistics Management**

**Units: 3**

**When Offered:** Spring

Apply industrial and systems engineering and management approaches to improve the effectiveness and efficiency of material flow, information flow and cash flow for the entire supply chains.

**Grade Type:** Letter Grade

**Prerequisite(s):** EGR 305 and 381

## **EGR 483 - Production Systems**

**Units: 3**

**When Offered:** Fall

Production planning, forecasting, scheduling, and inventory; computer integrated decision systems in analysis and control of production systems, facilities layout and design.

**Grade Type:** Letter Grade

**Prerequisite(s):** EGR 305 and 381

## **EGR 490 - Independent Study**

**Units: 1-3**

**When Offered:** As offered

Registration Approval: Independent Study Agreement. Student does an independent study under direction of a faculty member. Study of problems in a topic for which related courses have been completed.

**Repeatable:** May be repeated for a maximum of three (3) units

**Grade Type:** Letter Grade

## **EGR 491 - Research Project**

**Units: 1-3**

**When Offered:** Fall

This special registration permits the completion of upper division degree requirements for transfer or other students, program requirement changes, or other special circumstances in which students have partial but not full credit toward a specific degree requirement. It also provides the opportunity for recognition of supervised academic experiences that are not included in traditional curriculum. Registration requires approval by the dean and sponsoring faculty member. The determination of degree credits is at the time of registration.

**Grade Type:** Letter Grade

**Prerequisite(s):** EGR 101 and Permission of the Dean

## **English**

## **ENG 100 - Introduction to Technology in Literary Studies**

**Units: 1**

**When Offered:** Online

An introduction to the English major in the online modality with a focus on applying a Christian worldview to study of English. Introduces students to a range of online discussion tools and to a range of professions in which the English major can be applied.

**Grade Type:** Pass/Fail

## **ENG 101 - Introduction to the Discipline**

**Units: 1**

**When Offered:** Fall

This course introduces a consideration of personal worldview, faith, and the discipline of English, including literary studies and creative writing. It is also designed to introduce students to the basic skills necessary for academic success in the discipline of English and to provide students with an overview of the discipline including requirements of the major and expectations of professions in which that major may be applied.

**Grade Type:** Pass/Fail

## **ENG 113 - Composition**

**Units: 3**

**When Offered:** Fall, Spring, & Online

This is a process-based writing class that focuses on academic writing, reading, and critical thinking as expressed in expository and analytical writing assignments through 5 to 7 substantial essays over the course of the semester. Develops fluency, coherence, style, effectiveness, and literary analysis. Students must pass this course with a C- or better or demonstrate a comparable level of writing competence to fulfill general competency requirements and to proceed to ENG 123 - Intermediate Composition. Students may only earn credit for ENG 113 or ENG 113E - Enriched Composition.

**Grade Type:** Letter Grade

## **ENG 113E - Enriched Composition**

**Units: 3**

**When Offered:** Fall, Spring

This process-based writing class focuses on academic writing, reading, and critical thinking as expressed in expository and analytical writing assignments. Through five to seven substantial essays written over the course of the semester, students develop fluency, coherence, style, effectiveness, and literary analysis through close attention to the fundamentals of written communication and revision. By learning in a collaborative writing community, students develop effective strategies in generating and developing ideas, giving and receiving feedback, and reading and analyzing texts. Must be taken with ENG 113L - Composition Enrichment Lab. Students must pass this course with a C- or better to proceed to ENG 123E - Enriched Intermediate Composition. Students who earn a B+ or higher may petition to move into ENG 123 - Intermediate Composition. Students may only earn credit for ENG 113 - Composition or ENG 113E - Enriched Composition.

**Grade Type:** Letter Grade

**Concurrent Requisite(s):** ENG 113L

## **ENG 113L - Composition Enrichment Lab**

**Units: 1**

**When Offered:** Fall, Spring

This enrichment laboratory course, designed to be taken concurrently with ENG 113E - Enriched Composition, offers hands-on instruction in grammar, mechanics, and structure. It develops skills in self-editing, peer review, foundational educational technology, and assignment management.

**Grade Type:** Letter Grade

## **ENG 123 - Intermediate Composition**

**Units:** 3

**When Offered:** Fall, Spring, & Online

Continued practice in writing and research strategies, with emphasis on critical thinking, information literacy, argument, analysis, and interpretation of multicultural and interdisciplinary readings. Includes the writing of a major research paper in addition to several shorter essays. Students may earn credit for either ENG 123 or ENG 123E - Enriched Intermediate Composition.

**Grade Type:** Letter Grade

**Prerequisite(s):** ENG 113 with a grade of C- or better or 113E with a grade of B+ or better or evidence of a comparable level of writing competence

**Pre- or Co- Requisite(s):**

## **ENG 123E - Enriched Intermediate Composition**

**Units:** 3

**When Offered:** Fall, Spring

This course provides students with continued practice in writing and research and should be taken concurrently with the Intermediate Composition enrichment lab. It emphasizes critical thinking, argument, analysis and interpretation of multicultural readings and other interdisciplinary expository materials, providing students with opportunities to gather, interpret, and integrate interdisciplinary research into the writing of a research paper (or report). Researching and writing within a community supports students' individual growth of written communication as well as public engagement of ideas through informal discussion and formal presentation. Must be taken with ENG 123L - Intermediate Composition Enrichment Lab. Students must pass this course with a C- or better. Students may only earn credit for ENG 123 - Intermediate Composition or ENG 123E - Enriched Intermediate Composition.

**Grade Type:** Letter Grade

**Prerequisite(s):** ENG 113E with a grade of C- or better or evidence of a comparable level of writing competence

**Concurrent Requisite(s):** ENG 123L

## **ENG 123L - Intermediate Composition Enrichment Lab**

**Units:** 1

**When Offered:** Fall, Spring

This enrichment laboratory course, designed to be taken concurrently with ENG 123E - Enriched Intermediate Composition, emphasizes research tools, source evaluation, citation and attribution, and argumentative structures. It further develops skills in self-editing, peer review, and metacognitive reflection.

**Prerequisite(s):** ENG 113L with a grade of C- or better or evidence of a comparable level of writing competence

## **ENG 200 - Special Topics in English**

**Units:** 3

**When Offered:** As offered

Focuses on a different phase of British, American or world literature each time offered-themes, genres, periods. See instructor for the topic currently to be studied.

**Grade Type:** Letter Grade

## **ENG 201 - Introduction to Literature**

**Units: 3**

**When Offered:** Fall, Spring, & Online

An introductory study of literary terminology and the major genres of American, British, European, and multicultural literature. Focuses on critical reading and intelligent appreciation of literature and of the ways of writing about literature.

**Grade Type:** Letter Grade

**Pre- or Co- Requisite(s):** ENG 100, 101, 123, or 123E

## **ENG 213 - British Literature Pre-1750**

**Units: 3**

**When Offered:** Spring (even years) & Online

Literature of Great Britain from the Middle Ages through the eighteenth century.

**Grade Type:** Letter Grade

**Pre- or Co- Requisite(s):** ENG 100, 101, 123, or 123E

## **ENG 223 - British Literature Post-1750**

**Units: 3**

**When Offered:** Spring (even years)

Literature of Great Britain from the Romantic Period to the present.

**Grade Type:** Letter Grade

**Pre- or Co- Requisite(s):** ENG 100, 101, 123, or 123E

## **ENG 233 - American Literature Pre-1865**

**Units: 3**

**When Offered:** Fall & Online

American Literature from the Colonial Period to 1865.

**Grade Type:** Letter Grade

**Pre- or Co- Requisite(s):** ENG 100, 101, 123, or 123E

## **ENG 243 - American Literature Post-1865**

**Units: 3**

**When Offered:** Spring

American literature from 1865 to present.

**Grade Type:** Letter Grade

**Pre- or Co- Requisite(s):** ENG 100, 101, 123, or 123E

## **ENG 253 - World Literature Pre-1650**

**Units: 3**

**When Offered:** Fall (odd years)

World literature (excluding British and American) through the Renaissance.

**Grade Type:** Letter Grade

**Pre- or Co- Requisite(s):** ENG 100, 101, 123, or 123E

## **ENG 263 - World Literature Post-1650**

**Units: 3**

**When Offered:** Fall (even years)

World literature (excluding British and American) from Neoclassicism to present.

**Grade Type:** Letter Grade

**Pre- or Co- Requisite(s):** ENG 100, 101, 123, or 123E

## **ENG 273 - Introduction to Creative Writing**

**Units: 3**

**When Offered:** Fall, Spring, & Online

This course introduces the creative writer to the literary genres, encouraging creativity, individuality, spontaneity and boldness for students in search of the writer within. The lecture/discussion is designed to help students develop a writing voice and work toward a final project in one of the major genres.

**Grade Type:** Letter Grade

**Pre- or Co- Requisite(s):** ENG 100, 101, 123, or 123E

## **ENG 302 - Professional Writing**

**Units: 3**

**When Offered:** Fall (even years)

This course studies writing within the diverse environment of the workplace. It emphasizes the need to adapt written documents for a distinct task, audience, or platform. The course introduces students to professional and technical writing through examination and evaluation of interdisciplinary readings and representative models of professional documents-both print and digital. The course will incorporate strategies for developing and improving skills in writing, reading, researching, editing, presenting, and collaborating. Students will demonstrate an understanding of effective practices through a portfolio of professional documents.

**Grade Type:** Letter Grade

**Prerequisite(s):** ENG 123 or 123E

## **ENG 303 - Topics in World Literature**

**Units: 3**

**When Offered:** As offered & Online

An intensive study of a particular area of world literature in translation (e.g., Greek drama, or the literature of Existentialism). See the instructor for the area currently being studied. May be offered as a dual-language topic such as Latin American authors.

**Grade Type:** Letter Grade

**Prerequisite(s):** ENG 123 or 123E

## **ENG 313 - American Multicultural Literature**

**Units: 3**

**When Offered:** Spring & Online

The literature of women and ethnic minorities. Recommended for Liberal Studies majors. At least one literature survey course recommended.

**Grade Type:** Letter Grade

**Prerequisite(s):** ENG 123 or 123E

## **ENG 314 - Global Literature**

**Units: 3**

**When Offered:** Fall

This course offers students an intensive study of global literature with an emphasis on works translated into English, excluding American literature. Students will study literature and cultures from around the world, equipping them to broaden their engagement in academic studies and Great Commission service. It is recommended that at least one literature survey course be taken prior.

**Grade Type:** Letter Grade

**Prerequisite(s):** ENG 123 or 123E

## **ENG 323 - Classical Literature**

**Units: 3**

**When Offered:** Spring

This course explores the intellectual contributions of Classical Literature by examining the meaning of these works within historical, political, and cultural context of Classical society.

**Grade Type:** Letter Grade

**Prerequisite(s):** ENG 123 or 123E

## **ENG 333 - Seventeenth Century British Literature**

**Units: 3**

**When Offered:** Fall (odd years)

The Metaphysical and cavalier Poets, and the prose of John Milton, in historical context.

**Grade Type:** Letter Grade

**Prerequisite(s):** ENG 123 or ENG 123E

## **ENG 343 - Eighteenth and Nineteenth Century British Literature**

**Units: 3**

**When Offered:** As offered & Online

Neoclassical, Romantic, and Victorian literature in historical context.

**Grade Type:** Letter Grade

**Prerequisite(s):** ENG 123 or 123E

## **ENG 345 - Nineteenth Century American Literature**

**Units: 3**

**When Offered:** Spring (odd years)

American literature and thought, 1800-1914, with emphasis on Poe, Hawthorne, Emerson, Dickinson, Douglass, Whitman, Melville, Stowe, and Twain.

**Grade Type:** Letter Grade

**Prerequisite(s):** ENG 123 or ENG 123E

## **ENG 350 - Research and Writing in Literature and Language**

**Units: 3**

**When Offered:** Online

Introduction to research topics, methods, and materials in the field of language and literature for application in a series of scholarly papers and presentations of various types and lengths.

**Grade Type:** Letter Grade

**Prerequisite(s):** ENG 123 or 123E

## **ENG 353 - Introduction to Children's Literature**

**Units: 3**

**When Offered:** Fall, Spring, & Online

An introduction to the study of a wide variety of children's literature, including picture books, novels, poetry, and folklore. Focus on critical analysis of texts, employing a variety of literary theoretical perspectives, close readings, and contemporary research. Also examines the historical constructions of childhood, uses within the elementary classroom, and social response to children's literature. Meets the Liberal Studies requirement for Children's literature.

**Grade Type:** Letter Grade

**Prerequisite(s):** ENG 123 or 123E

## **ENG 354 - Children's Classics**

**Units: 3**

**When Offered:** Fall (odd years)

A consideration of children's classics, including but not limited to texts from "Golden Age" of children's literature, approximately 1865-1914. Focus on critical analysis of texts, employing a variety of literary theoretical perspectives, close readings, and contemporary research. Also examines the historical constructions of childhood and social responses to children's literature. Students will examine the texts in light of literary, historical, social contexts.

**Grade Type:** Letter Grade

**Prerequisite(s):** ENG 123 or 123E

## **ENG 355 - Folklore and Fairy Tales**

**Units: 3**

**When Offered:** Fall (even years)

A close examination of selected folklore and fairy tales from various cultural or literary traditions. Focus on interpretation and analysis of individual texts, utilizing a variety of historical and contemporary critical approaches to reading, understanding, and researching folklore and fairy tales as a distinctive genre.

**Grade Type:** Letter Grade

**Prerequisite(s):** ENG 123 or 123E

## **ENG 360 - Detective Fiction**

**Units: 3**

**When Offered:** Online

Detective Fiction is an historical approach to the detective fiction genre and its impact on Western society. The class explores issues of knowledge production, detection, policing, and identity through drama, novels, short stories, and film.

**Grade Type:** Letter Grade

**Prerequisite(s):** ENG 123 or 123E

## **ENG 363 - Introduction to Young Adult Literature**

**Units: 3**

**When Offered:** Spring & Online

Introduction to literature designed to meet the unique needs of adolescents and young adults. Varied uses of literature such as poetry and short stories will be explored with intensive study of longer works of fiction and non-fiction.

**Grade Type:** Letter Grade

**Prerequisite(s):** ENG 123 or 123E



## **ENG 365 - Christian Classics**

**Units: 3**

**When Offered:** Spring (odd years)

Surveys some of the great literary texts in the Christian tradition. Readings from primary works will provide opportunity to become familiar with a variety of voices in the history of Christian spirituality. Students will examine the texts in light of literary, historical, social, and theological contexts. Authors and texts may vary each time the course is offered.

**Grade Type:** Letter Grade

**Prerequisite(s):** ENG 123 or 123E

## **ENG 366 - Faith and Literature**

**Units: 3**

**When Offered:** Fall (even years)

The course is designed to examine the study of literature through the lens of faith. It considers the intersection of personal belief and reading practices, the analysis of literature, both religious and secular, from a Christian worldview, and potential avenues of Christian literary theory. It requires students to evaluate and analyze both literary texts and approaches to literature, with each student formulating a formal position in regard to the intersection of faith and literature.

**Grade Type:** Letter Grade

**Prerequisite(s):** ENG 123 or 123E

## **ENG 371 - The Graphic Novel**

**Units: 3**

**When Offered:** Fall (odd years)

The class represents a close examination of select graphic novels from a variety of genres and styles. It focuses on literary interpretation and analysis of individual texts, utilizing a variety of historical and contemporary critical approaches to reading, understanding, and researching the graphic novel within an interdisciplinary context.

**Grade Type:** Letter Grade

**Prerequisite(s):** ENG 123 or 123E (Recommend: ENG 201)

## **ENG 382 - Introduction to Digital Studies**

**Units: 3**

**When Offered:** Fall (odd years)

This course introduces students to the growing field of digital studies. Given the interdisciplinary nature of digital studies, students will study digital texts and projects and will work collaboratively to evaluate, develop, and refine their technical skills to create and edit various forms of digital publications.

**Grade Type:** Letter Grade

**Prerequisite(s):** ENG 123 or 123E

## **ENG 384 - Writing Fiction**

**Units: 3**

**When Offered:** Fall

An intensive writing workshop designed to permit the student to study and practice fiction in various forms: articles, short stories, novels, etc.

**Grade Type:** Letter Grade

**Prerequisite(s):** ENG 123 or 123E

## **ENG 385 - Writing Poetry**

**Units:** 3

**When Offered:** Spring

This college course is an intensive workshop designed to encourage creativity in poetry. The class offers specific writing direction plus critical responses to students' works, both creative and analytical.

**Grade Type:** Letter Grade

**Prerequisite(s):** ENG 123 or 123E

## **ENG 386 - Writing Creative Nonfiction**

**Units:** 3

**When Offered:** Fall (odd years)

An intensive writing workshop designed to permit the student to study and practice creative nonfiction in various forms: personal narrative, topical essay, lyric essay, memoir, etc.

**Grade Type:** Letter Grade

**Prerequisite(s):** ENG 123 or 123E

## **ENG 399 - Independent Study**

**Units:** 3

**When Offered:** As offered

An opportunity for students who have demonstrated the ability to do independent work to pursue in depth a topic of particular interest. Other courses listed in the catalog may not be taken by independent study.

**Grade Type:** Letter Grade

## **ENG 400 - Special Topics in English**

**Units:** 3

**When Offered:** As offered

Focuses on a different theme, genre, or period of British, American, or World literature each time offered. See instructor for topic currently to be studied.

**Grade Type:** Letter Grade

**Prerequisite(s):** ENG 123 or 123E

## **ENG 401 - Literary Theory and Criticism**

**Units:** 3

**When Offered:** Spring & Online

Advanced study in theories of imaginative literature and in the issues of interpreting literary texts.

**Grade Type:** Letter Grade

**Prerequisite(s):** ENG 123 or 123E, and 201 as well as at least one literature survey course are required

## **ENG 409 - Good Books**

**Units:** 3

**When Offered:** Spring (odd years)

This course offers students intensive study of print culture, particularly in regard to the history of the book, as found in American, British, and/or world literature. The course may focus on a particular genre, such as the novel, the autobiography, or the chapbook, or on a particular subgenre, such as the gothic or satirical novel. This study will also equip students to understand how books within the discipline of English shaped and were shaped by various historical,

cultural, economic, philosophical, and social forces. It is recommended that at least one literature survey course be taken prior.

**Grade Type:** Letter Grade

**Prerequisite(s):** ENG 123 or 123E

## **ENG 411 - Special Topics in Creative Writing**

**Units:** 3

**When Offered:** Fall (even years)

Focuses on different styles or aspects of creative writing each time offered-for example, creative non-fiction, storytelling, etc. See instructor for the topic currently to be studied.

**Repeatable:** May be repeated one (1) time for credit with a change in topic

**Grade Type:** Letter Grade

**Prerequisite(s):** ENG 123 or 123E

## **ENG 413 - Shakespeare Studies**

**Units:** 3

**When Offered:** Fall & Online

Selected poems and plays are studied in their historical contexts. A variety of critical approaches are incorporated. Includes comedies, history plays, and tragedies.

**Grade Type:** Letter Grade

**Prerequisite(s):** ENG 123 or 123E

## **ENG 420 - Special Topics in American Literature**

**Units:** 3

**When Offered:** As offered

This course offers students intensive study of a special topic in American literature. Students will study a specific theme, author, genre, or period within the broad literary history of the United States. This study will equip students to broaden their engagement in American literature. It is recommended that at least one literature survey course be taken prior.

**Grade Type:** Letter Grade

**Prerequisite(s):** ENG 123 or 123E

## **ENG 430 - Special Topics in British Literature**

**Units:** 3

**When Offered:** As offered

This course offers students an intensive study of a special topic in British Literature. Students will study a specific theme, author, genre, or period within the broad literary history of Great Britain. This study will equip students to broaden their engagement in British literature. It is recommended that at least one literature survey course be taken prior.

**Grade Type:** Letter Grade

**Prerequisite(s):** ENG 123 or 123E

## **ENG 431 - Literary Journal Editing and Publishing**

**Units:** 3

**When Offered:** Spring

In this course students assist in all aspects of the publication of the campus literary journal. Students read submissions

of poetry, fiction, and creative nonfiction, they work with writers to edit their pieces, and they assist with layout and design.

**Grade Type:** Letter Grade

**Prerequisite(s):** ENG 123 or 123E

## **ENG 432 - Sociolinguistics**

**Units:** 3

**When Offered:** As offered

Sociolinguistics is the study of the relationship between language and society. This course explores key areas within the field of sociolinguistics. It also gives students practice in reflecting on how sociolinguistics of English and other languages affects how they speak. Students will investigate a topic in sociolinguistics and write a review of literature about it as well as develop a language policy report.

**Grade Type:** Letter Grade

**Prerequisite(s):** ENG 123 or 123E

## **ENG 440 - Modern American Literature**

**Units:** 3

**When Offered:** Fall (even years) & Online

Major fiction and poetry from 1900 to World War II.

**Grade Type:** Letter Grade

**Prerequisite(s):** ENG 123 or 123E

## **ENG 442 - Teaching Second Language Writing**

**Units:** 3

**When Offered:** Fall

This course prepares students to teach writing to second language learners, especially but not exclusively at the college level. Course materials and activities focus on current composition philosophy, research-based method and teaching techniques for collegiate level second language writing courses. At a minimum, this course is designed to introduce students to major theories, research, and practice in the teaching of English writing to second language learners. Thus, students should complete this course being able to do what ESL/EFL writing instructors do: design lesson plans for college composition; evaluate (read, respond to, grade, and assess) college level writing; and engage in research in at least one relevant issue in ESL/EFL composition pedagogy. This course should train students to be reflective practitioners and researchers of collegiate level English composition.

**Grade Type:** Letter Grade

**Prerequisite(s):** ENG 123 or 123E

## **ENG 443 - Contemporary American Literature**

**Units:** 3

**When Offered:** Spring (even years)

Major fiction and poetry from World War II to the present.

**Grade Type:** Letter Grade

**Prerequisite(s):** ENG 123 or 123E

## **ENG 446 - Teaching Second Language Reading**

**Units:** 3

**When Offered:** Spring

This course will be about reading in a second language, primarily, but not exclusively English. In particular, the class will emphasize teaching reading in English to learners whose native language is not English. Since research and theory inform sound pedagogical practice, we will also research and review research on a variety of relevant topics to teaching reading from both linguistic and educational perspectives. Finally, given the importance of literacy in so many contexts today, we will consider a multitude of variables which affect the teaching and learning of reading skills for both children and adults, in second and foreign language settings, and explore the implications of the research for all concerned.

**Grade Type:** Letter Grade

**Prerequisite(s):** ENG 123 or 123E

## **ENG 452 - Second Language Curriculum Development and Assessment**

**Units:** 3

**When Offered:** Spring

This course is designed for future ESL teachers who are interested in current thinking and research in second language material development and assessment and in the application of such in classroom teaching. There are two major goals: one is developing a solid understanding of the core issues in these areas and the other, which requires students to design their own materials and assessment tools and to evaluate existing ones, is facilitating the application of such an understanding in classroom teaching.

**Grade Type:** Letter Grade

**Prerequisite(s):** ENG 123 or 123E

## **ENG 454 - Writing in Context**

**Units:** 3

**When Offered:** Spring

This course will provide a practical, hands on approach to the study of English grammar and the application of the acquired knowledge of grammar to the classroom setting. It will be assumed that few, if any, students have had a thorough, formal study of English grammar. The approach will seek to present models for application in the literature based curriculum prescribed by the California State Framework in English. Students will complete numerous in class exercises as well as independent work outside of class for presentation in discussion at subsequent class meetings.

**Grade Type:** Letter Grade

**Prerequisite(s):** ENG 123 or 123E

## **ENG 460 - Modern and Contemporary British Literature**

**Units:** 3

**When Offered:** Spring (even years)

Prose, fiction, poetry, and drama from 1890 to the present, with emphasis on the Modernist writers.

**Grade Type:** Letter Grade

**Prerequisite(s):** ENG 123 or 123E

## **ENG 463 - Language Structure and Acquisition**

**Units:** 3

**When Offered:** Fall & Online

Linguistic theory and method. Includes the study of the five universal elements of language (phonology, morphology, semantics, syntax, and pragmatics) as well as the use of language and its variants in culture. Fieldwork required.

**Grade Type:** Letter Grade

**Prerequisite(s):** ENG 123 or 123E

## **ENG 472 - Theory and Methods of TESOL**

**Units: 3**

**When Offered:** Fall

This course will focus on the application of linguistic theory in education. Students will be introduced to various teaching philosophies and methodologies, focusing on their application to language learning. Students will be familiarized with various movements in education and psychology such as behaviorism, cognitivism, social constructivism, and humanism. Students will be instructed as to how diverse language teaching methods have been informed by various educational movements and how these philosophies and methods take form in the second language classroom. This course will build on the concepts taught in Language Structure and Acquisition but will focus more on second language learners both in ESL and EFL settings.

**Grade Type:** Letter Grade

**Prerequisite(s):** ENG 123 or 123E

## **ENG 484 - Advanced Fiction Writing**

**Units: 3**

**When Offered:** Spring

This advanced writing workshop builds on the foundational elements of fiction writing learned in previous coursework. Students read numerous published short stories and novellas, as well as readings discussing craft, technique, and theory. Students choose to write a novella or two substantial short stories, which are discussed by the professor and students on scheduled workshop days. The works produced in this class strive to be of publishable quality.

**Grade Type:** Letter Grade

**Prerequisite(s):** ENG 384

## **ENG 485 - Advanced Poetry Writing**

**Units: 3**

**When Offered:** Fall (odd years)

This advanced writing workshop builds on the foundational elements of poetry writing learned in previous coursework. Students read numerous published poems and poetry collections, as well as readings discussing craft, technique, and theory. Students write their own poems, which are discussed by the professor and students on scheduled workshop days. The works produced in this class strive to be of publishable quality.

**Grade Type:** Letter Grade

**Prerequisite(s):** ENG 385

## **ENG 491 - Internship**

**Units: 3**

**When Offered:** Fall, Spring, Summer

The purpose of this course is to provide students the opportunity to practice the written, oral, research, analytical, and/or technological skills developed in their field(s) of study under the direct supervision of a practitioner in a professional field. In consultation with the internship coordinator, the student works in the field through supervised practical experiences with a professional organization. This opportunity is available for students who are English majors/minors, writing and digital studies minors, creative writing minors, and creative writing BFA students.

**Grade Type:** Letter Grade

**Prerequisite(s):** Permission of the Department Chair

## **ENG 498 - Capstone in Creative Writing**

**Units: 3**

**When Offered:** Spring

In this capstone course students rewrite and edit their best creative work to form a collection of poems or short stories or a novella. They must also write a critical introduction to their work, discussing other literary works while situating their own writing in a particular discourse.

**Grade Type:** Letter Grade

**Fee:** Additional fee

**Prerequisite(s):** Permission of the Department Chair

## **ENG 499 - Capstone Project**

**Units: 3**

**When Offered:** Spring & Online

This three unit senior capstone project serves to assess the subject matter competence of the English major and the Single Subject Program candidate. Students will enroll for this course with the recommendation of their English program advisor and the approval of the department chair.

**Grade Type:** Letter Grade

**Fee:** Additional course fee

**Prerequisite(s):** ENG 350

## **English as a Second Language (IEP)**

ESL courses may be eligible for undergraduate degree credit at the applicable traditional tuition rate. Inquire with the ESL director during course registration regarding eligibility

### **ESL 007 - English Foundations**

**Units: 2**

**When Offered:** As offered

In this course, students will develop key skills that will give them a beginning level foundation of English. Students will study basic vocabulary and grammar, and will also practice reading, writing, listening, and speaking in English.

**Grade Type:** Pass/Fail

**Class hours:** 4 hours per week

### **ESL 008 - Pronunciation I**

**Units: 1**

**When Offered:** As offered

In this course, students will practice sounds, rhythm, stress, and intonation of English. By the end of the course, students will improve their ability to understand and communicate with others.

**Grade Type:** Pass/Fail

**Class hours:** 2 hours per week

### **ESL 009 - Pronunciation II**

**Units: 1**

**When Offered:** As offered

In this course, students continue to develop rhythm and intonation of American speech patterns. They will learn to recognize and pronounce the individual sounds of English. Students will also examine the English spelling system to identify the discrepancy between spelling and sounds.

**Grade Type:** Pass/Fail

**Class hours:** 2 hours per week

**Prerequisite(s):** ESL 008 or appropriate placement score

## **ESL 010 - Reading and Academic Vocabulary I**

**Units:** 2

**When Offered:** As offered

In this beginning level course, students will learn basic reading skills with a focus on vocabulary, pronunciation, and reading comprehension. By the end of the course students will be able to read and understand short academic texts and stories.

**Grade Type:** Pass/Fail

**Class hours:** 4 hours per week

## **ESL 011 - Writing and Grammar I**

**Units:** 4

**When Offered:** As offered

In this beginning level writing course, students will learn how to communicate in written English. The course will focus on basic English grammar and sentence structure.

**Grade Type:** Pass/Fail

**Class hours:** 6 hours per week

## **ESL 012 - Listening and Speaking I**

**Units:** 2

**When Offered:** As offered

In this course, students will develop their listening and speaking skills in English. Students will listen to short conversations, lectures, and videos at the beginning level. The course will also focus on improving vocabulary and pronunciation so that students can communicate in English.

**Grade Type:** Pass/Fail

**Class hours:** 4 hours per week

## **ESL 030 - Reading and Academic Vocabulary II**

**Units:** 2

**When Offered:** As offered

In this course, students will develop a foundation of academic reading and vocabulary skills. Students will read a variety of texts that will help them develop reading comprehension. Vocabulary exercises will relate to reading themes and will reinforce understanding of the passage.

**Grade Type:** Pass/Fail

**Class hours:** 4 hours per week

**Prerequisite(s):** ESL 010 or appropriate placement score

## **ESL 031 - Writing with Grammar II**

**Units:** 4

**When Offered:** As offered

This course increases competency in standard written English with a focus on low intermediate grammar and writing skills. Students will refine their sentence structure and content, and will learn the basics of writing simple academic paragraphs. The course will also include practice in targeted grammar structure.

**Grade Type:** Pass/Fail



**Class hours:** 6 hours per week

**Prerequisite(s):** ESL 011 or appropriate placement score

## **ESL 032 - Listening and Speaking II**

**Units:** 2

**When Offered:** As offered

This course will include instruction in and practice of low intermediate listening and speaking activities. Students will listen to short lectures and conversations, practice note-taking skills, improve their pronunciation, and practice communication skills they can use in both social and academic settings.

**Grade Type:** Pass/Fail

**Class hours:** 4 hours per week

**Prerequisite(s):** ESL 012 or appropriate placement score

## **ESL 035 - Vocabulary II**

**Units:** 2

**When Offered:** As offered

In this course, students will focus on learning and retaining new vocabulary as well as common word patterns, collocations, and word forms. They will learn different techniques that can aid in vocabulary retention, as well as being able to utilize the new vocabulary in both university courses and daily life. The focus will be on comprehending and utilizing words from the 2,000 most common English word list.

**Grade Type:** Pass/Fail

**Class hours:** 4 hours per week

**Prerequisite(s):** ESL 010 or appropriate placement score

## **ESL 049 - Communication Skills**

**Units:** 1

**When Offered:** As offered

This course is designed to help students develop skills for academic speaking. A variety of topics include meeting people, asking for information, controlling a conversation, being an active listener, making an appointment, visiting a teacher's office, participating in a group discussion, getting and giving advice, and presenting information to a small group.

**Grade Type:** Pass/Fail

**Class hours:** 2 hours per week

**Prerequisite(s):** ESL 009, 032, or appropriate placement score

## **ESL 050 - Reading and Academic Vocabulary III**

**Units:** 2

**When Offered:** As offered

In this course, students will read a variety of high intermediate academic texts that cover topics typically found in American university degree courses. Students will develop comprehension skills to enhance both their reading effectiveness and efficiency. Students will also improve their academic English vocabulary by using textual clues, dictionaries, and word analysis.

**Grade Type:** Pass/Fail

**Class hours:** 4 hours per week

**Prerequisite(s):** ESL 030 or appropriate placement score and departmental approval

## **ESL 051 - Writing and Grammar III**

**Units: 4**

**When Offered:** As offered

In this course, students will develop their high intermediate writing skills, with a focus on academic paragraphs and short essays. Students will learn to write paragraphs that are logical, coherent, and unified. Students will also practice writing different types of paragraphs, including descriptive, comparative, and persuasive. The course will also include a review of grammatical structures used to academic writing.

**Grade Type:** Pass/Fail

**Class hours:** 6 hours per week

**Prerequisite(s):** ESL 031 or appropriate placement score and departmental approval

## **ESL 052 - Listening and Speaking III**

**Units: 2**

**When Offered:** As offered

In this course, students will improve their high intermediate listening and speaking skills. Students will practice understanding basic academic discourse in lectures, and will learn to participate meaningfully in group discussions. Students will also practice giving academic oral presentations.

**Grade Type:** Pass/Fail

**Class hours:** 4 hours per week

**Prerequisite(s):** ESL 032 or appropriate placement score and departmental approval

## **ESL 053 - Professional English I**

**Units: 1**

**When Offered:** As offered

This course prepares students to enter Undergraduate and Graduate level courses by practicing all four communicative skills-listening, speaking, reading and writing - using the vocabulary and formats of business communication.

**Grade Type:** Pass/Fail

**Class hours:** 3 Lecture hours/week **Lab:** 1 Lab/week

**Prerequisite(s):** ESL 034 or appropriate placement score and departmental approval

## **ESL 054 - Preparation for University Success**

**Units: 2**

**When Offered:** As offered

This course is designed to provide High Intermediate ESL students with the perspectives and strategies common to the American university setting. Students will listen to lectures, practice participating in discussions, and give short presentations. Students will also discuss cultural similarities and difference related to university life.

**Grade Type:** Pass/Fail

**Class hours:** 4 hours per week

**Prerequisite(s):** ESL 032 or appropriate placement score and departmental approval

## **ESL 055 - Intermediate Grammar**

**Units: 2**

**When Offered:** As offered

In this course, students will improve their intermediate grammar so that they can better communicate in both speaking and writing. Students will review verb tenses and learn more complex grammatical structures including clauses, modals, and conditionals.

**Grade Type:** Pass/Fail

**Lecture:** 4 hours per week

**Prerequisite(s):** ESL 031 or appropriate placement score

## **ESL 070 - Reading and Academic Vocabulary IV**

**Units:** 2

**When Offered:** As offered

In this course, students will gain academic reading proficiency through weekly reading assignments at the advanced level. Students will be exposed to various fields of study, and will improve their reading comprehension, critical thinking, and understanding of academic vocabulary.

**Grade Type:** Pass/Fail

**Class hours:** 4 hours per week

**Prerequisite(s):** ESL 050 or appropriate placement score and departmental approval

## **ESL 071 - Writing and Grammar IV**

**Units:** 4

**When Offered:** As offered

This course is designed to assist students in developing their writing abilities in order to function successfully at the university academic level. The course focuses on learning different academic essay styles, improving writing and editing skills, and learning to do basic research and citation.

**Grade Type:** Pass/Fail

**Class hours:** 6 hours per week

**Prerequisite(s):** ESL 051 or appropriate placement score and departmental approval

## **ESL 072 - Listening and Speaking IV**

**Units:** 2

**When Offered:** As offered

In this course, students will practice oral/aural skills at an advanced level in order to be successful at the university academic level. Students will be able to understand lectures, give extensive oral presentations, and participate in academic discussions. Pronunciation skills and techniques will be taught as needed.

**Grade Type:** Pass/Fail

**Class hours:** 4 hours per week

**Prerequisite(s):** ESL 052 or appropriate placement score and departmental approval

## **ESL 073 - Introduction to Academic Research**

**Units:** 1

**When Offered:** As offered

In this course, students will be introduced to the basics of academic research. They will learn how to formulate a research question, evaluate sources, and integrate outside material into their writing. By the end of the semester, students will be able to write a short APA styled research paper.

**Grade Type:** Pass/Fail

**Class hours:** 2 hours per week

**Prerequisite(s):** ESL 050, 051, or appropriate placement score and departmental approval

## **ESL 074 - Academic Presentation Skills**

**Units:** 2

**When Offered:** As offered

This course will prepare students to give academic presentations, and to speak more confidently and effectively. Students will give individual and group presentations, participate in debates, and lead academic discussions.

**Grade Type:** Pass/Fail

**Class hours:** 4 hours per week

**Prerequisite(s):** ESL 052 or appropriate placement score and departmental approval

## **ESL 090 - Advanced Integration of Academic English Skills**

**Units:** 4

**When Offered:** As offered

In this course, students will develop their academic listening, speaking, reading, and writing skills in order to prepare them for their graduate programs. Course topics, activities and tasks will be chosen based on the needs of the students.

**Grade Type:** Pass/Fail

**Lecture:** 6 hours per week

**Prerequisite(s):** ESL 070, 071, 072, or appropriate placement score; departmental approval and graduate status

## **ESL 093 - Critical Analysis for Academic English**

**Units:** 2

**When Offered:** As offered

This course is designed to help ESL graduate students develop their critical analysis skills. Students will examine case studies, discuss opinions on current issues, participate in debates and public speaking, and learn how to conduct research to support their position on an issue.

**Grade Type:** Pass/Fail

**Class hours:** 4 hours per week

**Prerequisite(s):** ESL 073 or appropriate placement score; departmental approval and graduate status

## **ESL 094 - Advanced Academic Research**

**Units:** 3

**When Offered:** As offered

The purpose of this course is to give ESL graduate students an introduction to research writing, resources and strategies. Students will gain familiarity and experience with the basic steps of researching, writing, and submitting research papers. Students will be prepared to research and write scholarly papers in their chosen graduate fields of study, becoming familiar with the standards for publishing articles and papers within that field.

**Grade Type:** Pass/Fail

**Prerequisite(s):** ESL 071

## **ESL 099 - Language Lab**

**Units:** 1

**When Offered:** As offered

This lab will provide an opportunity for students to build on the language skills they learn in their lecture classes. Students will be able to practice listening, reading, writing, and pronunciation in the language lab.

**Repeatable:** May be repeated for a maximum of eight (8) units

**Grade Type:** Pass/Fail

**Lecture:** 2 hours per week

## **ESL 200 - Special Topics**

**Units:** 1-4

**When Offered:** As offered

Focuses on specific areas of academic disciplines to further prepare for continuation in traditional coursework.

**Repeatable:** May be repeated for a maximum of eighteen (18) unit with change in topic

**Grade Type:** Pass/Fail

## **Entrepreneurship**

### **ENT 357 - Small Business Management**

**Units:** 3

**When Offered:** Fall, Spring

This is a practice-oriented course covering major facets of small business with special focus on starting, financing, marketing, operating, and leading the people in a small business. Special emphasis is given to entrepreneurship and small business development.

**Grade Type:** Letter Grade

### **ENT 362 - Social Entrepreneurship**

**Units:** 3

**When Offered:** Spring (even years)

This course defines and explores the growing practice of social entrepreneurship and its impact here in the United States and around the world. The focus is on applying business skills and knowledge in a way that creates social change.

**Grade Type:** Letter Grade

### **ENT 442 - Opportunity and the Lean Startup**

**Units:** 3

**When Offered:** Fall, Spring

Students learn to recognize the difference between ideas and opportunities for the purpose of evaluating the likely commercial success of business concepts and ideas, using Lean Startup theory and experiments. The course is also suitable for non-business majors to learn how to evaluate an idea in their field or discipline as a potential entrepreneurial opportunity.

**Grade Type:** Letter Grade

### **ENT 462 - Entrepreneurial Behavior and Leadership**

**Units:** 3

**When Offered:** Fall (odd years)

An examination of theory and practice regarding behavior and leadership in organizations that leads to excellent job performance with particular focus on entrepreneurs, entrepreneurial leaders, and job performance in entrepreneurial organizations.

**Grade Type:** Letter Grade

## **Environmental Science**

### **ENV 110 - Introduction to Environmental Science with Lab**

**Units:** 4

**When Offered:** Fall

This interdisciplinary class approach to our environment emphasizes the study of the physical, chemical, biological problems of the Earth. It includes human interactions with the environment, the impact of human development, and

technology on the quality of natural resources and living organisms.

**Grade Type:** Letter Grade

**Lecture:** 3 units **Lab:** 1 unit

**Fee:** Additional lab fee

## **ENV 151 - Introduction to the Geosciences**

**Units:** 3

**When Offered:** Fall, Spring, & Online

A general study of the geosciences including the areas of astronomy, meteorology and climate, geology, and oceanography.

**Grade Type:** Letter Grade

## **ENV 151L - Introduction to the Geosciences Lab**

**Units:** 1

**When Offered:** Fall, Spring, & Online

A laboratory experience designed to illustrate and reinforce geosciences principles and to introduce basic geosciences laboratory techniques.

**Grade Type:** Letter Grade

**Fee:** Additional lab fee

**Pre- or Co- Requisite(s):** ENV 151

## **ENV 310 - Sustainable Agriculture and Population Dynamics**

**Units:** 3

**When Offered:** Spring (odd years)

This course explores diverse aspects of agriculture and agriculture sustainability, primarily from various natural science perspectives. Techniques of organic and sustainable agriculture will be emphasized. This course also touches on the social, political, and economic forces that relate to farming communities, food production and distribution, and consumption.

**Grade Type:** Letter Grade

## **ENV 350L - Urban Agriculture Lab**

**Units:** 1

**When Offered:** Fall

This laboratory experience is designed to teach students about the basic concepts of urban agriculture. Students will gain hands on experience in the field of urban agriculture ranging from topics such as hydroponics, soil quality, composting, worm farming, erosion control, plant cloning and propagation, micro-greens, and how to grow food in planter boxes or small containers. Students will be taught a wide range of agricultural principles related to urban farming, urban gardening, and how to grow and distribute food locally in a sustainable system.

**Grade Type:** Letter Grade

**Fee:** Additional lab fee

## **ENV 360 - Environmental Chemistry with Lab**

**Units:** 4

**When Offered:** Spring (odd years)

Environmental Chemistry is intended to provide the student with an understanding of the key environmental problems our world faces, by exploring the chemistry of our air, water, and soil and integrating this in order to describe human

and ecological exposures to chemicals in the environment.

**Grade Type:** Letter Grade

**Lecture:** 3 units **Lab:** 1 unit

**Fee:** Additional lab fee

**Prerequisite(s):** CHE 125, 125L, and either BIO 146 or 148

## **ENV 370 - Soil and Water**

**Units:** 3

**When Offered:** Spring (even years)

This course assesses the importance of soil and water as natural resources for ecosystems and societies. Soil and water resources, soil erosion, government conservation programs, water conservation, irrigation, salinity and drainage will be discussed. Understanding the principles of the soil water cycle to improve water use efficiency of dry land and irrigate systems. Understand how to utilize soil resource assessment tools to make land management decisions.

**Grade Type:** Letter Grade

**Prerequisite(s):** ENV 110

## **ENV 380 - Environmental Science Seminar**

**Units:** 1

**When Offered:** Spring

An introduction to performing environmental science research including lectures and discussions on literature research, scientific writing, reading scientific journal articles, public speaking, Job interview and resume preparation, and professional conduct. Students make both written and oral presentations on topics in Environmental Sciences.

**Grade Type:** Letter Grade

## **ENV 390 - Stewardship of the Environment**

**Units:** 3

**When Offered:** Fall (even years)

Show the effect of human on a local, regional, and global scale of biodiversity and environment. Topics include sustainability, environmental changes, alternative energy, global warming, deforestations, and environmental quality. Case studies will be used to examine environmental issues associated with a human population.

**Grade Type:** Letter Grade

**Prerequisite(s):** ENV 110

## **ENV 400 - Special Topics in Environmental Science**

**Units:** 1-4

**When Offered:** As offered

Concentration upon a specific topic in the field of Environmental Science. Topic varies for different semesters.

**Repeatable:** May be repeated for a maximum of eight (8) units with change in topic

**Grade Type:** Letter Grade

## **ENV 400L - Special Topics in Environmental Science Lab**

**Units:** 1

**When Offered:** As offered

This laboratory course will be offered in conjunction with the special topics course to provide instruction with hands on experience. Topic varies for different semesters.

**Repeatable:** May be repeated one (1) time with change in topic

**Grade Type:** Letter Grade

**Fee:** Additional lab fee

## **ENV 430 - Sustainability and Conservation with Lab**

**Units: 4**

**When Offered:** Spring (odd years)

Sustainability and Conservation is the science of preserving biodiversity and sustaining the earth. This is an interdisciplinary course that examines the human impact on biodiversity and the earth. The course synthesizes the fields of ecology, environmental science, evolution, genetics, philosophy, economics, sociology, and political science, with emphasis on the development of strategies for preserving populations, species, biological communities, and entire ecosystems.

**Grade Type:** Letter Grade

## **ENV 450 - Environmental Organic Chemistry with Lab**

**Units: 4**

**When Offered:** Fall (odd years)

This course focuses on the fundamental processes that govern the fate and transport of anthropogenic organic chemicals in the natural environment. This course explores chemical and physical properties of organic contaminants, relationship for organic chemicals solubility and partitioning between the phases of interest; water, soil, air, and biota, and transformation processes.

**Grade Type:** Letter Grade

**Lecture:** 3 units **Lab:** 1 unit

**Fee:** Additional lab fee

**Prerequisite(s):** CHE 125, 125L, and ENV 360

## **ENV 451 - Advanced Geoscience with Lab**

**Units: 4**

**When Offered:** Fall, Spring

An advanced study of the geosciences including the areas of astronomy, meteorology and climate, geology, and oceanography. The laboratory experience is designed to illustrate and reinforce geosciences principles and to introduce basic geosciences laboratory techniques.

**Grade Type:** Letter Grade

**Lecture:** 3 units **Lab:** 1 unit

**Fee:** Additional lab fee

**Prerequisite(s):** CHE 115 and 115L

## **ENV 470 - Advanced Environmental Science with Lab**

**Units: 4**

**When Offered:** Spring (even years)

Explores the fundamental principles of and issues of environmental studies including the history of environmental concerns, biomes, species interactions with each other and their environment, air, water, soil and biological resources. Topics include soil science and soil as a natural resource, physical and chemical aspects of the atmosphere and water resources.

**Grade Type:** Letter Grade

**Lecture:** 3 units **Lab:** 1 unit

**Fee:** Additional lab fee

**Prerequisite(s):** CHE 115, 115L, and ENV 110



## **ENV 490 - Research in Environmental Science**

**Units: 1-4**

**When Offered:** Fall, Spring, Summer

This class focuses on laboratory and field research projects and topics of current or historical interests in environmental science. Individual research on a problem relating to environmental science will be conducted under the guidance of an instructor.

**Repeatable:** May be repeated for a maximum of eight (8) units with change in topic

**Grade Type:** Letter Grade

**Prerequisite(s):** ENV 470 and permission of the Department Chair

## **ENV 495 - Field Practicum**

**Units: 3**

**When Offered:** As offered

This course is designed to allow students to participate in an extended discipline specific experience through approved programs in the area of environmental science. In addition to the required field experience, it is designed to be an exercise for students to reflect upon, evaluate, and assimilate knowledge and experience they have gained through their course of study and practicum. Students in this course will prepare a presentation (both written and oral) that will focus on that experience.

**Repeatable:** May be repeated for a maximum of six (6) units

**Grade Type:** Letter Grade

**Prerequisite(s):** Permission of the Department Chair

## **ENV 495G - Field Practicum**

**Units: 3**

**When Offered:** As offered

This course is designed to allow students to participate in an extended discipline specific experience through approved programs in the area of environmental science. In addition to the required field experience, it is designed to be an exercise for students to reflect upon, evaluate, and assimilate knowledge and experience they have gained through their course of study and practicum. Students in this course will prepare a presentation (both written and oral) that will focus on that experience. Students registered in this section will participate in a global practicum experience during which the skills learned throughout the semester will be applied in a global setting.

**Repeatable:** May be repeated for a maximum of six (6) units

**Grade Type:** Letter Grade

**Fee:** Additional trip fee(s)

**Prerequisite(s):** Permission of the Department Chair

## **Film**

### **FLM 105 - Introduction to Film**

**Units: 3**

**When Offered:** Fall, Spring

This course offers an introduction to methods and approaches for the study of film. Students will learn film terminology and its effective application in film analysis. Students also will develop, maintain, and improve strategies for close-reading individual shots and sequences, interpreting cinematic narrative and technique, and for negotiating various critical and theoretical paradigms of film study.

**Grade Type:** Letter Grade

## **FLM 150 - Film History**

**Units: 3**

**When Offered:** Spring

This course studies the development of film history from its beginnings in the late nineteenth century up to the present day. As the growth of cinema has been a global phenomenon, we will look at major films, filmmakers, and film movements in the United States and around the world.

**Grade Type:** Letter Grade

**Pre- or Co- Requisite(s):** ENG 123 or 123E, and FLM 105

## **FLM 200 - Special Topics in Film**

**Units: 3**

**When Offered:** As offered

This course focuses on a different subject in the field of cinema studies each time it is offered. Designed to reflect both our rapidly changing culture and the technologically progressive nature of the film industry, this course is devoted to a critical examination of film with regard to, for example, time period, genre, theme, etc.

**Repeatable:** May be repeated for credit with change in topic

**Grade Type:** Letter Grade

**Prerequisite(s):** FLM 250

## **FLM 210 - Film Genre**

**Units: 3**

**When Offered:** As offered

This introduction to genre studies will survey the development of at least one major film genre, such as the Western, the romantic comedy, the war film, or film noir. Alternatively, several genres may be covered in one semester.

Assigned films will be accompanied by readings in relevant critical and literary texts. Contact professor for specific content information.

**Grade Type:** Letter Grade

**Prerequisite(s):** FLM 105 or 150

## **FLM 250 - Film Theory and Criticism**

**Units: 3**

**When Offered:** Spring

This course introduces students to the major areas and concepts of film theory and criticism, from their inception in the early twentieth century to the present. It examines how various film theories, as part of a long-standing tradition of critical reflections on life and the arts in general, evolve and interact with one another and with neighboring discourses, nationally and internationally. Knowledge and skills gained in this class will prepare students for further upper-division film courses, in which film theory and criticism will function as important analytical tools.

**Grade Type:** Letter Grade

**Prerequisite(s):** FLM 105 and 150

## **FLM 300 - National Cinema**

**Units: 3**

**When Offered:** Spring (even years)

National Cinema is an advanced course focusing on the most significant films and filmmakers of one country. It looks at cinematic history and practice in the nation being covered and may include a consideration of popular, independent, and/or art film. The course may cover the entire history of cinema in one nation or focus on a particular type of film or

cinematic movement in one country. Special attention will be paid to the socio-historical contexts of the films assigned during the course.

**Repeatable:** May be repeated for credit with change in topic

**Grade Type:** Letter Grade

**Prerequisite(s):** FLM 150

## **FLM 301 - Basic Screenwriting**

**Units:** 3

**When Offered:** Fall

This course is an introduction to the basic principles of writing for the screen. The elements of theme, plot, character, and dialogue in dramatic writing for cinema will be studied. Students will learn how to construct screenplays by closely examining produced films, reading film scripts, and writing their own short screenplays. The course will provide a foundation in the basics of the three-act structure, dramatic action, character arc, the revision process, and an introduction to the business of screenwriting. By the end of the semester, students will have produced and polished a twenty- to thirty-page screenplay for a short film suitable for production.

**Grade Type:** Letter Grade

**Prerequisite(s):** ENG 113 or 113E, and FLM 105

## **FLM 302 - Writing Short Screenplays**

**Units:** 3

**When Offered:** Spring (odd years)

This course is an intermediate level treatment of the principles of writing for the screen. It expands on the concepts covered in FLM 301 - Basic Screenwriting, deepening the students' knowledge of the elements of theme, plot, character, and dialogue in dramatic writing for cinema while building the students' skills in the development of these elements in their own writing. By the end of the semester, students will have produced and polished screenplay for a one-hour film.

**Grade Type:** Letter Grade

**Prerequisite(s):** ENG 113, 113E, or FLM 105

## **FLM 303 - Asian Cinema**

**Units:** 3

**When Offered:** As offered

This survey course offers a unique opportunity to screen and study technically innovative and culturally significant feature films from China, India, Japan, South Korea, Vietnam, Hong Kong, and Taiwan. Special attention will be given to the diverse genres in Asian cinema and the dynamic interactions between filmmaking and socio-historical transformation. An East-West comparative approach will be encouraged.

**Grade Type:** Letter Grade

**Prerequisite(s):** FLM 105 and 150

## **FLM 305 - Christianity and Film**

**Units:** 3

**When Offered:** Spring (odd years)

This course centers on the close reading of both religious and secular filmic texts in order to better understand the ideology that is wrapped within these artifacts of culture. Students will describe and analyze how these cinematic texts communicate both Christian and anti-Christian philosophical and theological arguments, which have the power to shape the horizons of the mind and impact culture.

**Grade Type:** Letter Grade

**Prerequisite(s):** ENG 123 or 123E

## **FLM 320 - Sundance Film Festival with Windrider Forum**

**Units: 3**

**When Offered:** Spring

This is a course centers on the legendary Sundance Film Festival, including attendance of the festival in Park City, Utah, in conjunction with Fuller Seminary's Windrider Forum, which brings together students from Christian universities all over the US for a colloquium on the relationship between Christianity (and spirituality more generally) and cinema.

**Grade Type:** Letter Grade

**Fee:** Additional fee

**Prerequisite(s):** Film major or minor, or permission of the Dean

## **FLM 340 - Major Directors**

**Units: 3**

**When Offered:** Fall (odd years)

With attention to theories about authorship and the auteur, this course surveys the work of one or two major directors. This course may treat a canonical auteur, such as Orson Welles, Alfred Hitchcock, or Akira Kurosawa, or may focus upon figures historically marginalized within cinema studies, such Oscar Micheaux, Ida Lupino, or Sam Fuller.

**Grade Type:** Letter Grade

**Prerequisite(s):** FLM 150

## **FLM 350 - Film and Literature**

**Units: 3**

**When Offered:** Fall

This course addresses the adaptation of literature to film. It examines diverse concepts and theories that have been applied to cinematic adaptations of literary texts as part of a larger constellation of issues, including the development of cinematic language, approaches to genre studies, and an appreciation for cinematic visions in literary texts. In addition to film screenings, course readings will include prose fiction and film criticism.

**Grade Type:** Letter Grade

**Prerequisite(s):** ENG 123 or 123E

## **FLM 370 - Writing for Streaming Media**

**Units: 3**

**When Offered:** Fall (even years)

This course is an introduction to the basic principles of writing for streaming media. Students will be immersed in what makes for a successful series comedy or drama script: premise, character, story, scene writing, and dialogue. Several past and current series from broadcast, cable, and streaming platforms will be analyzed throughout the semester. The course will provide a foundation in the basics of writing the scripted series and an introduction to the business of scripted series writing and production. By the end of the semester, students will have written a polished pilot episode script suitable for production.

**Grade Type:** Letter Grade

**Prerequisite(s):** ENG 113, 113E, or FLM 105

## **FLM 390 - Film Industry**

**Units: 3**

**When Offered:** Fall

This course introduces students to an overview of the film industry broadly and examines the evolving structures of

development, production, and distribution for a worldwide market.

**Grade Type:** Letter Grade

### **FLM 399 - Independent Study**

**Units:** 3

**When Offered:** As offered

This course is designed to afford the superior student an opportunity to work independently on subject matter of the student's choosing. Supervision and evaluation will be provided by a member of the Film Studies faculty.

**Grade Type:** Letter Grade

**Prerequisite(s):** Permission of the Dean

### **FLM 400 - Special Topics in Film**

**Units:** 3

**When Offered:** As offered

This course focuses on a different subject in the field of cinema studies each time it is offered. Designed to reflect both our rapidly changing culture and the technologically progressive nature of the film industry, this course is devoted to a critical examination of film with regard to, for example, time period, genre, theme, etc.

**Repeatable:** May be repeated for credit with change in topic

**Grade Type:** Letter Grade

**Prerequisite(s):** FLM 250

### **FLM 403 - Writing Adapted Screenplays**

**Units:** 3

**When Offered:** Spring (even years)

This is a course in the art of writing a feature-length film script based on a piece of literature or other literary material. Contemporary feature film structure paradigms will be reviewed as the student (individually or in pairs) crafts their own feature-length screenplay from a self-selected literary source. The art of the studio "pitch" used to sell a screenplay also will be reviewed and practiced.

**Grade Type:** Letter Grade

**Prerequisite(s):** ENG 113, 113E, or FLM 105

### **FLM 420 - Independent Film and Counter-Cinema**

**Units:** 3

**When Offered:** Fall (even years)

Independent Film and Counter-cinema is an advanced course that studies diverse film texts considered "independent" while examining the varied and constantly evolving definition of independent film. In addition, the course investigates counter-cinema -- film that actively opposes mainstream cinema, offering alternative discourses -- and explores the complex relationship between independent film and counter-cinema.

**Grade Type:** Letter Grade

**Prerequisite(s):** FLM 250

### **FLM 430 - Film and Sound**

**Units:** 3

**When Offered:** As offered

Thoughtfully addressing the importance of film's auditory component, which is often ignored or taken for granted by visually-dominated studies of the moving pictures, this course critically engages the importance of sound to cinema,

from a theoretical as well as a historical perspective.

**Grade Type:** Letter Grade

**Prerequisite(s):** FLM 250

## **FLM 450 - World Cinema**

**Units:** 3

**When Offered:** Fall

World Cinema is an advanced course focusing on films made outside of North America and their socio-historical contexts. It looks at cinematic history and practice in diverse nations and introduces students to a range of non-Hollywood film styles and forms, including popular and art cinemas, from across the globe.

**Repeatable:** May be repeated for credit with change in topic

**Grade Type:** Letter Grade

**Prerequisite(s):** FLM 250

## **FLM 470 - Adaptation and Intertextuality**

**Units:** 3

**When Offered:** Spring (odd years)

This advanced course focuses on diverse texts and theories regarding adaptation and intertextuality as they impact film and other media. The course explores the ways in which texts are adapted from one medium into other media and the ways in which texts intersect and communicate with one another. The complex manner in which adaptation and intertextuality function in our media-saturated, global culture is investigated. Texts that might be examined in this course include films, video games, television shows, novels, comics/graphic novels, operas, and musicals. Course content will vary.

**Grade Type:** Letter Grade

**Prerequisite(s):** FLM 250

## **FLM 491 - Film Practicum**

**Units:** 1-15

**When Offered:** As offered

Students participate in an internship experience in some aspect of the Hollywood film or television industry. These are non-paying positions that may be part of an actual Hollywood film or television production, or similar entertainment industry experience with development companies, agencies, producers, etc. Unit value will vary in relation to time commitment and the individual's learning contract. Students will be supervised by a member of the Film Studies faculty.

**Grade Type:** Letter Grade

**Prerequisite(s):** FLM 250 and Junior status

## **FLM 499 - Senior Capstone Project**

**Units:** 3

**When Offered:** Fall, Spring

This three-unit senior capstone project serves to assess the subject matter competence of the Film Studies major. During the semester, students will compose a philosophy statement, compile a portfolio of previous work, and complete a capstone paper or film project. The class meets with its instructor one hour per week while completing the tasks of the course.

**Grade Type:** Letter Grade

**Prerequisite(s):** Permission of the Dean

# Film Production

## FLP 170 - Film Production I: Visual Storytelling

**Units:** 3

**When Offered:** Spring

An introduction to the production of visual storytelling content. Each student will write, direct, and edit a series of exploratory production exercises. The primary emphasis is on telling a compelling story by employing basic cinematography, lighting, editing, sound, and on-camera talent to involve an audience emotionally with the characters on screen. This course is restricted to Film majors and minors only.

**Grade Type:** Letter Grade

**Fee:** Additional course fee

**Pre- or Co- Requisite(s):** FLM 105

## FLP 180 - Video Editing and Post Production I

**Units:** 3

**When Offered:** Spring

A study of advanced cinematic storytelling principles as they are expressed through editing. This course analyzes examples from important films and other media that demonstrate how rhythm, timing, pace, emotion, sound, and other dramatic aesthetics affect the viewer's perceptions and the success of the sequence. Each student will develop technical skills through weekly editing assignments and the completion of a complex editing project. Students learn skills and techniques of cinematic storytelling via the editing and post production processes. The course emphasizes proficiency using a nonlinear editing system, the history of significant achievement in editing, and the editor's unique role in the post production process.

**Grade Type:** Letter Grade

## FLP 306 - Film Production II: Creative Producing

**Units:** 3

**When Offered:** Fall

This class will approach film production from prep to post from the perspective of the independent film creative producer, with each student producing and directing two short films in addition to introductory workshops on all the different departments, including technical areas such as grip, electric, and camera. Students will learn how to break down and budget a script, schedule a shoot, create and fill out paperwork, such as deal memos, call sheets, contracts, location scouting, and holding auditions.

**Grade Type:** Letter Grade

**Fee:** Additional course fee

**Prerequisite(s):** FLP 170

**Pre- or Co- Requisite(s):** FLM 301

## FLP 360 - Cinematography

**Units:** 3

**When Offered:** Spring

An introduction to the fundamental tools and principles used by cinematographers to create digital or film images generated from the context of the story. Curriculum covers visualization, digital manipulation, sensitometry, filters and lenses, lighting, color, processing procedures, camera systems, special effects, and image control.

**Grade Type:** Letter Grade

**Fee:** Additional course fee

**Prerequisite(s):** FLP 306

## **FLP 380 - Video Editing and Post Production II**

**Units: 3**

**When Offered:** Fall (even years)

Provides students with an intensive hands-on experience editing under the supervision of the professor while further developing their skills and techniques of cinematic storytelling via the editing and post production processes, with an emphasis on the role of editing on cinematic and artistic masterpieces from every genre while students work on creating their own film festival ready short film from already existing film and sound elements.

**Grade Type:** Letter Grade

**Prerequisite(s):** FLP 180

## **FLP 406 - Film Directing**

**Units: 3**

**When Offered:** Fall

This course explores a range of ideas, methods, and theories of narrative film directing. While helping students understand the director's complex functions in the creative process of directing, the course mainly focuses on the study of and practice in two areas: directing the camera and directing actors. Significant time is devoted to the understanding of acting and working with actors (casting, rehearsal, character development, and performing for the camera). Students will work in groups on a series of focused short projects to build the creative experience step by step.

**Grade Type:** Letter Grade

**Prerequisite(s):** FLP 360

## **Finance**

### **FIN 101 - Personal Financial Management**

**Units: 3**

**When Offered:** Fall, Spring

An overview of personal financial management offers students power over financial resources, freedom to give generously, and insight for better citizenship. The course emphasizes concepts such as goal setting, budgeting, debt management, investing, major purchases, insurance, and retirement and estate planning.

**Grade Type:** Letter Grade

### **FIN 310 - Intermediate Business Finance**

**Units: 3**

**When Offered:** Spring

An overview of long-term financing topics intended to prepare the students for upper division courses covering additional finance areas. Course includes advanced components of corporate finance with an emphasis on the practices that shape the financial decision-making process. These include risk and return models, valuation of securities, capital budgeting, and capital structure decisions.

**Grade Type:** Letter Grade

**Prerequisite(s):** BUS 303

### **FIN 325 - Financial Markets and Institutions**

**Units: 3**

**When Offered:** Spring

Students examine the role of regulators, depository institutions, insurance companies, and financial markets in the process of intermediation. Key concepts include interest rate determination, methods of security valuation, managing



commercial banking, and risk management in financial institutions.

**Grade Type:** Letter Grade

**Prerequisite(s):** BUS 218 and 303

## **FIN 350 - Insurance Planning**

**Units:** 3

**When Offered:** Spring

Course focuses on identifying risk factors and developing appropriate strategies to mitigate those factors. Students learn and demonstrate an insurance needs analysis for individuals. Health, disability, long-term care, and life insurances plus annuities will be addressed at the individual level.

**Grade Type:** Letter Grade

**Prerequisite(s):** FIN 101

## **FIN 405 - Financial Analysis and Forecasting**

**Units:** 3

**When Offered:** Fall

This course covers a more in-depth analysis of financial statements and the integration of financial forecasting based on interpreting financial data and performance. Students will evaluate investment alternatives and apply risk analysis to the valuation process from a decision-makers' perspective.

**Grade Type:** Letter Grade

**Prerequisite(s):** BUS 315, and either FIN 310 or ACC 311

## **FIN 415 - Investments**

**Units:** 3

**When Offered:** Spring

This course provides an overview of investment principles and practices with an emphasis on financial markets and pricing models. Topics covered include the securities markets, risk and return relationships, portfolio theory and the capital asset pricing model, debt securities, derivatives, and security analysis covering equity valuation. In addition, the student will participate in a real-time stock market stimulation throughout the course.

**Grade Type:** Letter Grade

**Prerequisite(s):** BUS 303

## **FIN 423 - Retirement Planning**

**Units:** 3

**When Offered:** Spring

Course focuses on key components, legal requirements, and restrictions, related to effective retirement planning. Specific topics are types of retirement plans and the regulatory and tax considerations within retirement planning.

**Grade Type:** Letter Grade

**Prerequisite(s):** BUS 303

## **FIN 428 - Estate Planning**

**Units:** 3

**When Offered:** Fall

Course focuses on key components, legal requirements, and restrictions, related to effective estate planning. Specific topics are implementing gifts, trusts, and life insurance as means of transferring assets after death, and regulatory and tax considerations within estate planning.

**Grade Type:** Letter Grade  
**Pre- or Co- Requisite(s):** FIN 423

## **FIN 430 - Risk Management**

**Units:** 3

**When Offered:** Spring

This course focuses on identifying risk factors and developing appropriate strategies to mitigate those factors. Specific topics of focus include credit, market, technological, and operational risk from a corporate perspective and insurance needs analysis for businesses. Overview of the role derivatives play in mitigating risk included.

**Grade Type:** Letter Grade

**Prerequisite(s):** FIN 325

## **FIN 485 - Financial Planning Capstone**

**Units:** 3

**When Offered:** Spring

Course requires students to synthesize and apply elements of comprehensive financial planning within a biblical context. Students to perform all functions of the financial planning process and apply to the Certified Financial Planner (CFP) Board's Practice Standards.

**Grade Type:** Letter Grade

**Prerequisite(s):** FIN 350, 423, and 428

## **FIN 489 - Finance Practicum**

**Units:** 1

**When Offered:** Fall, Spring

Students will apply finance knowledge to collaboratively complete a designated project for an outside organization or practice portfolio management with the student-managed investment fund.

**Repeatable:** May be repeated for a maximum of six (6) units

**Grade Type:** Letter Grade

**Prerequisite(s):** Permission of the Dean

## **FIN 491 - Internship in Finance**

**Units:** 1-3

**When Offered:** Fall, Spring, Summer

A practiced application of finance principles in a business or campus setting under professional supervision.

**Repeatable:** May be repeated for a maximum of six (6) units

**Grade Type:** Pass/Fail

**Prerequisite(s):** Permission of the Dean

## **Fine Art**

### **ART 200 - Special Problems in Art**

**Units:** 1-3

**When Offered:** As offered

Specialized instruction in various media. For the advanced art student capable of exploring a personal direction in his/her creative work.

**Repeatable:** May be repeated twice for credit with change of topic

**Grade Type:** Letter Grade

## **ART 201 - Principles of Design and Color**

**Units:** 3

**When Offered:** Fall, Spring

An introduction to the principles of two-dimensional design and color theory and their use as tools for effective visual communication.

**Grade Type:** Letter Grade

## **ART 202 - Art Appreciation**

**Units:** 3

**When Offered:** As offered & Online

The class will discuss art in its broadest context. Students will recognize and appreciate their impulse to create by considering the role of the artist through history, across cultures, and in our own time. The students will develop a working familiarity with art in general so art becomes a natural component of understanding the world.

**Grade Type:** Letter Grade

## **ART 204 - Drawing I**

**Units:** 3

**When Offered:** Fall, Spring, & Online

This course is one of the foundation courses that develop the perceptual and technical skills for effective drawing. Presents drawing as an essential tool for visual expression. This course is also recommended for general education.

**Grade Type:** Letter Grade

## **ART 208 - Studio Drawing I**

**Units:** 4

**When Offered:** Spring

This course functions as the introductory drawing course for Art majors and minors. In it, the perceptual and technical skills, and the basic media of drawing are introduced and exercised. Drawing as a historic art form is studied and used to develop a sophisticated awareness of its current expressive potential. Credit cannot be earned for ART 204 and 208.

**Grade Type:** Letter Grade

## **ART 225 - Sculpture I**

**Units:** 3

**When Offered:** Fall (odd years)

Basic elements of sculpture. Creating forms in clay, plaster, paper, and multi-media techniques.

**Grade Type:** Letter Grade

**Fee:** Additional lab fee

## **ART 232 - Ceramics I**

**Units:** 3

**When Offered:** Fall, Spring

Introduction to working with clay, using pinch, coil, slab and wheel; applying glazes, exploring decorating techniques using oxides. History of clay as an art form.

**Grade Type:** Letter Grade

**Fee:** Additional lab fee

## **ART 241 - Global History of Art: Ancient to Medieval**

**Units:** 3

**When Offered:** Fall (odd years)

This course will introduce you to the major monuments of art and architecture across the globe beginning with prehistoric civilizations and ending with medieval societies. As a survey, we will be covering a wide range of objects, concepts, terms, chronology, and geography.

**Grade Type:** Letter Grade

## **ART 242 - Global History of Art: Renaissance to Contemporary**

**Units:** 3

**When Offered:** Fall (even years)

This course will introduce you to the major monuments of art and architecture across the globe beginning with medieval societies and ending with the modern world. As a survey, we will be covering a wide range of objects, concepts, terms, chronology, and geography.

**Grade Type:** Letter Grade

## **ART 283 - Painting I**

**Units:** 4

**When Offered:** Fall (even years)

Projects introduce traditional painting methods in oils or acrylic paints. Applied studio work, slide lectures, group discussions, and field trips are possible.

**Repeatable:** May be repeated one time for credit

**Grade Type:** Letter Grade

**Prerequisite(s):** ART 201, 204, or 208

## **ART 300 - Advanced Art**

**Units:** 4

**When Offered:** Fall (even years)

An essential course for the serious art student. Projects include multimedia community outreach opportunities; such past projects have been local elementary school murals, public sculptures, and collaborations with other departments on campus. More experimental art processes will also be explored in this class such as indigo dye painting, cyanotypes, and image transfer techniques. Emphasis on developing individual student skills and concepts.

**Grade Type:** Letter Grade

**Fee:** Additional lab fee

**Prerequisite(s):** ART 201, 204, or 208

## **ART 301 - Color, Theory, and Application**

**Units:** 4

**When Offered:** Spring

This is a combination studio and lecture course that focuses exclusively on issues of color, its aesthetic, symbolic and psychological dimensions, as related to visual expression. This content is applicable to both fine art and design-related fields.

**Grade Type:** Letter Grade

**Prerequisite(s):** ART 201 or ARC 122

## **ART 304 - Perspective Drawing**

**Units: 4**

**When Offered:** Spring (even years)

This course concentrates on developing a mastery of the two principle means for creating the illusion of space on a two-dimensional surface: arial and linear perspective.

**Grade Type:** Letter Grade

**Prerequisite(s):** ART 204 or 208

## **ART 305 - Figure Drawing I**

**Units: 4**

**When Offered:** Fall

This course is dedicated to developing facility at rendering the human form in a variety of dry media. The context for this is drawing from live models (clothed), augmented with anatomical drawing exercises. It will also introduce students to the metaphorical and expressive possibilities of the human form.

**Grade Type:** Letter Grade

**Prerequisite(s):** ART 204 or 208

## **ART 314 - Drawing II**

**Units: 4**

**When Offered:** As offered

This course is a continuation and expansion of more advanced techniques in drawing. There will be an emphasis on concept building and storytelling through visual imagery. Students will explore new ways to think and approach drawing and the drawing surface.

**Grade Type:** Letter Grade

**Fee:** Additional lab fee

**Prerequisite(s):** ART 204 or 208

## **ART 323 - New Genre**

**Units: 4**

**When Offered:** As offered

This course is an introduction and exploration in inter-media art. It will encourage interface and comparison within art and other disciplines.

**Grade Type:** Letter Grade

## **ART 325 - Sculpture II**

**Units: 4**

**When Offered:** Spring (even years)

Sculpture II is an expansion of Sculpture I. There will be an emphasis on scale and new materials such as wood, metal, and found object assemblage. A large scale collaborative object for community outreach also gets explored in this class as well as a history in object making and their various functions.

**Grade Type:** Letter Grade

**Prerequisite(s):** ART 225

## **ART 326 - Contemporary Art Issues**

**Units: 3**

**When Offered:** As offered

Students will be reading writings by a variety of cultural theorists and historians, site visits, guest speakers, experiments and class discussions. Topics of Fine Art vs. Visual Culture (mass culture, printed matter, etc.) will be major points of exploration and discussion. This course is not a studio class but a class which discusses studio practices and ideas.

**Grade Type:** Letter Grade

**Prerequisite(s):** ART 241 or 242

## **ART 345 - Nineteenth Century Art History**

**Units: 3**

**When Offered:** As offered

A study of the major developments in the visual arts in Europe from David to the first Impressionist show in 1874. Lecture and slides.

**Grade Type:** Letter Grade

**Prerequisite(s):** ART 241 or 242

## **ART 346 - History of Modern Painting**

**Units: 3**

**When Offered:** As offered

A study of the development of modern painting from the French Impressionist movement to the present day in the United States. Lecture and slides.

**Grade Type:** Letter Grade

**Prerequisite(s):** ART 241 or 242

## **ART 347 - Contemporary Art History**

**Units: 3**

**When Offered:** As offered

This course critically examines visual art and design on a global scale from 1945 to the present. We will consider art in its broader framework of "visual culture" that includes performance, installation, print media, video, and propaganda.

**Grade Type:** Letter Grade

**Prerequisite(s):** ART 241 or 242

## **ART 350 - Gallery Methods**

**Units: 3**

**When Offered:** As offered

In this course students will be learn the basics of gallery design and installation. This includes general theories pertaining to the exhibition space and the evolving history of the gallery. In addition, students will gain practical experience installing exhibitions.

**Repeatable:** May be repeated for a maximum of six (6) units

**Grade Type:** Letter Grade

**Prerequisite(s):** ART 241 or 242

## **ART 351 - Museum Studies**

**Units: 3****When Offered:** Fall (odd years)

The course will examine the pivotal role that the curators play in museums, and the ways in which the expanding art-world functions today. It will introduce students to aspects of museum work, with an emphasis on the role of the fine arts curator and curatorial theory and how this can integrate with becoming a professional arts administrator.

**Repeatable:** May be repeated one time for credit**Grade Type:** Letter Grade**Prerequisite(s):** ART 241, 242, or PHO 140**ART 353 - Ceramics II****Units: 4****When Offered:** Spring

Developing clay as an art form; study of properties of clay, glaze and their origin; fusion of materials; stacking and loading kiln, emphasis on wheel throwing.

**Grade Type:** Letter Grade**Prerequisite(s):** ART 232**ART 354 - Printmaking****Units: 4****When Offered:** As offered

This is a studio course designed to facilitate the creation of original prints using a variety of advanced printmaking techniques. Methods such as monotype, relief (woodcut, linoleum), and intaglio will be explored.

**Grade Type:** Letter Grade**Fee:** Additional course fee**Prerequisite(s):** ART 201, and either 204 or 208**ART 355 - Contemporary Art Practice****Units: 4****When Offered:** Spring (odd years)

This course focuses on contemporary art practice through theoretical analysis and applied studio practice. Through text, discussion, fieldtrip, lecture and making, assignments will address contemporary issues in the arts to expose students to advanced practices of installation, relational aesthetics and new media.

**Grade Type:** Letter Grade**Prerequisite(s):** ART 201, 204, or 208**ART 361 - Art of Latin America****Units: 3****When Offered:** As offered

As an introduction to the ancient Americas, this course will focus on seven major cultures in Mesoamerica (Olmec, Teotihuacan, Maya, and Aztec) and Andean South America (Chavín, Moche, and Inca). The course concludes with the arrival of Spanish explorers in the 16th century and a brief analysis of new visual forms produced in response to new social, political, and religious contexts.

**Grade Type:** Letter Grade**Prerequisite(s):** ART 241 or 242**ART 371 - Art of Southeast Asia**

**Units: 3****When Offered:** As offered

This course covers the development of art in India and Southeast Asia (i.e. Cambodia, Thailand, Burma (Myanmar), Vietnam, and Indonesia) from pre-historic periods to the present.

**Grade Type:** Letter Grade**Prerequisite(s):** ART 241 or 242**ART 381 - Women in the Arts****Units: 3****When Offered:** As offered

This course will focus on women both as the subjects and the creators of art. It will be organized chronologically and thematically. This will involve a historical survey of women artists and their artistic contributions, as well as an examination of the religious, mythological and secular images of women in art. Extensive attention will be given to the creation, modification, and persistence of these images throughout history, due to their respective religious, social, economical, psychological, and intellectual conditions.

**Grade Type:** Letter Grade**Prerequisite(s):** ART 241 or 242**ART 383 - Painting II****Units: 4****When Offered:** Spring (odd years)

Projects further develop skills learned in ART 283 - Painting I. Applied studio work, slide lectures, group discussions, and field trips are possible.

**Grade Type:** Letter Grade**Prerequisite(s):** ART 283**ART 385 - Film as Visual Art****Units: 3****When Offered:** As offered

Film as Visual Art is a study of masterworks of cinematic art with an emphasis on visual aesthetics and cultural influences. The class will examine selected International cinematic classics, focusing on the film's director, or 'auteur'. The French idea of "camera as style" (pen) will be explored through the film director's use of camera angles, composition, editing, and lighting will be explored and deconstructed, in a manner consistent with traditional forms of visual art. Also under consideration will be the way that these visual elements stand in dynamic and creative tension with the visual culture of their national origin or context. Included in this would be fashion, art, politics, and philosophy.

**Grade Type:** Letter Grade**ART 387 - Contemporary Visual Arts and Culture****Units: 3****When Offered:** Online

Contemporary Visual Arts and Culture is a study of the causes and effects of the proliferation of new media in 21st century Western Society. This class explores post-modern theory and a tactile approach to the elements that make up the visual world. By exploring advertising, television, film, digital image making, arts and crafts, social media, and both public and private spaces, this course considers the roles of consumers, creators, and critics of visual culture, while engaging with a Christian world view of these cultural practices.

**Grade Type:** Letter Grade



## **ART 391 - Art Theory**

**Units: 3**

**When Offered:** As offered

This is a seminar style class in which readings, critique sessions, writing, discussion, peer review, and the making of original artwork are used to discuss topics in art theory. This writing-centered course provides a forum for the exploration of contemporary art theories and practice. The course also examines the role of artists and artmaking in contemporary culture so students must respond critically to the subject matter at hand, analyze the texts and art works, and understand the methods, practices, and materials utilized in the creation of contemporary art.

**Grade Type:** Letter Grade

## **ART 399 - Independent Study**

**Units: 1-3**

**When Offered:** As offered

An opportunity for students who have demonstrated the ability to do independent work to pursue in depth a topic of particular interest.

**Repeatable:** May be repeated for a maximum of six (6) units of credit

**Grade Type:** Letter Grade

## **ART 400 - Problems in Art**

**Units: 1-4**

**When Offered:** As offered

This course will explore and present selected specialized instruction in various media.

**Repeatable:** May be repeated for a maximum of eight (8) units with a change in topic

**Grade Type:** Letter Grade

## **ART 405 - Figure Drawing II**

**Units: 4**

**When Offered:** Spring (odd years)

This is a studio course whose aim is to develop increased mastery of the perceptual, technical, and compositional skills involved with figure drawing.

**Grade Type:** Letter Grade

**Prerequisite(s):** ART 305

## **ART 412 - Topics in Art History**

**Units: 1-4**

**When Offered:** As offered

Projects in Art History topics of current interest not normally covered by established courses. Content variable.

**Repeatable:** May be repeated twice for credit with a change of topic

**Grade Type:** Letter Grade

## **ART 414 - Drawing III**

**Units: 4**

**When Offered:** As offered

This course is to focus on a continuation of skill development, with an emphasis on individual style and expression.

This course is structured to encourage personal voice through idea generation, material investigation, technical

refinement and research. Students are encouraged to push the boundaries as they investigate materials, subject matter, process and interpretation related to image making.

**Grade Type:** Letter Grade

**Prerequisite(s):** ART 314

## **ART 415 - Aesthetics and the Classroom**

**Units:** 3

**When Offered:** As offered

An upper division and graduate level course for the classroom teacher and liberal studies major. Also meets the art history requirement for Visual Arts. Studies assumptions we make about art, investigates our difficulties in understanding art, builds skill in perceiving and communicating about art, and connects lessons learned to practical classroom application.

**Grade Type:** Letter Grade

## **ART 430 - Art and the Bible**

**Units:** 3

**When Offered:** As offered

A study of the dynamic relationship, which has historically existed between the content of Biblical texts and visual art, with consideration also being given to select examples of music and literature.

**Grade Type:** Letter Grade

## **ART 435 - Figure Drawing III**

**Units:** 4

**When Offered:** As offered

Advanced studies and mastery of the perceptual, technical, and compositional skills involved with figure drawing.

**Grade Type:** Letter Grade

**Prerequisite(s):** ART 405

## **ART 450 - Internship in Visual Arts**

**Units:** 1-3

**When Offered:** As offered

Under faculty supervision, the student will be assigned to a position, utilizing principles of fine art acquired and employed throughout their university experience. This internship provides an opportunity for investigating and participating in field experience with a practitioner of the trade, giving depth and breadth to their understanding of fine art as a whole.

**Repeatable:** May be repeated for a maximum of six (6) units

**Grade Type:** Letter Grade

**Prerequisite(s):** Permission of the Department Chair

## **ART 453 - Ceramics III**

**Units:** 4

**When Offered:** Spring

Advanced pottery with emphasis on wheel throwing and design problems. Individual objectives will more or less regulate the type of work done, although specific assignments will be given. Advanced-level performance is expected.

**Grade Type:** Letter Grade

**Prerequisite(s):** ART 353

## **ART 495 - Art Therapy Studio**

**Units: 4**

**When Offered:** Spring (odd years)

This course will enable students to examine the use of paints, inks, organic art processes, sculpture materials and other traditional and non-traditional art media and their use with particular client populations. Salient features of particular materials and expressive dimensions will be explored. Discussion of computer applications relevant to art therapy will be included. Students will investigate the impact of art processes and materials through ongoing participation in personal art making. By strengthening their connection to the creative process, students will gain an understanding of personal symbolic language, and arts-based learning allowing for the opportunity to integrate intellectual, emotional, artistic, and interpersonal knowledge.

**Grade Type:** Letter Grade

**Prerequisite(s):** ART 201 and DES 110

**Pre- or Co- Requisite(s):** PSY 376

## **ART 499 - Senior Exhibition**

**Units: 3**

**When Offered:** Fall, Spring

Senior Exhibition provides unit reward for the work art majors perform en route to the creation and mounting of their required thesis exhibit.

**Grade Type:** Letter Grade

**Prerequisite(s):** Senior status and permission of the Department Chair

## **French**

### **FRE 115 - Elementary French I**

**Units: 3**

**When Offered:** Fall

This course introduces students to fundamental skills such as understanding, reading, writing, and speaking the French language, while developing French cultural awareness. To introduce students to these skills, this course will prepare students to use common phrases, a basic vocabulary, and essential grammar. In addition, students will develop their cultural awareness and language skills through a variety of learning activities such as French games and interactive software, French songs, reading and writing short stories, and performing a brief oral topic demonstration.

**Grade Type:** Letter Grade

### **FRE 125 - Elementary French II**

**Units: 3**

**When Offered:** Spring

This course continues the study of the basics of the French language and expands or further develops the student's ability to speak, understand, read, and write elementary French through a variety of activities both in and out of the classroom, homework assignments, workbook exercises, and language lab participation. In addition, the class gives further understanding and appreciation of French civilization/culture.

**Grade Type:** Letter Grade

**Prerequisite(s):** FRE 115

### **FRE 215 - Intermediate French I**

**Units: 3****When Offered:** As offered

Introduces students to more complex linguistic patterns presented in a French/Francophone cultural and comparative context, and includes practice in speaking, listening, reading, and writing through discussion of short texts, written exercises and short compositions, work in multimedia resources, and participation in French cultural events. This is a dynamic, hands-on language course geared toward discussion of topical issues of interest to contemporary French speakers. It includes a review of basic French vocabulary and syntax keyed to readings on cultural topics including globalization, immigration, media, friendship, gender, religion, and human rights. Classes are conducted primarily in French.

**Grade Type:** Letter Grade**Prerequisite(s):** FRE 125**FRE 225 - Intermediate French II****Units: 3****When Offered:** As offered

This course develops the advanced linguistic patterns introduced in Intermediate French I and includes more practice in speaking, listening, reading, and composition through discussion and written analysis of French films. The student will become a more proficient French communicator by learning about French culture, history, and politics while studying French cinema in the context of hands-on classroom activities. Knowledge of French vocabulary and grammatical structures taught in the earlier three semesters is assumed. Some grammar study is included, associated primarily with cultural conversations following from the cinema selections and student review projects. Classes are conducted primarily in French.

**Grade Type:** Letter Grade**Prerequisite(s):** FRE 215**General Studies****GST 010 - Lifeline****Units: 1****When Offered:** As offered

The Lifeline course is an extension of the International Student Orientation at California Baptist University and is required of all Intensive English Program Students. The course is comprised of a semester-long series of small group seminars, activities and discussions designed to address the developmental and transitional needs of new international students at CBU. The course is designed to motivate students to engage in and think about issues and topics that are critical to academic success at the university level and cultural transition into the United States. Topics address the skills and relationships needed for students to succeed academically, socially, emotionally and spiritually.

**Grade Type:** Pass/Fail**GST 050 - Chapel Convocation****Units: 0****When Offered:** Fall, Spring

The California Baptist University community gathers regularly for worship, communication, fellowship, personal development, and spiritual formation. As a community deeply rooted in the Baptist tradition of the Christian faith, it is appropriate to expect broad participation in this experience. (This is a non-academic requirement and does not count toward the number of units required for graduation. A failing grade in Chapel will have a 1 unit negative effect on a student's semester and cumulative grade point average.)

**Grade Type:** Pass/Fail

## **GST 060 - Academic Success Seminar**

**Units: 1**

**When Offered:** Fall

The purpose of this course is to equip students with tools that they need to be successful in their academics at California Baptist University. The course will be comprised of a series of workshops, activities and small group discussions designed to meet the academic needs of students at California Baptist University.

**Grade Type:** Pass/Fail

## **GST 061 - Academic Course on Excellence**

**Units: 1**

**When Offered:** Fall, Spring, & Online

The purpose of this course is to promote academic success through excellence. Learning theories, concepts, and strategies related to academic excellence and personal success are covered.

**Grade Type:** Pass/Fail

## **GST 099 - The Teaching Assistant**

**Units: 0**

**When Offered:** Fall, Spring, Summer

The class is designed to provide students a deeper understanding of the academic discipline by viewing through the lens of instruction and evaluation of student work. Students will experience this perspective through opportunities to evaluate work, provide supplemental instruction, and participate in other in and out of class activities in support of the course in which the student is serving as a teaching assistant.

**Grade Type:** Pass/Fail

**Prerequisite(s):** Permission of the Provost Office

## **GST 100 - First Year Experience**

**Units: 1**

**When Offered:** Fall, Spring

The First Year Experience is designed to assist new students with the transition to university life and the California Baptist University community. The course is comprised of a semester-long series of small group seminars, activities, and discussions and is designed to address the developmental and transitional needs of new students at California Baptist University. Topics focus on the issues, skills, and relationships that can help students succeed academically, socially, emotionally, and spiritually. Based on years of tradition, but sensitive to the ever-changing needs of university students, this course provides a well-rounded introduction to the California Baptist University experience.

**Grade Type:** Pass/Fail

## **GST 199 - Portfolio Seminar**

**Units: 1**

**When Offered:** Online

The goal of the portfolio workshop is to help the student gather the material necessary for petitioning for prior learning credit and to assist in the presentation of the material. The prior learning portfolio is intended to be a thorough compilation of the student's prior learning. With guidance from the faculty, the student will develop a portfolio documenting college level learning which has been obtained outside of the traditional college classroom setting through work related training, professional experiences, and community involvement. Portfolio credit is awarded for learning that has taken place-not for experience. Therefore in addition to documenting experience, students are expected to articulate and demonstrate appropriate theory and terminology in their portfolio. (Portfolio credit can only be earned

toward general elective credits and cannot be earned in a student's major field of study.)

**Grade Type:** Pass/Fail

## **GST 200 - Career Readiness**

**Units:** 1

**When Offered:** Fall, Spring, Summer

This course is designed to help students align their academic studies with professional development so that they will be equipped to present themselves as the most preferred candidate when entering into their chosen job field. The full process of career readiness will be discussed and evaluated from student, alumni, and employer perspectives. Subject matter will consist of how to choose a major/career, preparing job application materials, interview skills, strategic job searching, etc.

**Grade Type:** Pass/Fail

## **Graphic Design**

### **GDM 110 - Fundamental Design**

**Units:** 3

**When Offered:** Fall, Spring, & Online

This course explores the tools and implementations of Adobe Illustrator through assigned projects and exercises. Techniques will be explored and explained. Best practice work-flows will be taught. The goal of this course is a working knowledge of Illustrator for the student.

**Grade Type:** Letter Grade

**Fee:** Additional course fee (TRAD only)

### **GDM 120 - Fundamental Typography**

**Units:** 3

**When Offered:** Fall, Spring, & Online

This course explores the tools and implementations of Adobe InDesign through assigned projects and exercises. Techniques will be explored and explained. Best practice work-flows will be taught. The goal of this course is a working knowledge of InDesign for the student and for the student to be able to identify key typography concepts.

**Grade Type:** Letter Grade

**Fee:** Additional course fee (TRAD only)

### **GDM 130 - Fundamental Image**

**Units:** 3

**When Offered:** Fall, Spring, & Online

This course explores the tools and implementations of Adobe Photoshop through assigned projects and exercises. Techniques will be explored and explained. Best practice work-flows will be taught. The goal of this course is a working knowledge of Photoshop for the student.

**Grade Type:** Letter Grade

**Fee:** Additional course fee (TRAD only)

### **GDM 140 - Fundamental Web**

**Units:** 3

**When Offered:** Online

This course introduces students to the primary languages of web design, HTML and CSS. The course is designed to provide students with a foundational knowledge in the way that web pages are designed and coded. Tools and techniques needed to design and create web pages will be explored.

**Grade Type:** Letter Grade

## **GDM 150 - Fundamental User Interface and User Experience Design**

**Units:** 3

**When Offered:** As offered

This course serves as an introduction to a variety of visual, navigational and structural approaches in the user experience (UX) and interface (UI) building process. The primary goal is for students to better understand how to design for various digital and environmental user experiences. Topics that will be covered include research, navigation systems, visual hierarchy, prototyping, testing and best practices. A strong emphasis is placed on conceptual development, structure, interactivity, and design aesthetics that will result in effective physical and virtual user experience solutions.

**Grade Type:** Letter Grade

## **GDM 200 - Special Topics in Graphic Design**

**Units:** 3

**When Offered:** As offered

This course focuses on different topics in the field of graphic design each time it is offered. Designed to reflect both the rapidly changing culture and technologically progress of the field.

**Repeatable:** May be repeated for credit with change in topic

**Grade Type:** Letter Grade

## **GDM 215 - Principles: Introduction to Graphic Design**

**Units:** 3

**When Offered:** Fall, Spring

This foundational course provides a broad introduction to the field of visual communication by exploring 2D design concepts, processes, techniques, and production methods. Students will gain experience in the ideation, research, execution, and presentation of design related projects.

**Grade Type:** Letter Grade

**Fee:** Additional course fee

## **GDM 225 - Principles: Letterforms and Structure**

**Units:** 3

**When Offered:** Fall, Spring

Students will learn the fundamentals of typesetting and typographic layout by exploring the history, anatomy, vocabulary, design, and function of letterforms and the role it plays in the visualization of language.

**Grade Type:** Letter Grade

**Fee:** Additional course fee

## **GDM 235 - Principles: Image Visualization**

**Units:** 3

**When Offered:** Fall, Spring

This course explores the use of the image as a tool for non-verbal communication and story-telling. Students will learn the fundamentals of image based design through compositing and editing techniques and processes.

**Grade Type:** Letter Grade

**Fee:** Additional course fee

## **GDM 240 - Principles: Innovations in Design**

**Units:** 3

**When Offered:** Fall, Spring

This course surveys the conceptual underpinnings of the major movements in graphic design and digital art. Students will examine visual communication from the earliest human expressions of cave paintings to contemporary design movements to the software breakthroughs of the Digital Revolution. Students will interpret selected concepts and movements and then create their own designs using a variety of analytic methodologies.

**Grade Type:** Letter Grade

## **GDM 305 - History of Graphic Design**

**Units:** 3

**When Offered:** Online

A study of the causes and effects of critical design movements. This course explores the political and social environments that shaped the creation and evolution of graphic design. This course will give students insight into different movements, such as the Medieval Era, Graphic Renaissance, Industrial Revolution, Art Nouveau, Modernism, Postmodernism, and the Digital Revolution. Students will also evaluate how the history of graphic design influences current design philosophies and strategies.

**Grade Type:** Letter Grade

## **GDM 310 - Intermediate Design**

**Units:** 3

**When Offered:** Fall, Spring, & Online

This course is an intermediate design course in which project work is used to study work flow, pre-press techniques and practices, idea generation, and other concepts that arise from the process of creativity.

**Grade Type:** Letter Grade

**Prerequisite(s):** GDM 110 and 130

## **GDM 315 - Practice: Designing Brand Identity**

**Units:** 3

**When Offered:** Fall, Spring

This course will explore how to develop, conceptualize and craft effective design solutions in the form of a visual identity system. Students will design a variety of branding elements and strategy guidelines to visually communicate a core message across an array of products, services, and environments.

**Grade Type:** Letter Grade

**Fee:** Additional course fee

**Prerequisite(s):** GDM 215

## **GDM 320 - Intermediate Typography**

**Units:** 3

**When Offered:** Fall, Spring, & Online

This course is an intermediate typography course in which more complex typography concepts, best practice type generation and project work challenge the student.



**Grade Type:** Letter Grade

**Prerequisite(s):** GDM 110, 120, and 130

## **GDM 325 - Practice: Typographic Form and Space**

**Units:** 3

**When Offered:** Fall, Spring

The goal of this course is to refine the student's skills and understanding in using typography as an informative medium. Students will analyze the semiotic function of text including its relationship with content and image. Students will work with visible language in a variety of media and dimension, exploring the possibilities of conceptually-based typographic solutions.

**Grade Type:** Letter Grade

**Prerequisite(s):** GDM 225

## **GDM 330 - Intermediate Image**

**Units:** 3

**When Offered:** Fall, Spring, & Online

This course is an intermediate image course in which more complex photography and photoshop techniques will be taught. Students will learn how to manipulate photography using photoshop to create complex ideas and messages.

**Grade Type:** Letter Grade

**Prerequisite(s):** GDM 130

## **GDM 335 - Conceptual Image Making**

**Units:** 3

**When Offered:** Fall, Spring

This course will explore how to critically interpret and create meaning in context. Students will design solutions to problems across a variety of media by visualizing conceptual ideas through advanced image-making processes.

**Grade Type:** Letter Grade

**Prerequisite(s):** GDM 235

## **GDM 340 - Intermediate Web**

**Units:** 3

**When Offered:** Online

This course expands on students accrued HTML and CSS knowledge. Principles of content strategy will be integrated with visual design to create compelling web experiences. Popular as well as up and coming CMS solutions such as WordPress, Ghost, and others will also be explored.

**Grade Type:** Letter Grade

**Prerequisite(s):** GDM 140

## **GDM 341 - Video Fundamentals**

**Units:** 3

**When Offered:** As offered

This course explores the tools and implementations of Adobe Premiere Pro through assigned projects and exercises. Techniques will be explored and explained. Best practice work-flows will be taught. The goal of this course is for the student to have a working knowledge of the Adobe Premiere Pro editing software.

**Grade Type:** Letter Grade

## **GDM 342 - Motion Design I**

**Units: 3**

**When Offered:** Fall (odd years)

This course teaches students the fundamental skills and processes used in the motion design industry. Students will learn about storyboards, style frames, sound development, and rendering and they will use industry-standard time-based software such as Adobe After Effects to learn 2D animation principles.

**Grade Type:** Letter Grade

**Prerequisite(s):** GDM 315 or 325

## **GDM 343 - Motion Design II**

**Units: 3**

**When Offered:** Spring (even years)

This upper-level course teaches advanced motion theory, as well as pipeline workflow concepts, strategies and common industry trends and practices. The emphasis is on showing the full motion design workflow in a studio-like environment from concept to final output.

**Grade Type:** Letter Grade

**Prerequisite(s):** GDM 342

## **GDM 351 - 3D Concept Design I**

**Units: 3**

**When Offered:** Fall

This course builds a foundation for advanced 3D environmental modeling, photorealistic rendering, stylistic shading, and effects processes. Students will build upon fundamental techniques to create professional quality imagery and motion with industry standard software such as Cinema 4D and Element 3D. Working in a typical design studio pipeline, students will work with NURBS modeling and mesh editing for hard surface and organic objects; texture mapping, special effects including effectors, dynamics, and multiple emitters; optimization techniques; and a variety of compositing methods to create both artistic works and commercial products.

**Grade Type:** Letter Grade

**Prerequisite(s):** EGR 121, FLP 170, or GDM 215

## **GDM 352 - Visual Effects Concept Design**

**Units: 3**

**When Offered:** Fall

This course teaches students the primary skills and processes used in the visual effects (VFX) industry. Students will learn basic compositing and how to integrate computer graphics and 3D components with live action in a methodology that simulates standard VFX production pipelines.

**Grade Type:** Letter Grade

**Prerequisite(s):** EGR 121, FLP 170, or GDM 215

## **GDM 353 - 3D Concept Design II**

**Units: 3**

**When Offered:** Spring (odd years)

This course focuses on advanced 3D concept design, compositing, product design, environmental modeling, photorealistic rendering, stylistic shading, and effects processes. Students will learn advanced techniques for 3D compositing into live action videography that includes a variety of methodologies to create both artistic works and commercial products with industry standard software such as Cinema 4D, After Effects, and Premiere.

**Grade Type:** Letter Grade

**Prerequisite(s):** GDM 351

## **GDM 354 - Mixed Reality Concept Design**

**Units:** 3

**When Offered:** Spring

With the ubiquity of mobile devices and the mainstream adoption of wearables, there is an additive digital layer of structured data viewable in mixed reality environments such as augmented reality (AR) and virtual reality (VR). This course provides students with an overview of the history and evolution of these technologies, their convergence, and how to build basic mixed reality applications for such domains as the arts, design visualization, architecture, fashion, and other artistic and commercial use cases. Students will use industry standard programs such as Unity 3D and Snapchat Lens.

**Grade Type:** Letter Grade

**Prerequisite(s):** GDM 351

## **GDM 371 - User Interface and User Experience Design I**

**Units:** 3

**When Offered:** Spring

This course takes a deep dive into designing UI / UX for mobile and emerging technologies and will critically examine conceptual innovations in the field. On a practical level, students will work with information architecture, prototyping and wireframing tools, usability assessment, and best practices for design communication. Finally, students will work with the major principles and professional practice of UI/UX design through weekly exercises, class discussions, presentations, and functional projects.

**Grade Type:** Letter Grade

**Prerequisite(s):** GDM 215, 225, and 235

## **GDM 399 - Independent Study**

**Units:** 1-3

**When Offered:** As offered

An opportunity for students who have demonstrated the ability to do independent work to pursue in depth a topic of particular interest. Courses listed in the Catalog may not be taken by independent study.

**Grade Type:** Letter Grade

## **GDM 400 - Special Topics in Graphic Design**

**Units:** 3

**When Offered:** As offered

This course focuses on different topics in the field of graphic design each time it is offered. Designed to reflect both the rapidly changing culture and technologically progress of the field.

**Repeatable:** May be repeated for credit with change in topic

**Grade Type:** Letter Grade

## **GDM 410 - Advanced Design**

**Units:** 3

**When Offered:** Fall, Spring, & Online

This course is an advanced design course in which project work is used to build a professional portfolio for employment or advanced studies. Complex design issues and problem solving challenge the student throughout the

creative process.

**Repeatable:** May be repeated one (1) time for credit

**Grade Type:** Letter Grade

**Prerequisite(s):** GDM 310

## **GDM 415 - Studio: Visual Systems Design**

**Units:** 3

**When Offered:** Fall, Spring

This studio-based course is expected to be the culmination and synthesis of visualizing complex, integrated design systems from the skills acquired in prior courses within the major. Through key principles in visual systems design, each student will contextualize and develop strategies for managing design solutions across a variety of communication outlets.

**Repeatable:** May be repeated for a maximum of six (6) units

**Grade Type:** Letter Grade

**Prerequisite(s):** GDM 315, 325, and 335

## **GDM 420 - Advanced Typography**

**Units:** 3

**When Offered:** Fall & Online

This course is an advanced typography course in which complex real-world typography concepts are now explored to build projects for a professional portfolio of work for employment or advanced studies.

**Grade Type:** Letter Grade

**Prerequisite(s):** GDM 320

## **GDM 425 - Studio: Typographic Hierarchies**

**Units:** 3

**When Offered:** Fall, Spring

This experiential studio course is expected to be the culmination and synthesis of the typographical knowledge and skills acquired from the successful completion of prior courses within the major. By exploring and discussing historical and contemporary theory related to typography and design, each student will contextualize and apply critical thinking to their developing practice and conceptual interests.

**Repeatable:** May be repeated for a maximum of six (6) units

**Grade Type:** Letter Grade

**Prerequisite(s):** GDM 315, 325, and 335

## **GDM 430 - Advanced Image**

**Units:** 3

**When Offered:** Spring & Online

This course is an advanced image course in which professional, complex image generation is explored and expert techniques in color correction, masking and compositing are implemented. Professional portfolio projects are built to prepare students for employment or advanced studies.

**Grade Type:** Letter Grade

**Prerequisite(s):** GDM 330

## **GDM 435 - Studio: Image and Art Direction**

**Units: 3**

**When Offered:** Fall

This experiential studio course is expected to be the culmination and synthesis of the creative image-making knowledge and skills acquired from the successful completion of prior courses within the major. Studio emphasis is placed on strategic and conceptual art direction for products and subjects.

**Repeatable:** May be repeated for a maximum of six (6) units

**Grade Type:** Letter Grade

**Prerequisite(s):** GDM 315, 325, and 335

## **GDM 440 - Advanced Web**

**Units: 3**

**When Offered:** Online

This advanced course exposes students to real world web design problems through projects and case studies. Client side scripting with JavaScript will be introduced. Web standards and best practices will be studied in depth, as well as project workflow.

**Repeatable:** May be repeated one (1) time for credit

**Grade Type:** Letter Grade

**Prerequisite(s):** GDM 340

## **GDM 455 - Studio: Visual Experience Design**

**Units: 3**

**When Offered:** Fall

This experiential learning course teaches students to develop a disciplined studio digital arts and design practice. Advanced Design Studio explores leading-edge ideas and design methodologies and directs each student to develop specific concepts, processes, and techniques in relation to their developing practice and conceptual interests. Students will develop an individualized area of research, and a directed, productive approach to studio practice. Finally this course will introduce and discuss professional practices in digital arts and design in order to prepare students for careers in design, the arts, exhibitions, graduate study, professional practices, self-promotion, or various other creative pursuits.

**Repeatable:** May be repeated for a maximum of six (6) units

**Grade Type:** Letter Grade

**Prerequisite(s):** GDM 315, 325, 335, and either 343 or 353

## **GDM 495 - Design Capstone**

**Units: 3**

**When Offered:** Spring

This course prepares students for their capstone show by bringing together the skills and processes students have developed here at California Baptist University. Students begin by identifying an area of research and discussing its relationship to graphic design and visual experience while being challenged to expand their abilities of creating visual form with integrity and meaning. This course is viewed by the program as the pinnacle event in their academic journey.

**Grade Type:** Letter Grade

**Prerequisite(s):** Senior status and permission of the Dean

## **GDM 499 - Senior Project**

**Units: 3**

**When Offered:** Fall, Spring, & Online

This course is designed as a capstone showcase of the student's accumulated body of work while in the program. The Graphic Design Senior Show will consist of 10 portfolio pieces from the student's portfolio. This is an effort to keep the student on task and focused on the portfolio.

**Grade Type:** Letter Grade

**Prerequisite(s):** Senior status and permission of the Department Chair

## **Greek**

### **GRK 213 - Introduction to Koiné Greek I**

**Units:** 3

**When Offered:** Fall

An introduction to Koiné Greek emphasizing basic grammar and vocabulary preparatory for translation of the Greek New Testament.

**Grade Type:** Letter Grade

### **GRK 223 - Introduction to Koiné Greek II**

**Units:** 3

**When Offered:** Spring

Continuation of GRK 213 with beginning translation from the First Epistle of John.

**Grade Type:** Letter Grade

**Prerequisite(s):** GRK 213

### **GRK 313 - Intermediate Greek**

**Units:** 3

**When Offered:** As offered

A "literary laboratory" in which to observe the function of Greek syntax through the translation and exegetical study of specific New Testament materials.

**Grade Type:** Letter Grade

**Prerequisite(s):** GRK 223

### **GRK 323 - Intermediate Greek**

**Units:** 3

**When Offered:** As offered

A "literary laboratory" in which to observe the function of Greek syntax through the translation and exegetical study of specific New Testament materials.

**Grade Type:** Letter Grade

**Prerequisite(s):** GRK 223

### **GRK 413 - Greek Exegesis**

**Units:** 3

**When Offered:** As offered

A careful exegetical study of a Greek text of specific New Testament text(s) presenting the opportunity to further develop translational, analytical, and interpretive skills.

**Repeatable:** May be repeated for credit with change in topic

**Grade Type:** Letter Grade

**Prerequisite(s):** GRK 313 and 323

## **Health Science**

## **HSC 100 - Introduction to the Health Science Professions**

**Units: 1**

**When Offered:** Fall, Spring

This course is designed to introduce students to the basic skills necessary for academic success in the health science majors, to review the numerous career options in the health, exercise, and allied health professions, and to explore the student's calling and vocation.

**Grade Type:** Letter Grade

## **HSC 101 - Introduction to Public Health**

**Units: 3**

**When Offered:** As offered & Online

This course provides an introduction to public health concepts and practice by examining the philosophy, purpose, history, organization, functions, tools and activities and results of public health practice. Case studies and a variety of practice-related exercises serve as a basis for student's participation in real world public health problem-solving simulations.

**Grade Type:** Letter Grade

## **HSC 104 - Survey of U.S. Health Care Delivery**

**Units: 3**

**When Offered:** As offered & Online

The course is designed to provide the students with a basic foundation in the ways in which healthcare is delivered to patients in the United States. The course will explore the matrix of insurance companies, financing, patient rights, and physician liabilities as it creates a contemporary illustration of how environmental factors influence and shape our current system. The primary foci will be the delivery, financing, and regulation of healthcare in the US.

**Grade Type:** Letter Grade

## **HSC 200 - Special Topics in Health Science**

**Units: 3**

**When Offered:** As offered

Concentration upon a specific topic in the field of health science. Topic varies for different semesters.

**Repeatable:** May be repeated for credit with change in topic

**Grade Type:** Letter Grade

## **HSC 210 - Ethics in Health Care**

**Units: 3**

**When Offered:** As offered & Online

This course provides grounding in ethical theories and principles as they relate to and impact current healthcare issues and policies. Students are introduced to a variety of frameworks for ethical decision-making and policy analysis. Current trends in the contemporary healthcare arena are analyzed through the use of case studies. Recent healthcare issues are presented including euthanasia, fertility interventions, mental illness, genetic engineering, multicultural issues, economics, public policy, professional ethical codes, and other relevant topics.

**Grade Type:** Letter Grade

## **HSC 300 - Health Communication**

**Units: 3****When Offered:** As offered

The purpose of this course is to focus on the use of communication strategies to inform and influence individual and community decisions regarding health. The seminar will focus on the following contexts of health: the multidimensional nature of health communication; understanding empirical research in health communication; behavioral theories in health communication; rhetorical theories in health communication; legal and ethical concerns in health communication; the communication of risk and uncertainty; and the design of health campaigns. Students will be required (a) to research and prepare a health communication strategy for use in a specific context and (b) to design an accompanying print or hypertext document to be used in that context.

**Grade Type:** Letter Grade

## **HSC 301 - Principles of Health Education**

**Units: 3****When Offered:** As offered & Online

This is an introductory course that overviews principles of health education. Health education is an academic area that fosters the acquisition of skills and competencies to assist individuals, families, and communities to make informed decisions related to health. This course will introduce students to Certified Health Education Specialist (CHES) credential that is nationally recognized by National Commission on Health Education Credentialing, and will be a fundamental course for students who are preparing for the CHES exam.

**Grade Type:** Letter Grade

## **HSC 305 - Epidemiology**

**Units: 3****When Offered:** Fall & Online

Principles and methods used to investigate the distribution, determinants, and prevention strategies for disease in human populations. Major topics include: disease classification, measures of disease frequency and relative effect, comparisons and contrasts of analytic study designs, methods used to isolate effects, statistical significance testing, interpretation of results, and screening for latent disease.

**Grade Type:** Letter Grade

## **HSC 306 - Pathophysiology for Public Health**

**Units: 3****When Offered:** As offered & Online

This course introduces students to the basic pathogenesis of disease in human beings. The course will describe the most common disorders as they relate to each major body system while exploring the etiology, risk factors, diagnostic and prognostic procedures of each disease. This course also studies the pathology and general health management of disease and injuries across the human lifespan.

**Grade Type:** Letter Grade

## **HSC 312 - Principles of Environmental and Occupational Health**

**Units: 3****When Offered:** As offered & Online

In-depth discussion and analysis of the physical, chemical and biological hazards found in the environment and health risks associated with workplace and community exposure to them. Risks to special populations and mechanisms of reducing or controlling these risks are discussed.

**Grade Type:** Letter Grade



## **HSC 316 - Public Health Promotion, Disease Prevention and Intervention**

**Units: 3**

**When Offered:** As offered & Online

This course will discuss approaches to health promotion and disease prevention intervention in different settings, using varied strategies, and for different target groups. It is intended to be practical in nature focusing on the specifics of intervention development and delivery and how these might vary across settings, behaviors and strategies.

**Grade Type:** Letter Grade

**Prerequisite(s):** HSC 306

## **HSC 320 - Public Health Nutrition and Physical Activity**

**Units: 3**

**When Offered:** Online

This course introduces concepts of nutrition as they relate to nutritional needs, practices and problems throughout the life cycle, nutritional counseling and education of individuals/groups toward health promotion and disease prevention. This course also introduces knowledge, skills and experiences necessary to lead participants in gaining the skills, knowledge, attitudes and behaviors required to lead physically active lifestyles.

**Grade Type:** Letter Grade

## **HSC 400 - Special Topics in Health Science**

**Units: 3**

**When Offered:** As offered

Concentration upon a specific topic in the field of health science. Topic varies for different semesters.

**Repeatable:** May be repeated for credit with change in topic

**Grade Type:** Letter Grade

## **HSC 406 - Food Safety and Consumer Protection**

**Units: 3**

**When Offered:** Fall

Principles and techniques of quality assurance for food preparation and prevention of food-borne diseases. Sanitary and safe preparation, storage, transportation, and handling of foodstuffs and products both commercially and residentially. Criteria and practical methodology of inspection and surveillance techniques, facilities design, and plan checking. Performance criteria for food handlers, with application to environmental techniques in education, enforcement, and consultation.

**Grade Type:** Letter Grade

## **HSC 410 - Health Behavior Change**

**Units: 3**

**When Offered:** As offered

This course addresses the exploration and application of education, psychosocial, and spiritual components of health behaviors. Behavior change theory, principles, predictive models, and their application to health behavior change programs and interventions will be investigated.

**Grade Type:** Letter Grade

## **HSC 412 - Health and Wellness Coaching**

**Units: 3**

**When Offered:** Spring

This course is designed to provide a foundational knowledge and skills of health and wellness coaching. An effective health and wellness coach must understand key elements of effective interviewing skills that are core building blocks of optimizing client's motivations for optimal health. The topics discussed include coaching structure, coaching process, health and wellness, and ethics. At the completion of this course, the student will be eligible to take a national certification exam titled 'Health/Wellness Coach' accredited by International Consortium for Health and Wellness Coaching (ICHWC).

**Grade Type:** Letter Grade

**Prerequisite(s):** HSC 410

## **HSC 413 - Program Planning and Implementation**

**Units: 3**

**When Offered:** Fall

This course examines models and processes for the identification of population-based public health needs, the selection of evidence-based approaches, and development of a plan for the successful implementation of public health initiatives. Students will critically examine and discuss models and processes to systematically plan and implement public health programs and interventions. Students will learn and build competencies in the areas of evidenced-base health promotion practice, conducting needs assessments, developing a logic model, developing a grant proposal, budgeting, and monitoring program implementation.

**Grade Type:** Letter Grade

## **HSC 415 - Water and Air Quality Inspection and Management**

**Units: 3**

**When Offered:** Fall

This course introduces students to sources and characteristics of air and water pollutants and their effects on humans and public health. Methods used in sampling of pollutants, controls, and abatement of air and water quality standards and violations will also be discussed. Principles and processes involved in providing safe and adequate water supplies quantity and quality assurance, source and system design, and public health inspection parameters, and public health laws and policies will be included. Procedures and programs for the protection of air and water sources from contamination including waste management, hazardous materials disposal, and toxicology will also be covered.

**Grade Type:** Letter Grade

**Prerequisite(s):** HSC 312

## **HSC 418 - Program Evaluation**

**Units: 3**

**When Offered:** Spring

This course is an introductory course in program evaluation. In this course, we will examine and discuss models and processes to systematically evaluate public health programs and interventions. We will be reviewing terms, principles, and methods related to: using program evaluation as the determination of merit, worth, or significance, differences and connections between: evaluation and description, explanation, prediction, recommendations, and evaluation utilization. This course will also provide a review of various research methods, statistics, and data analysis.

**Grade Type:** Letter Grade

## **HSC 420 - Health Care Policy**

**Units: 3**

**When Offered:** As offered & Online

The purpose of this course is to provide students with an overview of the healthcare policy process in the United States.

Students will gain an understanding of how the healthcare system works and how healthcare policy has been made in the U.S. Review and analysis of current various proposals for healthcare reform will be conducted.

**Grade Type:** Letter Grade

**Prerequisite(s):** HSC 104

## **HSC 421 - Methods in Health Education**

**Units:** 3

**When Offered:** Spring

This course reviews various approaches to health promotion and disease prevention intervention strategies. The course is intended to be practical in nature, focusing on the logistics of intervention development and delivery and how these might vary across settings, behaviors, strategies/theories, and populations. Curriculum planning, methods of instruction, unit plan development, media use in health education, delivery and effectiveness will be discussed and practiced through the semester.

**Grade Type:** Letter Grade

## **HSC 450 - Curriculum Design in Health Education**

**Units:** 3

**When Offered:** Online

This course introduces the theories and skills necessary to develop health education curricula based on analysis of individual, community, and societal needs and interests.

**Grade Type:** Letter Grade

**Prerequisite(s):** HSC 301 and Junior status

## **HSC 460 - Planning and Evaluating Health Education Programs**

**Units:** 3

**When Offered:** As offered & Online

This course addresses the use of planning models and diagnostic techniques to design, deliver, and evaluate health education programs in a variety of settings: school, work site, medical care, and community groups. It will also study the steps in the educational process: conducting behavioral and educational diagnoses; setting behavioral and educational objectives; selecting appropriate intervention strategies; integration and application of behavioral and education theories to interventions; instructional delivery and design skills; and evaluation of education results.

**Grade Type:** Letter Grade

## **HSC 480 - Research Methods**

**Units:** 3

**When Offered:** As offered & Online

This course provides an introduction to clinical research design with statistical analysis. The emphasis will be on the student designing her or his practical research project by the end of the semester. Content would include developing the research question, choosing the (1) study design, (2) study subjects, (3) measurements (independent and dependent variables), data management (including designing the data collection form) and statistical analysis (including sample size estimation and power), ethical issues, implementation, and publication of results.

**Grade Type:** Letter Grade

**Prerequisite(s):** STA 144, and Junior or Senior status

## **HSC 485 - Environmental Sampling and Analysis**

**Units: 3**

**When Offered:** Spring

This course is designed to introduce the student to the principles and methods of Environmental sampling and analysis. It provides an introduction to the laboratory methods for the measurements and evaluation of environmental exposures and their impacts on health. The course allows students to begin being exposed to techniques pertinent to their future occupation. The topics covered are general laboratory practices, water quality, food quality, industrial hygiene, and radiation. Eight hours of lecture and lab per week for one quarter.

**Grade Type:** Letter Grade

**Prerequisite(s):** HSC 312

## **HSC 491 - Internship in Health Science**

**Units: 1-4**

**When Offered:** As offered

Under the advisement of a faculty member and supervision of health care professional, the student will work or otherwise actively participate in a community-based healthcare setting. Variable units may be earned in any one semester.

**Repeatable:** May be repeated for a maximum of six (6) units

**Grade Type:** Letter Grade

**Prerequisite(s):** Health Science major, and Junior or Senior status

## **HSC 495 - Practicum**

**Units: 3**

**When Offered:** Fall, Spring, Summer

This course provides a supervised internship in a community-based setting. The student will work in their chosen field of study, under the supervision of a professional, and will periodically report their practicum experience to the instructor to reflect their field experience. The course entails two major components: (1) internship experience, (2) review and assessment of the student's attainment of professional competencies. A total of 90 hours of on-site work, observation, or participation is required.

**Grade Type:** Pass/Fail

**Fee:** Additional clinical practicum fee

**Prerequisite(s):** Senior status and permission of the Department Chair

## **HSC 499 - Health Science Capstone**

**Units: 3**

**When Offered:** As offered

The course is designed to be a culminating exercise for students to reflect upon, evaluate, and assimilate knowledge and experience they have gained by participating in a research or internship opportunity prior to this course. Students in the capstone will prepare a presentation (both oral and written) that will focus on that experience.

**Grade Type:** Letter Grade

**Fee:** Additional course fee

**Prerequisite(s):** Senior status and permission of the Department Chair

**Pre- or Co- Requisite(s):** HSC 480

## **Healthcare Administration**

### **HCA 330 - Health Information Systems**

**Units: 3****When Offered:** Fall & Online

This course provides an overview of various health information systems, with emphasis on case studies of systems utilized in areas such as patient-care, clinical decision-support, disease and demographic surveillance, imaging and simulation, and safety and environmental assessment. Fundamentals of proposing, reporting, and refereeing evaluation studies are covered. Legal and ethical issues related to training, security, confidentiality, and the use of informed consent are also addressed.

**Grade Type:** Letter Grade

## **HCA 360 - Finance and Reimbursement in Healthcare**

**Units: 3****When Offered:** Spring & Online

This course deals with the financing and reimbursement functions associated with medical care in the United States. Primary attention is directed towards the economic purpose, structure, operation, and performance of the private health insurance industry. Emphasis is placed on the business of providing health insurance products such as underwriting, medical claims cost control, pricing, and marketing. In that context, managed care techniques, benefit package designs including consumer directed health plans, and cost sharing mechanisms are discussed. Attention is also paid to the Medicare and Medicaid programs, the impact of government regulations on the operation and performance of the private health insurance industry, and healthcare reform.

**Grade Type:** Letter Grade

## **HCA 405 - Quality Management in Healthcare**

**Units: 3****When Offered:** Online

This course presents a study of the foundational components of healthcare quality management with a strong emphasis on creating a culture of continuous improvement through performance evaluation and measurement, patient safety, and quality and safety reliability. The development of a hospitable environment through patient and employee engagement is examined.

**Grade Type:** Letter Grade

## **HCA 410 - Quality Improvement in Healthcare**

**Units: 3****When Offered:** Fall

Student will explore the current forces driving the push toward quality outcomes and accountability at all levels and settings of healthcare, while focusing on the philosophy of continuous improvement through teamwork and statistical thinking. Students will use structural tools for analysis, decision making and performance measurement.

**Grade Type:** Letter Grade**Prerequisite(s):** STA 144

## **HCA 450 - Healthcare Legal Issues and Ethics**

**Units: 3****When Offered:** Spring

Students explore and analyze current ethical issues such as biomedical research, insurance statutes, and demand management. Students survey the extensive legal foundations of healthcare, and apply current case law to contemporary situations. Topics include legal aspects of legislation, patient rights, data security, professional liability, and labor relations.

**Grade Type:** Letter Grade

## **HCA 490 - Current Issues in Healthcare Administration**

**Units:** 3

**When Offered:** Fall

The purpose of this course is to expose students to current and relevant administrative issues prevalent within the healthcare sector. In addition, this course will help students develop the knowledge and skills to work with industry professionals to design a project scope and memorandum of understanding with a healthcare company to address a current issue.

**Grade Type:** Letter Grade

**Prerequisite(s):** STA 144

## **HCA 499 - Healthcare Administration Capstone**

**Units:** 3

**When Offered:** Spring

This course is designed to be a culminating exercise for students to reflect upon, evaluate, and assimilate knowledge and experience they gained by participating in an action research project with a local health care provider. This course continues the student's development in a research and reflective experience that utilizes the memorandum of understanding developed in HCA 490. At the completion of this course, students will prepare a presentation (both oral and written) that focuses on that experience.

**Grade Type:** Letter Grade

## **Hebrew**

### **HEB 213 - Biblical Hebrew I**

**Units:** 3

**When Offered:** Fall

A study of the fundamentals of biblical Hebrew, including pronunciation, vocabulary, verbs, nouns, and parts of speech as well as elements of Hebrew syntax.

**Grade Type:** Letter Grade

### **HEB 223 - Biblical Hebrew II**

**Units:** 3

**When Offered:** Spring

An analysis of biblical Hebrew with attention to appropriate portions from the Old Testament Scriptures and to the introduction and utilization of the Hebrew lexicon.

**Grade Type:** Letter Grade

**Prerequisite(s):** HEB 213

### **HEB 313 - Intermediate Biblical Hebrew I**

**Units:** 3

**When Offered:** As offered

Continuing study of the writing, grammar, vocabulary, syntax, and literature of Biblical Hebrew II.

**Grade Type:** Letter Grade

**Prerequisite(s):** HEB 223

### **HEB 323 - Intermediate Biblical Hebrew II**

**Units: 3**

**When Offered:** As offered

Continuing study of the writing, grammar, vocabulary, syntax, and literature of Intermediate Biblical Hebrew I.

**Grade Type:** Letter Grade

**Prerequisite(s):** HEB 313

## **HEB 400 - Advanced Hebrew**

**Units: 3**

**When Offered:** As offered

A careful exegesis study of a specific section of the Hebrew Bible, presenting the opportunity to further develop translational, analytical, and interpretive skills.

**Repeatable:** May be repeated for credit with change in topic

**Grade Type:** Letter Grade

**Prerequisite(s):** HEB 323

## **History**

### **HIS 101 - Introduction to the Discipline of History**

**Units: 1**

**When Offered:** Fall

This course is designed to introduce History majors to the academic field of History and the History Program. The course provides an overview of the variety of historiographies found within the field-American, European, World and Classical. This course encourages students to examine their own philosophical presuppositions as they learn to think about the study of history from a Christian perspective. There is also substantial opportunity for building connections with faculty and fellow majors.

**Grade Type:** Pass/Fail

### **HIS 201 - Special Topics in U.S. History**

**Units: 3**

**When Offered:** As offered

Concentrates on a different topic of U.S. History each time offered. Student involvement in selection of topics is encouraged.

**Repeatable:** May be repeated for credit with change in topic

**Grade Type:** Letter Grade

### **HIS 202 - Special Topics in Non-U.S. History**

**Units: 3**

**When Offered:** As offered

Concentrates on a different topic in Non-U.S. History each time offered. Student involvement in selection of topics is encouraged.

**Repeatable:** May be repeated for credit with change in topic

**Grade Type:** Letter Grade

### **HIS 213 - History of the United States to Reconstruction**

**Units: 3**

**When Offered:** Fall, Spring, & Online

A general survey of the social, political, economic, cultural, and religious developments from 1492 through Reconstruction.

**Grade Type:** Letter Grade

## **HIS 215 - World History Since 1500**

**Units: 3**

**When Offered:** Spring

This is a survey of world history from ca. 1500 to the present. The course examines people groups and countries of the early modern and modern eras in Africa, Asia, Europe, Latin America, and the Middle East. Particular attention is given to the political, economic, religious, and cultural interactions between peoples from these regions, with an emphasis on the development of globalization and its impact.

**Grade Type:** Letter Grade

## **HIS 223 - History of the United States since the Civil War**

**Units: 3**

**When Offered:** Fall, Spring, & Online

A continuation of HIS 213 - History of the United States to Reconstruction. May be taken before HIS 213.

**Grade Type:** Letter Grade

## **HIS 225 - World History to 1500**

**Units: 3**

**When Offered:** Fall

This is a survey of world history from the earliest human societies to the beginnings of globalization in ca. 1500. The course examines the development of, and interactions between, peoples, states, civilizations and empires in Asia, Africa, Europe and the Middle East. Particular attention is given to the political, economic, religious, and cultural interactions between peoples from these regions.

**Grade Type:** Letter Grade

## **HIS 305 - History of China**

**Units: 3**

**When Offered:** Fall (odd years)

The course acquaints and familiarizes students with historical inquiry centered upon the entire breadth of Chinese civilization. Students will engage in a study of the dynastic period to the Republican era with the advent of communism in China, focusing upon political, intellectual, economics and social factors.

**Grade Type:** Letter Grade

## **HIS 311 - Minorities in America**

**Units: 3**

**When Offered:** Fall, Spring, & Online

The role of minorities in the development of America. Principal areas of focus are immigration and the immigrant experience and the ethnic experiences of Blacks, Indians, and Hispanics.

**Grade Type:** Letter Grade

## **HIS 315 - Latin American History**



**Units: 3**

**When Offered:** Fall & Online

This course is a survey of Latin American history from the Spanish discovery of the Americas through the Cold War in the twentieth century. The course focuses on the impact of Spanish and Portuguese colonialism, the wars of Latin American Independence, the development of Latin American republics, and the impact of US intervention in the region.

**Grade Type:** Letter Grade

## **HIS 325 - Non-Western Culture and History**

**Units: 3**

**When Offered:** Spring & Online

The course consists of a historical survey exploring primarily the cultural and intellectual features of specifically non-Western cultures, with emphasis given to East Asia, South Asia, and the Middle East, additionally covering Africa, and the pre-Columbian Americas.

**Grade Type:** Letter Grade

## **HIS 330 - Asian Culture and History**

**Units: 3**

**When Offered:** Spring

This course is a survey of the cultural and social history of specific cultures and civilizations of Asia, focusing upon the eastern, western, and southern regions of that continent.

**Grade Type:** Letter Grade

## **HIS 333 - Nineteenth Century Europe**

**Units: 3**

**When Offered:** Fall (even years)

This course is a survey of European history from the French Revolution to World War I. The course focuses on the following themes of the long nineteenth century: nationalism and nation-building, industrialization and social change, Marxism and liberalization, colonialism and imperialism. Of particular importance is the growing tension between Christianity and secularization.

**Grade Type:** Letter Grade

## **HIS 343 - Twentieth Century Europe**

**Units: 3**

**When Offered:** Spring (odd years)

This course is a survey of European History from the outbreak of World War I to the end of the Cold War. Special attention will be given to the study of conditions that produced Fascism, Nazism, and Communism, as well as to the factors that brought about World War II and shaped the development of the post-war world.

**Grade Type:** Letter Grade

## **HIS 350 - The Classical World**

**Units: 3**

**When Offered:** Fall (even years)

The purpose of this course is to provide students with historical knowledge of the Classical World (Greece and Rome). Special attention is additionally given to the Christian and Greco-Roman origins of Western culture.

**Grade Type:** Letter Grade

## **HIS 353 - Renaissance and Reformation Europe**

**Units: 3**

**When Offered:** Fall (odd years)

This course is a survey of European history during the period of the Renaissance and the Reformation (ca. 1350-1600). Special attention will be given to the conditions influencing the development of Renaissance culture, such as the Black Death and Italian Humanism, as well as the religious and political changes prompted by Reformers like Martin Luther and John Calvin.

**Grade Type:** Letter Grade

## **HIS 360 - Enlightenment Europe**

**Units: 3**

**When Offered:** Spring (even years)

This course is a survey of European history during the "Age of Absolutism," from the Thirty Years War to the French Revolution (17th-18th centuries). This period is characterized by the development of royal absolutism, European colonialism, and the Enlightenment. The course focuses on key changes in European culture, including the growth of mercantilism, development of liberalism, and challenges to traditional political and religious authorities.

**Grade Type:** Letter Grade

## **HIS 363 - History of England to 1688**

**Units: 3**

**When Offered:** Fall (odd years)

This course is a survey of English history from pre-Roman times to the Glorious Revolution in 1688. Special attention will be given to the political, religious and cultural changes produced by foreign conquest, Christian expansion, and the cross-Channel interests of the rulers of England.

**Grade Type:** Letter Grade

## **HIS 373 - History of England since 1688**

**Units: 3**

**When Offered:** Spring (even years)

This course is a survey of English history since the Glorious Revolution in 1688. Special attention is given to political developments after the Glorious revolution, the expansion of British colonialism, industrialization and social change, religious movements within England and its colonies, and the impact of decolonization in the twentieth century.

**Grade Type:** Letter Grade

## **HIS 393 - History of California**

**Units: 3**

**When Offered:** Fall, Spring, & Online

The social, economic, and political development of California from its discovery to the present. The latter part of the course is thematic in presentation (i.e., agriculture, transportation, water, etc.).

**Grade Type:** Letter Grade

## **HIS 399 - Independent Study**

**Units: 1-3**

**When Offered:** As offered

This course is designed to afford the superior student an opportunity to work independently on subject matter of the

student's choice. Supervision and evaluation will be provided by a member of the History faculty.

**Grade Type:** Letter Grade

### **HIS 401 - Special Topics in U.S. History**

**Units:** 3

**When Offered:** As offered

Course concentrates on a specific topic in U.S. History.

**Repeatable:** May be repeated one (1) time for credit with change in topic

**Grade Type:** Letter Grade

### **HIS 402 - Special Topics in Non-U.S. History**

**Units:** 3

**When Offered:** As offered

Concentrates on a different topic in Non-U.S. History each time offered.

**Repeatable:** May be repeated for credit with change in topic

**Grade Type:** Letter Grade

### **HIS 403 - Special Topics in European History**

**Units:** 3

**When Offered:** As offered

Course concentrates on a specific topic in European History.

**Repeatable:** May be repeated one (1) time for credit with change in topic

**Grade Type:** Letter Grade

### **HIS 404 - Special Topics in World History**

**Units:** 3

**When Offered:** As offered

Course concentrates on a specific topic in World History.

**Repeatable:** May be repeated one (1) time for credit with change in topic

**Grade Type:** Letter Grade

### **HIS 405 - Classical Sport and Culture**

**Units:** 3

**When Offered:** As offered

The purpose of this course is to explore critically the ways in which at least two of the five areas of the Humanities (Philosophy; Literature; Art; Music; History) are impacted and interact with Classical (Greek and Roman) sports and athletics.

**Grade Type:** Letter Grade

### **HIS 423 - Medieval Civilization**

**Units:** 3

**When Offered:** Spring (odd years)

This course is a survey of European history from the end of the Roman Empire to the emergence of the Renaissance.

The course focuses on the creation of the Germanic kingdoms, the spread of Roman Christianity, and the development of Christendom. Special attention is given to the emergence of the institutional Church and its relationship with

"feudal" Europe.

**Grade Type:** Letter Grade

## **HIS 430 - Cross and the Crescent**

**Units:** 3

**When Offered:** Fall (odd years)

This course traces the history of Christian-Muslim relations over the last fourteen centuries, from the rise of Islam in the early AD 7th century to the confrontations between Islamists and the secular West in the AD 21st century. The course surveys several primary and key secondary texts for understanding Islam and the varied relations between Islamic- and Christian-oriented societies over time. Topics examined in greater detail include Muhammad and the beginnings and rise of Islam, Jesus and other Biblical figures in the Qur'an (Koran), cooperation and competition during the Middle Ages, the Crusades, and modern radical elements in Islam and Christianity.

**Grade Type:** Letter Grade

## **HIS 440 - History of Greece and Rome through Film**

**Units:** 3

**When Offered:** Spring (even years)

This course will lead students through a critical evaluation of the ways in which the history and culture of Greece and Rome are portrayed through popular films. Students will read primary historical literature related to the historical content of the films and will compare how these films represent history accordingly.

**Grade Type:** Letter Grade

## **HIS 472 - Colonial America, 1607-1787**

**Units:** 3

**When Offered:** As offered

This course will examine the thirteen English colonies in North America from the founding of Jamestown through the ratification of the Constitution. Topics such as the establishment of colonial corporate power, religious controversy and freedom, the entrenchment of African slavery, wars with Native communities and the emergence of modern political thought will define this course.

**Grade Type:** Letter Grade

## **HIS 474 - Early American Republic, 1787-1848**

**Units:** 3

**When Offered:** As offered

This course will examine the establishment of the new United States under the Constitution. Topics such as internal development, westward expansion, social and religious movements, democratization and sectional crises leading to the Civil War define this course.

**Grade Type:** Letter Grade

## **HIS 475 - The Civil War and Its Political Crises, 1848-1865**

**Units:** 3

**When Offered:** As offered

This course will examine both the causes and experiences of the American Civil War. Beginning with the ongoing crises leading to the War, this course will include the election of Lincoln, Southern secession, the role of slavery in the war, and experiences on the battlefield.

**Grade Type:** Letter Grade

## **HIS 476 - The Emergence of Modern America, 1865-1919**

**Units: 3**

**When Offered:** As offered

This course will examine American life between the end of the Civil War and WWI. It will emphasize national reconstruction post-Civil War, westward expansion, the rise of industry, urbanization and immigration as well as the US experience in global imperialization and world war.

**Grade Type:** Letter Grade

## **HIS 478 - Modern America, 1920-1989**

**Units: 3**

**When Offered:** As offered

This course will trace the national experience from the post-WWI era through the fall of the Berlin Wall. By emphasizing changes in the nation's modern political, cultural and social fabric, students will understand the history of the 20th Century.

**Grade Type:** Letter Grade

## **HIS 490 - Historiography**

**Units: 3**

**When Offered:** Fall

This course is designed to provide the student with knowledge about the history of historical writing and research by analyzing the work of important past historians and various philosophies, theories, and perspectives on the nature of history itself. Emphasis will also be given to understanding history from a Christian perspective.

**Grade Type:** Letter Grade

## **HIS 491 - Internship in History**

**Units: 1-3**

**When Offered:** Fall, Spring

Students enrolled in this course will gain valuable professional experience by utilizing knowledge and skills acquired as History majors in volunteer or paid internship positions. Students will perform relevant tasks under the direction of the Internship Site Supervisors. Students will identify and explore connections between their internship experiences and academic coursework.

**Grade Type:** Letter Grade

## **HIS 499 - Senior Project**

**Units: 3**

**When Offered:** Spring

A senior capstone course designed to demonstrate the competence of History majors in the discipline and showcase their research and writing skills. The portfolio produced by the student in completion of this project must conform to the departmental guidelines for Senior Projects.

**Grade Type:** Letter Grade

**Prerequisite(s):** HIS 490 and Senior status

## **Honors**

### **HON 100 - Honors Seminar**

**Units: 3****When Offered:** As offered

This Honors Program seminar investigates ideas relevant to a specific assigned topic from the overall standpoint of a central discipline within the liberal arts. The investigation of ideas will proceed systematically, progressively, and in interdisciplinary fashion. Students will have the opportunity for intensive, focused study from historical, philosophical, religious, sociological, political, literary, economic and scientific/technology perspectives. An important dimension of the seminar is to examine the seminar topic's implications for Christian worldview thinking. This seminar is open only to students accepted into the Honors Program.

**Grade Type:** Letter Grade

## **HON 101 - Human Nature**

**Units: 3****When Offered:** Fall

This course examines what it means to be human. Students will consider the concept of human nature from various traditions and in light of biblical or theological principles, as well as explore the universal experiences that are inherent to humanity.

**Grade Type:** Letter Grade

## **HON 102 - Honors Seminar**

**Units: 2****When Offered:** As offered

This Honors Program seminar investigates ideas relevant to a specific assigned topic from the overall standpoint of a central discipline within the liberal arts. The investigation of ideas will proceed systematically, progressively, and in interdisciplinary fashion. Students will have the opportunity for intensive, focused study from historical, philosophical, religious, sociological, political, literary, economic and scientific/technology perspectives. An important dimension of the seminar is to examine the seminar topic's implications for Christian worldview thinking. This seminar is open only to students accepted into the Honors Program.

**Grade Type:** Letter Grade

## **HON 150 - Special Topics Honors Seminar**

**Units: 3****When Offered:** As offered

This Honors Program seminar investigates ideas relevant to a specific assigned topic from the overall standpoint of a central discipline within the liberal arts. The investigation of ideas will proceed systematically, progressively, and in interdisciplinary fashion. Students will have the opportunity for intensive, focused study from historical, philosophical, religious, sociological, political, literary, economic and scientific/technology perspectives. An important dimension of the seminar is to examine the seminar topic's implications for Christian worldview thinking. This seminar is open only to students accepted into the Honors Program.

**Repeatable:** May be repeated for a maximum of nine (9) units**Grade Type:** Letter Grade

## **HON 152 - Honors Seminar**

**Units: 2****When Offered:** As offered

This Honors Program seminar investigates ideas relevant to a specific assigned topic from the overall standpoint of a central discipline within the liberal arts. The investigation of ideas will proceed systematically, progressively, and in interdisciplinary fashion. Students will have the opportunity for intensive, focused study from historical, philosophical, religious, sociological, political, literary, economic and scientific/technology perspectives. An important dimension of

the seminar is to examine the seminar topic's implications for Christian worldview thinking. This seminar is open only to students accepted into the Honors Program.

**Grade Type:** Letter Grade

## **HON 190 - The History of Science**

**Units:** 3

**When Offered:** Fall

This course is a discussion-based evaluation of major scientific ideas throughout history and the paradigm shifts that accompanied new data and new interpretations of that data. The course is roughly divided into three sections: Physics, Astronomy, and Biology. In each area, we will read texts written by the scientists who established and revolutionized disciplines and follow the scientific and theological implications of advances in each of these fields. In physics, we will consider shift how science was conducted by evaluating explanations of motion in Aristotle and Galileo. In astronomy, we will assess the reasonableness of Ptolemy's model of the universe and consider the paradigm shifts accompanying the ideas of Copernicus and later the Big Bang. In biology, we will examine the massive paradigm shift largely credited to Darwin and also evaluate the impact of genetics and DNA on our understanding of evolution. Across all of these we will learn about the importance of quality data, the conflicts associated with interpreting data, the complexities of paradigm shifts, and the implications of these on our worldviews.

**Grade Type:** Letter Grade

## **HON 200 - Honors Seminar**

**Units:** 3

**When Offered:** As offered

This Honors Program seminar investigates ideas relevant to a specific assigned topic from the overall standpoint of a central discipline within the liberal arts. The investigation of ideas will proceed systematically, progressively, and in interdisciplinary fashion. Students will have the opportunity for intensive, focused study from historical, philosophical, religious, sociological, political, literary, economic and scientific/technology perspectives. An important dimension of the seminar is to examine the seminar topic's implications for Christian worldview thinking. This seminar is open only to students accepted into the Honors Program.

**Grade Type:** Letter Grade

## **HON 201 - Wisdom: Ancient Texts and Modern Thought**

**Units:** 3

**When Offered:** Spring

This course focuses on the foundation and development of wisdom and its relationship to worldview, faith, and moral living. Students will examine how the concept of wisdom broadens our perspective about God, self, others, and the world. The course takes take a multi-disciplinary approach, using historical, anthropological, sociological, philosophical, political, and theological sources.

**Grade Type:** Letter Grade

## **HON 250 - Honors Seminar**

**Units:** 3

**When Offered:** As offered

This Honors Program seminar investigates ideas relevant to a specific assigned topic from the overall standpoint of a central discipline within the liberal arts. The investigation of ideas will proceed systematically, progressively, and in interdisciplinary fashion. Students will have the opportunity for intensive, focused study from historical, philosophical, religious, sociological, political, literary, economic and scientific/technology perspectives. An important dimension of the seminar is to examine the seminar topic's implications for Christian worldview thinking. This seminar is open only

to students accepted into the Honors Program.

**Grade Type:** Letter Grade

## **HON 251 - Christian Character and the Community of Faith**

**Units:** 3

**When Offered:** Spring

This course examines key passages in Christ's teaching on the formation of Christian character. It traces how these teachings were explicated by later New Testament writers and embodied by the Christian community in the first three centuries of the church.

**Grade Type:** Letter Grade

## **HON 260 - Society and Media Theory**

**Units:** 3

**When Offered:** Spring

The course examines the functions, responsibilities, and influence of various mass media and emerging forms of niche media in society. Students review the theories, structures, processes, practices, economics, critical analyses, and historical aspects of mass media and its social responsibility.

**Grade Type:** Letter Grade

## **HON 300 - Honors Seminar**

**Units:** 3

**When Offered:** As offered

This Honors Program seminar investigates ideas relevant to a specific assigned topic from the overall standpoint of a central discipline within the liberal arts. The investigation of ideas will proceed systematically, progressively, and in interdisciplinary fashion. Students will have the opportunity for intensive, focused study from historical, philosophical, religious, sociological, political, literary, economic and scientific/technology perspectives. An important dimension of the seminar is to examine the seminar topic's implications for Christian worldview thinking. This seminar is open only to students accepted into the Honors Program.

**Grade Type:** Letter Grade

## **HON 310 - The Just Society**

**Units:** 3

**When Offered:** Fall

This course examines the meaning of justice and the state's role in ensuring justice. Through a careful study of ancient and modern thinkers, this course aims to equip students with an understanding of the diverse meanings of justice that have shaped our contemporary political environment.

**Grade Type:** Letter Grade

## **HON 320 - The Flourishing Writer**

**Units:** 3

**When Offered:** Spring

This course takes an interdisciplinary approach to the relationship between human flourishing and creative writing practice. The course will explore areas such as Christian traditions of contemplative writing, the Imago Dei and the Christian imagination, and arts-based research. Through various genres (poetry, fiction, nonfiction), students will explore enduring questions of the human experience: What does it mean to live a flourishing, joyful life? How do I engage thoughtfully and compassionately with culture? What are the emotional and intellectual benefits of creative



writing?

**Grade Type:** Letter Grade

## **HON 345 - Virtue in a Secular Age**

**Units:** 3

**When Offered:** Spring

This course examines the evolution of the concept of virtue against the historical backdrop of western secularization. It will explore the key historical and cultural events that led to secularization and chart a path toward meaning and hope from a biblical understanding of virtue.

**Grade Type:** Letter Grade

## **HON 352 - Honors Seminar**

**Units:** 2

**When Offered:** As offered

This Honors Program seminar investigates ideas relevant to a specific assigned topic from the overall standpoint of a central discipline within the liberal arts. The investigation of ideas will proceed systematically, progressively, and in interdisciplinary fashion. Students will have the opportunity for intensive, focused study from historical, philosophical, religious, sociological, political, literary, economic and scientific/technology perspectives. An important dimension of the seminar is to examine the seminar topic's implications for Christian worldview thinking. This seminar is open only to students accepted into the Honors Program.

**Grade Type:** Letter Grade

## **HON 380 - Interpersonal Dynamics and Community**

**Units:** 3

**When Offered:** Fall

This course explores the concept of community through the lens of the behavioral sciences, with a special focus on neurobiology and interpersonal dynamics. This course will also provide an exploration of Biblical views on community and offer approaches, based in Scripture and science, to interact with and improve communities and interpersonal relationships.

**Grade Type:** Letter Grade

## **HON 399 - Independent Study**

**Units:** 3

**When Offered:** As offered

This course through independent study will investigate ideas systematically, progressively and in interdisciplinary fashion. The course will be thematically linked, so that students will have the opportunity for intensive, focused study from historical, philosophical, religious, sociological, political, literary, economic and scientific/technological perspectives. This course is open only to students accepted into the Honors Program.

**Grade Type:** Letter Grade

## **HON 402 - Honors Seminar**

**Units:** 2

**When Offered:** As offered

This Honors Program seminar investigates ideas relevant to a specific assigned topic from the overall standpoint of a central discipline within the liberal arts. The investigation of ideas will proceed systematically, progressively, and in interdisciplinary fashion. Students will have the opportunity for intensive, focused study from historical, philosophical,

religious, sociological, political, literary, economic and scientific/technology perspectives. An important dimension of the seminar is to examine the seminar topic's implications for Christian worldview thinking. This seminar is open only to students accepted into the Honors Program.

**Grade Type:** Letter Grade

## **HON 410 - Leadership: Ancient and Modern**

**Units:** 3

**When Offered:** Fall

This course will examine the concept of leadership. By studying ancient and modern leaders, as well as leadership theorists, students will explore the essential skills and strategies for effective leadership.

**Grade Type:** Letter Grade

## **HON 451 - Honors Special Topics**

**Units:** 3

**When Offered:** As offered

This Honors Program seminar investigates ideas relevant to a specific assigned topic from the overall standpoint of a central discipline within the liberal arts.

**Repeatable:** May be repeated for a maximum of nine (9) units

**Grade Type:** Letter Grade

## **HON 452 - Honors Seminar**

**Units:** 1

**When Offered:** As offered

This Honors Program seminar investigates ideas relevant to a specific assigned topic from the overall standpoint of a central discipline within the liberal arts. The investigation of ideas will proceed systematically, progressively, and in interdisciplinary fashion. Students will have the opportunity for intensive, focused study from historical, philosophical, religious, sociological, political, literary, economic and scientific/technology perspectives. An important dimension of the seminar is to examine the seminar topic's implications for Christian worldview thinking. This seminar is open only to students accepted into the Honors Program.

**Grade Type:** Letter Grade

## **HON 490 - Human Flourishing**

**Units:** 3

**When Offered:** Spring

This course examines the concept of human flourishing. Students will be exposed to experts across the university presenting the concept of "the good life" from their areas of academic proficiency. Special attention will be paid to uniting common themes from the multiple disciplines presented.

**Grade Type:** Letter Grade

## **Human Services**

### **HMS 100 - Introduction to Human Services**

**Units:** 3

**When Offered:** Online

Students will be introduced to the field of human services and will examine the human services as a profession.

Students will explore the history of the helping relationship, the human services movement, intervention strategies within different settings, managed care, and models of service delivery. Students will also be introduced to career opportunities in fields such as: aging, homelessness, corrections, substance abuse, child welfare, mental health, and disabled populations.

**Grade Type:** Letter Grade

## **HMS 213 - Theories of Human Services**

**Units:** 3

**When Offered:** Online

Students will be introduced to fundamental theories of human services. This course aims to facilitate a greater understanding of how theoretical frameworks can be applied to the human services field and profession. Students will be exposed to a broad range of psychology-based counseling theories related to personal, social, and organizational issues. Personality theory and conceptual approaches in psychotherapy are featured, as well as multicultural issues and social justice themes.

**Grade Type:** Letter Grade

**Prerequisite(s):** HMS 100

## **HMS 310 - Diversity and Social Justice**

**Units:** 3

**When Offered:** Online

Students will be introduced to issues of diversity, oppression, human rights, and social justice. Students will examine people's perceptions of race, ethnicity, culture, religion, age, sex, sexual orientation, social and economic status, political ideology, disability, and how these contribute to discrimination and oppression. Students will learn about diverse cultures, family structure, roles, immigration, and assimilation experiences of marginalized groups. Students will also learn about the influence of dominant culture on these diverse and marginalized (population at risk) groups. This course will also focus on advancing human rights and students will learn how to resolve conflict that may emerge across diverse settings.

**Grade Type:** Letter Grade

**Prerequisite(s):** HMS 100

## **HMS 320 - Ethics and Legal Implications of Human Services**

**Units:** 3

**When Offered:** Online

The student is introduced to professional ethics in the helping professions. Class focuses on the knowledge, skills, and values essential to ethical decision-making in responsible practice. Case studies through integrated learning will be utilized for discussion, self-exploration, and skill building for problem solving of ethical issues and dilemmas.

**Grade Type:** Letter Grade

**Prerequisite(s):** HMS 100

## **HMS 330 - Context of Human Social Behavior**

**Units:** 3

**When Offered:** Online

Students will be introduced to the ways in which individuals and group behavior develop in interaction with the social environment. Through the lens of theoretical frameworks, students will understand the dimensions and complexity of the human experience and how culture shapes individual values, beliefs, and worldviews. Human development will be examined throughout the lifespan, using the developmental scientific knowledge regarding opportunities and vulnerabilities present during the different stages of the life cycle and the biopsychosocial factors that can influence individual development.

**Grade Type:** Letter Grade

**Prerequisite(s):** HMS 100

## **HMS 340 - Case Management and Assessment in Human Services**

**Units:** 3

**When Offered:** Online

This course will emphasize community organizational theory and practice in human services, and community needs and assessment. In addition, students will be asked to develop change strategies and planning techniques to address deficits. Focuses on case management as a method of human service delivery. Students will develop skills in managing multiple aspects of human service interventions in dual roles of coordinator and provider of direct services. Case presentations, skill development assignments, and community projects are required.

**Grade Type:** Letter Grade

**Prerequisite(s):** HMS 100

## **HMS 415 - Family Violence and Mandated Reporting**

**Units:** 3

**When Offered:** Online

An introduction to and overview of the phenomena of child abuse, as it relates to the helping professional. This class will examine the definition and cause of child abuse from sociological, cultural and psychological perspectives. The legal and child welfare systems will be studied in addition to treatment and prevention aspects of the child abuse issue.

**Grade Type:** Letter Grade

**Prerequisite(s):** HMS 100

## **HMS 420 - Crisis Intervention**

**Units:** 3

**When Offered:** Online

Introduction to the theory and practice of crisis intervention including triage assessment, skill-building, cultural implications, and practical applications. Approaches that assist individuals, groups, organizations and communities to manage crises will be explored and practiced. Understanding of the short-term nature of crisis intervention, and how counselors work with first responders and others will be explored.

**Grade Type:** Letter Grade

**Prerequisite(s):** HMS 100

## **HMS 495 - Human Services Capstone Project**

**Units:** 3

**When Offered:** Online

The course is an in-depth, student-centered experience that requires the integration of theory and practical experience. Students will apply the skills and techniques they have learned as well as their knowledge of agencies and culturally diverse client populations to a specific project. The project will identify an issue, problem, information gap or creative endeavor in which the student will explore, research, evaluate and theorize in a final paper. On successful completion of the course, students will have met the learning outcomes of the Human Services degree program.

**Grade Type:** Letter Grade

**Prerequisite(s):** Permission of the Department Chair

## **Humanities**

### **HUM 213 - Humanities I**

**Units: 3**

**When Offered:** Fall, Spring, & Online

The course consists of interrelations of history, art, literature, music, and philosophy. It covers the culture-epochs from the Ancient River-Valley Civilizations through the Medieval period.

**Grade Type:** Letter Grade

## **HUM 223 - Humanities II**

**Units: 3**

**When Offered:** Fall, Spring, & Online

The course consists of interrelations of history, art, literature, music, and philosophy. It covers the culture-epochs from the Renaissance to contemporary times.

**Grade Type:** Letter Grade

## **HUM 325 - Culture and the Museum**

**Units: 3**

**When Offered:** Fall

The purpose of this course is to explore critically the ways in which at least two of the five areas of the Humanities (Philosophy; Literature; Art; Music; General Historical Culture) are related to the experience of the museum, with specific attention given to the historical importance of the museum as an educational institution. The particular cultural emphases and museum(s) to visit are left to the discretion of the course professor.

**Grade Type:** Letter Grade

## **HUM 335 - The Holocaust and the Humanities**

**Units: 3**

**When Offered:** Spring

The purpose of this course is to explore critically the ways in which at least two of the five areas of the Humanities (Philosophy; Literature; Art; Music; General Historical Culture) are impacted and interact with the historical experience of the Holocaust. The focus of this course will be on the Philosophy, Literature, Art, and History.

**Grade Type:** Letter Grade

## **HUM 400 - Special Topics in Humanities**

**Units: 3**

**When Offered:** As offered

This course examines special topics in humanities. Topics are announced each time the course is offered.

**Repeatable:** May be repeated for credit with change in topic

**Grade Type:** Letter Grade

## **HUM 401 - Special Studies in Humanities**

**Units: 1**

**When Offered:** As offered

This course examines special topics in humanities. Topics are announced each time the course is offered.

**Repeatable:** May be repeated for credit with change in topic

**Grade Type:** Letter Grade

## **Illustration**

## **ILL 200 - Special Topics in Illustration**

**Units: 1-3**

**When Offered:** As offered

This course will explore and present selected topics in illustration.

**Repeatable:** May be repeated for a maximum of nine (9) units with change in topic

**Grade Type:** Letter Grade

## **ILL 210 - Illustration I**

**Units: 3**

**When Offered:** Spring

This course builds a working knowledge of the historical and contemporary illustrators and various styles and approaches to the craft. Projects will build important skills in drawing, painting, color theory, storytelling, and typography.

**Grade Type:** Letter Grade

**Fee:** Additional course fee (TRAD only)

## **ILL 250 - Digital Painting I**

**Units: 3**

**When Offered:** Fall

This course will introduce digital painting methods including conceptualizing, composing, refining and evaluating digital illustration. Additionally, the course will introduce digital illustration workflows and software applications for composition, color, contrast and value as a means to broaden skill sets in storytelling.

**Grade Type:** Letter Grade

**Prerequisite(s):** DES 101

## **ILL 305 - The Figure in Motion**

**Units: 1**

**When Offered:** Fall, Spring

This course concentrates on developing a mastery of rendering the human figure in motion via live studio drawing sessions.

**Repeatable:** May be repeated for a maximum of eight (8) units

**Grade Type:** Letter Grade

**Prerequisite(s):** ART 204 or 208

## **ILL 310 - Illustration II**

**Units: 3**

**When Offered:** Fall

This course will build a working knowledge of ideation, story building, technique and experimentation with media. Projects will build important art execution skills, as well as technical knowledge in the publishing industry.

**Grade Type:** Letter Grade

**Fee:** Additional course fee (TRAD only)

**Prerequisite(s):** ILL 210

## **ILL 350 - Digital Painting II**

**Units: 3**

**When Offered:** Spring

This course is an advanced digital painting methods course that moves beyond basic digital workflows and software into advanced digital illustration techniques for composition, color, contrast, and value as a means to effective storytelling.

**Grade Type:** Letter Grade

**Prerequisite(s):** GDM 235 or ILL 250

## **ILL 400 - Special Topics in Illustration**

**Units: 1-3**

**When Offered:** As offered

This course will explore and present selected topics in illustration.

**Repeatable:** May be repeated for a maximum of nine (9) units with change in topic

**Grade Type:** Letter Grade

## **ILL 410 - Illustration Studio**

**Units: 3**

**When Offered:** Spring

This studio-based course is expected to be the culmination and synthesis of skills acquired in prior courses leading to the development of an refined illustration style development through the completion of multiple advanced illustration portfolio projects.

**Repeatable:** May be repeated for a maximum of six (6) units of credit

**Grade Type:** Letter Grade

**Fee:** Additional course fee (TRAD only)

**Prerequisite(s):** ILL 310

## **ILL 499 - Senior Project**

**Units: 3**

**When Offered:** Spring

This course is designed as a capstone showcase of the student's accumulated body of work while in the program. The Illustration Senior Show will consist of pieces from the student's portfolio.

**Grade Type:** Letter Grade

**Prerequisite(s):** Senior status

## **Intercultural Studies**

### **ICS 105 - Introduction to Global Studies**

**Units: 3**

**When Offered:** Fall, Spring

This course addresses the basic elements of the Christian faith in the context of participating in God's global agenda. Topics include Christian worldview, the Kingdom of God, the gospel of Jesus Christ, the work of the Holy Spirit, the mission of the Church, and the role of prayer.

**Grade Type:** Letter Grade

### **ICS 130 - Intercultural Communications for International Students**

**Units: 3**

**When Offered:** As offered

This course is designed to assist international students in understanding and implementing successful intercultural communications theory, integrating successfully into American academic culture, and developing necessary communication skills in order to relate cross-culturally in their academic, professional, and personal lives. The course will also aid the student in interacting with Christian faith.

**Grade Type:** Letter Grade

**Prerequisite(s):** International Student or Permission of the Dean

## **ICS 205 - Global Discipleship**

**Units: 3**

**When Offered:** Fall

This course lays a foundation for biblical spiritual formation, then builds on insights regarding different Christian approaches to culture and draws from comparisons of discipleship models around the world.

**Grade Type:** Letter Grade

**Prerequisite(s):** 3 units of Biblical studies coursework

## **ICS 305 - Global Christianity**

**Units: 3**

**When Offered:** Spring

A general survey of the redemptive activity of God in the world -- past, present, and future. Topics include the biblical basis of God's global activity, historical perspectives, mission strategies, and cultural implications, as well as contemporary missiological issues.

**Grade Type:** Letter Grade

**Prerequisite(s):** 3 units of Biblical Studies coursework

## **ICS 325 - Spiritual Formations for Global Engagement**

**Units: 3**

**When Offered:** As offered

An exploration of biblical principles that are foundational to intimacy with Christ and effective engagement in the mission of Christ. Students will learn to implement these principles in their own lives as they participate in the kingdom of God through global engagement.

**Grade Type:** Letter Grade

**Prerequisite(s):** Previous Biblical Studies coursework

## **ICS 330 - Missiology**

**Units: 3**

**When Offered:** Fall

This course is a study of the biblical and theological foundations of global missions with the aim of articulating mission methods and contextualizing mission opportunities. Students will discover the mission of the church in reaching the nations and will explore the historical, anthropological, and sociological roots of missionary efforts. Students will also learn to apply missiological methods in global and urban settings.

**Grade Type:** Letter Grade

**Prerequisite(s):** 3 units of Biblical Studies

## **ICS 375 - Human Rights**



**Units: 3**

**When Offered:** Fall, Spring

This course will examine human rights in light of current political, social, and economic issues in select areas of the world. Students will explore the global impact of these issues and will address ways in which the church can provide positive change.

**Grade Type:** Letter Grade

**Fee:** Additional course fee

**Prerequisite(s):** 3 units of Biblical Studies coursework

## **ICS 399 - Independent Study**

**Units: 1-3**

**When Offered:** As offered

This course of study is offered to afford the student an opportunity to explore independently subject matter not already offered in the catalog.

**Grade Type:** Letter Grade

## **ICS 410 - Global and Urban Ministries**

**Units: 3**

**When Offered:** Spring

This course studies the biblical and theological foundations of global missions alongside mission strategies applied in global and urban settings.

**Grade Type:** Letter Grade

**Prerequisite(s):** 3 units of Biblical Studies coursework

## **ICS 415 - Special Topics in Intercultural Studies**

**Units: 3**

**When Offered:** As offered

An examination of specific area(s) of Intercultural Studies.

**Repeatable:** May be repeated for credit with change in topic

**Grade Type:** Letter Grade

**Prerequisite(s):** 3 units of Biblical Studies coursework

## **ICS 430 - Intercultural Communication and Practice**

**Units: 3**

**When Offered:** Spring

This course will address principles and processes of communication from one culture to another. Attention will be given to different perceptions, ways of thinking, values, verbal and non-verbal expression, and sub-groups within a given culture.

**Grade Type:** Letter Grade

**Prerequisite(s):** 3 units of Biblical Studies coursework

## **ICS 431 - Cross-cultural Immersion**

**Units: 3**

**When Offered:** Spring, Summer

This course provides students with the opportunity for supervised cross-cultural immersion and study abroad in order to experience the challenges of serving in an international setting. The immersion experience is designed to create a

context for extended and applied learning as the course concepts are integrated into life experiences. Course material will be presented through lectures, small group discussions, reading assignments, and cultural immersion with an emphasis on relational development and service.

**Grade Type:** Letter Grade

**Prerequisite(s):** Permission of the Associate Dean

## **ICS 435 - Evangelism and Church Planting**

**Units:** 3

**When Offered:** Fall

This course examines the biblical principles of evangelism and church planting. Students will learn to combine the biblical content of the gospel with appropriate skills for sharing the gospel, with the aim of training disciples for the local church. Attention will also be given to strategies of church planting for local and global contexts. Student involvement in evangelistic ministry is expected.

**Grade Type:** Letter Grade

**Prerequisite(s):** Previous Biblical Studies coursework

## **ICS 495 - Field Practicum**

**Units:** 3-15

**When Offered:** Fall, Spring, Summer

This course provides Global Studies majors with extended cross-cultural experience through an approved study abroad or domestic program. Students will spend a semester working with resident field personnel. The field practicum provides an opportunity to develop cross-cultural experience while exploring specific geographical, cultural and career areas of interest.

**Repeatable:** May be repeated for a maximum of fifteen (15) units

**Grade Type:** Letter Grade

**Prerequisite(s):** Global Studies major, ANT 225, ICS 105, 205, 305, and permission of the Associate Dean

## **Interdisciplinary Studies**

### **IDS 498 - Interdisciplinary Studies Capstone**

**Units:** 3

**When Offered:** Online

Students will review their personal and professional development based upon their baccalaureate experiences at California Baptist University. Students will evaluate their growth and development through the program, identify their relative strengths and areas for growth, and develop a personal development plan. Students will demonstrate critical self-reflection and ability to make judicious, relevant and insightful applications and professional judgment from their cumulative undergraduate experience.

**Grade Type:** Pass/Fail

**Prerequisite(s):** Permission of Department Chair

### **IDS 499 - Capstone Portfolio**

**Units:** 1

**When Offered:** Online

Students will review their personal and professional development based upon their baccalaureate experiences at California Baptist University. Students will evaluate their growth and development through the program, identify their relative strengths and areas for growth, and develop a personal development plan. Students will demonstrate critical self-reflection and the ability to make judicious, relevant and insightful applications and professional judgement from

their cumulative undergraduate experience.

**Grade Type:** Pass/Fail

**Fee:** Additional course fee

## Interior Design

### IND 200 - Special Topics in Interior Design

**Units:** 1-6

**When Offered:** As offered

This course explores and presents selected topics in interior design.

**Repeatable:** May be repeated for a maximum of nine (9) units with change in topic

**Grade Type:** Letter Grade

### IND 250 - Space Planning and Code

**Units:** 3

**When Offered:** Fall (even years)

This course focuses on space planning with an emphasis on programming and behavior aspects of space. Additionally, the course introduces and applies federal and state code and specifications concerning life-safety issues, barrier free access and universal design requirements relative to interior design. Skill and knowledge are applied to the design of spaces.

**Grade Type:** Letter Grade

**Prerequisite(s):** ARC 120

### IND 280 - Materials, Finishes, and Sourcing

**Units:** 3

**When Offered:** Spring (odd years)

This course explores the process of material research and its use in the design of interior space.

**Grade Type:** Letter Grade

**Prerequisite(s):** ARC 120

### IND 310 - Interior Design Studio I

**Units:** 6

**When Offered:** Fall

This course explores the concepts and practices within interior design related to space, planning, and culture.

**Grade Type:** Letter Grade

**Fee:** Additional course fee

**Prerequisite(s):** ARC 122

### IND 312 - Interior Design Studio II

**Units:** 6

**When Offered:** Spring

This course explores the concepts and practices within interior design relating to residential construction including kitchen, bath design, and universal design.

**Grade Type:** Letter Grade

**Fee:** Additional course fee

**Prerequisite(s):** ARC 122

## **IND 340 - The Historic Interior**

**Units:** 3

**When Offered:** Spring (odd years)

This course examines the Historic Interior from the nineteenth and twentieth centuries, considering the fine, decorative, and luxury arts produced, the artists and figures who produced them, and the historic styles and context in which these interiors were produced.

**Grade Type:** Letter Grade

**Prerequisite(s):** ARC 242

## **IND 400 - Special Topics in Interior Design**

**Units:** 1-6

**When Offered:** As offered

This course explores and presents non-studio based selected topics in interior design.

**Repeatable:** May be repeated for a maximum of nine (9) units with change in topic

**Grade Type:** Letter Grade

## **IND 401 - Special Topics in Interior Design Studio**

**Units:** 1-6

**When Offered:** As offered

This course explores and presents studio based selected topics in interior design.

**Repeatable:** May be repeated for a maximum of twelve (12) units with change in topic

**Grade Type:** Letter Grade

**Prerequisite(s):** Permission of the Dean

## **IND 410 - Interior Design Studio III**

**Units:** 6

**When Offered:** Fall

This course explores the concepts and practices within interior design related to Commercial and or Health Service interiors including consideration of building codes.

**Grade Type:** Letter Grade

**Fee:** Additional course fee

**Prerequisite(s):** ARC 122

## **IND 412 - Interior Design Studio IV**

**Units:** 6

**When Offered:** Spring

This course explores the concepts and practices within interior design related to with advanced design solutions in a variety of settings.

**Grade Type:** Letter Grade

**Fee:** Additional course fee

**Prerequisite(s):** ARC 122

## **IND 464 - International Seminar**

**Units: 3**

**When Offered:** As offered

The course offers students an opportunity to experience and discuss the development of non-American built environments. Focused on studying interior design in concert with, and through the lens of an allied field of study, the course examines contemporary phenomena in the built environment and its relationship with its inhabitants.

**Grade Type:** Letter Grade

**Prerequisite(s):** IND 310

## **IND 464G - International Seminar**

**Units: 3**

**When Offered:** As offered

The course offers students an opportunity to experience and discuss the development of non-American built environments. Focused on studying interior design in concert with, and through the lens of an allied field of study, the course examines contemporary phenomena in the built environment and its relationship with its inhabitants. Offered only abroad.

**Grade Type:** Letter Grade

**Fee:** Additional trip fee(s)

**Prerequisite(s):** IND 310

## **Interprofessional Education**

### **IPE 410 - Interprofessional Education: Exposure**

**Units: 1**

**When Offered:** Fall

This IPE introductory course provides exposure to learners early in their educational programs to engage in activities that offer knowledge based information, focused on describing roles and responsibilities and demonstrating awareness of interprofessional (IP) communication and teamwork in the context of shared curricular topics required across health professions. An introductory level hybrid course of Inter-Professional Education Collaborative (IPEC) competencies and an end of course seminar for all students will be required.

**Grade Type:** Pass/Fail

**Prerequisite(s):** Social Work major

### **IPE 420 - Interprofessional Education: Immersion**

**Units: 1**

**When Offered:** Spring

This course will engage intermediate learners in their educational program together through their own programs activities that provide opportunities to continue to build upon IPE competencies and develop collaborative skills, knowledge, and attitudes. Programs will integrate multifaceted active teaching methods such as simulation, problem-based learning, clinical practicum, community-based projects, service-learning, and other IPE activities.

**Grade Type:** Pass/Fail

**Pre- or Co- Requisite(s):** IPE 410

### **IPE 430 - Interprofessional Education: Competence**

**Units: 1**

**When Offered:** Spring

This course prepares advanced learners to work collaboratively, as appropriate, to assess, plan, provide care/intervention, and make decisions to optimize client/patient, family, and community health outcomes, and improve

quality of care through a university-wide IPE simulation. Students will draw upon previously learned knowledge, skills, and attitudes related to the four domains of IPE education to effectively apply leadership qualities that support collaborative practice and team effectiveness through reflection and application.

**Grade Type:** Pass/Fail

**Prerequisite(s):** IPE 420

## **International Health**

### **INH 101 - Introduction to International Health**

**Units:** 3

**When Offered:** As offered

This course will orient students to the socio-cultural and economic influence on population-level variation in health and illness. Students will learn about key players in international health, Ministries of Health, UN agencies, foundations, and NGOs. They will be introduced to the major health problems currently affecting the developing world, and will also learn about the CBU mission, objectives, and initiatives, its local and international partners, and about opportunities to gain experience in international health.

**Grade Type:** Letter Grade

### **INH 300 - Outbreak and Emergency Preparation and Response**

**Units:** 3

**When Offered:** As offered

This course is an intensive introduction to public health emergency preparedness and response and covers a number of topics, including: the role of public health in disasters; intentional mass threats; emergency operations planning and exercises; and infectious disease emergency readiness.

**Grade Type:** Letter Grade

### **INH 305 - Maternal and Child Health in Developing Countries**

**Units:** 3

**When Offered:** As offered

This course provides an overview of the critical health problems of women, adolescents, and children in resource limited settings and examines programmatic interventions and practical strategies that respond to those problems. The course covers MCH proposal development, community involvement and program implementation and management. Students will acquire skills in assessing and understanding health issues among women, adolescents and children in a community, setting measurable MCH objectives, planning and evaluating appropriate and culturally-relevant interventions, and involving communities in these processes.

**Grade Type:** Letter Grade

### **INH 320 - Population Health and Family Planning**

**Units:** 3

**When Offered:** As offered

This class provides an introduction to the wide range of global health challenges facing countries today such as the measurement of health status, infectious and chronic diseases, injuries, nutrition, reproductive health, global environmental health and complex emergencies. This class will also include discussion of family planning methods and implications both in the United States and globally; focusing on topics such as the declining population, gender and health, contraception, health policy and implications regarding family planning as well as the discussion of the Millennium Development Goals (MDG's).

**Grade Type:** Letter Grade

# Journalism

## JRN 150 - Media and Society

**Units:** 3

**When Offered:** Fall, Spring, & Online

Functions, responsibilities, and influence of various mass media and emerging forms of niche media in society. Students review the theories, structures, functions, practices, economics, critical analyses, and historical aspects of mass media and its social responsibility in society.

**Grade Type:** Letter Grade

## JRN 170 - Writing for Mass Media

**Units:** 3

**When Offered:** Fall, Spring, & Online

An introduction to mass media writing. Students will utilize journalistic reporting, editing and writing for mass audiences intended for distribution across electronic and print media outlets.

**Grade Type:** Letter Grade

**Prerequisite(s):** ENG 113 or 113E

## JRN 200 - Special Topics in Journalism

**Units:** 3

**When Offered:** As offered

Concentration upon a specific topic in the field of Journalism. Topic varies for different semesters.

**Repeatable:** May be repeated for credit with change in topic

**Grade Type:** Letter Grade

## JRN 210 - Photojournalism

**Units:** 3

**When Offered:** Spring

The desire to understand the world through images and text has never been in higher demand, thus the need for photojournalists with a commitment to truth is just as high. The emphasis is on how to use the camera to communicate a message of awareness and lasting impact. Weekly exercises, both written and photographic, will be the foundation of this experience. Recent trends in the industry, as well as philosophical and historical roots of the profession, will be examined.

**Grade Type:** Letter Grade

## JRN 215 - News Production for Broadcast and Print Journalism

**Units:** 1-3

**When Offered:** Fall, Spring

The purpose of this production course is to prepare students to be future journalists by creating a high-quality publication, The Banner. Students will learn to work within the guidelines of the university, the publisher of the newspaper. Students will learn to perform all tasks involved with the production of a bi-weekly publication, which includes meeting deadlines and completing assigned tasks.

**Repeatable:** May be repeated for a maximum of eight (8) units with change in topic

**Grade Type:** Letter Grade

## **JRN 216 - Digital Storytelling**

**Units: 3**

**When Offered:** Fall, Spring

This course prepares the student to work in the new media marketplace where online and digital platforms are as important as traditional print media by incorporating audio and video components to storytelling. Instructional goals are to enhance awareness of mobile journalism elements and skills; to introduce an understanding of ethics, standards and legalities of producing and publishing mobile journalism stories; and to provide knowledge and skills necessary to develop audio and video components of multimedia journalism.

**Grade Type:** Letter Grade

## **JRN 254 - Publication Layout and Design**

**Units: 3**

**When Offered:** Fall, Spring

Principles and practical experiences in layout and design, including copy, typography, photos and cutlines, and developing pre-press documents to provide practical knowledge of state-of-the-art publishing technology.

**Grade Type:** Letter Grade

## **JRN 310 - Advanced Photojournalism**

**Units: 3**

**When Offered:** Fall (even years)

Principle concerns will be advanced problem solving and messaging for photography as a key element in journalism, as well as exploring the photojournalist's role in the news and editorial process. Visual perception, the role of words, picture editing, taste and judgement will also play a part in class discussion and presentations. Each week, both visual and written assignments will move the class to a better understanding of the potential and power of a journalistic package.

**Grade Type:** Letter Grade

**Prerequisite(s):** JRN 210

## **JRN 312 - Magazine and Feature Writing**

**Units: 3**

**When Offered:** Spring

Planning, gathering material, writing and preparation of articles for specialized and general media publications, with emphasis on the magazine article and newspaper feature; includes overview of the magazine market. Laboratory and field work. Students may only earn credit for either JRN 312 or JRN 350.

**Grade Type:** Letter Grade

**Prerequisite(s):** JRN 170

## **JRN 315 - News Reporting**

**Units: 3**

**When Offered:** Fall (odd years)

Practice in gathering information, conducting interviews and using online databases in writing and reporting news stories. Emphasis on style, clarity, accuracy, responsibility in handling the reporting of news. Laboratory and fieldwork.

**Grade Type:** Letter Grade

**Prerequisite(s):** JRN 170



## **JRN 320 - Media Law, Ethics, and Copyright**

**Units: 3**

**When Offered:** Fall, Spring, & Online

An introduction to the ethical and legal aspects of public relations and journalism, including print, online and broadcasting. Students will gain practical insight into the field through review of real-world case studies and materials on ethics, policies and law.

**Grade Type:** Letter Grade

## **JRN 325 - Principles of Podcasting and Broadcasting**

**Units: 3**

**When Offered:** Fall

This course will provide students with an introduction to electronic and traditional broadcasting principles. Students will analyze, synthesize, and evaluate online and traditional broadcasting principles in the form of podcasts.

**Grade Type:** Letter Grade

## **JRN 340 - Sports Writing**

**Units: 3**

**When Offered:** Spring (odd years)

Students learn how to write a sports story, examining issues from race and gender to hero worship and sportsmanship, as well as trends and philosophies and the ethics of what sports journalists do and why they do it. Students will gain experience in covering games; writing for major and minor sports; interviewing; finding feature stories; columns; legal aspects of sports reporting; and covering breaking news in sports.

**Grade Type:** Letter Grade

## **JRN 349 - Editing for Print and Online Media**

**Units: 3**

**When Offered:** Spring & Online

A course involving students in an in-depth study of procedures of copy editing for newspapers, magazines and online media. Through assignments and exercises, students will develop superior skills in grammar and word usage, punctuation, spelling, style, fact-checking, use of reference books, and writing headlines and captions. Students will practice substantive editing, and proofreading for print and online media. The special conditions of the increasingly important Internet to copy editors will be demonstrated.

**Grade Type:** Letter Grade

**Prerequisite(s):** ENG 113, 113E, or JRN 170

## **JRN 350 - Magazine Writing**

**Units: 3**

**When Offered:** Online

Development of versatile writing and research skills for selected print media, with emphasis on magazine article and newspaper feature, includes overview of magazine market. Students may only earn credit for either JRN 312 or JRN 350.

**Grade Type:** Letter Grade

## **JRN 360 - Audio and Video Newsgathering**

**Units: 3**

**When Offered:** Spring (even years)

This course provides students opportunities to participate in the production of audio and video news stories and newscasts, using professional principles, aesthetics, ethics, and practices of journalistic audio and video reporting, producing in-field and project assignments.

**Grade Type:** Letter Grade

## **JRN 370 - Social Media Strategies**

**Units: 3**

**When Offered:** Fall

This course provides students opportunities to analyze, use and produce content for current and emerging social media, such as Twitter, Facebook, Tumbler, YouTube, Reddit, and other professional business platforms.

**Grade Type:** Letter Grade

## **JRN 371 - Applied Journalism Production**

**Units: 3**

**When Offered:** Online

The purpose of this course is to prepare students to be a skilled journalist. The type of journalism covered will be newspaper and magazine writing, business writing, website-style writing and freelance writing. Students will learn to analyze published material.

**Grade Type:** Letter Grade

## **JRN 380 - Video Newsgathering**

**Units: 3**

**When Offered:** Spring (even years)

This course provides students opportunities to participate in the production of television news stories and newscasts, using professional principles, aesthetics, ethics, and practices of journalistic video reporting, producing in-field and project assignments.

**Grade Type:** Letter Grade

**Prerequisite(s):** JRN 216

## **JRN 399 - Independent Study**

**Units: 3**

**When Offered:** As offered

An opportunity for students who have demonstrated the ability to do independent work to pursue in depth a topic of particular interest.

**Grade Type:** Letter Grade

## **JRN 400 - Special Topics in Journalism**

**Units: 3**

**When Offered:** As offered

Concentration upon a specific topic in the field of journalism. Topic varies for different semesters.

**Repeatable:** May be repeated for credit with change in topic

**Grade Type:** Letter Grade

## **JRN 410 - Editing for Photojournalism**

**Units: 3**

**When Offered:** Fall (odd years)

A deeper understanding of the relationship of words and images will be explored, as well as ethical persuasion and strategic communication within the context of today's media landscape. Students will gain a deeper understanding of the issues and challenges involved in assembling optimum media strategies, and the selection of appropriate media. Serving the public through engaging, carefully selected visual strategies will be studied. Weekly visual, as well as written assignments will strengthen the classroom experience.

**Grade Type:** Letter Grade

**Prerequisite(s):** JRN 210

## **JRN 412 - Advanced Magazine and Yearbook Production**

**Units: 1-3**

**When Offered:** Fall, Spring

The purpose of this course is to prepare students to be proficient in writing, yearbook design, and publication. This experience will be invaluable to media-related professions as well as business, education, and management positions.

**Repeatable:** May be repeated for a maximum of eight (8) units with change in topic

**Grade Type:** Letter Grade

## **JRN 414 - Visual Documentary Reporting**

**Units: 3**

**When Offered:** Fall (odd years)

A single, primary, in-depth project, involving a social issue with the intent to educate, inform, and implement change, will be at the heart of the class. Weekly visual and written goals will provide consistent retooling along the way. The collection of images and other related content in the field, as well as research, message construction, writing and editing, will play vital roles. Real world investigation will be vital in this advanced journalistic endeavor. Students will show and discuss their work weekly, have progress and respond to questions and fine tune the direction of their projects together. The style, length, direction, point of view, and primary message will grow out of decisions made in these small groups. Depending on the decisions of the small groups, the project may become a collaborative effort. The final project will be both visual and written.

**Grade Type:** Letter Grade

**Prerequisite(s):** JRN 210

## **JRN 415 - Advanced News Production for Broadcast and Print Journalism**

**Units: 1-3**

**When Offered:** Fall, Spring

The purpose of this course is to prepare students to be future journalists by creating a high quality publication, The Banner. Students will learn to work within the guidelines of the university, the publisher of the newspaper. Students will learn to perform all tasks involved with the production of a bi-weekly publication, which includes meeting deadlines and completing assigned tasks. Students will maintain a positive and cooperative attitude toward student editors, advisor, and California Baptist University administration. A Christian team spirit and goal of excellence will be emulated and protected by all students in the class.

**Repeatable:** May be repeated for a maximum of eight (8) units

**Grade Type:** Letter Grade

## **JRN 420 - Public Relations Writing, Campaigns, and Strategies**

**Units: 3**

**When Offered:** Online

This course will prepare students with skills and an understanding of writing, campaigns and research to meet public relations goals for a variety of audiences through various forms of media.

**Grade Type:** Letter Grade

## **JRN 430 - Multimedia Reporting, Editing, and Producing**

**Units: 3**

**When Offered:** Fall

This course prepares the student to work as a journalist in today's newsrooms, where the online and digital platforms are at least as important as the traditional print or broadcast platforms. The emphasis is on gathering assets in the field (text, photographs, video, audio) and then using those assets to tell a comprehensive story.

**Grade Type:** Letter Grade

## **JRN 440 - Writing Columns and Blogs**

**Units: 3**

**When Offered:** Spring (even years)

Principles and practices of writing in the shorter forms of journalism, including editorials and opinion essays for print, electronic and online media outlets. Includes writing columns, blogs, opinion-page articles, and reviews of theater, music, books, and film.

**Grade Type:** Letter Grade

**Prerequisite(s):** JRN 170

## **JRN 450 - Internship in Journalism**

**Units: 1-3**

**When Offered:** Fall, Spring

Under faculty supervision, students will be assigned to a position, utilizing principles of journalism acquired and employed throughout their university experience. This internship provides an opportunity for investigating and participating in field experience with a practitioner of the trade, giving depth and breadth to their understanding of journalism as a whole.

**Grade Type:** Letter Grade

**Prerequisite(s):** Permission of the Department Chair

## **JRN 451 - Internship in Journalism**

**Units: 1-3**

**When Offered:** Fall, Spring

Under faculty supervision, students will be assigned to a position, utilizing principles of journalism acquired and employed throughout their university experience. This internship provides an opportunity for investigating and participating in field experience with a practitioner of the trade, giving depth and breadth to their understanding of journalism as a whole.

**Repeatable:** May be repeated for a maximum of three (3) units

**Grade Type:** Letter Grade

**Prerequisite(s):** JRN 450 and permission of the Department Chair

## **JRN 460 - Investigative Reporting**

**Units: 3**

**When Offered:** Fall (even years)

The tradition of investigative reporters, who uncover facts and write articles that expose waste, wrongdoing, mismanagement, fraud, conflict of interest and abuse of authority, and promote change and reform, has a long and proud history that stands alongside more conventional journalistic practices. Students are provided with reportorial skills and techniques required by journalists who develop articles of substance and depth in specialized areas, with emphasis given to research, analysis, and interpretation of complex issues in writing for publication.

**Grade Type:** Letter Grade

**Prerequisite(s):** JRN 170

## **JRN 470 - Reporting and Producing for Broadcast Media**

**Units: 3**

**When Offered:** Spring (odd years)

This course is designed to improve and expand the news gathering and writing skills of the media student, further developing understanding of broadcast news writing, news judgment and construction of broadcast news stories, as well as social responsibility and an ethical framework for broadcast journalists.

**Grade Type:** Letter Grade

## **JRN 475 - Editorial Portfolio Production**

**Units: 3**

**When Offered:** Spring

This course equips students to create Ala portfolio for professional use in the editorial world. Students will build out, edit, and sequence a selection of their work that represents the diversity of storytelling photography integral to journalism, including live-event coverage, environmental portraits, and a cohesive photo essay.

**Grade Type:** Letter Grade

## **Kinesiology**

See Intercollegiate Athletics for varsity sports.

## **KIN 101 - Orientation to the Discipline**

**Units: 3**

**When Offered:** Fall, Spring

This course is designed to introduce students to the basic skills necessary for academic success in the discipline of Kinesiology and to provide students with an overview of professions in which that major may be applied.

**Grade Type:** Letter Grade

**Prerequisite(s):** Declared major in Kinesiology, Exercise Science, or Sport Management or permission of the Dean

## **KIN 106 - Volleyball**

**Units: 1**

**When Offered:** Fall, Spring

Instruction in the basic rules, skills and equipment related to lifelong participation in volleyball.

**Grade Type:** Letter Grade

## **KIN 107 - Cross Training**

**Units: 1**

**When Offered:** Fall, Spring

Instruction in multiple and varied activities intended to improve the five components of personal health related fitness.

**Grade Type:** Letter Grade

## **KIN 108 - Swimming**

**Units: 1**

**When Offered:** Fall, Spring

A general swimming course designed to teach basic water safety and beginning to intermediate level swimming strokes.

**Grade Type:** Letter Grade

## **KIN 109 - Lifesaving**

**Units: 1**

**When Offered:** Fall, Spring

A lifesaving course designed to meet American Red Cross life guarding certification requirements.

**Grade Type:** Letter Grade

## **KIN 110 - Physical Activity**

**Units: 1**

**When Offered:** Fall, Spring

Physical activity courses include a combination of cognitive and psychomotor, and affective skills designed to enhance the student's ability to participate in a lifelong fitness activity.

**Grade Type:** Letter Grade

## **KIN 112 - Tennis**

**Units: 1**

**When Offered:** Fall, Spring

Instruction in the basic rules, skills, and equipment related to lifelong participation in tennis.

**Repeatable:** credit

**Grade Type:** Letter Grade

## **KIN 113 - Golf**

**Units: 1**

**When Offered:** As offered

Instruction in the basic rules, skills, equipment, and etiquette related to lifelong participation in golf.

**Grade Type:** Letter Grade

## **KIN 114 - Walking and Running for Fitness**

**Units: 1**

**When Offered:** Fall, Spring

Instruction in exercise program development related to improvement cardio respiratory fitness.

**Grade Type:** Letter Grade

## **KIN 115 - Weight Training**

**Units: 1**

**When Offered:** Fall, Spring

Instruction in introductory strength training principles and techniques, as well as fitness-related nutritional topics.

**Grade Type:** Letter Grade

## **KIN 116 - Bowling**

**Units: 1**

**When Offered:** Fall, Spring

Instruction and practice in the basic skills related to lifelong participation in bowling.

**Grade Type:** Letter Grade

## **KIN 117 - Self Defense I**

**Units: 1**

**When Offered:** Fall, Spring

Instruction in the basic skills of unarmed self-defense. This includes the use of blocking, shifting, punching, striking, and kicking. Subsequent enrollment in KIN 118 will provide an opportunity for added skill development.

**Grade Type:** Letter Grade

## **KIN 121 - Outdoor Adventure**

**Units: 1**

**When Offered:** Fall, Spring

Instruction in the design, implementation, and leadership of adventure activities and programs. A field trip is required.

**Grade Type:** Letter Grade

## **KIN 122 - Aerobics**

**Units: 1**

**When Offered:** As offered

This course is designed to teach students the proper technique for step aerobics as well as introduce them to various forms of lifetime aerobic activity.

**Grade Type:** Letter Grade

## **KIN 123 - Soccer**

**Units: 1**

**When Offered:** Fall, Spring

Instruction in the basic rules, skills, and equipment related to lifelong participation in Soccer. This course is not repeatable for credit.

**Grade Type:** Letter Grade

## **KIN 124 - Basketball**

**Units: 1**

**When Offered:** Fall, Spring

Instruction in the basic rules, skills, and equipment related to lifelong participation in basketball. This course is not

repeatable for credit.

**Grade Type:** Letter Grade

## **KIN 125 - Aquatic Fitness**

**Units:** 1

**When Offered:** Fall, Spring

Instruction in multiple and varied activities intended to improve the five components of personal health related fitness through aquatics.

**Grade Type:** Letter Grade

## **KIN 126 - Health Related Fitness**

**Units:** 1

**When Offered:** Fall, Spring

Instruction in multiple and varied activities intended to improve aerobic & anaerobic cardiovascular fitness through the five components of personal health related fitness.

**Grade Type:** Letter Grade

## **KIN 200 - Special Topics in Kinesiology**

**Units:** 3

**When Offered:** As offered

Concentration upon a specific topic in the field of Kinesiology. Topic varies for different semesters.

**Repeatable:** May be repeated for credit with change in topic

**Grade Type:** Letter Grade

## **KIN 201M - Men's Varsity Basketball**

**Units:** 1

**When Offered:** As offered

**Grade Type:** Pass/Fail

## **KIN 201W - Women's Varsity Basketball**

**Units:** 1

**When Offered:** As offered

**Grade Type:** Pass/Fail

## **KIN 202M - Men's Varsity Baseball**

**Units:** 1

**When Offered:** As offered

**Grade Type:** Pass/Fail

## **KIN 203M - Men's Varsity Swimming**

**Units:** 1

**When Offered:** As offered

**Grade Type:** Pass/Fail



### **KIN 203W - Women's Varsity Swimming**

**Units: 1**

**When Offered:** As offered

**Grade Type:** Pass/Fail

### **KIN 204M - Men's Varsity Waterpolo**

**Units: 1**

**When Offered:** As offered

**Grade Type:** Pass/Fail

### **KIN 204W - Women's Varsity Waterpolo**

**Units: 1**

**When Offered:** As offered

**Grade Type:** Pass/Fail

### **KIN 205M - Men's Varsity Wrestling**

**Units: 1**

**When Offered:** As offered

**Grade Type:** Pass/Fail

### **KIN 206M - Men's Varsity Soccer**

**Units: 1**

**When Offered:** As offered

**Grade Type:** Pass/Fail

### **KIN 206W - Women's Varsity Soccer**

**Units: 1**

**When Offered:** As offered

**Grade Type:** Pass/Fail

### **KIN 207W - Women's Varsity Softball**

**Units: 1**

**When Offered:** As offered

**Grade Type:** Pass/Fail

### **KIN 208W - Women's Varsity Volleyball**

**Units: 1**

**When Offered:** As offered

**Grade Type:** Pass/Fail

### **KIN 209W - Women's Varsity Cheerleading**

**Units: 1**

**When Offered:** As offered

**Grade Type:** Pass/Fail

## **KIN 210 - Applied Physical Activity**

**Units: 2**

**When Offered:** As offered

A combination of theoretical classroom and practical instruction designed to teach students how to coach or instruct various sport activities. Subject areas may include baseball, basketball, football, soccer, tennis, and more.

**Grade Type:** Letter Grade

## **KIN 212 - First Aid and Safety**

**Units: 1**

**When Offered:** Fall, Spring, & Online

Theory and practice for prevention and care of accident or sudden illness. The course meets the requirements for Red Cross, CPR, and First Aid Certificates. Students may only earn credit for either KIN 212 or KIN 312.

**Grade Type:** Letter Grade

**Fee:** Additional lab fee

## **KIN 212W - Women's Varsity Dance**

**Units: 1**

**When Offered:** As offered

**Grade Type:** Pass/Fail

## **KIN 213M - Men's Varsity Cross Country**

**Units: 1**

**When Offered:** As offered

**Grade Type:** Pass/Fail

## **KIN 213W - Women's Varsity Cross Country**

**Units: 1**

**When Offered:** As offered

**Grade Type:** Pass/Fail

## **KIN 215M - Men's Varsity Golf**

**Units: 1**

**When Offered:** As offered

**Grade Type:** Pass/Fail

## **KIN 215W - Women's Varsity Golf**

**Units: 1**

**When Offered:** As offered

**Grade Type:** Pass/Fail

## **KIN 216W - Women's Varsity Stunt**

**Units: 1**

**When Offered:** As offered

**Grade Type:** Pass/Fail

**Prerequisite(s):** Students must obtain consent of the team coach to register for intercollegiate athletics.

## **KIN 253 - Functional Movement Anatomy**

**Units: 3**

**When Offered:** Online

A study of the creation and maintenance of human movement through the muscular, skeletal, and nervous system.

Emphasis is on gross motor movement specific to physical activity and sport, with attention to motor dysfunction.

**Grade Type:** Letter Grade

## **KIN 264 - Movement Anatomy**

**Units: 3**

**When Offered:** Fall, Spring, & Online

A study of the muscle and bone structure of the human body and how they work together to create movement.

Emphasis is on the function of specific muscles and bones in creating defined movement.

**Grade Type:** Letter Grade

**Prerequisite(s):** BIO 153

## **KIN 274 - Applied Movement Anatomy**

**Units: 3**

**When Offered:** Fall, Spring, & Online

Continued study of the muscle and bone structure of the human body. Heavy emphasis is placed on the biomechanical laws of movement.

**Grade Type:** Letter Grade

**Prerequisite(s):** KIN 264

## **KIN 298 - Extended Field Experience in Kinesiology**

**Units: 12**

**When Offered:** As offered

A full-time field experience course for students who will be engaged in a pre-approved educational or professional position away from campus enhancing the student's knowledge and skills within the broad field of Kinesiology.

**Grade Type:** Letter Grade

**Prerequisite(s):** Approval of the Department Chair

## **KIN 300 - Nutrition Science**

**Units: 3**

**When Offered:** Fall, Spring, & Online

Includes the study of principles of modern nutrition, the importance of a scientific knowledge of nutrition, specific food nutrients, nutritional controversies, and a study of convenience foods and their impact on present day diets.

**Grade Type:** Letter Grade

## **KIN 301 - Sport Coaching and Officiating**

**Units: 3**

**When Offered:** As offered

An introduction to the skills needed to successfully coach and officiate an individual or team sport at any of the various levels of competition (youth - college).

**Grade Type:** Letter Grade

## **KIN 302 - Contemporary Health Issues**

**Units: 3**

**When Offered:** Fall, Spring, & Online

Major areas include personal, family, and community health, including the effects of alcohol, dangerous drugs and narcotics, degenerative and infectious diseases, and tobacco on the human body. Exploration of community resources related to health issues is offered. Meets California Teacher Credential requirements.

**Grade Type:** Letter Grade

## **KIN 303 - Foundations of Kinesiology**

**Units: 3**

**When Offered:** Fall, Spring, & Online

A study of the historical, philosophical, and scientific foundations of Kinesiology. Emphasized is a critical view of the nature and spectrum of the discipline.

**Grade Type:** Letter Grade

## **KIN 304 - Introduction to Athletic Training**

**Units: 3**

**When Offered:** As offered

This course is designed to introduce the student to the vocabulary, theories, principles, and skills involved with the profession of athletic training. A special emphasis is placed on the Athletic Training profession including the various healthcare professions and responsibilities, administration, and legal concerns; risk management including nutritional concerns, protective equipment, and prophylactic taping, wrapping, and bracing; Acute Injury Management including emergency care and universal precautions; and basic Healthcare Administration. While the course content is directed to the preparation of students who would like to pursue future education in an entry-level graduate athletic training program, it is also pertinent to other therapeutic and sports medicine related sub-disciplines.

**Grade Type:** Letter Grade

## **KIN 305 - Applied Sport Management**

**Units: 3**

**When Offered:** Fall

A study of basic management principles and their application to the field of sport.

**Grade Type:** Letter Grade

## **KIN 310 - Fundamentals of Movement and Physical Activity**

**Units: 3**

**When Offered:** As offered

An introduction to physical activity theory, motor learning theory, and physical activity. Students will be introduced to nontraditional and traditional sport history, skills, rules, and progression of teaching skills to promote physical activity.

Emphasis is on demonstrating mastery in specific sport skills, instruction, and assessment. Course designed to meet California Teacher Credentialing subject matter requirements.

**Grade Type:** Letter Grade

## **KIN 312 - Emergencies in Sports Medicine**

**Units:** 3

**When Offered:** As offered

This course prepares the student to be a First Responder and ready to give emergency care required for catastrophic and/or life-threatening injuries and illnesses to physically active individuals. Completion of this course provides certification in professional rescuer CPR, Bloodborne pathogens, AED and First Aid. Students may only earn credit for either KIN 212 or 312.

**Grade Type:** Letter Grade

## **KIN 315 - Sport Governance**

**Units:** 3

**When Offered:** Spring

This course is an examination of sport organizations focused on both professional and amateur governance structures and processes. The study of policy in educational, non-profit, professional and international sport venues will also be addressed.

**Grade Type:** Letter Grade

## **KIN 332 - Lifelong Motor Development**

**Units:** 3

**When Offered:** Fall, Spring, & Online

A study of the physical growth and development of humans and how it interacts with and influences motor learning and performance.

**Grade Type:** Letter Grade

## **KIN 353 - Care and Prevention of Athletic Injuries**

**Units:** 3

**When Offered:** Fall, Spring, & Online

A course providing instruction and experience in the prevention and care of injuries incurred in athletics. Methods of taping, therapy, health habits, and protective equipment are considered.

**Grade Type:** Letter Grade

**Prerequisite(s):** KIN 253 or 264

## **KIN 363 - Movement Experiences for Children**

**Units:** 3

**When Offered:** Fall, Spring, & Online

A study of the physical needs of elementary school age children. Emphasis is on physical growth and development, basic movement skills, and the designing of movement programs for children.

**Grade Type:** Letter Grade

## **KIN 383 - Exercise Physiology**

**Units: 3**

**When Offered:** Fall, Spring, & Online

Physiological principles of exercise. Topics include the responses and adaptations of the neuromuscular system, bioenergetics, and the endocrine, cardiovascular and pulmonary systems to exercise.

**Grade Type:** Letter Grade

**Prerequisite(s):** BIO 153

## **KIN 390 - Sport Performance Techniques**

**Units: 3**

**When Offered:** As offered

An application of body mechanics, movement screening, and resistance training techniques to improve sport performance outcomes. The course uses a case study approach to challenge the student to apply content in a variety of sport, exercise and physical activity settings.

**Grade Type:** Letter Grade

**Prerequisite(s):** KIN 274

## **KIN 393 - Applied Exercise Physiology**

**Units: 3**

**When Offered:** Fall, Spring, & Online

A continuation of Exercise Physiology. Topics include applied exercise physiology, gender considerations, environmental exercise physiology, and ergogenic aids.

**Grade Type:** Letter Grade

**Prerequisite(s):** KIN 383

## **KIN 395 - Physical Activity for Early Development**

**Units: 3**

**When Offered:** Fall, Spring

This course provides an activity-based approach to acquiring the skills needed to implement a physical education curriculum for elementary school aged children. Emphasis is on the ability to apply appropriate fundamental movement forms for physical and social development according to cultural and historical norms. Students will demonstrate skill through multiple physical activity labs. This course is designed to meet California Teacher Credential requirements for single subject and multiple subjects learners.

**Grade Type:** Letter Grade

## **KIN 399 - Independent Study**

**Units: 3**

**When Offered:** As offered

An opportunity for students who have demonstrated the ability to do independent work to pursue in depth a topic of particular interest.

**Grade Type:** Letter Grade

## **KIN 400 - Special Topics in Kinesiology**

**Units: 3**

**When Offered:** As offered

Concentration upon a specific topic in the field of Kinesiology. Topic varies for different semesters.

**Repeatable:** May be repeated for credit with change in topic

**Grade Type:** Letter Grade

## **KIN 404 - Movement Experiences for Middle School Students**

**Units:** 3

**When Offered:** Fall & Online

An introduction to standards-based middle school physical education curriculum is provided. Emphasis is on designing a curriculum that emphasizes working cooperatively to achieve a common goal, meeting challenges, making decisions, and working as a team to solve problems. Course includes both classroom and physical activities.

**Grade Type:** Letter Grade

## **KIN 405 - Cooperative Movements in Physical Activity and Team Sport**

**Units:** 3

**When Offered:** Fall

This course provides an activity-based approach to acquiring the skills needed to instruct cooperative movements in physical activity and team sports. Emphasis is on the ability to apply appropriate movement forms for physical growth and development in middle-school aged children. This activity-based course focuses on the science of human movement, social development, cultural, and historical norms. Students will engage in collaborative learning, practical experience, and structured fieldwork hours. The course is designed to meet California Teacher Credentialing requirements, PETE recommendations, and California physical education content standards for Middle School Students.

**Grade Type:** Letter Grade

**Prerequisite(s):** KIN 310

## **KIN 414 - Methods of Teaching Sport Activities**

**Units:** 3

**When Offered:** Spring & Online

Introduction to subject matter content, teaching methods, and technique related to the design and implementation of a high school physical education curriculum. Course focuses on the California physical education content standards for High School Course 1 and Course 2.

**Grade Type:** Letter Grade

## **KIN 415 - Teaching Lifelong Physical Activity**

**Units:** 3

**When Offered:** Spring

This course provides an activity-based approach to acquiring lifelong physical activity knowledge and skills. Emphasis is on learning through teaching, using peers and the classroom to apply appropriate high school physical education subject matter content, teaching methodologies, and evaluation methods. This activity-based course focuses on collaborative learning, practical experience, and structured fieldwork hours. This course is designed to meet California Teacher Credentialing requirements, PETE recommendations, and California physical education content standards for High School Course 1 and Course 2.

**Grade Type:** Letter Grade

**Prerequisite(s):** KIN 310

## **KIN 423 - Organizations and Administration of Physical Education**

**Units: 3**

**When Offered:** Spring & Online

A study of possible administrative challenges in departments of physical education as well as departmental organization and facilities use.

**Grade Type:** Letter Grade

### **KIN 433 - Sports and Activities Practicum**

**Units: 3**

**When Offered:** Fall, Spring, Summer

Practical field experience in a professional Kinesiology setting. Students must arrange the field experience under the guidance and approval of the Kinesiology Department Chair.

**Grade Type:** Letter Grade

**Fee:** Clinical practicum fee

**Prerequisite(s):** KIN 101, permission of the Department Chair and Junior, Senior, or Graduate status

### **KIN 454 - Behavioral Aspects of Sport**

**Units: 3**

**When Offered:** Fall, Spring, & Online

A study of the sociological and psychological impact of physical activity on humans. The psychological factors of self-perception, motivation, cooperation, and competition will be examined and used as descriptors to illustrate the idea of sport as an institution of society.

**Grade Type:** Letter Grade

### **KIN 473 - Research Methods and Evaluation in Kinesiology**

**Units: 3**

**When Offered:** Fall, Spring, & Online

This course provides an introduction to research design that prepares the student to develop relevant questions and hypotheses in kinesiology, and to collect, analyze, and make application of empirical data through scientific writing.

**Grade Type:** Letter Grade

**Prerequisite(s):** KIN 383

### **KIN 480 - Fitness Assessments and Exercise Prescription**

**Units: 3**

**When Offered:** Fall, Spring, & Online

Study and practice of concepts and techniques for evaluating physical fitness. Topics include health and medical histories, liability concerns, blood pressure, graded exercise stress testing, ECG recording and basic interpretation, strength assessment, body composition analysis, pulmonary function tests, CHD risk-factor analysis and health risk appraisal.

**Grade Type:** Letter Grade

**Prerequisite(s):** KIN 383

### **KIN 490 - Principles of Conditioning Athletes**

**Units: 3**

**When Offered:** Fall, Spring, & Online

A study of the physiological and biomechanical basis of conditioning for different sports. Topics include bioenergetics, specificity of training, periodization, and organization and administration of the strength and conditioning facility.



**Grade Type:** Letter Grade

**Prerequisite(s):** KIN 274 and 383

## **KIN 495 - Functional Movement for Sport Performance**

**Units:** 3

**When Offered:** As offered

Course focusing on proper body mechanics for physical activity and fitness programming. A review of relevant anatomy and pathology by joint with emphasis on proper body mechanics and various movement screening techniques to discern and correct improper mechanics. Classroom and lab hybrid. Lab experiences focused on developing motion analysis and movement screening skills.

**Grade Type:** Letter Grade

**Prerequisite(s):** KIN 274 and 390

**Pre- or Co- Requisite(s):** KIN 490

## **Latin**

### **LAT 115 - Latin I**

**Units:** 3

**When Offered:** Fall

This course is the first half of an introduction to Latin based upon ancient authors. In this course the student is introduced to basic forms, structures, vocabulary, and etymologies of Latin and its relationship to English and other modern languages.

**Grade Type:** Letter Grade

### **LAT 125 - Latin II**

**Units:** 3

**When Offered:** Spring

This course is the second half of an introduction to Latin based upon ancient authors. In this course the student is introduced to more advanced forms, structures, vocabulary and etymologies of Latin and its relationship to English and other modern languages.

**Grade Type:** Letter Grade

**Prerequisite(s):** LAT 115

## **Leadership Studies**

### **LDR 305 - Leadership Seminar**

**Units:** 1

**When Offered:** Fall, Spring

Students will evaluate a range of topics related to the challenges of leading and developing essential skills to exercise leadership in their personal and professional pursuits.

**Repeatable:** May be repeated for credit with change in topic

**Grade Type:** Letter Grade

### **LDR 310 - Leadership Theory**

**Units: 3**

**When Offered:** As offered & Online

The purpose of this course is to equip students with skills necessary for successful leadership in public, private, and non-governmental organizations. Emphasis is on assessment of personal growth needs and enhancement of administrative skills including communication, decision-making, motivation, leadership styles, and team building. Experiential class work will be utilized in conjunction with classic and current organizational literature so that students can appreciate the bridge linking theory and practice. Students completing this course for credit may not also earn credit for BUS 435 - Leadership in Organizations.

**Grade Type:** Letter Grade

## **LDR 330 - Personal Leadership**

**Units: 3**

**When Offered:** Fall & Online

This course introduces the student to the concepts of personal leadership and helps identify the skills and strategies that the student may employ to effectively lead.

**Grade Type:** Letter Grade

## **LDR 350 - Communication Principles for Leadership**

**Units: 3**

**When Offered:** Fall (even years) & Online

This course provides an analysis of the principles of communication in the workplace. Students will learn basic communication theories, strategies, and processes as they relate to the modern organizational structure. We will be examining the nature and process of communication in modern organizations, including pragmatic implications of organizational communication theories as they relate to understanding organizations, and implementing change strategies. The course will also compare contemporary principles of leadership with the contemporary literature on communications.

**Grade Type:** Letter Grade

## **LDR 410 - Ethical and Biblical Principles for Leadership**

**Units: 3**

**When Offered:** Fall (odd years) & Online

This course evaluates the principles for practicing ethical judgments and behavior that confront those in leadership positions. Students will evaluate various ethical frameworks and survey the Bible to explore and develop principles and habits for Biblically-based leadership practices. The course will also compare Biblical principles of leadership with the contemporary literature on leadership and ethics.

**Grade Type:** Letter Grade

## **LDR 430 - Decision Making and Leadership**

**Units: 3**

**When Offered:** Spring (even years) & Online

This course explores various biases, common heuristics, and social dynamics that often lead to faulty decisions and evaluates strategies and tactics to safeguard the decision making process so as to enhance the probability of implementing good decisions. Students will also study the creative process and models for making wise decisions that optimize personal and collective outcomes.

**Grade Type:** Letter Grade

## **LDR 450 - Culture and Leadership**

**Units: 3****When Offered:** Spring (odd years) & Online

This course examines organizational culture and leadership. Students will define and describe the structure of culture, examine what leaders need to know about macro cultures, analyze culture and leadership through stages of growth, and assess culture and leading planned change.

**Grade Type:** Letter Grade**LDR 470 - Groups and Leadership****Units: 3****When Offered:** Fall (even years) & Online

Effective groups and teams are critical in modern organizations, yet there are often dysfunctional dynamics and processes within the group. This course will provide the student with fundamental concepts relating to group dynamics, group decision making, and interpersonal conflict. Special attention will be paid to diversity in this class. Students will gain a better understanding of dynamics of group interaction in professional and social settings. Understanding the dynamics of small group interaction and having an understanding of some of the techniques for solving conflict and improving communication toward future benefits. This course will provide the platform necessary for the student to engage in accurate communication of ideas which can influence other behavior.

**Grade Type:** Letter Grade**LDR 480 - Communication for Leadership****Units: 1****When Offered:** Fall

This course provides an analysis of the principles of communication in the workplace. Students will learn basic communication theories, strategies, and processes as they relate to the modern organizational structure.

**Grade Type:** Letter Grade**LDR 481 - Cross Boundary Communication****Units: 1****When Offered:** Spring

Students learn how to manage multidisciplinary team communications vertically and horizontally in the organizations to meet objectives. Help facilitate effective communication, improve listening skills, and develop a mastery for asking for, giving, and receiving feedback. These traits increase a team and departmental collaborative approaches.

**Grade Type:** Letter Grade**LDR 482 - Leading Change in the Workplace****Units: 1****When Offered:** Fall

Develop an understanding of the requirements, barriers, and successes relevant to leading effective organizational change. Students will analyze case studies and utilize change management simulations to enhance the learning process.

**Grade Type:** Letter Grade**LDR 483 - Leading People With Emotional Intelligence****Units: 1****When Offered:** Fall

The course focus on increasing ones emotional intelligence awareness to enable high performance in the workplace. Students will learn principles to increase the emotional intelligence (EQ) of self and others, build strong relationships

and a support active environment.

**Grade Type:** Letter Grade

## **LDR 484 - The Art of Stewardship Leadership**

**Units:** 1

**When Offered:** Spring

God calls us to be good stewards of the things he has given us. Stewardship leadership examines the relationship between self, others, and society. Students will gain insight into the various ways stewardship leadership practices are implemented and sustained. Students will engage in dialogue and analyze the relationship between succession planning and corporate sustainability.

**Grade Type:** Letter Grade

## **LDR 485 - Women and Leadership**

**Units:** 1

**When Offered:** Spring

Learn how to effectively handle common challenges that impede success for emerging female leaders. Develop insight and implement principles that help students expand their sphere of influence and skills to make a positive difference. Students develop strategies and tools for creating structural change and moving towards greater equity.

**Grade Type:** Letter Grade

## **LDR 491 - Internship**

**Units:** 3

**When Offered:** Fall, Spring, Summer

Under the supervision of a faculty member and representative from the sponsoring organization, students will utilize the internship to develop and demonstrate the principles and skills introduced in the Leadership Studies courses.

**Grade Type:** Pass/Fail

## **Liberal Arts**

### **LBA 101 - Introduction to the Liberal Arts**

**Units:** 1

**When Offered:** Fall

This course is designed to prepare students to successfully complete their foundational courses in the study of humanities, including literature, history, Christian Studies, philosophy, and art, as well as in math and science. It considers both philosophical and practical foundations within various liberal arts disciplines, including how quantitative reasoning, moral and aesthetic judgments, and a personal worldview shape interactions with the liberal arts. It also introduces students to basic skills, tools, and resources necessary for academic success in a liberal arts education.

**Grade Type:** Pass/Fail

### **LBA 499 - Capstone**

**Units:** 3

**When Offered:** Spring

The capstone in the liberal arts is designed to enable liberal arts majors, generally in their senior year, to reflect upon, pose, and respond to enduring questions about the human experience-critically, creatively, and contemplatively.

Students will design and develop a capstone portfolio and accompanying project that demonstrates a synthesis of their learning across the liberal arts disciplines.

**Grade Type:** Letter Grade

**Fee:** Additional fee

**Prerequisite(s):** Permission of the program director

**Pre- or Co- Requisite(s):** LBA 101

## **Liberal Studies**

### **LBS 498 - Capstone Portfolio**

**Units:** 1

**When Offered:** As offered & Online

Students will review their personal and professional development based upon their baccalaureate experiences at California Baptist University. Students will evaluate their growth and development through the program, identify their relative strengths and areas for growth, and develop a personal development plan. Students will demonstrate critical self-reflection and the ability to make judicious, relevant and insightful applications and professional judgment from their cumulative undergraduate experience.

**Grade Type:** Pass/Fail

**Fee:** Additional course fee

## **Magnetic Resonance Imaging**

### **MRI 425 - Principles of MRI**

**Units:** 3

**When Offered:** Summer

This course will provide a broad understanding of physics, patient care, and imaging techniques used in magnetic resonance imaging (MRI). Principles related to data acquisition and image formation are presented along with post processing, display, and archival techniques.

**Grade Type:** Letter Grade

**Pre- or Co- Requisite(s):** RAD 490 and 499

### **MRI 475 - MRI Clinical Practice**

**Units:** 4

**When Offered:** Summer

This course provides the clinical education necessary to become proficient in the skills required of an MRI technologist. Each student is required to complete a total of 375 clinical hours and the clinical experience requirements as outlined by the American Registry of Radiologic Technologists (ARRT).

**Grade Type:** Letter Grade

**Pre- or Co- Requisite(s):** MRI 425, RAD 490, and 499

## **Marketing**

### **MKT 313 - Retailing and Merchandising**

**Units:** 3

**When Offered:** Fall (even years) & Online

To familiarize students with the decisions involved in running a retail firm and the concepts and principles for making

those decisions. Topics of discussion will include retail business planning, site selection, retail promotion strategies, HR management, customer relationship management, supply chain management, customer buying behavior, merchandising, space planning and layout, and store management. While the course focuses on the retail industry including retailers of consumer services, the content of the course is also useful for students interested in working for companies that interface with retailers such as manufacturers of consumer products or for students with a general business interest.

**Grade Type:** Letter Grade

**Prerequisite(s):** MKT 333

## **MKT 323 - Marketing Research**

**Units:** 3

**When Offered:** Spring & Online

The emphasis of the course is on improving the skills of conducting marketing research. This course is designed to teach students the fundamentals of the research process including: recognizing the need for marketing research, planning for marketing research, obtaining and collecting the data, analyzing the data, and presenting the research results. This course concerns the use of marketing research as an aid to making marketing decisions. Accordingly, this course is appropriate for both prospective users of research results and prospective marketing researchers. Primary and secondary research will be performed, qualitative and quantitative methods will be utilized as well.

**Grade Type:** Letter Grade

**Prerequisite(s):** BUS 315 and MKT 333

## **MKT 333 - Principles of Marketing**

**Units:** 3

**When Offered:** Fall, Spring, & Online

A study of the marketing functions, channels of distribution, selling, advertising, distribution, and marketing management for both retail and industrial businesses.

**Grade Type:** Letter Grade

## **MKT 353 - Integrated Marketing Communications**

**Units:** 3

**When Offered:** Fall & Online

This course examines the best practices companies use to perform integrated marketing communications (IMC). IMC includes advertising, sales promotion, direct marketing, personal selling, public relations, customer segmentation and selection, branding, and building customer relationships. Integration of these functions is essential to the success of the marketing strategy of the organization.

**Grade Type:** Letter Grade

**Prerequisite(s):** MKT 333

## **MKT 360 - Digital Marketing Essentials**

**Units:** 3

**When Offered:** Fall

This course teaches the core principles of digital marketing and the digital marketing process. Students will learn to utilize digital strategies, social tools and tactics to gain insights into the audience, competitors and industry on a variety of social media platforms. Industry examples will be analyzed and utilized in class. At the end of the course, students will have gained practical experience in creating, launching, and maintaining digital marketing campaigns. Class project and assignments will build students' applied portfolios.

**Grade Type:** Letter Grade

**Prerequisite(s):** MKT 333

## **MKT 362 - Digital Marketing Analytics**

**Units: 3**

**When Offered:** Fall

This course will enable students to learn and use various analytics tools to best leverage digital marketing and social media data. This course will introduce and utilize analytics tools for better consumer engagement, modeling, network analysis, sentiment analysis and identification of key influencers in the social media sphere. This is a practical course with hands on exercises that prepare for professional analytics certifications.

**Grade Type:** Letter Grade

**Pre- or Co- Requisite(s):** BUS 380 and MKT 333

## **MKT 363 - Social Media and Content Marketing**

**Units: 3**

**When Offered:** Spring

Students will learn how to use social media and content marketing to communicate an organization's message and engage with customers. Additionally, students will learn how to manage an organization's social media presence.

**Grade Type:** Letter Grade

**Prerequisite(s):** MKT 333

## **MKT 373 - Digital Marketing Strategy**

**Units: 3**

**When Offered:** Fall

This course teaches the core components of an effective digital marketing strategy. Students will learn how to use the Buyer's Journey model to influence purchase decisions over digital platforms using digital content and tools. This course also explains how to choose the right content for your customers - and how to develop a creative strategy to deliver on key business goals. The class project is applied and adds to students' portfolios.

**Grade Type:** Letter Grade

**Prerequisite(s):** MKT 333 and 360

## **MKT 443 - Personal Selling and Sales Management**

**Units: 3**

**When Offered:** Spring (odd years)

An introduction to the profession of personal selling and sales management. The choice of sales and sales management as a career will be discussed. Topics of interest include: Strategically planning each sales call within a larger account strategy, making the sales call, strengthening communications, responding helpfully to objections, obtaining commitment, and building partnerships. Sales force planning, organizing, management, territory development, selection, compensation, sales force effectiveness, and performance will also be analyzed and discussed.

**Grade Type:** Letter Grade

**Prerequisite(s):** MKT 333

## **MKT 444 - International Marketing**

**Units: 3**

**When Offered:** Fall

This course focuses on the theoretical and practical aspects of the cultural environment of global markets, assessing global market opportunities and developing and implementing international marketing strategies.

**Grade Type:** Letter Grade

**Prerequisite(s):** MKT 333

## **MKT 458 - Consumer Behavior**

**Units:** 3

**When Offered:** Fall & Online

A focus on the individual buyer's role in the marketing system; retail operation and how the needs and wants of the buyers are met in a market-oriented system; importance of product image, brand package influence, and store image in influencing consumer purchases.

**Grade Type:** Letter Grade

**Prerequisite(s):** MKT 333

## **MKT 463 - Marketing Capstone**

**Units:** 3

**When Offered:** Spring & Online

This capstone course will utilize student knowledge and skills learned in the marketing program. Students will demonstrate the skills they learned in the program to develop and implement a comprehensive marketing strategy, marketing plan with a comprehensive social medial plan, develop all marketing elements needed, and build an implementation plan. These plans will be presented to university and business professionals.

**Grade Type:** Letter Grade

**Prerequisite(s):** MKT 333 and Senior status

## **MKT 491 - Marketing Internship**

**Units:** 1-3

**When Offered:** Fall, Spring, Summer

Under faculty supervision, the student will work with an outside organization in the field of marketing.

**Grade Type:** Letter Grade

**Prerequisite(s):** MKT 333 and permission of the Dean

## **Mathematics**

### **MAT 095 - Elementary Algebra**

**Units:** 3

**When Offered:** Fall, Spring, & Online

This course is designed to prepare a student who is not ready for college algebra. There is no prerequisite. This course will include instruction in the following areas: The real number system, linear equations and inequalities, linear graphs, exponents and polynomials, and rational expressions. Math placement will be determined by SAT or ACT or math placement test scores.

**Grade Type:** Pass/Fail

### **MAT 101 - Orientation to the Discipline**

**Units:** 1

**When Offered:** Spring

This course is designed to introduce students to the basic skills necessary for academic success in the discipline of



Mathematics and to provide students with an overview of professions in which that major may be applied.

**Grade Type:** Pass/Fail

## **MAT 115 - Intermediate Algebra**

**Units:** 3

**When Offered:** Fall, Spring, & Online

This course satisfies the math competency for the general education requirements. It will include instruction in the following areas: roots and radicals, quadratic equations and inequalities, graphing relations and functions, systems of equations and inequalities, and matrices and determinants.

**Grade Type:** Letter Grade

**Prerequisite(s):** MAT 095 or sufficient SAT, ACT or math placement exam scores

## **MAT 123 - Survey of Mathematics**

**Units:** 3

**When Offered:** Fall, Spring, & Online

This is a survey course covering the topics of critical thinking skills, inductive reasoning, problem solving, sets, logic, number theory, algebra, graphs and functions, systems of linear equations and inequalities, euclidean and non-euclidean geometry, groups, finance, probability, and statistics. The course is designed to expand into a variety of areas which students in the arts may find more applicable.

**Grade Type:** Letter Grade

**Prerequisite(s):** MAT 095 or sufficient SAT, ACT or math placement exam scores

## **MAT 125 - Mathematical Concepts and Applications I**

**Units:** 3

**When Offered:** Fall

This course will include instruction in the following areas: critical thinking, sets, systems of numeration, number theory, the real number system, algebra, graphs, and functions. Students will analyze complex problems, apply logical reasoning techniques learned from the above-mentioned areas, evaluate the truth of mathematical statements, and apply different solution strategies. This course will partially fulfill the requirements for a Liberal Studies waiver.

**Grade Type:** Letter Grade

**Prerequisite(s):** MAT 115 or sufficient SAT, ACT or math placement exam scores and appropriate high school mathematics background

## **MAT 127 - Mathematical Concepts and Applications II**

**Units:** 3

**When Offered:** Spring

This course will include instruction in the following areas: critical thinking, two and three dimensional geometry, representational systems, methods for determining measurement, statistics, data analysis, and probability. Students will analyze complex problems, apply logical reasoning techniques learned from the above-mentioned areas, evaluate the truth of mathematical statements, and apply different solution strategies.

**Grade Type:** Letter Grade

**Prerequisite(s):** MAT 125

## **MAT 135 - Pre-Calculus**

**Units:** 3

**When Offered:** Fall, Spring

This course is designed to prepare a student for Calculus I. It will include instruction in the following areas: review of systems of equations and inequalities, functions and their graphs, sequences, induction, counting, probability, trigonometry, analytical geometry, and pre-calculus material.

**Grade Type:** Letter Grade

**Prerequisite(s):** MAT 115 or sufficient SAT, ACT or math placement exam scores and appropriate high school mathematics background

## **MAT 145 - Mathematical Methods in the Natural Sciences**

**Units:** 4

**When Offered:** Spring

A calculus-based course including an introduction to derivatives and integrals, dimensional analysis, analytical geometry, trigonometry, vectors, experimental error and other topics to provide a mathematical foundation for natural science majors.

**Grade Type:** Letter Grade

**Prerequisite(s):** MAT 115, 135, or sufficient SAT, ACT or math placement exam scores and appropriate high school mathematics background

## **MAT 154 - Statistics for Nursing and Healthcare**

**Units:** 3

**When Offered:** As offered

An introduction to statistics for Nursing majors that includes an introduction to epidemiology and clinical trials in addition to a study of principles of statistical decision theory, descriptive measurements, probability concepts, random variables, normal distribution, inferential statistics, sampling distributions, confidence intervals, hypothesis testing, chi-squared procedures, linear regression, and the use of computers in statistics.

**Grade Type:** Letter Grade

**Prerequisite(s):** MAT 115 or RN-level nursing license.

## **MAT 200 - Special Topics in Mathematics**

**Units:** 1-3

**When Offered:** As offered

Various appropriate topics of different concentrations are offered each time. Student involvement in selection of topics is strongly encouraged.

**Repeatable:** May be repeated for credit with change in topic

**Grade Type:** Letter Grade

## **MAT 245 - Analytical Geometry and Calculus I**

**Units:** 4

**When Offered:** Fall, Spring

Basic concepts of analytical geometry, limits and derivatives, differentials and rates, integration, definite and indefinite integrals, differentiation of logarithmic and exponential functions.

**Grade Type:** Letter Grade

**Prerequisite(s):** MAT 135, 145, EGR 182, or sufficient SAT, ACT or math placement exam scores and appropriate high school mathematics background

## **MAT 250 - Modeling and Applications of Calculus**

**Units: 2****When Offered:** Spring

The study of symbolic languages, such as Mathematica, Maple, and MATLAB, for the use and application in Calculus and modeling courses.

**Grade Type:** Letter Grade**Prerequisite(s):** MAT 245**MAT 255 - Analytical Geometry and Calculus II****Units: 4****When Offered:** Fall, Spring

Continued study and applications of integration: volumes, lengths, surface of revolution; derivatives and integrals involving trigonometric functions, infinite series, expansion of functions, hyperbolic functions, law of the mean, partial fractions, polar coordinates, and conic sections.

**Grade Type:** Letter Grade**Prerequisite(s):** MAT 245**MAT 303 - Linear Algebra with Applications to Differential Equations****Units: 3****When Offered:** Fall (even years)

This course is designed to teach students some of the basic computational skills of Linear Algebra in the context of Differential Equations. Students will learn to use the basic operations of matrices, study systems of linear equations and find the determinant, eigenvalues and eigenvectors of a matrix. The student will apply these tools in the qualitative study of solutions to systems of Differential Equations.

**Grade Type:** Letter Grade**Prerequisite(s):** MAT 255**MAT 310 - Differential Equations****Units: 3****When Offered:** Fall

Methods of solution of ordinary differential equations with some applications to geometry and physics.

**Grade Type:** Letter Grade**Prerequisite(s):** MAT 255**MAT 313 - Mathematical Proof and Structures****Units: 3****When Offered:** Fall, Spring

A study of various methods of proofs and mathematical structures covering logic, universal and existential quantifiers, sets, functions, and selected topics in discrete mathematics, linear algebra, abstract algebra, and real analysis. This is a bridge course to abstract mathematics and should be taken prior to or concurrently with courses in linear or abstract algebra, and real or complex analysis.

**Grade Type:** Letter Grade**Prerequisite(s):** MAT 245**MAT 333 - Complex Variables****Units: 3****When Offered:** Spring

Structure of complex numbers and their functions, analytic, harmonic, and elementary functions, residue theory, and conformal mapping.

**Grade Type:** Letter Grade

**Prerequisite(s):** MAT 313

## **MAT 342 - Fundamentals of Multivariable Calculus and Differential Equations**

**Units:** 3

**When Offered:** Spring

Students will learn basic concepts of multivariable calculus and ordinary differential equations. Vectors, multi-variable functions, line integrals and analytic methods for solving some first-order and second-order ordinary differential equations (including Laplace Transforms) will be discussed. Fourier Transforms and Separation of Variables will be briefly introduced as a method for solving some partial differential equations. Some problems discussed in class will have applications in engineering, physics, biology, and chemistry.

**Grade Type:** Letter Grade

**Prerequisite(s):** MAT 255

## **MAT 343 - Multivariable Calculus**

**Units:** 4

**When Offered:** Fall, Spring

Study and applications of vector analysis, partial differentiation, multiple integration, Jacobians, theorems of Green and Stokes, and divergence theorem.

**Grade Type:** Letter Grade

**Prerequisite(s):** MAT 255

## **MAT 353 - Probability and Statistics**

**Units:** 3

**When Offered:** Fall

A calculus based course covering discrete and continuous distributions, expectations, the normal distribution, the central limit theorem, the binomial distribution, and various topics in statistical theory such as point estimation, hypothesis testing, and linear regression.

**Grade Type:** Letter Grade

**Prerequisite(s):** MAT 245

## **MAT 363 - History of Mathematics and Theory of Numbers**

**Units:** 3

**When Offered:** Fall (odd years)

A study of the History of Mathematics from ancient to modern times: Elementary topics in number theory, linear congruencies, Fermat and Wilson theorems, quadratic reciprocity laws.

**Grade Type:** Letter Grade

**Pre- or Co- Requisite(s):** MAT 313

## **MAT 399 - Independent Study**

**Units:** 1-3

**When Offered:** As offered

This course of study is offered to afford the superior student an opportunity to explore independently subject matter not

already offered in the catalog.

**Grade Type:** Letter Grade

## **MAT 400 - Special Topics in Mathematics**

**Units:** 1-3

**When Offered:** As offered

Various appropriate topics of different concentrations are offered each time. Student involvement in selection of topics is strongly encouraged.

**Repeatable:** May be repeated for credit with change in topic

**Grade Type:** Letter Grade

## **MAT 403 - Linear Algebra**

**Units:** 3

**When Offered:** Spring

Vector spaces; matrices, rank and systems of linear equations; linear transformation; similarity and diagonalization theorems; eigenvectors and eigenvalues.

**Grade Type:** Letter Grade

**Prerequisite(s):** MAT 313, or 245 and EGR 225

## **MAT 423 - Introduction to Topology**

**Units:** 3

**When Offered:** Spring (even years)

An introduction to general and algebraic topology, concentrating on point-set topology. Topics to be covered include topological spaces, metric spaces, continuous functions, connectedness, and compactness.

**Grade Type:** Letter Grade

**Prerequisite(s):** MAT 313

## **MAT 425 - Applications of Topology**

**Units:** 3

**When Offered:** Spring (odd years)

This course will be a survey of applications of various topics of point-set topology. Applications to areas of science, technology, and industry will be introduced, which may include chemistry, biochemistry, genetics, cryptography, robotics, and GIS.

**Grade Type:** Letter Grade

**Prerequisite(s):** MAT 313

## **MAT 443 - Introduction to Real Analysis**

**Units:** 3

**When Offered:** Spring

An introduction to real analysis and topology covering the completeness of the real numbers, sequences, limits, continuity, uniform continuity, Riemann integrability, topology of the real numbers, topological spaces, connectedness, compactness, and metric spaces.

**Grade Type:** Letter Grade

**Prerequisite(s):** MAT 313

## **MAT 453 - Numerical Analysis**

**Units: 3**

**When Offered:** Fall (odd years)

Solutions of Equations of One Variable, Interpolations and Polynomial Approximation, Numerical Integration and Differentiation, Direct Methods for Solving Linear Systems and Approximation Theory.

**Grade Type:** Letter Grade

**Prerequisite(s):** MAT 255

## **MAT 463 - Fundamental Concepts of Geometry**

**Units: 3**

**When Offered:** Spring (even years)

An advanced study of concepts of Euclidean geometry and an introduction to non-Euclidean geometry. Theorems and proofs are emphasized.

**Grade Type:** Letter Grade

**Prerequisite(s):** MAT 313

## **MAT 473 - Abstract Algebra I**

**Units: 3**

**When Offered:** Fall

An introduction to the structure of algebraic systems such as groups, subgroups, cosets, homomorphisms, factor groups, rings, and fields.

**Grade Type:** Letter Grade

**Prerequisite(s):** MAT 313

## **MAT 480 - Senior Seminar**

**Units: 1**

**When Offered:** Fall

This seminar serves as a survey course that covers concepts and theory of calculus, linear algebra, abstract algebra, number theory, analysis, and topology. Conceptual problems will be discussed and assigned to improve problem-solving skills.

**Grade Type:** Letter Grade

**Prerequisite(s):** MAT 313 and Senior status

## **MAT 483 - Abstract Algebra II**

**Units: 3**

**When Offered:** Spring (odd years)

This course is a continuation of Abstract Algebra I and will include ideals and factor rings, extension fields, Isomorphism and Sylow Theorems, free groups, factorization, automorphisms, Galois Theory, and an introduction to Homology theory.

**Grade Type:** Letter Grade

**Prerequisite(s):** MAT 473

## **MAT 490 - Research in Mathematics**

**Units: 1-4**

**When Offered:** Fall, Spring

The focus of this class is an independent research project that the student undertakes under the direction of a faculty member who acts as a research advisor. Content varies from year to year and is determined by both instructor's and

students' interests.

**Repeatable:** May be repeated for a maximum of eight (8) units

**Grade Type:** Letter Grade

**Prerequisite(s):** MAT 313 and permission of the Department Chair

## **MAT 499 - Capstone**

**Units: 4**

**When Offered:** Fall, Spring

The course is designed to be a culminating experience for senior students who are preparing to teach mathematics at the junior/senior high school level. The course provides students an opportunity to reflect on the critical assignments that have been completed throughout their coursework and relate these lessons to the career of teaching.

**Grade Type:** Letter Grade

**Prerequisite(s):** Permission of the Department Chair

## **Military Science and Leadership**

### **MSL 100 - Leadership Laboratory**

**Units: 1**

**When Offered:** Fall, Spring

Practicum in those skills taught in the classroom during other military science classes in the semester. To include Platoon Level Operations, such as patrolling, situational training exercise, map reading, land navigation, rappelling and weapons qualification. Some training is conducted on weekends. This course is only open to enrolled Army ROTC cadets. The course must be taken each semester the student is enrolled in the Military Science program.

**Grade Type:** Letter Grade

### **MSL 101 - Introduction to the Army and Critical Thinking**

**Units: 1**

**When Offered:** Fall

This course introduces students to the personal challenges and competencies that are critical for effective leadership and communication. Students will learn how the personal development of life skills such as cultural understanding, goal setting, time management, stress management, and comprehensive fitness relate to leadership, officership, and the Army profession. During the course students will learn the structure of the ROTC Basic Course program, Fall and Spring Leadership Labs, and Cadet Initial Entry Training (CIET.)

**Grade Type:** Letter Grade

### **MSL 102 - Introduction to the Profession of Arms**

**Units: 1**

**When Offered:** Spring

This course introduces students to the professional challenges and competencies that are needed for effective execution of the profession of arms and Army communication. Through this course, students will learn how Army ethics and values shape the Army and the specific ways that these ethics are inculcated into Army culture.

**Grade Type:** Letter Grade

### **MSL 201 - Leadership and Decision Making**

**Units: 2****When Offered:** Fall

Cadets will study, practice, and apply the fundamentals of Army Leadership, Officership, Army Values and Ethics, Personal Development, and small unit tactics at the platoon level. Cadets will be required to demonstrate writing skills and present information briefings as preparation for development in becoming a successful future officer.

**Grade Type:** Letter Grade

**Prerequisite(s):** ROTC Cadet

## **MSL 202 - Army Doctrine and Team Development**

**Units: 2****When Offered:** Spring

This course primarily is drawn from the Army Profession and Team Work Army Learning Areas (ALA's). Cadets will study, practice, and apply the fundamentals of the Leadership, Officer Skills, Army Values and Ethics, Personal Development, and Tactics at the small unit level.

**Grade Type:** Letter Grade

**Prerequisite(s):** ROTC Cadet

## **MSL 301 - Training Management and the Warfighting Functions**

**Units: 3****When Offered:** Fall

Cadets will study, practice, and apply the fundamentals of Army Leadership, Officership, Army Values and Ethics, Personal Development, and small unit tactics at the platoon level with a focus on training management and warfighting functions. At the conclusion of this course, cadets will be capable of planning, coordinating, navigating, motivating and leading a squad and platoon in the execution of a mission during a classroom practical exercise (PE), a Leadership Lab, or during a Leader Training Exercise (LTX). Successful completion of this course will help prepare cadets for the ROTC Cadet Leader Course (CLC), which they will attend in the summer at Fort Knox, KY.

**Grade Type:** Letter Grade

**Prerequisite(s):** ROTC Cadet

## **MSL 302 - Applied Leadership in Small Unit Operations**

**Units: 3****When Offered:** Spring

Building on knowledge and skills learned in prior courses, cadets will study, practice, and apply the fundamentals of Army Leadership, Officership, Army Values and Ethics, Personal Development, and small unit tactics at the platoon level with a focus on applied leadership in small unit operations. At the conclusion of this course, cadets will be capable of planning, coordinating, navigating, motivating and leading a squad and platoon in the execution of a mission during a classroom practical exercise, a Leadership Lab, or during a Leader Training Exercise (LTX). Successful completion of this course will help prepare cadets for the ROTC Cadet Leader Course (CLC), which they will attend in the summer at Fort Knox, KY.

**Grade Type:** Letter Grade

**Prerequisite(s):** ROTC Cadet

## **MSL 401 - The Army Officer**

**Units: 3****When Offered:** Fall

Cadets will study, practice, develop, and apply critical thinking skills pertaining to Army leadership, officer skills, Army Values and ethics, personal development, and small unit tactics at platoon level. Cadets will be assessed on the execution of a missions during a classroom practical exercise (PE), Leadership Lab, or during a Leader Training



Exercise (LTX). At the conclusion of this course, Cadets will be able to plan, coordinate, navigate, motivate and lead a platoon in future operational environments. Successful completion of this course will assist in preparing Cadets for their BOLC B course and is a mandatory requirement for commissioning.

**Grade Type:** Letter Grade

**Prerequisite(s):** ROTC Cadet

## **MSL 402 - Company Grade Leadership**

**Units:** 3

**When Offered:** Spring

Cadets will study, practice, develop, and apply critical thinking skills pertaining to Army leadership, officer skills, Army Values and ethics, personal development, and small unit tactics at platoon level. Cadets will be assessed on the execution of a mission during a classroom practical exercise (PE), Leadership Lab, or during a Leader Training Exercise (LTX), as well as, completing a Capstone Exercise. For the Capstone Exercise, Cadets are required to complete an Oral Practicum demonstrating knowledge of the 20 Army Warfighting Challenges (AWFC) covered throughout the course. Successful completion of this course will assist in preparing Cadets for their BOLC B course and is a mandatory requirement for commissioning.

**Grade Type:** Letter Grade

**Prerequisite(s):** ROTC Cadet

## **MSL 451 - Seminar in Military History**

**Units:** 3

**When Offered:** Spring

The course is designed to enable a student with no prior military or cadet experience to quickly learn the importance of studying military history, conduct critical analysis, and identify patterns that occur in a study of history from the Civil War through the present. The course introduction provides an analytical framework for applying critical thinking skills to the study of military operations within each time period and provides a common language to use during the class. Students will demonstrate learning through classroom participation, short point papers, an in-class presentation and two longer analytical papers. This course is NOT about learning names, dates, and places. Rather, this course is designed to interest students in the study of American military history from the Civil War period to the present. Critical thinking about "the whys" things happened is the focus. Reading the assignments and participating in classroom discussions will facilitate student interest in further historical research on topic of their choosing. For Army ROTC cadets, this course satisfies the Cadet Command military history and pre-commissioning requirement.

**Grade Type:** Letter Grade

## **Music**

### **MUS 010 - Beginning Piano for Non-Music Majors**

**Units:** 1

**When Offered:** Fall

Group instruction in keyboard fundamentals for the non-music major with little or no keyboard experience, focusing on keyboard orientation, rhythm and pitch reading, selected scales and chords, and performance of elementary keyboard literature.

**Repeatable:** May be repeated one (1) time for credit

**Grade Type:** Letter Grade

### **MUS 012 - Class Piano I**

**Units: 1****When Offered:** Fall, Spring

Designed for the music major whose primary instrument is other than piano. The course material will focus on the rudiments of piano playing, including acquisition of the Technical Skills (Items 1-10) of Piano Proficiency (i.e. scales, arpeggios, and chords).

**Repeatable:** May be repeated three (3) times for credit**Grade Type:** Letter Grade**Prerequisite(s):** Declared Music major**MUS 014 - Class Guitar****Units: 1****When Offered:** Fall, Spring

Group instruction in the fundamentals of guitar.

**Repeatable:** May be repeated for credit**Grade Type:** Letter Grade**MUS 015 - Class Piano for Worship Arts and Commercial Music I****Units: 1****When Offered:** Fall, Spring

Group instruction of fundamental piano skills to be used in live worship service settings. Focus on scales, basic chord structures, improvisation, chord chart realization, and accompaniment skills.

**Grade Type:** Letter Grade**MUS 016 - Rhythm Instruments I****Units: 1****When Offered:** Fall

Beginning group instruction on drum set as applied to commercial music studies. Students with a drum set as their primary instrument may substitute one unit of voice.

**Grade Type:** Letter Grade**MUS 017 - Class Guitar for Worship Arts I****Units: 1****When Offered:** Fall

Introduces students to foundational elements of guitar study. Students will learn how to play chords in open positions, major and pentatonic scales in all keys, note reading, basics of fingerstyle and plectrum technique, improvisation, and ensemble playing. Special emphasis will be placed on worship based applications of guitar playing.

**Repeatable:** May be repeated for credit**Grade Type:** Letter Grade**MUS 022 - Class Piano II****Units: 1****When Offered:** Fall, Spring

Designed for the music major whose primary instrument is other than piano. The course material will focus primarily on the Functional Skills (Items 11-15) of Piano Proficiency (i.e. solo repertoire, harmonization, transposition, score-reading, and sight-reading) with review of the Technical Skills.

**Repeatable:** May be repeated three (3) times for credit

**Grade Type:** Letter Grade

**Prerequisite(s):** MUS 012 or permission of the Professor

## **MUS 025 - Class Piano for Worship Arts and Commercial Music II**

**Units: 1**

**When Offered:** Fall, Spring

Group instruction of intermediate piano skills to be used in live worship service settings. Content will continue from MUS 015 - Class Piano for Worship Arts and Commercial Music I and focus on more advanced chord structures, improvisation, chord chart realization, and accompaniment skills.

**Repeatable:** May be repeated for credit

**Grade Type:** Letter Grade

**Prerequisite(s):** MUS 015

## **MUS 026 - Rhythm Instruments II**

**Units: 1**

**When Offered:** Spring

Beginning group instruction on bass and guitar as applied to commercial music studies. Students with guitar or bass as their primary instrument may substitute one unit of voice.

**Grade Type:** Letter Grade

## **MUS 027 - Class Guitar for Worship Arts II**

**Units: 1**

**When Offered:** Spring

Expounds upon foundational elements in MUS 017 - Class Guitar for Worship Arts I by introducing intermediate guitar skills and worship applications. Students will learn how to play closed chord forms, including inversions and extended chords, major and pentatonic scales in all keys, note reading beyond first position, applications of fingerstyle and plectrum technique in worship, improvisation, and ensemble playing. Special emphasis will be placed on worship-based applications of guitar playing.

**Repeatable:** May be repeated for credit

**Grade Type:** Letter Grade

**Prerequisite(s):** MUS 017

## **MUS 046 - Popular Music Ensemble: 50s-70s**

**Units: 0-1**

**When Offered:** Fall, Spring

Studies of style and performance in popular music genres in an ensemble setting. Students will rehearse and perform music of various decades, 50s through 70s. Students must be enrolled in at least one ensemble for full credit each semester. Additional ensembles may be taken for zero (0) units.

**Repeatable:** May be repeated for a maximum of eight (8) units

**Grade Type:** Letter Grade

## **MUS 047 - Popular Music Ensemble: 80s-Contemporary**

**Units: 0-1**

**When Offered:** Fall, Spring

Studies of style and performance in popular music genres in an ensemble setting. Students will rehearse and perform music of various decades, 80s through contemporary. Students must be enrolled in at least one ensemble for full

credit each semester. Additional ensembles may be taken for zero (0) units.

**Repeatable:** May be repeated for a maximum of eight (8) units

**Grade Type:** Letter Grade

## **MUS 054 - Worship Forum**

**Units: 1**

**When Offered:** Fall, Spring

While building community and culture for Worship Arts and Ministry students, this class focuses on the methodology and theology of effective corporate worship leadership, coaching students in platform presentation, rehearsing music ensembles, recruiting teams, and reaching worshipers, in the context of their local church internship.

**Repeatable:** May be repeated for a maximum of four (4) units

**Grade Type:** Letter Grade

## **MUS 055 - Worship Arts Ensemble**

**Units: 0-1**

**When Offered:** Fall, Spring

Exploration of musical styles and traditions of music for worship in small ensemble settings. The ensembles will primarily perform repertoire in contemporary worship band models. Rehearsals will emphasize instrumental and vocal skill development, worship leadership, and spiritual formation. Students will form individual worship bands that will lead worship and perform in campus and community events. Students must be enrolled in at least one ensemble for full credit each semester. Additional ensembles may be taken for zero (0) units.

**Repeatable:** May be repeated for a maximum of twelve (12) units

**Grade Type:** Letter Grade

## **MUS 060 - Lancer Pep Band**

**Units: 0-1**

**When Offered:** Fall, Spring

The Lancer Pep Band is an integral part of CBU's Men's and Women's Basketball games, working with the Cheerleaders and Crazies to provide an unrivaled, high-energy game environment and home court advantage. The band is open to students of any major by audition. Lancer Pep Band members receive a music scholarship and additional compensation from the Athletic Department for every game performance. Does NOT meet music major or minor ensemble requirement.

**Repeatable:** May be repeated for a maximum of four (4) units

**Grade Type:** Letter Grade

## **MUS 067 - Symphonic Band**

**Units: 0-1**

**When Offered:** Fall, Spring

An inclusive concert band designed to provide instrumental experience and growth through rehearsal and public performance. Open to qualified students by audition or instructor's consent. Students must be enrolled in at least one ensemble for full credit each semester. Additional ensembles may be taken for zero (0) units.

**Repeatable:** May be repeated for a maximum of twelve (12) units

**Grade Type:** Letter Grade

**Fee:** Additional uniform fee

**Concurrent Requisite(s):** MUS 072, 079, 080, 081, 082, 083, 084, 085, 086, 087, 088, 089, 460, 461, 462, 463, 464, 465, 466, 467, 468, or 469

## **MUS 068 - Camerata**

**Units: 0-1**

**When Offered:** Fall, Spring

Camerata is the most advanced, select mixed (SATB) choral ensemble open by audition from all academic disciplines. Repertoire for this ensemble focuses on music composed specifically for advanced level chamber choirs. Additionally, Camerata will join other choirs and Symphony Orchestra to perform extended works composed for large musical forces. Rehearsals seek to promote vocal development, musicianship training, team work, artistic expression, and spiritual reflection. Camerata is also a service organization which performs concerts for the California Baptist University community, in the local area, and in outreach and recruitment events. Students must be enrolled in at least one ensemble for full credit each semester. Additional ensembles may be taken for zero (0) units.

**Repeatable:** May be repeated for a maximum of twelve (12) units

**Grade Type:** Letter Grade

**Fee:** Additional uniform fee

**Prerequisite(s):** Audition (permission of the professor)

## **MUS 068G - Camerata Global Experience**

**Units: 0-1**

**When Offered:** Fall, Spring

Camerata is the most advanced, select mixed (SATB) choral ensemble open by audition from all academic disciplines. Repertoire for this ensemble focuses on music composed specifically for advanced level chamber choirs. Additionally, Camerata will join other choirs and Symphony Orchestra to perform extended works composed for large musical forces. Rehearsals seek to promote vocal development, musicianship training, team work, artistic expression, and spiritual reflection. Camerata is also a service organization which performs concerts for the California Baptist University community, in the local area, and in outreach and recruitment events. Students must be enrolled in at least one ensemble for full credit each semester. Additional ensembles may be taken for zero (0) units.

**Repeatable:** May be repeated for a maximum of twelve (12) units

**Grade Type:** Letter Grade

**Fee:** Additional course fee

**Prerequisite(s):** Audition; permission of the professor

## **MUS 069 - Worship Collective**

**Units: 0-1**

**When Offered:** Fall, Spring

Worship Collective is a mixed-voice worship-leading choral ensemble open by audition to students from all academic disciplines. Repertoire for this ensemble focuses on music designed for corporate worship leadership. This group regularly leads worship in CBU Chapel and other ministry venues. Students must be enrolled for at least one ensemble for full credit.

**Repeatable:** May be repeated for a maximum of twelve (12) units

**Grade Type:** Letter Grade

## **MUS 071 - Voice Practicum**

**Units: 1-2**

**When Offered:** Fall, Spring

Develop the ability to sing and perform in a CBU vocal ensemble by improving technique, musicianship, and expression. The repertoire used may include the student's large ensemble music as needed, with a preference for solo literature of increasing difficulty, in order to develop the singer's ability. Students must arrange instruction time with the faculty member in-charge, during the first week of classes. Twelve (12) half-hour lessons will be offered per unit.

**Repeatable:** May be repeated for credit

**Grade Type:** Letter Grade

**Fee:** Additional private instruction fee

## **MUS 072 - Piano Practicum**

**Units:** 1-2

**When Offered:** Fall, Spring

Private piano instruction for the non-music major. Twelve (12) half-hour lessons will be offered per unit. This course does not require a jury exam.

**Repeatable:** May be repeated for credit

**Grade Type:** Letter Grade

**Fee:** Additional private instruction fee

## **MUS 079 - Instrumental Practicum**

**Units:** 1-2

**When Offered:** Fall, Spring

Private instruction for instrumentalists and pianists is offered with material and performance of increasing difficulty, as the student develops. Students must arrange instruction time with the full-time faculty member in-charge, during the first week of classes. Twelve (12) half-hour lessons will be offered per unit. Enrollment not open to students seeking a Music degree, major, or minor.

**Repeatable:** May be repeated for credit

**Grade Type:** Letter Grade

**Fee:** Additional private instruction fee

## **MUS 080 - Private Instruction**

**Units:** 1-2

**When Offered:** As offered

Private Instruction is offered with material and performance of increasing difficulty as the student develops. Students must arrange a lesson time before or during the first week of classes in the School of Music office or with the instructor. Twelve (12) half-hour lessons will be offered per unit. Students are expected to perform in Student Recitals and a Jury Exam.

**Repeatable:** May be repeated for credit

**Grade Type:** Letter Grade

**Fee:** Additional private instruction fee

**Prerequisite(s):** Declared Music major or minor

## **MUS 081 - Private Instruction: Voice**

**Units:** 1-2

**When Offered:** Fall, Spring

Private Instruction is offered with material and performance of increasing difficulty as the student develops. Students must arrange a lesson time before or during the first week of classes in the School of Music office or with the instructor. Twelve (12) half-hour lessons will be offered per unit. Students are expected to perform in Student Recitals and a Jury Exam.

**Repeatable:** May be repeated for credit

**Grade Type:** Letter Grade

**Fee:** Additional private instruction fee

**Prerequisite(s):** Declared Music major or minor

## **MUS 082 - Private Instruction: Piano**

**Units: 1-2**

**When Offered:** Fall, Spring

Private Instruction is offered with material and performance of increasing difficulty as the student develops. Students must arrange a lesson time before or during the first week of classes in the School of Music office or with the instructor. Twelve (12) half-hour lessons will be offered per unit. Students are expected to perform in Student Recitals and a Jury Exam.

**Repeatable:** May be repeated for credit

**Grade Type:** Letter Grade

**Fee:** Additional private instruction fee

**Prerequisite(s):** Declared Music major or minor

## **MUS 083 - Private Instruction: Organ**

**Units: 1-2**

**When Offered:** Fall, Spring

Private Instruction is offered with material and performance of increasing difficulty as the student develops. Students must arrange a lesson time before or during the first week of classes in the School of Music office or with the instructor. Twelve (12) half-hour lessons will be offered per unit. Students are expected to perform in Student Recitals and a Jury Exam. Prior formal piano training and music reading ability required to be successful in course.

**Repeatable:** May be repeated for credit

**Grade Type:** Letter Grade

**Fee:** Additional private instruction fee

**Prerequisite(s):** Declared Music major or minor

## **MUS 084 - Private Instruction: Woodwinds**

**Units: 1-2**

**When Offered:** Fall, Spring

Private Instruction is offered with material and performance of increasing difficulty as the student develops. Students must arrange a lesson time before or during the first week of classes in the School of Music office or with the instructor. Twelve (12) half-hour lessons will be offered per unit. Students are expected to perform in Student Recitals and a Jury Exam.

**Repeatable:** May be repeated for credit

**Grade Type:** Letter Grade

**Fee:** Additional private instruction fee

**Prerequisite(s):** Declared Music major or minor

## **MUS 085 - Private Instruction: Brass**

**Units: 1-2**

**When Offered:** Fall, Spring

Private Instruction is offered with material and performance of increasing difficulty as the student develops. Students must arrange a lesson time before or during the first week of classes in the School of Music office or with the instructor. Twelve (12) half-hour lessons will be offered per unit. Students are expected to perform in Student Recitals and a Jury Exam.

**Repeatable:** May be repeated for credit

**Grade Type:** Letter Grade

**Fee:** Additional private instruction fee

**Prerequisite(s):** Declared Music major or minor

## **MUS 086 - Private Instruction: Strings**

**Units: 1-2**

**When Offered:** Fall, Spring

Private Instruction is offered with material and performance of increasing difficulty as the student develops. Students must arrange a lesson time before or during the first week of classes in the School of Music office or with the instructor. Twelve (12) half-hour lessons will be offered per unit. Students are expected to perform in Student Recitals and a Jury Exam.

**Repeatable:** May be repeated for credit

**Grade Type:** Letter Grade

**Fee:** Additional private instruction fee

**Prerequisite(s):** Declared Music major or minor

## **MUS 087 - Private Instruction: Percussion**

**Units: 1-2**

**When Offered:** Fall, Spring

Private Instruction is offered with material and performance of increasing difficulty as the student develops. Students must arrange a lesson time before or during the first week of classes in the School of Music office or with the instructor. Twelve (12) half-hour lessons will be offered per unit. Students are expected to perform in Student Recitals and a Jury Exam.

**Repeatable:** May be repeated for credit

**Grade Type:** Letter Grade

**Fee:** Additional private instruction fee

**Prerequisite(s):** Declared Music major or minor

## **MUS 088 - Private Instruction: Guitar**

**Units: 1-2**

**When Offered:** Fall, Spring

Private Instruction is offered with material and performance of increasing difficulty as the student develops. Students must arrange a lesson time before or during the first week of classes in the School of Music office or with the instructor. Twelve (12) half-hour lessons will be offered per unit. Students are expected to perform in Student Recitals and a Jury Exam.

**Repeatable:** May be repeated for credit

**Grade Type:** Letter Grade

**Fee:** Additional private instruction fee

**Prerequisite(s):** Declared Music major or minor

## **MUS 089 - Private Instruction: Accompanying**

**Units: 1-2**

**When Offered:** Fall, Spring

Private Instruction is offered with material and performance of increasing difficulty as the student develops. A weekly meeting of accompanying majors which will explore accompanying, vocal, and instrumental coaching techniques, emphasizing the interaction between partners and the musical style and performance problems in a wide range of instrumental and vocal repertory and style. Students are expected to perform in Student Recitals and a Jury Exam. Twelve (12) half-hour lessons will be offered per unit.

**Repeatable:** May be repeated for credit

**Grade Type:** Letter Grade

**Fee:** Additional private instruction fee

**Prerequisite(s):** Declared Music major or minor



## **MUS 090 - University Choir and Orchestra**

**Units: 0-1**

**When Offered:** Fall, Spring

University Choir and Orchestra is open by audition to all interested students. The group will rehearse and perform a variety of music. A concert tour at the end of the school year is required. Students must be enrolled in at least one ensemble for full credit each semester. Additional ensembles may be taken for zero (0) units.

**Repeatable:** May be repeated for a maximum of twelve (12) units

**Grade Type:** Letter Grade

**Fee:** Additional uniform fee

## **MUS 091 - Magnolia Singers**

**Units: 0-1**

**When Offered:** Fall, Spring

This choral ensemble will rehearse and perform a variety of music for soprano/alto voices. The group will concertize throughout the traditional academic year. Open by audition to all interested students. Students must be enrolled in at least one ensemble for full credit each semester. Additional ensembles may be taken for zero (0) units.

**Repeatable:** May be repeated for a maximum of twelve (12) units

**Grade Type:** Letter Grade

**Fee:** Additional uniform fee

## **MUS 092 - Lancer Chorus**

**Units: 0-1**

**When Offered:** Fall, Spring

This choral ensemble will rehearse and perform a variety of music for tenor/bass voices. The group will concertize throughout the traditional academic year. Open by audition to all interested students. Students must be enrolled in at least one ensemble for full credit each semester. Additional ensembles may be taken for zero (0) units.

**Repeatable:** May be repeated for a maximum of twelve (12) units

**Grade Type:** Letter Grade

**Fee:** Additional uniform fee

## **MUS 093 - Chamber Singers**

**Units: 0-1**

**When Offered:** Fall, Spring

Chamber Singers gives experience in preparation and performance of recognized and new choral works as well as masterworks of Western music written for small choral ensembles. Students must be enrolled in at least one ensemble for full credit each semester. Additional ensembles may be taken for zero (0) units.

**Repeatable:** May be repeated for a maximum of twelve (12) units

**Grade Type:** Letter Grade

## **MUS 094 - Rhapsody**

**Units: 0-1**

**When Offered:** Fall, Spring

This choral ensemble will rehearse and perform a variety of music for soprano/alto voices. The group will concertize throughout the traditional academic year. Open by audition to all interested students. Students must be enrolled in at least one ensemble for full credit each semester. Additional ensembles may be taken for zero (0) units.

**Repeatable:** May be repeated for a maximum of twelve (12) units

**Grade Type:** Letter Grade  
**Fee:** Additional uniform fee

## **MUS 095 - Chamber Ensemble**

**Units: 0-1**

**When Offered:** Fall, Spring

Chamber Ensemble provides opportunities for preparation and performance of small ensemble repertoire. Ensembles rehearse weekly, are provided coaching, and present performances of the music studied. The course is open to all music majors and to non-music majors by instructor permission. Students must be enrolled in at least one ensemble for full credit each semester. Additional ensembles may be taken for zero (0) units.

**Repeatable:** May be repeated for a maximum of twelve (12) units

**Grade Type:** Letter Grade

**Concurrent Requisite(s):** MUS 072, 079, 080, 081, 082, 083, 084, 085, 086, 087, 088, 089, 460, 461, 462, 463, 464, 465, 466, 467, 468, or 469

## **MUS 096 - Jazz Ensemble**

**Units: 0-1**

**When Offered:** Fall, Spring

Jazz Ensemble provides musicians with opportunities to learn a variety of jazz styles in a "big band" setting, as well as to enhance individual improvisational skills. This course also provides practical experience through rehearsals and performances. It is open to qualified students by audition or instructor's consent. Students must be enrolled in at least one ensemble for full credit each semester. Additional ensembles may be taken for zero (0) units.

**Repeatable:** May be repeated for a maximum of twelve (12) units

**Grade Type:** Letter Grade

**Concurrent Requisite(s):** MUS 072, 079, 080, 081, 082, 083, 084, 085, 086, 087, 088, 089, 460, 461, 462, 463, 464, 465, 466, 467, 468, or 469

## **MUS 097 - Wind Ensemble**

**Units: 0-1**

**When Offered:** Fall, Spring

A select concert band comprised of the finest woodwind, brass, and percussion students at the University, performing both standard and emerging repertoire for winds at a high artistic level. Open to qualified students by audition. Members of the ensemble are expected to demonstrate outstanding skill and musicianship through individual practice with refinement in ensemble rehearsal. Students must be enrolled in at least one ensemble for full credit each semester. Additional ensembles may be taken for zero (0) units.

**Repeatable:** May be repeated for a maximum of twelve (12) units

**Grade Type:** Letter Grade

**Fee:** Additional uniform fee

**Concurrent Requisite(s):** MUS 072, 079, 080, 081, 082, 083, 084, 085, 086, 087, 088, 089, 460, 461, 462, 463, 464, 465, 466, 467, 468, or 469

## **MUS 098 - Concert Choir**

**Units: 0-1**

**When Offered:** Fall, Spring

The Concert Choir gives a public performance of a diverse cross-section of choral art music, including major works, each semester. This course is offered for 0 units in the Fall and 1 unit in the Spring. Enrollment is required for all Bachelor of Music majors with a vocal or piano emphasis, as well as scholarship recipients as defined by the School of Music.

**Repeatable:** May be repeated twelve (12) times for a maximum of six (6) units

**Grade Type:** Letter Grade

## **MUS 099 - Symphony Orchestra**

**Units: 0-1**

**When Offered:** Fall, Spring

Symphony Orchestra is open by audition to all qualified students. The group will rehearse and perform the finest examples of orchestral literature, ranging from the 18th century to the present. Students must be enrolled in at least one ensemble for full credit each semester. Additional ensembles may be taken for zero (0) units.

**Repeatable:** May be repeated for a maximum of twelve (12) units

**Grade Type:** Letter Grade

**Fee:** Additional uniform fee

**Concurrent Requisite(s):** MUS 072, 079, 080, 081, 082, 083, 084, 085, 086, 087, 088, 089, 460, 461, 462, 463, 464, 465, 466, 467, 468, or 469

## **MUS 105 - Introduction to Commercial Music Studies**

**Units: 2**

**When Offered:** Fall

Overview of the diverse industry of commercial music. Students will explore trends, vocations, and markets through lectures and insights delivered by industry professionals.

**Grade Type:** Letter Grade

## **MUS 114 - Music Theory I**

**Units: 3**

**When Offered:** Fall

A review of music fundamentals, intensive study of basic concepts of music theory for the music major, introduction to music notation software. Concert attendance requirement.

**Grade Type:** Letter Grade

**Concurrent Requisite(s):** MUS 115

## **MUS 115 - Musicianship Lab I**

**Units: 1**

**When Offered:** Fall

Introductory experiences in sight-singing and ear-training.

**Grade Type:** Letter Grade

**Concurrent Requisite(s):** MUS 114

## **MUS 116 - Opera Theater Workshop**

**Units: 1-3**

**When Offered:** Fall

The study, preparation, and performance of operatic and musical theater scenes and roles, with specific focus on the integration of music, acting, and staging. Open to music majors and non-music majors by audition.

**Repeatable:** May be repeated for a maximum of twelve (12) units

**Grade Type:** Letter Grade

**Concurrent Requisite(s):** MUS 071, 072, 081, 082, 461, or 462

## **MUS 120 - Introduction to Music Ministry**

**Units: 1**

**When Offered:** Fall

Thought and discussion on the true heart of a worship leader. Special emphasis will be given to the call and role of a worship leader and the practical elements of music ministry. This course is designed to introduce students to the Worship Arts and Ministry program and provide the foundational elements of worship, which will prepare them for academic and career success.

**Grade Type:** Letter Grade

## **MUS 121 - Composition Forum**

**Units: 1**

**When Offered:** Fall, Spring

This course will provide students with an opportunity to study the art and craft of composition. Students will study the mechanics of composition (melody, harmony, rhythm, timbre) for a wide variety of mediums for stage, screen and recorded audio. Students will work individually and collaboratively, gaining clarity and perspective of their work as they receive input and suggestions from their professors, peers, and guest artists.

**Repeatable:** May be repeated for a maximum of eight (8) units

**Grade Type:** Letter Grade

## **MUS 124 - Music Theory II**

**Units: 3**

**When Offered:** Spring

Development of skills in analyzing and writing music involving diatonic voice leading principles and harmonic progressions. Examples are drawn from art, sacred and popular music. Concert attendance requirement.

**Grade Type:** Letter Grade

**Prerequisite(s):** MUS 114

**Concurrent Requisite(s):** MUS 125

## **MUS 125 - Musicianship Lab II**

**Units: 1**

**When Offered:** Spring

Continued development of aural skills and introduction to keyboard harmony and improvisation.

**Grade Type:** Letter Grade

**Prerequisite(s):** MUS 115

**Concurrent Requisite(s):** MUS 124

## **MUS 151 - Songwriting Workshop: Foundations**

**Units: 2**

**When Offered:** Fall

Study of the art and craft of songwriting, providing students with foundational understanding of the craft. Students will study the mechanics of songwriting - lyric, rhythm, melody, harmony, structure, sonics, create original musical works individually and collaboratively, and understand their unique voice and career aspirations.

**Grade Type:** Letter Grade

## **MUS 152 - Songwriting Workshop: Craft**

**Units: 2**

**When Offered:** Spring

Study of genre specific nuances as it relates to the craft of songwriting. Students will create original musical works individually and collaboratively.

**Grade Type:** Letter Grade

## **MUS 182 - Survey of Live AVL Technology**

**Units: 3**

**When Offered:** Spring

Students will receive a comprehensive overview of audio, video, and lighting technologies used in venues both sacred and secular. Coursework will include terminology, historical perspectives, trouble shooting, and basic operation.

**Grade Type:** Letter Grade

## **MUS 200 - Special Topics in Music**

**Units: 1-3**

**When Offered:** As offered

An examination of specific areas of Music.

**Repeatable:** May be repeated for credit with change in topic

**Grade Type:** Letter Grade

## **MUS 202 - Music in Global Cultures**

**Units: 2**

**When Offered:** Fall, Spring

Emphasis on musical instruments, and their significance in a culture's folklore, religion and history; fundamental elements of music and how they vary in different traditions; the effects of cultural influences such as gender and ethnically on the perception, interpretations and performance of music; forces of nationalism, acculturation, and westernization and their effect on musical traditions.

**Grade Type:** Letter Grade

## **MUS 205 - Music Development for the Classroom Teacher**

**Units: 2**

**When Offered:** Fall, Spring

Designed for the non-music major who plans to teach in the elementary classroom. Coursework includes fundamentals of music, basic musical knowledge and performing skills, and state-adopted music materials. Meets the Elementary Subject Matter Program Requirement.

**Grade Type:** Letter Grade

## **MUS 214 - Music Theory III**

**Units: 3**

**When Offered:** Fall

Advanced writing and analysis of music involving chromatic and extended harmonies, and an introduction to 16th century polyphony and 18th century counterpoint. Examples are drawn from art, sacred and popular music.

**Grade Type:** Letter Grade

**Prerequisite(s):** MUS 124

**Concurrent Requisite(s):** MUS 215

## **MUS 215 - Musicianship Lab III**

**Units: 1**

**When Offered:** Fall

Advanced training in ear-training, sight-singing and keyboard harmony involving chromatic exercises.

**Grade Type:** Letter Grade

**Prerequisite(s):** MUS 125

**Concurrent Requisite(s):** MUS 214

## **MUS 216 - Opera Theater Production**

**Units: 1-3**

**When Offered:** Spring

Practical training in the presentation of musical dramas. Consists of regular rehearsals and final performance of musicals, music dramas, and operas. Open to music majors and non-music majors by audition.

**Repeatable:** May be repeated for a maximum of twelve (12) units

**Grade Type:** Letter Grade

**Concurrent Requisite(s):** MUS 071, 072, 081, 082, 461, or 462

## **MUS 217 - Critical Listening for Music Production**

**Units: 1**

**When Offered:** Spring

Study of sound in music production including identification and manipulation, and the development of specific listening skills necessary for studio recording.

**Grade Type:** Letter Grade

## **MUS 221 - Music in Worship**

**Units: 3**

**When Offered:** Fall, Spring

A survey of the history and practice of the use of music in worship services. Emphasis is given to the development of both liturgical and non-liturgical forms of worship. Students will be involved in learning effective worship planning as they study the role of the minister, director of music, and organist.

**Grade Type:** Letter Grade

## **MUS 224 - Music Theory IV**

**Units: 3**

**When Offered:** Spring

Writing and analysis of music since 1900. Focus on contemporary harmonic practice, influence of art and popular music. Concert attendance requirement.

**Grade Type:** Letter Grade

**Prerequisite(s):** MUS 214

**Concurrent Requisite(s):** MUS 225

## **MUS 225 - Musicianship Lab IV**

**Units: 1**

**When Offered:** Spring

Advanced work in ear-training and sight-singing.

**Grade Type:** Letter Grade  
**Prerequisite(s):** MUS 215  
**Concurrent Requisite(s):** MUS 224

## **MUS 226 - Opera Workshop**

**Units:** 1

**When Offered:** As offered

This course involves the performance of operatic repertoire and the study of the integration of music, acting, and staging. Open to music and non-music majors by audition.

**Grade Type:** Letter Grade

## **MUS 236 - Music Entrepreneurship**

**Units:** 3

**When Offered:** Spring

Introduction to theories, fundamentals, and practices of entrepreneurship and small business as applied to musicians. Course will cover planning, finance, copyright and law as applied to music business, merchandise, licensing, digital rights, royalty management, and endorsements.

**Grade Type:** Letter Grade

## **MUS 246 - Music Marketing**

**Units:** 3

**When Offered:** Spring

Overview of marketing fundamentals, theories, and applications as applied to musicians. Students will explore advertising, social media marketing, strategic marketing planning, international marketing, and other topics related to contemporary musicians and music business.

**Grade Type:** Letter Grade

## **MUS 251 - Songwriting Workshop: Media**

**Units:** 2

**When Offered:** Fall

Study of songwriting for specific outputs - TV, Film, artist(s), and themes. Students will work collaboratively with artists and directors in creating music for specific projects, resulting in original musical works and recorded artifacts.

**Grade Type:** Letter Grade

## **MUS 252 - Songwriting Workshop: Applications**

**Units:** 2

**When Offered:** Spring

Students will build an individual portfolio of original musical works through recording and producing of music. Students will work collaboratively with artists and directors in creating music for specific projects, resulting in original musical works and recorded artifacts.

**Grade Type:** Letter Grade

## **MUS 253 - Introduction to Music Composition**

**Units:** 3

**When Offered:** Spring

Composing for a variety of instruments and/or voices. Intended as an introduction to various techniques and styles of composition and particular concerns of each.

**Grade Type:** Letter Grade

**Prerequisite(s):** MUS 214 and 215

## **MUS 256 - Basics of Accompanying**

**Units:** 2

**When Offered:** Spring (odd years)

Introduction to piano accompanying with emphasis on basic skills needed to accompany solo voice, choral singing, congregational singing, solo instruments, chamber music, and musicals.

**Grade Type:** Letter Grade

**Prerequisite(s):** MUS 022, and either MUS 082 or 462

## **MUS 282 - Music Technology**

**Units:** 2

**When Offered:** Fall, Spring

Introduction to a broad perspective of the many ways musicians use computers. Emphasis on historic milestones, current issues, and practical skill in using software and hardware in music technology.

**Grade Type:** Letter Grade

**Prerequisite(s):** Declared music major, minor, or concentration

## **MUS 283 - Electronic Music**

**Units:** 2

**When Offered:** Spring (even years)

This course is an introductory course in electronic music and sound design. It covers principles of sound and exposes students to a variety of sound design software and synthesizers.

**Grade Type:** Letter Grade

**Prerequisite(s):** MUS 282

## **MUS 301 - Survey of Music History**

**Units:** 3

**When Offered:** Fall

This course is a study of the development of musical styles and idioms in the context of selected historical periods and their connection with the cultural evolution of Western civilization.

**Grade Type:** Letter Grade

## **MUS 304 - Craft of Ministry I**

**Units:** 3

**When Offered:** Fall

This course is designed to explore the craft and heart of ministry in the church. It will equip future worship leaders/pastors with the practical, ministerial, and management skills needed to build, organize, and manage a thriving multi-dimensional, biblically based, worship ministry in the context of the local church worldwide.

**Grade Type:** Letter Grade

## **MUS 305 - Survey of Popular Song**



**Units: 2****When Offered:** Fall

Exploration of popular song in the 20th and 21st century such as the Great American Songbook and Broadway contemporary song, and their historical and cultural significance. Emphasis placed on lyric and melodic writing as well as major songwriters.

**Grade Type:** Letter Grade

**MUS 306 - History of Popular Music****Units: 3****When Offered:** Spring

Survey of the history and development of popular music in the 20th and 21st centuries. Emphasis is placed on recorded music history and the socio-musical aspects of music.

**Grade Type:** Letter Grade

**MUS 308 - History of Jazz****Units: 3****When Offered:** Spring

The course provides the students with an appreciation and understanding of the cultural history of Jazz. Through critical listening students will learn to identify the various styles and performers associated with the traditions of Jazz.

**Grade Type:** Letter Grade

**MUS 309 - History of Film Music****Units: 3****When Offered:** As offered

This course will examine film music, primarily American, from its origins in the "silent" film era, through the Golden Age of Hollywood, to the present day. An emphasis will be placed upon the study of individual composers and their contributions to the genre. In the belief that "music is a mirror of the society that created it," historical trends of the 20th and 21st century will also be examined.

**Grade Type:** Letter Grade

**MUS 311 - Form and Analysis****Units: 2****When Offered:** Fall

An exploration of the methods of organizing music. Study focuses on traditional homophonic forms such as variation, rondo, sonata, symphony, and popular song.

**Grade Type:** Letter Grade

**Prerequisite(s):** MUS 224 and 225

**MUS 312 - Introduction to Conducting****Units: 2****When Offered:** Fall

Basic conducting skills, principles, and rehearsal techniques for choral and instrumental music. Observations of choral and instrumental ensemble rehearsals.

**Grade Type:** Letter Grade

**Prerequisite(s):** MUS 214

## **MUS 313 - Music History I**

**Units: 2**

**When Offered:** Fall

A general survey course of the history of Western European music and of selected non-Western cultures. Includes lectures, readings, and a research paper. Ancient through Renaissance.

**Grade Type:** Letter Grade

**Prerequisite(s):** MUS 124 and 125

## **MUS 316 - Opera Theater Workshop**

**Units: 1-3**

**When Offered:** Fall

The study, preparation, and performance of operatic and musical theater scenes and roles, with specific focus on the integration of music, acting, and staging. Open to music majors and non-music majors by audition.

**Repeatable:** May be repeated for a maximum of twelve (12) units

**Grade Type:** Letter Grade

**Prerequisite(s):** MUS 116, 216, 427, 461, or 462

**Concurrent Requirement(s):** MUS 071, 072, 081, 082, 461, or 462

## **MUS 323 - Music History II**

**Units: 3**

**When Offered:** Spring

Following the scope and format of the music history courses, this course is a general survey of musical styles and history of the Baroque and Classical periods.

**Grade Type:** Letter Grade

**Prerequisite(s):** MUS 124 and 125

## **MUS 324 - Music History III**

**Units: 3**

**When Offered:** Fall

Following the scope and format of the music history courses, this course is a general survey of musical styles and history of the Baroque and Classical periods, with emphasis on the Romantic period.

**Grade Type:** Letter Grade

**Prerequisite(s):** MUS 124 and MUS 125

## **MUS 325 - Music History IV**

**Units: 2**

**When Offered:** Spring

Course content provides a continuation of Music History III with emphasis on the 20th century period. American music and implications of recent developments, including electronic and experimental music, are also included.

**Grade Type:** Letter Grade

**Prerequisite(s):** MUS 124 and 125

## **MUS 326 - Commercial Arranging I**

**Units: 2**

**When Offered:** Spring

Instruction in arranging for vocal and rhythm section in popular music genres.

**Grade Type:** Letter Grade

## **MUS 332 - Psalms, Hymns, and Spiritual Songs**

**Units:** 2

**When Offered:** Spring

An exploration of the biblical view of music and theology of corporate singing; focusing on how each should affect the twenty-first century Church. Special emphasis given to the Psalms and Christian hymnody, including contemporary hymns.

**Grade Type:** Letter Grade

## **MUS 333 - Song Literature**

**Units:** 3

**When Offered:** Spring (odd years)

A survey of literature for solo voice from the Baroque to the Twentieth Century. Analysis of scores through recordings and live performances.

**Grade Type:** Letter Grade

**Prerequisite(s):** MUS 323

## **MUS 334 - Piano Literature I**

**Units:** 2

**When Offered:** Fall (odd years)

A survey of the piano literature from the Baroque period through the end of the Classical Period. Stylistic analysis of individual works through recordings and live performances.

**Grade Type:** Letter Grade

**Fee:** Additional instruction fee

**Prerequisite(s):** MUS 323

## **MUS 335 - Piano Literature II**

**Units:** 2

**When Offered:** Spring (even years)

A survey of the piano literature of the Romantic, Impressionistic, and Contemporary periods. Stylistic analysis of individual works through recordings and live performances.

**Grade Type:** Letter Grade

**Fee:** Additional instruction fee

**Prerequisite(s):** MUS 334

## **MUS 336 - Commercial Arranging II**

**Units:** 2

**When Offered:** Fall

Instruction in arranging for rhythm section and various instrumental combinations such as strings, wind, and brass in popular music genres.

**Grade Type:** Letter Grade

**Prerequisite(s):** MUS 326

## **MUS 337 - Audio Signal Processing**

**Units: 3**

**When Offered:** Fall, Spring

Study of the theory, practice, and equipment of digital and analog audio signal processing including temporal (ex. reverb, chorus, delay), spectral (equalization, filtering), and dynamic (compressor, limiters, expanders) processing.

**Grade Type:** Letter Grade

**Prerequisite(s):** MUS 387

## **MUS 341 - Junior Recital**

**Units: 1**

**When Offered:** Fall, Spring

Music majors in the Performance areas may elect to enroll in MUS 341 and present a concert or half recital of 20-30 minutes during their junior year. Students will perform selections from their Junior Recital repertoire in this class setting, and will receive constructive critique from the instructor and classmates. Permission to enroll will be given only after attaining the appropriate Performance Level of 4 and passing all Piano Proficiency skills.

**Grade Type:** Letter Grade

## **MUS 344 - Choral Literature**

**Units: 3**

**When Offered:** Spring

Survey of choral literature from a historical and educative perspective. Emphasis is placed on graded literature appropriate for use in secondary education.

**Grade Type:** Letter Grade

**Prerequisite(s):** MUS 405

## **MUS 345 - Orchestral and Band Literature**

**Units: 3**

**When Offered:** Spring

Survey of orchestral and band literature from a historical and educative perspective. Emphasis is placed on graded literature appropriate for use in secondary education.

**Grade Type:** Letter Grade

**Prerequisite(s):** MUS 405

## **MUS 346 - Repertoire for Accompanists**

**Units: 3**

**When Offered:** Fall (odd years)

A historic survey of the song, opera, and instrumental literature from approximately 1600 through the 20th century. Includes stylistic analysis of individual works through recordings and live performances.

**Grade Type:** Letter Grade

**Fee:** Additional instruction fee

## **MUS 347 - Music Production I**

**Units: 3**

**When Offered:** Fall

Course explores studio music project creation, implementation, and delivery of product. Students will learn how to develop the overall scope of a recording project including defining project goals, selection of musical material and performers, technical resources, and budget to final product creation.

**Grade Type:** Letter Grade

**Pre- or Co- Requisite(s):** MUS 386

## **MUS 354 - Private Lessons in Composition**

**Units: 1-2**

**When Offered:** Fall, Spring

This course, a continuation of MUS 253, is intended to provide students individual instruction in music composition. Students compose works in preparation for their senior composition recital.

**Repeatable:** May be repeated for a maximum of eight (8) units

**Grade Type:** Letter Grade

**Fee:** Additional private instruction fee

**Prerequisite(s):** MUS 253

## **MUS 355 - Private Lessons in Songwriting**

**Units: 1-2**

**When Offered:** Fall, Spring

Applied instruction in the fundamentals of songwriting with emphasis placed on melodic writing, structure, "hooks," and text setting.

**Repeatable:** May be repeated for a maximum of eight (8) units

**Grade Type:** Letter Grade

**Fee:** Additional private instruction fee

**Prerequisite(s):** MUS 253

## **MUS 356 - Commercial Instrumental or Vocal Project I**

**Units: 1**

**When Offered:** Spring

Students will complete a 30-minute performance or project related to their area of studies in commercial music performance. Selection of material and performance medium will be selected in coordination with the student's applied instructor.

**Grade Type:** Letter Grade

**Prerequisite(s):** Junior status

## **MUS 357 - Music Production II**

**Units: 3**

**When Offered:** Spring

Study of the business and creative aspects of music production. Emphasis is placed on project development and tracking from demo to final product, creative and aesthetic considerations, assessing needs of artist, song selection and analysis, and artistic development and creative vision.

**Grade Type:** Letter Grade

**Prerequisite(s):** MUS 347

## **MUS 360 - Theology, History, and Practice of Worship**

**Units: 3**

**When Offered:** Fall, Spring

An examination of biblical text and the history of worship in the church in order to develop a biblical theology of worship and its application in the local church. Students will learn about the development and reforms of liturgical

practices and biblical foundations for historical and present-day worship applications.

**Grade Type:** Letter Grade

## **MUS 364 - Songwriting and Commercial Production**

**Units:** 3

**When Offered:** Fall

In this course students will experience the full creative process of writing a song, arranging it, making a demo, and creating a full studio production. Focusing on foundational recording and production techniques, this class will also highlight topics of music copyright, licensing, and publishing.

**Grade Type:** Letter Grade

**Prerequisite(s):** MUS 282

## **MUS 366 - Live Sound Techniques and Applications**

**Units:** 3

**When Offered:** Fall

Study of equipment and design in sound related to concert and live performance applications. Additional training on operation, mixing, equalization, and monitor mixing.

**Grade Type:** Letter Grade

**Practicum:** Practicum hours required

## **MUS 367 - Contemporary Trends in Music Engineering**

**Units:** 3

**When Offered:** Fall, Spring

Exploration of current technological developments and applications in sound recording, editing, manipulation, and distribution.

**Grade Type:** Letter Grade

**Prerequisite(s):** MUS 387

## **MUS 370 - Worship Technology**

**Units:** 3

**When Offered:** Spring

Worship Technology covers the various skills needed for the technical aspects of modern church worship service.

Included in the course will be techniques on lighting, sound, multi-media, and emerging technologies that will enhance corporate worship. The student will learn the various skills needed for these areas as well as the ability to communicate with professionals in the technical field.

**Grade Type:** Letter Grade

## **MUS 372 - Counterpoint**

**Units:** 2

**When Offered:** Spring

Continued study of composers' methods of organizing music. Focuses on analysis of music and writing music using contrapuntal techniques. Emphasis on forms of Baroque era and their current application.

**Grade Type:** Letter Grade

**Prerequisite(s):** MUS 224 and 225

## **MUS 376 - Performance Styles for Accompanists**

**Units: 2****When Offered:** Spring (even years)

Introduction to performance practice for accompanists with emphasis on stylistic playing. Accompaniments for art song, operatic and instrumental literature, choral literature, gospel and jazz styles will be studied through discussion and performance.

**Grade Type:** Letter Grade**Fee:** Additional instruction fee**Prerequisite(s):** MUS 256**MUS 377 - Post Production and Editing****Units: 3****When Offered:** Spring

Introduction to audio post production and editing for visual media. Methods for sound synchronization, dialogue recording, editing and mixing, and sound effects will be covered. Students will produce short projects applying course content to short films and advertisements.

**Grade Type:** Letter Grade**Prerequisite(s):** MUS 387**MUS 386 - Audio Recording and Studio Techniques I****Units: 3****When Offered:** Fall

Introduction to analog and digital audio recording and ProTools recording software. Topics covered will include microphone techniques, signal flow, recording consoles, sound capture, and basic sound editing. Recording of vocal and instruments will be covered.

**Grade Type:** Letter Grade**MUS 387 - Audio Recording and Studio Techniques II****Units: 3****When Offered:** Spring

Course builds upon Audio Recording and Studio Techniques I, exploring advanced studio recording and editing. Topics covered will include signal routing, DAW, digital signal processors, and recording of larger ensembles and diverse instruments.

**Grade Type:** Letter Grade**Practicum:** Practicum hours required**Prerequisite(s):** MUS 386**MUS 390 - Projects in Musical Analysis****Units: 1****When Offered:** Spring (odd years)

This course is a topical study in musical analysis that builds on the material in MUS 311. Students will be exposed to various analytical techniques utilized by the professional music theorist including Schenkerian Analysis, Post-Tonal Musical Analysis, and Narrative Analysis.

**Grade Type:** Letter Grade**Prerequisite(s):** MUS 311**MUS 396 - Lighting Techniques and Applications**

**Units: 3**

**When Offered:** Spring

Study of equipment and design in lighting related to concert and live performance applications. Emphasis placed on terminology, creation of lighting plots and designs, fixtures, and computer and lighting console instruction.

**Grade Type:** Letter Grade

**Practicum:** Practicum hours required

## **MUS 397 - Studio Production Project I**

**Units: 1**

**When Offered:** Fall, Spring

Students will record a 30-minute performance project of various ensemble configurations. Selection of material and performance medium will be selected in coordination with the student's applied instructor.

**Grade Type:** Letter Grade

**Prerequisite(s):** Junior status

## **MUS 399 - Independent Study**

**Units: 3**

**When Offered:** As offered

An opportunity for students who have demonstrated the ability to do independent work to pursue in depth a topic of particular interest.

**Grade Type:** Letter Grade

## **MUS 400 - Special Topics in Music**

**Units: 1-3**

**When Offered:** As offered

An examination of specific areas of Music.

**Repeatable:** May be repeated for credit with change in topic

**Grade Type:** Letter Grade

## **MUS 404 - Craft of Ministry II**

**Units: 2**

**When Offered:** Spring

This course is designed to equip the aspiring worship leader or pastor with administrative, organization, and management skills essential for success in the environment and structure of the local church.

**Grade Type:** Letter Grade

**Prerequisite(s):** MUS 304

## **MUS 405 - Introduction to Music Education**

**Units: 3**

**When Offered:** Fall

Introduction to music teaching as a profession. This course introduces philosophical foundations, pedagogical approaches, learning environments, curriculum and instruction, content standards, social context, and music instruction and learning with technology.

**Grade Type:** Letter Grade

**Fieldwork:** 20 hours of observation required

**Prerequisite(s):** Acceptance into the Teaching Credential program



## **MUS 408 - Jazz Pedagogy**

**Units: 2**

**When Offered:** Fall

This course is designed to prepare students to teach jazz music. Students will receive a fundamental background in aspects of administration, preparation, directing, rehearsal, teaching, and evaluation of the various types of jazz ensembles: big bands, combos, and vocal jazz groups. Required of all Music Education majors and those completing the Jazz Studies Concentration.

**Grade Type:** Letter Grade

**Prerequisite(s):** MUS 224

## **MUS 412 - Instrumental Conducting**

**Units: 2**

**When Offered:** Spring

Advanced development of the specific skills and techniques of conducting instrumental ensembles, including orchestra and wind band. Course includes score analysis, interpretive decisions, baton technique, verbal and non-verbal communication, and development of a conductor's knowledge of relevant instruments and transpositions.

**Grade Type:** Letter Grade

**Practicum:** Practicum hours required

**Prerequisite(s):** MUS 312

## **MUS 413 - Choral Conducting**

**Units: 2**

**When Offered:** As offered

Advanced development of the techniques of choral conducting. Course includes score analysis, verbal and non-verbal gestures, interpretative decisions, and development of choral tone.

**Grade Type:** Letter Grade

**Practicum:** Practicum hours required

**Prerequisite(s):** MUS 312

**Concurrent Requisite(s):** MUS 093

## **MUS 414 - Interpretive Arranging**

**Units: 2**

**When Offered:** Fall

The technique of arranging and adapting music for instrumental as well as vocal ensembles of various sizes and composition is the focus of this course content.

**Grade Type:** Letter Grade

**Prerequisite(s):** MUS 224 and 225

## **MUS 416 - Opera Theater Production**

**Units: 1-3**

**When Offered:** Spring

Practical training in the presentation of musical dramas. Consists of regular rehearsals and final performance of musicals, music dramas, and operas. Open to music majors and non-music majors by audition.

**Repeatable:** May be repeated for a maximum of twelve (12) units

**Grade Type:** Letter Grade

**Prerequisite(s):** MUS 116, 216, 316, 427, 461, or 462

**Concurrent Requisite(s):** MUS 071, 072, 081, 082, 461, or 462

## **MUS 417 - Vocal Pedagogy**

**Units: 2**

**When Offered:** Spring (even years)

Scientific exploration into the workings of the vocal mechanism and the technique of voice production. A survey of common vocal faults with appropriate correction exercises will be discovered. Successful voice studio procedures are included. Students will demonstrate knowledge learned by privately teaching a student for one month, then once before the class.

**Grade Type:** Letter Grade

## **MUS 418 - Piano Pedagogy I**

**Units: 2**

**When Offered:** Fall (even years)

A survey of the methods and materials available to the private piano teacher. Private studio procedures (teacher-student relationship, billing procedures, recruitment, etc.) will be explored.

**Grade Type:** Letter Grade

**Fee:** Additional instruction fee

**Concurrent Requisite(s):** MUS 450

## **MUS 419 - Instrumental Pedagogy**

**Units: 2**

**When Offered:** Spring (even years)

Students study the methods and materials used in teaching brass, woodwind, string, or percussion instruments. The area of emphasis is determined by the student's primary instrument.

**Grade Type:** Letter Grade

**Fee:** Additional instruction fee

## **MUS 422 - Seminar in Conducting**

**Units: 2**

**When Offered:** Fall, Spring

Those interested in future conducting will study special problems in the field; they will conduct choral and instrumental ensembles, and will observe rehearsals and performances under a master conductor. Historical aspects of conducting will also be important course content.

**Grade Type:** Letter Grade

**Prerequisite(s):** MUS 312, and either 412 or 413

## **MUS 423 - Vocal Repertory Lab**

**Units: 2**

**When Offered:** Fall (odd years)

This course is designed to prepare vocal performance majors preparing a degree recital. Focuses on all aspects of recital presentation: stage etiquette, stage presence, interpretation of vocal literature by examination of performance practices for the style and period of each piece; how to stage/dramatize an opera aria in a concert/recital setting; exploration of text meaning and derivation.

**Grade Type:** Letter Grade

## **MUS 425 - Survey of Music in Other Disciplines**

**Units: 1**

**When Offered:** Spring (odd years)

The purpose of this class is for students to develop an understanding of music connections, relationships, and applications to other arts in other academic disciplines.

**Grade Type:** Letter Grade

## **MUS 427 - Diction for Singers I**

**Units: 1**

**When Offered:** Fall (even years)

The course encompasses proper diction for the Latin, Italian, and Spanish solo song and choral literature. Development of correct pronunciation methods through the use of language drills, listening to recordings, and reading of phonetic transcriptions of the texts in musical literature.

**Grade Type:** Letter Grade

**Prerequisite(s):** One (1) year of private voice study

## **MUS 428 - Diction for Singers II**

**Units: 1**

**When Offered:** Spring (odd years)

The course encompasses proper diction for the English, German and French solo song and choral literature. Development of correct pronunciation methods through the use of language drills, listening to recordings, and reading of phonetic transcriptions of the texts in musical literature.

**Grade Type:** Letter Grade

**Prerequisite(s):** One (1) year of private voice study

## **MUS 431 - Senior Recital and Project**

**Units: 1**

**When Offered:** Fall, Spring

Students seeking a Bachelor of Arts in Music or Bachelor of Music degree must enroll in Senior Recital and Project in the semester they intend to perform their Senior Recital, typically the last semester of their senior year. Permission to enroll will be given only after attaining the appropriate Performance Level (Level 5 for Performance majors and Level 4 for BA in Music, Music Education or Composition for Stage and Screen majors). Piano Proficiency completion required. Requirements for recital length are determined by the student's major. See School of Performing Arts Undergraduate Student Handbook for recital length and repertoire requirements.

**Grade Type:** Letter Grade

**Prerequisite(s):** Permission of the Dean

## **MUS 434 - Creative Worship Planning**

**Units: 2**

**When Offered:** Spring

Combining a biblical methodology with current technology, this course equips students with the tools necessary for planning and executing effective corporate worship gatherings that foster theological depth, musical excellence, and cultural relevance.

**Grade Type:** Letter Grade

## **MUS 438 - Piano Pedagogy II**

**Units: 2**

**When Offered:** Spring (odd years)

A survey of intermediate and early-advanced methods and materials available to the private piano teacher. Private studio procedures (teacher-student relationship, billing procedures, recruitment, etc.) will be explored.

**Grade Type:** Letter Grade

**Fee:** Additional instruction fee

**Prerequisite(s):** MUS 418

**Concurrent Requisite(s):** MUS 450

## **MUS 440 - Instrumental Techniques for Woodwinds**

**Units: 1**

**When Offered:** Fall (even years)

Private or group instruction on instruments of the woodwind family. Primary emphasis on one instrument to gain basic proficiency, with exposure to problems and techniques of the other members of that family. Instruction in pedagogical techniques useful in classroom instruction.

**Grade Type:** Letter Grade

## **MUS 441 - Instrumental Techniques for Brass**

**Units: 1**

**When Offered:** Fall (odd years)

Private or group instruction on instruments of the brass family. Primary emphasis on one instrument to gain basic proficiency, with exposure to problems and techniques of the other members of that family. Instruction in pedagogical techniques useful in classroom instruction.

**Grade Type:** Letter Grade

## **MUS 442 - Instrumental Techniques for Percussion**

**Units: 1**

**When Offered:** Spring (even years)

Private or group instruction on instruments of the percussion family. Primary emphasis on one instrument to gain basic proficiency, with exposure to problems and techniques of the other members of that family. Instruction in pedagogical techniques useful in classroom instruction.

**Grade Type:** Letter Grade

## **MUS 443 - Instrumental Techniques for Strings**

**Units: 1**

**When Offered:** Spring (odd years)

Private or group instruction on instruments of the string family. Primary emphasis on one instrument to gain basic proficiency, with exposure to problems and techniques of the other members of that family. Instruction in pedagogical techniques useful in classroom instruction.

**Grade Type:** Letter Grade

## **MUS 444 - Vocal Techniques**

**Units: 1**

**When Offered:** Fall (even years)

Instruction for Music Education majors in the fundamentals of vocal tone production, breathing, breath control, and posture, and approaches for working with groups of singers in classroom teaching. Topics will include proper vowel

formation, vocal warm-ups, register phenomena, diction and vocal health. Students will learn songs as examples for class topics, with the possible opportunity for individual performance and attention to individual problems.

**Grade Type:** Letter Grade

**Prerequisite(s):** MUS 214 and 215

## **MUS 445 - Marching Band Techniques**

**Units:** 2

**When Offered:** Fall (even years)

Marching Band Techniques is designed for Music Education majors with an instrumental emphasis. The course provides an overview of the skills and knowledge needed to plan, organize, manage, and teach a high school marching band program. Topics to be covered include: music selection, show design, rehearsal planning, marching fundamentals and styles, instruments and equipment, budgets, travel planning, practices and policies, and philosophy. A six-month College Subscription of Pyware 3D drill design software is required.

**Grade Type:** Letter Grade

**Prerequisite(s):** MUS 124

## **MUS 446 - Commercial Music Ensemble**

**Units:** 0-1

**When Offered:** Fall, Spring

Exploration of musical genres in small ensemble setting. Ensemble will explore one musical style which may change each semester. Genres selected from include but are not limited to: Funk Ensemble, Jam Band, Salsa Band, Rock, Country, R-n-B, Blues, and Jazz Fusion. Students must be enrolled in at least one ensemble for full credit each semester. Additional ensembles may be taken for zero (0) units.

**Repeatable:** May be repeated for a maximum of eight (8) units

**Grade Type:** Letter Grade

## **MUS 450 - Observations and Practicum in Teaching Methods**

**Units:** 1

**When Offered:** As offered

Practical experience in observing and teaching music in individual and group learning environments under faculty supervision. Regularly scheduled conferences for evaluation and planning. Open to selected Music Majors only.

**Repeatable:** May be repeated for a maximum of four (4) units

**Grade Type:** Letter Grade

**Prerequisite(s):** MUS 224, two years of applied music, and successful completion of Piano Proficiency examination

## **MUS 454 - Worship Forum**

**Units:** 1

**When Offered:** Fall, Spring

While building community and culture for Worship Arts and Ministry students, this class focuses on the methodology and theology of effective corporate worship leadership, coaching students in platform presentation, rehearsing music ensembles, recruiting teams, and reaching worshippers, in the context of their local church internship.

**Repeatable:** May be repeated for a maximum of six (6) units

**Grade Type:** Letter Grade

**Prerequisite(s):** MUS 054

## **MUS 455 - Worship Arts Ensemble**

**Units: 0-1****When Offered:** Fall, Spring

Exploration of musical styles and traditions of music for worship in small ensemble settings. The ensembles will primarily perform repertoire in contemporary worship band models. Rehearsals will emphasize instrumental and vocal skill development, worship leadership, and spiritual formation. Students will form individual worship bands that will lead worship and perform in campus and community events. Students must be enrolled in at least one ensemble for full credit each semester. Additional ensembles may be taken for zero (0) units.

**Repeatable:** May be repeated for a maximum of twelve (12) units**Grade Type:** Letter Grade**MUS 456 - Commercial Instrumental or Vocal Project II****Units: 1****When Offered:** Fall, Spring

Students will complete a 60-minute performance or project related to their area of studies in commercial music performance. Selection of material and performance medium will be selected in coordination with the student's applied instructor.

**Grade Type:** Letter Grade**Prerequisite(s):** MUS 356**MUS 459 - Private Songwriting Lessons****Units: 1-2****When Offered:** Fall, Spring

Private instruction in the craft of songwriting within multiple musical genres and applications. Students will create original songs for public performance and distribution.

**Repeatable:** May be repeated for a maximum of six (6) units**Grade Type:** Letter Grade**Fee:** Additional private instruction fee**Prerequisite(s):** MUS 252**MUS 460 - Private Instruction****Units: 1-2****When Offered:** Fall, Spring

Private Instruction is offered with material and performance of increasing difficulty as the student develops. Students must arrange a lesson time before or during the first week of classes in the School of Music office or with the instructor. Twelve (12) half-hour lessons will be offered per unit. Students are expected to perform in Student Recitals and a Jury Exam.

**Repeatable:** May be repeated for credit**Grade Type:** Letter Grade**Fee:** Additional private instruction fee**Prerequisite(s):** MUS 080 and declared Music major or minor**MUS 461 - Private Instruction: Voice****Units: 1-2****When Offered:** Fall, Spring

Private Instruction is offered with material and performance of increasing difficulty as the student develops. Students must arrange a lesson time before or during the first week of classes in the School of Music office or with the instructor. Twelve (12) half-hour lessons will be offered per unit. Students are expected to perform in Student Recitals and a Jury Exam.

**Repeatable:** May be repeated for credit

**Grade Type:** Letter Grade

**Fee:** Additional private instruction fee

**Prerequisite(s):** MUS 081 and declared Music major or minor

## **MUS 462 - Private Instruction: Piano**

**Units: 1-2**

**When Offered:** Fall, Spring

Private Instruction is offered with material and performance of increasing difficulty as the student develops. Students must arrange a lesson time before or during the first week of classes in the School of Music office or with the instructor. Twelve (12) half-hour lessons will be offered per unit. Students are expected to perform in Student Recitals and a Jury Exam.

**Repeatable:** May be repeated for credit

**Grade Type:** Letter Grade

**Fee:** Additional private instruction fee

**Prerequisite(s):** MUS 082 and declared Music major or minor

## **MUS 463 - Private Instruction: Organ**

**Units: 1-2**

**When Offered:** Fall, Spring

Private Instruction is offered with material and performance of increasing difficulty as the student develops. Students must arrange a lesson time before or during the first week of classes in the School of Music office or with the instructor. Twelve (12) half-hour lessons will be offered per unit. Students are expected to perform in Student Recitals and a Jury Exam.

**Repeatable:** May be repeated for credit

**Grade Type:** Letter Grade

**Fee:** Additional private instruction fee

**Prerequisite(s):** MUS 083 and declared Music major or minor

## **MUS 464 - Private Instruction: Woodwinds**

**Units: 1-2**

**When Offered:** Fall, Spring

Private Instruction is offered with material and performance of increasing difficulty as the student develops. Students must arrange a lesson time before or during the first week of classes in the School of Music office or with the instructor. Twelve (12) half-hour lessons will be offered per unit. Students are expected to perform in Student Recitals and a Jury Exam.

**Repeatable:** May be repeated for credit

**Grade Type:** Letter Grade

**Fee:** Additional private instruction fee

**Prerequisite(s):** MUS 084 and declared Music major or minor

## **MUS 465 - Private Instruction: Brass**

**Units: 1-2**

**When Offered:** Fall, Spring

Private Instruction is offered with material and performance of increasing difficulty as the student develops. Students must arrange a lesson time before or during the first week of classes in the School of Music office or with the instructor. Twelve (12) half-hour lessons will be offered per unit. Students are expected to perform in Student Recitals and a Jury Exam.

**Repeatable:** May be repeated for credit

**Grade Type:** Letter Grade

**Fee:** Additional private instruction fee

**Prerequisite(s):** MUS 085 and declared Music major or minor

## **MUS 466 - Private Instruction: Strings**

**Units: 1-2**

**When Offered:** Fall, Spring

Private Instruction is offered with material and performance of increasing difficulty as the student develops. Students must arrange a lesson time before or during the first week of classes in the School of Music office or with the instructor. Twelve (12) half-hour lessons will be offered per unit. Students are expected to perform in Student Recitals and a Jury Exam.

**Repeatable:** May be repeated for credit

**Grade Type:** Letter Grade

**Fee:** Additional private instruction fee

**Prerequisite(s):** MUS 086 and declared Music major or minor

## **MUS 467 - Private Instruction: Percussion**

**Units: 1-2**

**When Offered:** Fall, Spring

Private Instruction is offered with material and performance of increasing difficulty as the student develops. Students must arrange a lesson time before or during the first week of classes in the School of Music office or with the instructor. Twelve (12) half-hour lessons will be offered per unit. Students are expected to perform in Student Recitals and a Jury Exam.

**Repeatable:** May be repeated for credit

**Grade Type:** Letter Grade

**Fee:** Additional private instruction fee

**Prerequisite(s):** MUS 087 and declared Music major or minor

## **MUS 468 - Private Instruction: Guitar**

**Units: 1-2**

**When Offered:** Fall, Spring

Private Instruction is offered with material and performance of increasing difficulty as the student develops. Students must arrange a lesson time before or during the first week of classes in the School of Music office or with the instructor. Twelve (12) half-hour lessons will be offered per unit. Students are expected to perform in Student Recitals and a Jury Exam.

**Repeatable:** May be repeated for credit

**Grade Type:** Letter Grade

**Fee:** Additional private instruction fee

**Prerequisite(s):** MUS 088 and declared major or minor

## **MUS 469 - Private Instruction: Accompanying**

**Units: 1-2**

**When Offered:** Fall, Spring

Private Instruction is offered with material and performance of increasing difficulty as the student develops. A weekly meeting of accompanying majors which will explore accompanying, vocal, and instrumental coaching techniques, emphasizing the interaction between partners and the musical style and performance problems in a wide range of instrumental and vocal repertory and style. Twelve (12) half-hour lessons will be offered per unit. Students are



expected to perform in Student Recitals and a Jury Exam.

**Repeatable:** May be repeated for a maximum of twenty-four (24) units

**Grade Type:** Letter Grade

**Fee:** Additional private instruction fee

**Prerequisite(s):** MUS 089 and declared Music major or minor

## **MUS 472 - Orchestration**

**Units:** 3

**When Offered:** Fall

A study of the orchestral instruments; scoring for full orchestration or small ensembles. Students do extensive work in the computer lab working with notation software.

**Grade Type:** Letter Grade

**Prerequisite(s):** MUS 224

## **MUS 473 - Advanced Studies in Music Education**

**Units:** 3

**When Offered:** Spring

A study of advanced methods and strategies for teaching music within specific contexts (choral, band, orchestra) in middle and high school settings. Students will create and teach lessons, expressing expertise in teaching methods and strategies, as well as observing master teachers in the classroom and studio.

**Grade Type:** Letter Grade

**Fieldwork:** 30 hours of observation are required

**Prerequisite(s):** MUS 405, and either 476 or 479

## **MUS 474 - Worship Ministry Internship**

**Units:** 1

**When Offered:** Summer

This internship will consist of a summer spent serving in the context of a church worship ministry under the direct mentorship of an established and influential worship leader/pastor. This internship will serve as a capstone project for those in the BA in Worship Arts and Ministry degree program and will represent a synthesis and application of musical, technical, ministerial, and professional skills assessed throughout the program.

**Grade Type:** Pass/Fail

**Prerequisite(s):** Permission of the Dean

## **MUS 475 - General Music Methods**

**Units:** 3

**When Offered:** Spring

Exploration of the methodologies for teaching non-performance music curricula in the classroom. Methodologies include Orff, Kodály, and Dalcroze, as well as learning theories for elementary-aged students, lesson plans, and the application of music and the arts in other disciplines. In addition to classroom instruction, students will complete observation hours of master teachers.

**Grade Type:** Letter Grade

**Prerequisite(s):** MUS 405

## **MUS 476 - Instrumental Methods**

**Units: 3**

**When Offered:** Fall

Course is designed to teach the curricular foundations for future music educators teaching orchestra, band, and jazz in school settings. Emphasis placed on administration of instrumental programs, rehearsal techniques, content standards, lesson planning, program building, classroom management, and advocacy.

**Grade Type:** Letter Grade

**Prerequisite(s):** MUS 345, and either 412 or 413

## **MUS 477 - Audio Mastering**

**Units: 2**

**When Offered:** Fall

Audio processing and mastering techniques applied to audio preparation for distribution.

**Grade Type:** Letter Grade

**Prerequisite(s):** MUS 387

## **MUS 479 - Choral Methods**

**Units: 3**

**When Offered:** Fall

Course is designed to teach the curricular foundations for future music educators teaching choir in school settings. Emphasis placed on program administration, rehearsal techniques, sight-reading, content standards, lesson planning, program building, classroom management and advocacy.

**Grade Type:** Letter Grade

**Prerequisite(s):** MUS 344, 475, and either 412 or 413

## **MUS 484 - Professional Leadership for Ministers**

**Units: 2**

**When Offered:** Fall

This course will expose future ministers to principles and philosophies of effective high-level leadership in the professional environment. In addition, it will seek to unlock the unique strengths of each individual student and explore how those can be leveraged toward effective leadership in the environment of the church.

**Grade Type:** Letter Grade

## **MUS 487 - Sound Design for Film and Multimedia**

**Units: 3**

**When Offered:** Spring

Integration of audio and studio technology in post production. Topics include dialogue replacement, sound effects design and editing, Foley, surround sound mixing, and music score production.

**Grade Type:** Letter Grade

**Practicum:** Practicum hours required

**Prerequisite(s):** MUS 387

## **MUS 489 - University Choir and Orchestra**

**Units: 0-1**

**When Offered:** Fall, Spring

University Choir and Orchestra is open by audition to all interested students. UCO will rehearse and perform a variety of sacred music. A concert tour at the end of the school year is required. Students must be enrolled in at least one

ensemble for full credit each semester. Additional ensembles may be taken for zero (0) units. Students must have sophomore status and prior experience to take Upper Division ensembles.

**Repeatable:** May be repeated for a maximum of twelve (12) units

**Grade Type:** Letter Grade

**Fee:** Additional uniform fee

**Prerequisite(s):** MUS 090

## **MUS 490A - Major Ensemble: Symphonic Band**

**Units: 0-1**

**When Offered:** Fall, Spring

An inclusive concert band designed to provide instrumental experience and growth through rehearsal and public performance. Open to qualified students by audition or instructor's consent. Students must have sophomore status and prior experience to take Upper Division ensembles. Students must be enrolled in at least one ensemble for full credit each semester. Additional ensembles may be taken for zero (0) units.

**Repeatable:** May be repeated for a maximum of twelve (12) units

**Grade Type:** Letter Grade

**Fee:** Additional uniform fee

**Prerequisite(s):** MUS 067 or 097

**Concurrent Requirement(s):** MUS 072, 079, 080, 081, 082, 083, 084, 085, 086, 087, 088, 089, 460, 461, 462, 463, 464, 465, 466, 467, 468, or 469

## **MUS 490B - Major Ensemble: Camerata**

**Units: 0-1**

**When Offered:** Fall, Spring

Camerata is the most advanced, select mixed (SATB) choral ensemble open by audition from all academic disciplines. Repertoire for this ensemble focuses on music composed specifically for advanced level chamber choirs. Additionally, Camerata will join other choirs and Symphony Orchestra to perform extended works composed for large musical forces. Rehearsals seek to promote vocal development, musicianship training, team work, artistic expression, and spiritual reflection. Camerata is also a service organization which performs concerts for the CBU community, in the local area, and in outreach and recruitment events. Students must have sophomore status and prior experience to take Upper Division ensembles. Students must be enrolled in at least one ensemble for full credit each semester. Additional ensembles may be taken for zero (0) units.

**Repeatable:** May be repeated for a maximum of twelve (12) units

**Grade Type:** Letter Grade

**Fee:** Additional uniform fee

**Prerequisite(s):** MUS 068

## **MUS 490C - Major Ensemble: Magnolia Singers**

**Units: 0-1**

**When Offered:** Fall, Spring

This choral ensemble will rehearse and perform a variety of music for soprano/alto voices and combine with other choirs to form the Worship Collective. The group will concertize throughout the traditional academic year. Open by audition to all interested students. Students must have sophomore status and prior experience to take Upper Division ensembles. Students must be enrolled in at least one ensemble for full credit each semester. Additional ensembles may be taken for zero (0) units.

**Repeatable:** May be repeated for a maximum of twelve (12) units

**Grade Type:** Letter Grade

**Fee:** Additional uniform fee

**Prerequisite(s):** MUS 091 or 094

## **MUS 490D - Major Ensemble: Lancer Chorus**

**Units: 0-1**

**When Offered:** Fall, Spring

This choral ensemble will rehearse and perform a variety of music for tenor/bass voices. The group will concertize throughout the traditional academic year. Open by audition to all interested students. Students must have sophomore status and prior experience to take Upper Division ensembles. Students must be enrolled in at least one ensemble for full credit each semester. Additional ensembles may be taken for zero (0) units.

**Repeatable:** May be repeated for a maximum of eight (8) units

**Grade Type:** Letter Grade

**Fee:** Additional uniform fee

**Prerequisite(s):** MUS 092

**Concurrent Requisite(s):**

## **MUS 490E - Major Ensemble: Rhapsody**

**Units: 0-1**

**When Offered:** Fall, Spring

This choral ensemble will rehearse and perform a variety of music for soprano/alto voices. The group will concertize throughout the traditional academic year. Open by audition to all interested students. Students must have sophomore status and prior experience to take Upper Division ensembles. Students must be enrolled in at least one ensemble for full credit each semester. Additional ensembles may be taken for zero (0) units.

**Repeatable:** May be repeated for a maximum of eight (8) units

**Grade Type:** Letter Grade

**Fee:** Additional uniform fee

**Prerequisite(s):** MUS 091 or 094

## **MUS 490F - Major Ensemble: Wind Ensemble**

**Units: 0-1**

**When Offered:** Fall, Spring

A select concert band comprised of the finest woodwind, brass, and percussion students at the University, performing both standard and emerging repertoire for winds at a high artistic level. Open to qualified students by audition. Members of the ensemble are expected to demonstrate outstanding skill and musicianship through individual practice with refinement in ensemble rehearsal. Students must have sophomore status and prior experience to take Upper Division ensembles. Students must be enrolled in at least one ensemble for full credit each semester. Additional ensembles may be taken for zero (0) units.

**Repeatable:** May be repeated for a maximum of twelve (12) units

**Grade Type:** Letter Grade

**Fee:** Additional uniform fee

**Prerequisite(s):** MUS 097

**Concurrent Requisite(s):** MUS

072, 079, 080, 081, 082, 083, 084, 085, 086, 087, 088, 089, 460, 461, 462, 463, 464, 465, 466, 467, 468, or 469

## **MUS 490G - Major Ensemble: Camerata Global Experience**

**Units: 0-1**

**When Offered:** Fall, Spring

Camerata is the most advanced, select mixed (SATB) choral ensemble open by audition from all academic disciplines. Repertoire for this ensemble focuses on music composed specifically for advanced level chamber choirs. Additionally, Camerata will join other choirs and Symphony Orchestra to perform extended works composed for large musical

forces. Rehearsals seek to promote vocal development, musicianship training, team work, artistic expression, and spiritual reflection. Camerata is also a service organization which performs concerts for the CBU community, in the local area, and in outreach and recruitment events. Students must have sophomore status and prior experience to take Upper Division ensembles. Students must be enrolled in at least one ensemble for full credit each semester. Additional ensembles may be taken for zero (0) units.

**Repeatable:** May be repeated for a maximum of twelve (12) units

**Grade Type:** Letter Grade

**Fee:** Additional course fee

**Prerequisite(s):** MUS 068 or 068G

## **MUS 490H - Major Ensemble: Symphony Orchestra**

**Units: 0-1**

**When Offered:** Fall, Spring

Symphony Orchestra is open by audition to all qualified students. The group will rehearse and perform the finest examples of orchestral literature, ranging from the 18th century to the present. Students must have sophomore status and prior experience to take Upper Division ensembles. Students must be enrolled in at least one ensemble for full credit each semester. Additional ensembles may be taken for zero (0) units.

**Repeatable:** May be repeated for a maximum of twelve (12) units

**Grade Type:** Letter Grade

**Fee:** Additional uniform fee

**Prerequisite(s):** MUS 099

**Concurrent Requisite(s):** MUS

072, 079, 080, 081, 082, 083, 084, 085, 086, 087, 088, 089, 460, 461, 462, 463, 464, 465, 466, 467, 468, or 469

## **MUS 491A - Chamber Ensemble: Strings**

**Units: 0-1**

**When Offered:** Fall, Spring

This course provides opportunities for preparation and performance of chamber music for strings including string quartets, trios, and more. Ensembles rehearse weekly with assigned faculty coaches and present performances of prepared music. The course is open to all music majors and to non-music majors by instructor permission. Students must have sophomore status and prior experience to take Upper Division ensembles. Students must be enrolled in at least one ensemble for full credit each semester. Additional ensembles may be taken for zero (0) units.

**Repeatable:** May be repeated for a maximum of twelve (12) units

**Grade Type:** Letter Grade

**Prerequisite(s):** MUS 095

**Concurrent Requisite(s):** MUS 079, 086, or 466

## **MUS 491B - Chamber Ensemble: Piano**

**Units: 0-1**

**When Offered:** Fall, Spring

The course is designed to provide musicians with the opportunity to explore chamber music involving the piano and other instruments. Various chamber ensembles may be formed including piano duets, trios, quartets, and quintets. Ensembles rehearse weekly, are provided coaching, and present performances of the music studied. The course is open to all music majors and to non-music majors by instructor permission. Students must have sophomore status and prior experience to take Upper Division ensembles. Students must be enrolled in at least one ensemble for full credit each semester. Additional ensembles may be taken for zero (0) units.

**Repeatable:** May be repeated for a maximum of (12) units

**Grade Type:** Letter Grade

**Prerequisite(s):** MUS 095

**Concurrent Requisite(s):** MUS

072, 079, 080, 081, 082, 083, 084, 085, 086, 087, 088, 089, 460, 461, 462, 463, 464, 465, 466, 467, 468, or 469

**MUS 491C - Chamber Ensemble: Guitar****Units: 0-1****When Offered:** Fall, Spring

The Guitar Ensemble studies and performs advanced music of different musical style periods and genres. Students will develop musical skills through weekly coaching, rehearsals, and performance. The ensemble is open to all music majors and to non-music majors by instructor permission. Students must have sophomore status and prior experience to take Upper Division ensembles. Students must be enrolled in at least one ensemble for full credit each semester.

Additional ensembles may be taken for zero (0) units.

**Repeatable:** May be repeated for a maximum of twelve (12) units

**Grade Type:** Letter Grade

**Prerequisite(s):** MUS 095

**Concurrent Requisite(s):** MUS 079, 088, or 468

**MUS 491D - Chamber Ensemble: Winds****Units: 0-1****When Offered:** Fall, Spring

The course is designed to provide musicians with the opportunity to explore chamber music written for various ensembles of wind instruments. Ensembles may include flute choir, clarinet choir, woodwind quintet, brass quintet, trombone choir, etc. Students will develop musical skills through weekly coaching, rehearsals, and performance. The ensemble is open to all music majors and to non-music majors by audition or instructor permission. Students must have sophomore status and prior experience to take Upper Division ensembles. Students must be enrolled in at least one ensemble for full credit each semester. Additional ensembles may be taken for zero (0) units.

**Repeatable:** May be repeated for a maximum of twelve (12) units

**Grade Type:** Letter Grade

**Prerequisite(s):** MUS 095

**Concurrent Requisite(s):** MUS 079, 084, 085, 464, or 465

**MUS 491E - Chamber Ensemble: Jazz Combo****Units: 0-1****When Offered:** Fall, Spring

Jazz Combo provides musicians with opportunities to study and perform standard, traditional, and contemporary jazz literature for small ensemble, and to develop individual improvisational skills. It is open to qualified students by audition or instructor's consent. Students must have sophomore status and prior experience to take Upper Division ensembles. Students must be enrolled in at least one ensemble for full credit each semester. Additional ensembles may be taken for zero (0) units.

**Repeatable:** May be repeated for a maximum of twelve (12) units

**Grade Type:** Letter Grade

**Prerequisite(s):** MUS 095 or 096

**Concurrent Requisite(s):** MUS

072, 079, 080, 081, 082, 083, 084, 085, 086, 087, 088, 089, 460, 461, 462, 463, 464, 465, 466, 467, 468, or 469

**MUS 491F - Chamber Ensemble: Jazz Ensemble****Units: 0-1****When Offered:** Fall, Spring

Jazz Ensemble provides musicians with opportunities to learn a variety of jazz styles in a "big band" setting, as well as

to enhance individual improvisational skills. This course also provides practical experience through rehearsals and performances. It is open to qualified students by audition or instructor's consent. Students must have sophomore status and prior experience to take Upper Division ensembles. Students must be enrolled in at least one ensemble for full credit each semester. Additional ensembles may be taken for zero (0) units.

**Repeatable:** May be repeated for a maximum of twelve (12) units

**Grade Type:** Letter Grade

**Prerequisite(s):** MUS 067, 096, or 097

**Concurrent Requisite(s):** MUS

072, 079, 080, 081, 082, 083, 084, 085, 086, 087, 088, 089, 460, 461, 462, 463, 464, 465, 466, 467, 468, or 469

## **MUS 491H - Chamber Ensemble: Chamber Singers**

**Units: 0-1**

**When Offered:** Fall, Spring

Chamber Singers gives experience in preparation and performance of recognized and new choral works as well as masterworks of Western music written for small choral ensembles. Students must have sophomore status and prior experience to take Upper Division ensembles. Students must be enrolled in at least one ensemble for full credit each semester. Additional ensembles may be taken for 0 units.

**Repeatable:** May be repeated for a maximum of twelve (12) units

**Grade Type:** Letter Grade

## **MUS 494 - Senior Recital and Project for Worship Arts**

**Units: 1**

**When Offered:** Fall, Spring

Worship Arts and Ministry students must plan, organize, lead, and execute a 60-minute senior recital or project. The vision of the event will be modeled after a "Night of Worship" setting and include select creative elements outside of music such as lighting, video, staging, and/or other artistic expressions. Student must complete Level 4 of the Worship Arts Proficiency.

**Grade Type:** Letter Grade

**Prerequisite(s):** Senior status

## **MUS 496 - Internship**

**Units: 3**

**When Offered:** Fall, Spring

Under faculty supervision, students will be assigned to positions in music industry related to their area of study. The internship provides breadth and depth in real-world experiences within businesses and organizations, allowing for application of concepts and skills.

**Grade Type:** Letter Grade

**Prerequisite(s):** Permission of the Dean

## **MUS 497 - Studio Production Project II**

**Units: 1**

**When Offered:** Fall, Spring

Students will record a 60-minute performance project of various ensemble configurations, including at least one soundscape. Selection of material and performance medium will be selected in coordination with the student's applied instructor.

**Grade Type:** Letter Grade

**Prerequisite(s):** MUS 397

# Network Administration and Management

## NAM 320 - Computer and Operating Systems Architecture

**Units:** 3

**When Offered:** As offered & Online

This course explores the theoretical and practical aspects of computer operating systems. Topics covered include the fundamentals of computer organization, operating system theory, operating system architecture, Windows and Mac operating systems, UNIX/LINUX operating systems, mobile device operating systems, file systems, virtualization, hardware, storage, resource sharing, network connectivity, power interfaces, system set-up, interfacing with peripherals, installing operating system software, system testing and debugging, troubleshooting, and the planning and installation of application software.

**Grade Type:** Letter Grade

## Nursing

### NUR 101 - Introduction to the Nursing Profession

**Units:** 1

**When Offered:** Fall, Spring, Summer, RN-BSN

The purpose of this course is to introduce students to the basic skills necessary for academic success in health-related professions, to review the numerous career options in the health professions, and to explore the students' calling and vocation. It will prepare students for entry into the nursing program by building the competencies necessary for gaining admission, successful progression, and considerations for entering the nursing profession.

**Grade Type:** Pass/Fail

### NUR 201 - Theoretical Foundations in Nursing

**Units:** 3

This course is designed to enhance an understanding of the history of the discipline and profession of nursing from a Biblical worldview. Parse's humanbecoming paradigm, the ethos of human dignity, and living quality will be explored. Students will discuss the phenomenon of interest in nursing- humanuniverse, assumptions, postulates, and concepts of Parse's theory and demonstrate true presence in the nurse-person relationship. Legal and ethical principles will be introduced.

**Grade Type:** Letter Grade

**Fee:** Additional equipment fee

**Prerequisite(s):** Permission of the Dean

### NUR 215 - Fundamental Skills for Nursing Practice

**Units:** 2

**When Offered:** Fall, Spring

This introductory course guides and prepares students to develop basic competencies necessary to meet the needs of diverse individuals throughout the lifespan. Using the nursing process, students learn concepts and theories basic to the art and science of nursing.

**Grade Type:** Letter Grade

**Lecture:** 2 hours/week theory

**Prerequisite(s):** Permission of the Dean

**Concurrent Requisite(s):** NUR 216



## **NUR 216 - Fundamental Skills for Nursing Practice Practicum**

**Units: 2**

**When Offered:** Fall, Spring

Practicum learning experience of fundamental evidence-based nursing. This introductory course guides and prepares students to develop the basic competencies necessary to meet the needs of diverse individuals throughout their lifespan. Using the nursing process, students learn concepts and theories basic to the art and science of nursing.

**Grade Type:** Letter Grade

**Practicum:** 6 hours/week practicum

**Prerequisite(s):** Permission of the Dean

**Concurrent Requisite(s):** NUR 215

## **NUR 235 - Physical Assessment**

**Units: 2**

**When Offered:** Fall, Spring

The course focuses on helping students acquire skills to conduct a comprehensive health assessment. The process of data collection, interpretation, documentation and dissemination of assessment data will be addressed. The practicum provides students with the opportunity to use interview, observation, percussion, palpation, inspection and auscultation in assessing clients across the lifespan in simulated and actual settings.

**Grade Type:** Letter Grade

**Lecture:** 2 hours/week theory

**Prerequisite(s):** Permission of the Dean

**Concurrent Requisite(s):** NUR 237

## **NUR 236 - Physical Assessment for the Licensed Registered Nurse**

**Units: 3**

**When Offered:** RN-BSN

Presentation of a disease process as it relates to findings in a comprehensive assessment is required. Students will be expected to look at vital statistics of disease and research results in a critical manner. The course focuses on helping students improve skills to conduct a comprehensive health assessment. The process of data collection, interpretation, documentation and dissemination of assessment data will be addressed. Students will have the opportunity to use interview, observation, percussion, palpation, inspection, and auscultation. The course will also explore faith integration and safely providing patient care with dignity, compassion and respect in all facets of the assessment process.

**Grade Type:** Letter Grade

**Prerequisite(s):** Admission into the RN-BSN program

## **NUR 237 - Physical Assessment Practicum**

**Units: 2**

**When Offered:** Fall, Spring

The course focuses on helping students acquire skills to conduct a comprehensive health assessment. The process of data collection, interpretation, documentation and dissemination of assessment data will be addressed. The practicum provides students with the opportunity to use interview, observation, percussion, palpation, inspection and auscultation in assessing clients across the lifespan in simulated and actual settings.

**Grade Type:** Letter Grade

**Practicum:** 6 hours/week practicum

**Prerequisite(s):** Permission of the Dean

**Concurrent Requisite(s):** NUR 235

## **NUR 255 - Adult Health I**

**Units: 4**

**When Offered:** Fall, Spring

This is the first of two Medical Surgical courses applying nursing theory and using evidence based clinical judgment in the care of adult clients with acute and chronic illnesses.

**Grade Type:** Letter Grade

**Prerequisite(s):** Permission of the Dean

**Pre- or Co- Requisite(s):** NUR 256

## **NUR 256 - Adult Health I Practicum**

**Units: 3**

**When Offered:** Fall, Spring

In this practicum course, learners will apply nursing theory and use evidence based clinical judgment in the care of adult clients with acute and chronic illnesses.

**Grade Type:** Letter Grade

**Practicum:** 9 hours/week practicum

**Prerequisite(s):** Permission of the Dean

**Pre- or Co- Requisite(s):** NUR 255

## **NUR 300 - Theoretical Foundations and Interprofessional Communication**

**Units: 4**

**When Offered:** RN-BSN

This course is designed to enhance an understanding of the history of the discipline and profession of nursing. Parse's humanbecoming paradigm, the ethos of human dignity, and living quality will be explored. Students will discuss the phenomena of interest in nursing- humanuniverse, assumptions, postulates, and concepts of Parse's theory and demonstrate true presence in the nurse-person relationship.

**Grade Type:** Letter Grade

**Prerequisite(s):** Admission into the RN-BSN program

## **NUR 301 - Communication and Informatics in Nursing Practice**

**Units: 3**

**When Offered:** Fall, Spring, RN-BSN

In this course healthcare informatics and interprofessional collaboration/ communication principles including values, attitudes, and beliefs will be explored within the healthcare delivery system. Legal and ethical principles of the role of the nursing professional will be introduced. Students will develop skills for information literacy and clinical documentation.

**Grade Type:** Letter Grade

**Prerequisite(s):** Permission of the Dean

## **NUR 315 - Pathophysiology**

**Units: 3**

**When Offered:** Fall, Spring, RN-BSN

Building on general principles of anatomy and physiology, students will develop an understanding of disease processes, prevention, clinical signs and symptoms, secondary effects and methods of treatment. Students will use evidence and vital statistics to explain normal and abnormal findings and link abnormal findings with disease processes.

**Grade Type:** Letter Grade

**Prerequisite(s):** Permission of the Dean

## **NUR 318 - PathoPharm I**

**Units:** 3

**When Offered:** Fall, Spring

This is the first of two courses that will support the integrated learning of pathophysiology and pharmacology where students will learn the most common diseases and drugs used to treat these diseases in a manner that promotes clinical reason and judgement. Building on general principles of anatomy and physiology, students will develop an understanding of disease processes, prevention, clinical signs & symptoms, and secondary effects. Methods of non-pharmacological and pharmacological treatment will be discussed. Curriculum will focus on integration of disease processes, drug therapies, adverse effects and nursing considerations when providing evidence-based care.

**Grade Type:** Letter Grade

**Prerequisite(s):** Permission of the Dean

## **NUR 319 - PathoPharm II**

**Units:** 3

**When Offered:** Fall, Spring

This is the second of two courses building on the principles of PathoPharm I. Students will continue integrated learning of pathophysiology and pharmacology. They will continue to develop an understanding of disease processes, prevention, clinical signs, and symptoms not covered in PathoPharm I. They will demonstrate connections between pathophysiology, signs and symptoms of disease processes, and methods of treatment. Curriculum will further develop an understanding of critical thinking related to prioritizing needs according to health conditions and safely administering medications.

**Grade Type:** Letter Grade

**Prerequisite(s):** NUR 318 and permission of the Dean

## **NUR 325 - Nursing Services with the Childbearing Family**

**Units:** 3

**When Offered:** Fall, Spring

This course emphasizes applying nursing theory and evidenced based clinical judgment in the care of low and high-risk antepartum, intrapartum, neonatal clients, and their families. The focus is on health promotion, risk reduction, family planning, and disease prevention.

**Grade Type:** Letter Grade

**Prerequisite(s):** Permission of the Dean

**Pre- or Co- Requisite(s):** NUR 326

## **NUR 326 - Nursing Services with the Childbearing Family Practicum**

**Units:** 2

**When Offered:** Fall, Spring

In this practicum course students will use theory and evidenced based clinical judgment in the care of low and high-risk antepartum, intrapartum, postpartum, and neonatal clients.

**Grade Type:** Letter Grade

**Practicum:** 6 hours/week practicum

**Prerequisite(s):** Permission of the Dean

**Pre- or Co- Requisite(s):** NUR 325

## **NUR 327 - Health Assessment and Promotion**

**Units: 4**

**When Offered:** Fall, Spring, Summer, RN-BSN

The course is designed to improve knowledge, skills, and attitudes related to health promotion, the early detection of illness and disease prevention within diverse populations. Techniques of interview, observation, percussion, palpation, inspection, and auscultation to perform a comprehensive assessment are demonstrated. The process of data collection, interpretation, documentation and dissemination of assessment findings are covered. Presentation of a disease process and integration of health promotion strategies as it relates to the findings of a comprehensive assessment is required.

**Grade Type:** Letter Grade

**Prerequisite(s):** Admission into the RN-BSN program

## **NUR 335 - Nursing Services with the Childrearing Family**

**Units: 3**

**When Offered:** Fall, Spring

This course applies nursing theory and uses evidence-based clinical judgment in the care of children and adolescents with acute and chronic illnesses. Focus will be upon child growth and development and family-centered care.

**Grade Type:** Letter Grade

**Prerequisite(s):** Permission of the Dean

**Pre- or Co- Requisite(s):** NUR 336

## **NUR 336 - Nursing Services with Childrearing Families Practicum**

**Units: 2**

**When Offered:** Fall, Spring

This practicum focuses on the application of nursing theory and nurse-family processes in providing evidence-based nursing services to children, adolescents, and their families. The course emphasizes clinical judgment in providing health promotion, disease prevention, and nursing care of pediatric clients with acute and chronic illnesses in diverse settings.

**Grade Type:** Letter Grade

**Practicum:** 6 hours/week practicum

**Prerequisite(s):** Permission of the Dean

**Pre- or Co- Requisite(s):** NUR 335

## **NUR 355 - Mental Health Nursing**

**Units: 3**

**When Offered:** Fall, Spring

Introduction to mental health nursing services and nurse-person and nurse-group communication patterns. Focus is on interdisciplinary collaboration, teaching-learning, and change-persistence patterns with health promotion, disease prevention, and care of individuals, families, and communities with acute and chronic mental health conditions. Nursing services with special populations including the homeless and issues regarding abuse, neglect, trauma, and substance abuse are explored.

**Grade Type:** Letter Grade

**Prerequisite(s):** Permission of the Dean

**Pre- or Co- Requisite(s):** NUR 356

## **NUR 356 - Mental Health Nursing Practicum**

**Units: 2****When Offered:** Fall, Spring

Practicum learning experience of nursing services with persons who have the medical diagnosis of mental illness in both inpatient and community treatment settings. Focus is on the changing healthcare systems and collaborative health promotion and disease prevention, as well as the nurse-person, nurse-group, nurse-community patterns of relating, and care of individuals and families with acute and chronic mental health problems.

**Grade Type:** Letter Grade**Practicum:** 6 hours/week practicum**Prerequisite(s):** Permission of the Dean**Pre- or Co- Requisite(s):** NUR 355

## **NUR 375 - Research and Writing for the Health Care Professional**

**Units: 3****When Offered:** Fall, Spring, RN-BSN

This course introduces research skills and scholarly writing. Students learn to appraise and integrate research as it applies to nursing practice. The course will explore the development of nursing knowledge emphasizing current literature and recognizing research methods and designs. The goal is to aid the student to critically evaluate and apply nursing research.

**Grade Type:** Letter Grade**Prerequisite(s):** Permission of the Dean

## **NUR 400 - Special Topics in Nursing**

**Units: 1-4****When Offered:** As offered

This course offers a concentration upon a specific topic in the field of nursing. The topic varies by semester.

**Repeatable:** May be repeated for credit with change in topic**Grade Type:** Letter Grade**Prerequisite(s):** Permission of the Dean

## **NUR 420 - Community and Public Health Nursing**

**Units: 3****When Offered:** Fall, Spring, RN-BSN

The course focuses on theoretical concepts related to the role of the community/public health nurse as a collaborator within the healthcare setting. Determinants of health for aggregate and vulnerable populations will be explored. The community/public health nurse as a change agent at the local, national, and global policy level will be examined. This course meets the state published mandated reporting requirements for abuse and neglect of at-risk populations.

**Grade Type:** Letter Grade**Prerequisite(s):** Permission of the Dean**Pre- or Co- Requisite(s):** NUR 421

## **NUR 421 - Community and Public Health Nursing Practicum**

**Units: 3****When Offered:** Fall, Spring, RN-BSN

Students will apply community/public health course information in a variety of community-based settings. Practicum experiences will include discussion of health promotion and disease prevention, case management, community assessment, and interdisciplinary project development. This course, together with the didactic course, will prepare the student to be eligible to apply for a Public Health Certificate after graduation. Students may only earn credit for NUR 421 or 421G.

**Grade Type:** Letter Grade  
**Practicum:** 9 hours/week practicum  
**Prerequisite(s):** Permission of the Dean  
**Pre- or Co- Requisite(s):** NUR 420

## **NUR 421G - Community and Public Health Nursing Global Experience**

**Units:** 3

**When Offered:** Fall, Spring, RN-BSN

Students will apply community/public health course information in a variety of community-based settings. Practicum experiences will include discussion of health promotion and disease prevention, case management, community assessment, and interdisciplinary project development. This course, together with the didactic course, will prepare the student to be eligible to apply for a Public Health Certificate after graduation. This course has an academic service learning component. Students may only earn credit for NUR 421 or 421G.

**Grade Type:** Letter Grade

**Practicum:** 9 hours/week practicum

**Fee:** Additional trip fee(s)

**Prerequisite(s):** Permission of the Dean

**Pre- or Co- Requisite(s):** NUR 420

## **NUR 430 - Transcultural Patterns of Health**

**Units:** 3

**When Offered:** Fall, Spring, RN-BSN

This course examines cultural nursing theories and worldviews impacting healthcare decisions. Through critical reflection, students will integrate knowledge of cultures and worldviews to improve their communication, minimize cultural distress, and improve practice. Potential barriers to cultural care, ethical issues, and complimentary practices will be evaluated. Students may only earn credit for NUR 430 or 430G.

**Grade Type:** Letter Grade

**Practicum:** 9 hours/week practicum

**Prerequisite(s):** Permission of the Dean

## **NUR 430G - Transcultural Patterns of Health Global Experience**

**Units:** 3

**When Offered:** Fall, Spring, RN-BSN

This course examines cultural nursing theories and worldviews impacting healthcare decisions. Through critical reflection, students will integrate knowledge of cultures and worldviews to improve their communication, minimize cultural distress, and improve practice. Potential barriers to cultural care, ethical issues, and complimentary practices will be evaluated. This course has an academic service learning experience. Students may only earn credit for NUR 430 or 430G.

**Grade Type:** Letter Grade

**Practicum:** 9 hours/week practicum

**Fee:** Additional trip fee(s)

**Prerequisite(s):** Permission of the Dean

## **NUR 431 - Global Service-Learning in Nursing: Core Concepts**

**Units:** 3

**When Offered:** As offered

This is the first of three courses in the Global Integration Studies: Global Health Nursing Minor. This course begins to prepare the student for engaging in healthcare globally. It provides a solid foundation of the concepts of cultural

awareness, cultural knowledge, cultural skill, cultural encounters and cultural desire based on Campinah-Bacote's (2002) definition of cultural competence. Using Biblical principles and Parse's Humanbecoming School of Thought (1998), students will develop the skills needed to provide relevant and meaningful nursing care to members of various population groups.

**Grade Type:** Letter Grade

**Prerequisite(s):** Previous ISP experience

## **NUR 432 - Global Service-Learning in Nursing: Advanced Concepts**

**Units:** 3

**When Offered:** As offered

This is the second of three courses in the Global Integration Studies: Global Health Nursing Minor. Building upon the Core Concepts of Global Service Learning in Nursing, students will compare and contrast nursing, healthcare and healthcare systems nationally and globally. This course will incorporate frameworks for Global Service Learning in Nursing from the National League of Nursing, Center for Disease Control and World Health Organization. Using Biblical principles and Parse's Humanbecoming School of Thought (1998), students will develop a plan to provide relevant and meaningful nursing care to members of specific population groups.

**Grade Type:** Letter Grade

**Prerequisite(s):** NUR 431 and permission of the Dean

## **NUR 433 - Global Service-Learning in Nursing: Immersion Practicum**

**Units:** 3

**When Offered:** As offered

This is the third of three courses in the Global Integration Studies: Global Health Nursing Minor. Building upon the Core and Advanced Concepts of Global Service Learning in Nursing, students will apply cultural awareness, cultural knowledge, cultural skill, cultural encounters and cultural desire based on Campinah-Bacote's (2002) definition of cultural competence to a specific global nursing population. Using Biblical principles and Parse's Humanbecoming School of Thought (1998), students will implement a plan to provide relevant and meaningful nursing care to members of specific population groups. Involves travel as a group to selected local areas inside and/or outside of the U.S.

**Grade Type:** Letter Grade

**Practicum:** 9 hours/week practicum

**Prerequisite(s):** NUR 431, 432, and permission of the Dean

## **NUR 440 - Adult Health II**

**Units:** 4

**When Offered:** Fall, Spring

This is the second of two Medical Surgical courses analyzing nursing theory and applying evidence based clinical judgment in the care of adult clients with complex acute and chronic illnesses.

**Grade Type:** Letter Grade

**Prerequisite(s):** Permission of the Dean

**Pre- or Co- Requisite(s):** NUR 441

## **NUR 441 - Adult Health II Practicum**

**Units:** 3

**When Offered:** Fall, Spring

In this practicum course, learners will analyze nursing theory and apply evidence based clinical judgment in the care of adult clients with complex acute and chronic illnesses.

**Grade Type:** Letter Grade

**Practicum:** 9 hours/week practicum

**Prerequisite(s):** Permission of the Dean

**Pre- or Co- Requisite(s):** NUR 440

## **NUR 450 - Nursing Services for the Older Adult and Family**

**Units:** 2

**When Offered:** Fall, Spring

This course focuses on the provision of nursing care for the aging population. Expected and unexpected health-related changes of older adults are explored. Emphasis is on living quality in health promotion and disease prevention. This course will examine how ageism impacts care of the older adult.

**Grade Type:** Letter Grade

**Prerequisite(s):** Permission of the Dean

**Pre- or Co- Requisite(s):** NUR 451

## **NUR 451 - Nursing Practicum with the Older Adult and Family**

**Units:** 1

**When Offered:** Fall, Spring

This practicum allows students to provide nursing care for the aging population with expected and unexpected health-related changes. Students will participate in health promotion and disease prevention activities in a variety of settings.

**Grade Type:** Letter Grade

**Practicum:** 3 hours/week practicum

**Prerequisite(s):** Permission of the Dean

**Pre- or Co- Requisite(s):** NUR 450

## **NUR 460 - Ethics and Issues in Health Care**

**Units:** 3

**When Offered:** Fall, Spring, RN-BSN

The course is designed to explore the meaning of becoming a member of the nursing profession. The philosophical and ethical aspects of the professional role of the Registered Nurse are examined. Emphasis is placed on current issues of professionalism, legal accountability and responsibility, liability, advocacy, collaboration, and ethical responsibilities of decision making within complex healthcare systems.

**Grade Type:** Letter Grade

**Prerequisite(s):** Permission of the Dean

## **NUR 470 - Christian Leadership in Nursing**

**Units:** 3

**When Offered:** Fall, Spring, RN-BSN

This course emphasizes principles of nursing leadership and clinical reasoning to promote safe, quality patient care in a variety of settings. Leadership skills include prioritization, delegation, negotiation, collaboration, and coordination. Roles include provider and manager of nursing care in an interprofessional environment. Specific focus will be on transition to practice as an entry-level professional nurse.

**Grade Type:** Letter Grade

**Prerequisite(s):** Permission of the Dean

**Pre- or Co- Requisite(s):** NUR 471

## **NUR 471 - Christian Leadership in Nursing Practicum**



**Units: 2****When Offered:** Fall, Spring, RN-BSN

This practicum allows students to demonstrate principles of nursing leadership and clinical reasoning to promote safe, quality patient care in a variety of settings. Prioritization, delegation, negotiation, collaboration, and coordination will be emphasized. This practicum culminates in a project designed to improve outcomes in health promotion and disease prevention.

**Grade Type:** Letter Grade**Practicum:** 6 hours/week practicum**Prerequisite(s):** Permission of the Dean**Pre- or Co- Requisite(s):** NUR 470**NUR 494 - NCLEX Review****Units: 1****When Offered:** Fall, Spring

This course prepares students to pass the NCLEX-RN.

**Grade Type:** Letter Grade**Prerequisite(s):** Permission of the Dean**NUR 498 - Senior Capstone Practicum****Units: 2****When Offered:** As offered

LVN thirty (30) unit option only. This practicum course focuses on the roles and responsibilities of a new graduate professional nurse. The course provides an opportunity for the student to further develop appropriate leadership and practice nursing skills necessary for the beginning practitioner role. It also facilitates synthesis for nursing knowledge and skills acquired in previous LVN option courses for the provision of nursing care to individuals and families.

**Grade Type:** Letter Grade**Practicum:** 6 hours/week of practicum**NUR 499 - Senior Capstone Practicum****Units: 3****When Offered:** Fall, Spring, RN-BSN

This final course practicum focuses on knowledge synthesis and role-readiness of a new graduate nurse. Clinical opportunities are provided utilizing preceptor partnerships to further develop leadership and nursing skills necessary for transition to practice.

**Grade Type:** Letter Grade**Practicum:** 9 hours/week practicum**Prerequisite(s):** Permission of the Dean**Nutrition and Food Sciences****NFS 100 - Nutrition Basics for Sport Performance****Units: 1****When Offered:** Fall

Course covers key topics of nutrition for student athletes outlined in the LANCERS' Fuel Student Athlete Nutrition Manual. Course includes didactic and personalized learning experiences in nutritional and dietary assessments targeted to enhance healthy eating practices that support cognitive function and athletic practice while promoting proper

nourishment of the body to optimize performance levels.

**Grade Type:** Pass/Fail

## **NFS 101 - Introduction to Nutrition and Food Sciences**

**Units:** 3

**When Offered:** Fall, Spring

This class provides an introduction to the fundamental principles of normal nutrition, food science and their relation to the health and physical fitness of individuals. Also includes a discussion of the career opportunities within nutrition and sciences, and the computer software pertinent to the field.

**Grade Type:** Letter Grade

## **NFS 300 - Lifecycle Nutrition**

**Units:** 3

**When Offered:** Fall

This class will provide a rapidly moving study of nutrition in the lifecycle from infancy through advancing years. Emphasis will be placed on the application of nutritional requirements and guidelines in each age group to dietary planning and intake.

**Grade Type:** Letter Grade

## **NFS 310 - Community and Public Health Nutrition**

**Units:** 3

**When Offered:** Fall, Spring

Study of the community-based programs with nutrition components, including work-site wellness, health promotion, schools, day-care programs, and health clinics. Programs in these areas include nutrition screening and assessment, feeding programs and assistance, plus health promotion and disease prevention.

**Grade Type:** Letter Grade

## **NFS 315 - Experimental Foods**

**Units:** 3

**When Offered:** Spring

Students will learn to apply basic nutrition and food science research designs to conduct experiments, interpret data, and write reports. The techniques used in the planning, preparation, development, and evaluation of new food products will be covered.

**Grade Type:** Letter Grade

**Pre- or Co- Requisite(s):** NFS 101

## **NFS 320 - Nutritional Biochemistry**

**Units:** 3

**When Offered:** Spring

Introduction to biochemistry with particular emphasis on nutrition and its effect on metabolism.

**Grade Type:** Letter Grade

**Prerequisite(s):** NFS 101

## **NFS 335 - Food Chemistry**

**Units: 3****When Offered:** As offered

This course provides an introduction to theories on the molecular bases of chemical phenomena that dictate the behavior of foods. This is an integrated lecture and lab course. Laboratory sections will provide opportunities for students to observe, manipulate, and explore model food systems. The emphasis is on the major food components (water, lipids, proteins, and carbohydrates) and how these food components behave under conditions of particular relevance to food processing.

**Grade Type:** Letter Grade**Prerequisite(s):** CHE 115, 115L, and NFS 101

## **NFS 345 - Food Processing and Engineering**

**Units: 3****When Offered:** As offered

This course examines the application of principles related to the conversion of raw materials into food products. Students will be exposed to principles and practices of food processing unit operations including materials handling, mixing, heating and cooling, quality control, packaging, food quality, and food safety.

**Grade Type:** Letter Grade**Prerequisite(s):** NFS 101

## **NFS 355 - Food Sensory Analysis**

**Units: 3****When Offered:** As offered

This course emphasizes the principles and applications of instrumental methods for qualitative and quantitative analysis used in the physical, chemical, and instrumental examination of food products. The basic analytical tools for determination of moisture, proteins, carbohydrates, lipids, minerals, and vitamins in food systems are introduced. Sensory methods are also employed in planning, preparation, developing new products, and evaluation of food products.

**Grade Type:** Letter Grade

## **NFS 400 - Special Topics in Nutrition and Food Sciences**

**Units: 3****When Offered:** Fall

This course will teach advanced topics in specialized nutrition and food sciences areas such as sports nutrition, quantity foods, planning therapeutic diets, maternal and child nutrition, personal nutrition, nutrient-drug interactions, food safety, and current issues. The specific topic will be announced each semester.

**Grade Type:** Letter Grade**Prerequisite(s):** NFS 101

## **NFS 420 - Quantity Food Management**

**Units: 3****When Offered:** Spring

The course will focus on the planning and execution of large quantity food production operations and banqueting in various food service environments. The student will obtain hands on experience in the management of large kitchens such as institutional, banquet, and a la carte restaurants.

**Grade Type:** Letter Grade

## **NFS 445 - Food Microbiology**

**Units: 3****When Offered:** As offered

This course covers the nature, physiology, and interactions of microorganisms in foods including foodborne diseases, effects of food processing on the microflora of foods, food preservation, food spoilage, and foods produced by microorganisms. Analytical techniques in detecting and quantitating microorganisms and their toxins in foods will be practiced.

**Grade Type:** Letter Grade**Prerequisite(s):** BIO 205 and NFS 101**NFS 455 - Medical Nutrition Therapy I****Units: 3****When Offered:** Fall

This course provides a scientific basis for introduction to biochemistry and physiology of human chronic diseases, cardiovascular disease, diabetes, renal disease, cancer, metabolic disorders, with emphasis on nutrition-related principles and intervention.

**Grade Type:** Letter Grade**Pre- or Co- Requisite(s):** NFS 320**NFS 460 - Human Nutrition Assessment Lecture****Units: 3****When Offered:** Spring

Scientific study on basis of nutritional assessment using anthropometric, dietary, biochemical, and clinical tests and criteria.

**Grade Type:** Letter Grade**Prerequisite(s):** NFS 101**NFS 465 - Medical Nutrition Therapy II****Units: 3****When Offered:** Spring

This course provides an advanced level of understanding of biochemistry, physiology, pathology of human chronic diseases, cardiovascular disease, diabetes, renal disease, cancers, metabolic disorders, with emphasis on nutrition-related mechanisms, metabolisms, and clinical interventions.

**Grade Type:** Letter Grade**Prerequisite(s):** NFS 320 and 455**NFS 475 - Advanced Human Nutrition****Units: 3****When Offered:** Spring

Advanced-level nutrition biochemistry with particular emphasis on micro-nutrients, their roles in physiological metabolism, energy balance, physical activity, disease prevention, and emerging issues in maternal nutrition and offspring disease development will be covered.

**Grade Type:** Letter Grade**Prerequisite(s):** NFS 320 and Senior status**NFS 491 - Internship in Nutrition and Food Sciences**

**Units: 1-4****When Offered:** Fall, Spring, Summer

An internship provides nutrition and food sciences majors with valuable experience through working with professionals in their chosen field of study. Three (3) hours per week for 14 weeks of on-site work, observation, or participation are required for each unit of credit and 1-4 units may be taken in any one semester.

**Repeatable:** May be repeated for a maximum of six (6) units**Grade Type:** Letter Grade**Prerequisite(s):** Nutrition and Food Sciences major and Junior status

## **Organizational Leadership**

### **ORG 300 - Introduction to Leadership**

**Units: 3****When Offered:** As offered & Online

This course examines fundamental principles of leadership and the relation in practice to becoming a more effective leader. In an effort to understand the practical application of leadership, students will examine leadership traits and styles, balancing tasks and relationships, engaging strengths, creating a vision, establishing a constructive climate, embracing diversity and inclusion, managing conflict, addressing ethics, and overcoming obstacles. This introductory course will provide the necessary platform for students to understand what it takes to lead.

**Grade Type:** Letter Grade

### **ORG 340 - Conflict Resolution and Negotiation for Leaders**

**Units: 3****When Offered:** As offered & Online

This course examines information about negotiation and conflict-resolution topics and provides concrete examples of strategies and tactics in action for leaders. With a blend of description, theory, skill development, insight, and prescription students gain will gain a foundation in negotiation and conflict resolution with a strong applied focus from a leadership perspective.

**Grade Type:** Letter Grade

### **ORG 452 - Change Management and Organizational Design**

**Units: 3****When Offered:** As offered & Online

This course examines the contemporary treatment of the way leaders attempt to increase organizational effectiveness by making organizational change the centerpiece in a larger discussion of organizational theory and design. Students will make the connection between concepts and the real-world implications and application of leading rapid change and organizational design. General areas of concentration include the organization and its environment, organizational design, and the complexity and ambiguity surrounding organizational change.

**Grade Type:** Letter Grade

### **ORG 475 - Strategic Project Management for Leaders**

**Units: 3****When Offered:** As offered & Online

This course examines how leaders can approach all projects from a strategic perspective. Students will develop a strategic project mindset, visualize project strategy, learn to speak a common language, and explore a logical framework approach. The primary focus will be on putting these concepts into practice.

**Grade Type:** Letter Grade

# Philosophy

## PHI 104 - Special Studies in Philosophy

**Units: 1**

**When Offered:** As offered

An examination of specific areas of Philosophy.

**Repeatable:** May be repeated for credit with change in topic

**Grade Type:** Letter Grade

## PHI 200 - Special Studies

**Units: 3**

**When Offered:** Fall, Spring

Concentration on specific philosophical areas such as particular periods, traditional philosophical classifications, or individual philosophers.

**Repeatable:** May be repeated for credit with change in topic

**Grade Type:** Letter Grade

## PHI 213 - Introduction to Philosophy

**Units: 3**

**When Offered:** Fall, Spring, & Online

This course introduces students to the meaning and basic categories of philosophy such as epistemology and philosophy of religion. This is accomplished through an exploration of the primary issues and central figures within the discipline. Particular relevance is given to the development of a Christian worldview and the role philosophy plays in life and culture.

**Grade Type:** Letter Grade

## PHI 300 - Logic

**Units: 3**

**When Offered:** Fall

A systematized study of the canons and criteria of validity in thought and its rational expression by considering the processes of reasoning and inference with applications in propositional logic, natural deduction, predicate logic, and induction.

**Grade Type:** Letter Grade

**Prerequisite(s):** HON 101, PHI 213 or WLD 181

## PHI 301 - History of Western Philosophy I

**Units: 3**

**When Offered:** Fall

This course traces the development of western philosophy from the Pre-Socratic thinkers through Immanuel Kant. Emphasis is placed on both interacting with primary source material and on understanding the broad trajectory, and paradigmatic shifts, that have shaped Western thought and culture.

**Grade Type:** Letter Grade

## PHI 302 - History of Western Philosophy II

**Units: 3**

**When Offered:** Spring

This class considers the formative philosophical movements and thinkers of the 19th and 20th centuries. Emphasis is placed on both interacting with primary source material and on understanding the paradigmatic and cultural shifts brought about by the rejection of, and responses to, Classical and Modern philosophy.

**Grade Type:** Letter Grade

## **PHI 303 - Apologetics**

**Units: 3**

**When Offered:** Fall

This course will examine the emergence of apologetics within the life of the church, highlight various approaches, arguments, and central figures, and the role of apologetics in development of a Christian worldview.

**Grade Type:** Letter Grade

**Prerequisite(s):** HON 101, PHI 213 or WLD 181

## **PHI 304 - Special Studies in Philosophy**

**Units: 1**

**When Offered:** As offered

An examination of specific areas of Philosophy.

**Repeatable:** May be repeated for credit with change in topic

**Grade Type:** Letter Grade

## **PHI 312 - Beauty**

**Units: 3**

**When Offered:** Spring

An introduction to philosophical aesthetics, which has been marginalized and often ignored in philosophical discourse during the past four hundred years. During the last few decades the questions posed by aesthetics have moved back into the center of the philosophical discussion, including the use of the concept by "post-modern" thinkers. The course seeks to bring the student into the longer conversation concerning beauty, "retrieve" important elements that have been lost, and provide a basis for further study.

**Grade Type:** Letter Grade

**Prerequisite(s):** ARC 210, ART 242, DES 310, FLM 250, GDM 310, HON 101, ILL 210, PHI 213, PHO 330, or WLD 181

## **PHI 320 - Knowledge**

**Units: 3**

**When Offered:** Spring (odd years)

This course is a study of the perennial questions in the philosophical discipline of Epistemology, or Theory of Knowledge. It provides an introduction to the major parts of an account of knowledge including the nature of belief, justification, and truth. In addition, this course surveys various problems including skepticism, relativism, and the objectivity of knowledge.

**Grade Type:** Letter Grade

**Prerequisite(s):** HON 101, PHI 213 or WLD 181

## **PHI 323 - Ethics**

**Units: 3****When Offered:** Fall (even years)

This course is an appraisal of the major metaethical positions within Western philosophy such as deontological, utilitarian, and virtue ethics in light of the Christian worldview for the purpose of analyzing and synthesizing theories regarding human conduct. Attention is given to major figures in the history of ethics as well as the nature of ethical language and the concept of value.

**Grade Type:** Letter Grade**Prerequisite(s):** HON 101, PHI 213 or WLD 181**PHI 324 - Applied Ethics****Units: 3****When Offered:** Fall (odd years)

An exploration of the application of various metaethical theories to ethical questions and issues that arise in various arenas of life. The study involves both the examination of methods as well as cases.

**Grade Type:** Letter Grade**PHI 353 - Comparative Religions****Units: 3****When Offered:** Fall, Spring, & Online

This course is an introduction to the major religious traditions of the world, particularly Hinduism, Buddhism, Judaism, Christianity, and Islam. The historical development and key figures, as well as major doctrines and practices are explored.

**Grade Type:** Letter Grade**PHI 363 - Reality****Units: 3****When Offered:** Spring (even years)

This course is a study of the basic questions regarding reality as they have developed within Western philosophy. The study will examine such topics as matter, form, substance, and existence, and such movements as idealism, nominalism, realism, and materialism.

**Grade Type:** Letter Grade**Prerequisite(s):** HON 101, PHI 213 or WLD 181**PHI 399 - Independent Study****Units: 3**

A course of study designed to afford superior students an opportunity to pursue independent work in an area of their personal interest. Supervision and evaluation provided by assigned Philosophy department faculty.

**Grade Type:** Letter Grade**PHI 400 - Special Studies****Units: 3****When Offered:** Fall

Concentration on specific philosophical areas such as particular periods, traditional philosophical classifications, or individual philosophers.

**Repeatable:** May be repeated for credit with change in topic**Grade Type:** Letter Grade



## **PHI 482 - Bioethics**

**Units:** 3

**When Offered:** Spring (odd years)

This course surveys the philosophical foundations for Christian morality and addresses a variety of contemporary bioethical issues, such as cloning, human enhancement, euthanasia, and disability.

**Grade Type:** Letter Grade

## **PHI 499 - Senior Project**

**Units:** 3

**When Offered:** Spring

A senior capstone course designed to demonstrate the competence of Philosophy majors in the discipline and showcase their research and writing skills. The portfolio produced by the student in completion of this project must conform to the departmental guidelines for Senior Projects.

**Grade Type:** Letter Grade

**Fee:** Additional course fee

**Prerequisite(s):** Senior status

## **Photography**

### **PHO 105 - Digital Photography**

**Units:** 3

**When Offered:** Fall, Spring

Students will understand, and become comfortable, with the foundational use of the camera by understanding exposure through metering and the relationship between - ISO, Aperture, and Shutter Speed. Students will begin to implement foundational design elements through composition, and compression through different lens focal lengths. Students will produce and analyze photographs by employing professional photographic techniques and the introduction of a digital workflow.

**Grade Type:** Letter Grade

**Fee:** Additional course fee

### **PHO 110 - Commercial Photography**

**Units:** 3

**When Offered:** Fall

This course surveys contemporary genres within Commercial Photography. While introducing the practical skills of production and conceptual development, students will work to plan and execute camera-based assignments in the areas of editorial and advertising photography.

**Grade Type:** Letter Grade

**Fee:** Additional course fee

**Prerequisite(s):** PHO 105

### **PHO 120 - Fine Art Photography**

**Units:** 3

**When Offered:** Spring

This introductory course explores the conceptual and expressive principals of Fine Art Photography through lectures, discussions, assignments and field trips. Students will submit their work for critique, refining the theoretical and practical skills needed to create meaningful imagery.

**Grade Type:** Letter Grade  
**Fee:** Additional course fee  
**Prerequisite(s):** PHO 105 and 140

## **PHO 140 - History of Photography**

**Units:** 3

**When Offered:** Fall, Spring

This course follows movements and themes in the history of photography from its inception at the turn of the 19th century to today. In this class, students will identify key works and discuss their significance in a historical context. On a more theoretical level, photography will be observed as cultural production that shapes personal and political ideology. Photographic examples will be presented from photojournalism, documentary, fine art, advertising, fashion and academia to more vernacular uses in everyday life. Through readings, discussions and assignments students will build the visual literacy needed to experience, understand and analyze images.

**Grade Type:** Letter Grade

**Fee:** Additional course fee

## **PHO 200 - Special Topics in Photography**

**Units:** 3

**When Offered:** As offered

This course focuses on different topics in the field of photography each time it is offered.

**Repeatable:** May be repeated three (3) times for credit with change in topic

**Grade Type:** Letter Grade

## **PHO 250 - Post-Production**

**Units:** 3

**When Offered:** Spring

Through this course students will develop the technical foundation needed to process and retouch images with Adobe Lightroom and Photoshop. Students will build a professional workflow utilizing digital asset management, image selection, and global adjustments with non-destructive methods. Further pixel adjustments will be made within Photoshop for advanced retouching.

**Grade Type:** Letter Grade

**Fee:** Additional course fee

**Prerequisite(s):** PHO 105

## **PHO 310 - Process and Practice**

**Units:** 3

**When Offered:** Spring

This course further explores the medium of photography specific to commercial, fine art, and social practice. Students will begin focusing on a body of work specific to their genre of photography. Further refinement through technical demonstrations and critique will allow students to begin to define an artistic style that is viable within their intended marketplace.

**Grade Type:** Letter Grade

**Fee:** Additional course fee

**Prerequisite(s):** PHO 350

## **PHO 330 - Visual Storytelling**

**Units: 3**

**When Offered:** Fall

This course integrates a conceptual framework and narrative structure into the photographic process. Utilizing color, design and visual communication skills to evoke emotion, students will learn how narrative shapes messaging. The course supports students involved in a wide range of photographic disciplines where visual storytelling is critical to a work's reception.

**Grade Type:** Letter Grade

**Fee:** Additional course fee

**Prerequisite(s):** PHO 310

## **PHO 332 - Studio Lighting**

**Units: 3**

**When Offered:** Spring

This course will implement a practical workflow within a controlled space, utilizing the tools and techniques of studio photographers. Students will gain an understanding of light quality and how it relates to ideas, and the emotional depiction of a subject. Students will understand how to craft their lighting to the specific subject they are photographing. Labs will be hands-on, integrating professional studio practices for digital capture and utilizing industry-wide workflow standards related to the latest software and hardware.

**Grade Type:** Letter Grade

**Fee:** Additional course fee

**Prerequisite(s):** PHO 350

## **PHO 350 - Digital Printing and Color Management**

**Units: 3**

**When Offered:** Fall

This course presents students with the digital workflow techniques needed to produce archival photographs. File preparation, resolution selection, print-profiling, paper selection and soft-proofing techniques will be covered. Students will learn the techniques of digital color management by applying color profiles to produce archival prints for the purpose of promotional, gallery, and printed portfolios.

**Grade Type:** Letter Grade

**Fee:** Additional course fee

**Prerequisite(s):** PHO 250 or GDM 235

## **PHO 400 - Special Topics in Photography**

**Units: 3**

**When Offered:** Spring

This course focuses on different topics in the field of photography each time it is offered.

**Repeatable:** May be repeated for a maximum of nine (9) units with change in topic

**Grade Type:** Letter Grade

**Fee:** Additional course fee

**Prerequisite(s):** PHO 350

## **PHO 415 - Context and Narrative**

**Units: 3**

**When Offered:** Spring

Students will apply their knowledge of photographic processes and visual storytelling to the development of a cohesive and professional body of work as their authentic voice. Emphasis is on advanced level conceptual development, contextual research, image making, and critique. Resulting in an approved proposal allowing them to proceed with

their senior project.

**Grade Type:** Letter Grade

**Fee:** Additional course fee

**Prerequisite(s):** PHO 330

## **PHO 432 - Location Lighting**

**Units:** 3

**When Offered:** Fall

Students will be able to approach locations efficiently to determine what artificial lighting methods to introduce, to create technically refined photographs. While also introducing these techniques creatively to further demonstrate mastery of photography through the use of location lighting.

**Grade Type:** Letter Grade

**Fee:** Additional course fee

**Prerequisite(s):** PHO 332

## **PHO 433 - Studio Practice**

**Units:** 3

**When Offered:** Fall

This course will address project cohesiveness, work quality, concept and process through critique and feedback. Students will apply all skills and theory learned to further define a contextual response to their photographic narrative. Students will demonstrate a detailed understanding of the photographic process including research, concept, design and documentation in preparation for their final presentation.

**Grade Type:** Letter Grade

**Fee:** Additional course fee

**Prerequisite(s):** PHO 415

## **PHO 450 - Digital Asset Management**

**Units:** 3

**When Offered:** Spring

Students will curate, control, and communicate their photographic library by gathering and assembling current assets in one collaborative location. Establishing digital workflow best practices for the entire asset life cycle, by integrating their image library with other applications and services.

**Grade Type:** Letter Grade

**Fee:** Additional course fee

**Prerequisite(s):** PHO 485

## **PHO 485 - Photography Business**

**Units:** 3

**When Offered:** Fall

Students will understand and develop the principles of running a successful photography business. With a hands on practical approach in relationship to; self promotion, marketing, accounting, copyright, permitting, contracts, artist representation, and the procurement of work.

**Grade Type:** Letter Grade

**Fee:** Additional course fee

**Prerequisite(s):** PHO 415

## **PHO 498 - Photography Intensive**

**Units: 3**

**When Offered:** Spring, Summer

Students will explore through the photographic medium - art, culture and sites of historical and contemporary significance. Emphasis is placed on independent project advancement, individualized instruction, and group critique on each student's project progress. Photography Intensive students will create a series of photographs working within the confines of shooting in a foreign location during the condensed semester. The course culminates in a group exhibition and photographic book.

**Repeatable:** May be repeated for a maximum of six (6) units

**Grade Type:** Letter Grade

**Prerequisite(s):** Permission of the Dean

## **PHO 498G - Photography Intensive**

**Units: 3**

**When Offered:** Spring, Summer

Students will explore through the photographic medium - art, culture and sites of historical and contemporary significance. Emphasis is placed on independent project advancement, individualized instruction, and group critique on each student's project progress. Photography Intensive students will create a series of photographs working within the confines of shooting in a foreign location during the condensed semester. The course culminates in a group exhibition and photographic book. Students registered in this section will participate in a global practicum experience during which the skills learned throughout the semester will be applied in an international setting.

**Repeatable:** May be repeated for a maximum of six (6) units

**Grade Type:** Letter Grade

**Fee:** Additional trip fee(s)

**Prerequisite(s):** Permission of the Dean

## **PHO 499 - Portfolio and Gallery**

**Units: 3**

**When Offered:** Spring

Students will apply the skills necessary for the professional presentation of a completed body of work including editing, sequencing, printing, marketing, portfolio design, and gallery presentation.

**Grade Type:** Letter Grade

**Fee:** Additional course fee

**Prerequisite(s):** PHO 433

## **Physical Science**

### **PSC 133 - Survey of Physical Science**

**Units: 3**

**When Offered:** Fall

A survey course designed to provide a foundation in the physical sciences by covering essential principles of motion and energy along with the structure and properties of matter. The application of physical science concepts to daily life will be emphasized.

**Grade Type:** Letter Grade

**Prerequisite(s):** MAT 095 or sufficient SAT or ACT score

### **PSC 133L - Survey of Physical Science Lab**

**Units: 1**

**When Offered:** Fall

A laboratory experience designed to illustrate and reinforce physical science principles and to introduce basic physical science laboratory techniques.

**Grade Type:** Letter Grade

**Fee:** Additional lab fee

**Pre- or Co- Requisite(s):** PSC 133

## **PSC 201 - Special Topics in Physical Science**

**Units: 3**

**When Offered:** As offered

Concentration upon a specific topic in the field of physical science. Topic varies for different semesters.

**Repeatable:** May be repeated for credit with change in topic

**Grade Type:** Letter Grade

## **PSC 399 - Independent Study**

**Units: 3**

**When Offered:** As offered

An opportunity for students who have demonstrated the ability to do independent work to pursue in depth a topic of particular interest.

**Grade Type:** Letter Grade

## **PSC 401 - Special Topics in Physical Science**

**Units: 3**

**When Offered:** As offered

Concentration upon a specific topic in the field of physical science. Topic varies for different semesters.

**Repeatable:** May be repeated for credit with change in topic

**Grade Type:** Letter Grade

## **Physical Therapist Assistant**

### **PTH 100 - Introduction to Physical Therapy**

**Units: 2**

**When Offered:** Fall

This course introduces the student to the field of physical therapy by covering the history and ethics of the profession as they relate to the healthcare system. The course addresses the development of the healthcare team, philosophy of rehabilitation, interviewing patients, inter-professional communication, cultural awareness, patient confidentiality, and the psychosocial impact of illness and injury. The scope of practice of the physical therapist assistant is emphasized.

**Grade Type:** Letter Grade

**Fee:** Additional course fee

**Prerequisite(s):** Physical Therapist Assistant major

### **PTH 110 - Medical Terminology and Documentation**

**Units: 2**

**When Offered:** Fall

This course offers students interaction with the dynamic language of healthcare. Through comprehensive study, exercises, and case studies, students will have the opportunity to be immersed in the words, abbreviations, and symbols used in healthcare.

**Grade Type:** Letter Grade

**Prerequisite(s):** Physical Therapist Assistant major

## **PTH 130 - Functional Anatomy and Measurement**

**Units:** 3

**When Offered:** Fall

This course covers the study and application of human movement and measurement. Anatomical function of muscle and muscle groups are discussed. Developing skill competency with manual muscle testing and goniometry is emphasized.

**Grade Type:** Letter Grade

**Prerequisite(s):** Physical Therapist Assistant major

## **PTH 140 - Basic Clinical Skills**

**Units:** 3

**When Offered:** Spring

This course covers safe mobility, therapeutic exercise, and basic patient skills. Patient data collection is applied. Developing skill competency with therapeutic exercise, positioning, draping, bed mobility, transfers, gait training, wheelchair management and mobility, vital signs, anthropometric measures, and aseptic techniques are emphasized.

**Grade Type:** Letter Grade

**Prerequisite(s):** PTH 100 and 110

## **PTH 150 - Preparation for Clinical Practice**

**Units:** 1

**When Offered:** Spring

This course is designed to prepare the student for clinical experiences. Content will include reviewing the clinical handbook, Clinical Performance Instrument (CPI), and the clinical placement and assessment process. Written and oral communication skills specific to the clinical environment, professional behaviors, and clinical expectations are emphasized.

**Grade Type:** Letter Grade

**Fee:** Additional course fee

**Prerequisite(s):** PTH 100, 110, and 130

## **PTH 160 - Neurology I**

**Units:** 1

**When Offered:** Spring

This course introduces the anatomy and physiology of the nervous system including basic neuro-anatomy, central & peripheral nervous systems, sensory pathways, motor pathways and the autonomic nervous system. The physical therapist assistant will be introduced to the neuroanatomy required to provide skilled interventions to individuals with neurological disorders.

**Grade Type:** Letter Grade

**Prerequisite(s):** PTH 110 and 130

## **PTH 170 - Physical Agents**

**Units: 3**

**When Offered:** Spring

This course prepares the student for safe and effective application of physical agents for patient treatment interventions. Mechanisms of action, indications, precautions, contraindications, and treatment procedures utilizing physical agents are discussed. Pain and sensory data collection systems are included. Developing skill competency for physical agents is emphasized.

**Grade Type:** Letter Grade

**Prerequisite(s):** PTH 100 and 110

## **PTH 200 - Special Topics in Physical Therapy**

**Units: 3**

**When Offered:** Fall

This course addresses special topics within physical therapy practice. The role of the physical therapist assistant within the progression of the physical therapy plan of care for acute care, cardiopulmonary care, pediatrics, geriatrics, and pelvic health is covered. Health behavior and wellness, vulnerable populations, and education of others are discussed. Developing skill competency within the areas of cardiopulmonary and self-care and functional training is emphasized.

**Grade Type:** Letter Grade

**Prerequisite(s):** PTH 130, 140, 170, and 230

## **PTH 230 - Pathophysiology for the Physical Therapist Assistant**

**Units: 3**

**When Offered:** Spring

This course discusses basic pathologic conditions and principles commonly encountered in physical therapy clinical settings. The etiology, signs and symptoms, clinical course, prognosis, primary medical interventions, behavioral and social factors, and implications for physical rehabilitation of diseases and disorders of the body systems are discussed.

**Grade Type:** Letter Grade

**Prerequisite(s):** PTH 100 and 110

## **PTH 240 - Advanced Clinical Skills**

**Units: 3**

**When Offered:** Fall

This course explores the theory and application of advanced clinical skills within the practice of physical therapy. The role of the physical therapist assistant within the progression of the physical therapy plan of care is examined. Effective rehabilitative care, orthotics, gait deviations, amputations, and prosthetics are discussed. Developing skill competency in treatment interventions using sterile technique for wound care, effective ergonomic training and patient education and inspection of environmental safety are emphasized.

**Grade Type:** Letter Grade

**Prerequisite(s):** PTH 130, 140, and 170

## **PTH 255 - Clinical I**

**Units: 3**

**When Offered:** Summer

This course provides students with the opportunity to perform delegated patient care responsibilities in a physical therapy clinical setting, with supervision. Students complete a full-time clinical affiliation at a facility assigned by the program faculty.

**Grade Type:** Pass/Fail

**Prerequisite(s):** Permission of the Department Chair



## **PTH 260 - Orthopedics**

**Units: 3**

**When Offered:** Fall

This course presents the effects of disease, disorders, and injuries of the musculoskeletal system, as well as orthopedic diagnoses encountered by the physical therapist assistant across the lifespan. Signs and symptoms, medical/surgical intervention, physical therapy treatment, documentation, and implications for rehabilitation are covered and applied. Developing skill competency with joint mobilization and pain assessment are emphasized.

**Grade Type:** Letter Grade

**Prerequisite(s):** PTH 130, 140, 170, and 230

## **PTH 265 - Clinical II**

**Units: 5**

**When Offered:** Spring

This course provides students with the opportunity to perform delegated patient care responsibilities in a physical therapy clinical setting, with supervision. Students complete a full-time clinical affiliation at a facility assigned by the program faculty.

**Grade Type:** Pass/Fail

**Prerequisite(s):** Permission of the Department Chair

## **PTH 270 - Neurology II**

**Units: 3**

**When Offered:** Fall

This course presents the effects of disease and trauma of the neurological system encountered by the physical therapist assistant with adults. Neurological interventions, therapeutic exercise, documentation, and treatment progressions are applied. Developing skill competency with arousal, mentation, and cognition levels, sensory assessment, and facilitation/inhibition techniques are emphasized.

**Grade Type:** Letter Grade

**Prerequisite(s):** PTH 130, 140, 160, 170, and 230

## **PTH 275 - Clinical III**

**Units: 5**

**When Offered:** Spring

This course provides students with the opportunity to perform delegated patient care responsibilities in a physical therapy clinical setting, with supervision. Students complete a full-time clinical affiliation at a facility assigned by the program faculty.

**Grade Type:** Pass/Fail

**Prerequisite(s):** Permission of the Department Chair

## **PTH 280 - Professional Integration**

**Units: 2**

**When Offered:** Spring

This course incorporates student experiences from clinical courses into discussion, group activities, and case presentations. Students communicate, problem-solve, and present challenging cases and complicated professional situations within a group atmosphere. Students develop a plan to prepare for the PTA licensure exam. Success for obtaining a job in the field of physical therapy is discussed. Legal and ethical practices, professional growth, and lifelong learning are emphasized.

**Grade Type:** Letter Grade

**Prerequisite(s):** PTH 255, 260, and 270

## Physics

### PHY 112 - The Physics of Hollywood with Lab

**Units:** 4

**When Offered:** Fall (odd years)

A study of optics, cameras, lighting, sound, analog vs. digital processes, polarization and the 3-D moving making process. The course is a very lab intensive class taught in a semi inquiry-based manner. The class and lab are heavily integrated. The course is a self contained class which includes some reviews of the math necessary to be successful in the class.

**Grade Type:** Letter Grade

**Fee:** Additional lab fee

### PHY 113 - Astronomy

**Units:** 3

**When Offered:** Fall

A study of the earth, time, moon, sky, celestial mechanics, solar system, and the sidereal universe.

**Grade Type:** Letter Grade

### PHY 113L - Astronomy Lab

**Units:** 1

**When Offered:** Fall

A study of the laws of physics related to the optics of telescopes. Observational labs, including remotely operating telescopes on mountain tops.

**Grade Type:** Letter Grade

**Fee:** Additional lab fee(s) (Field trips may require additional lab fees)

**Pre- or Co- Requisite(s):** PHY 113

### PHY 115 - Physics for Architects with Lab

**Units:** 4

**When Offered:** Fall

A study of mathematical methods of physics, kinematics, forces, Newton's Laws, earthquakes, fluids, work, energy, power, momentum, heat and thermodynamics, electricity, waves, light, and sound.

**Grade Type:** Letter Grade

**Fee:** Additional course fee

**Prerequisite(s):** MAT 145 or 245

### PHY 125 - Physics of Sound and Music

**Units:** 3

**When Offered:** Fall (even years)

This course covers the basic physical principles of waves required to understand the phenomena of sound and music. We will discover the properties of waves, such as speed, frequency, wavelength, amplitude, and intensity. We will discuss how frequency relates to harmonics, pitch, and resonance. We will discuss diffraction, interference, and the

Doppler Effect. We will discuss the different kinds of sounds produced by different kinds of musical instruments (strings, wind, brass, and the human voice). It is also recommended to concurrently take Physics of Sound and Music Lab.

**Grade Type:** Letter Grade

**Prerequisite(s):** MAT 115

## **PHY 125L - Physics of Sound and Music Lab**

**Units: 1**

**When Offered:** Fall (even years)

This laboratory course will feature demonstration, examples, and hands-on laboratory activities to supplement the learning objectives of Physics of Sound and Music. These interactive laboratory based experiences will cover sound waves, pitch, loudness, timbre, harmonics, resonance, the human ear, and other topics related to Physics of Sound and Music. Time may also be dedicated to working out examples to develop physics problem-solving skills in a highly interactive setting.

**Grade Type:** Letter Grade

**Fee:** Additional lab fee

**Pre- or Co- Requisite(s):** PHY 125

## **PHY 200 - Special Topics in Physics**

**Units: 1-3**

**When Offered:** As offered

Various appropriate topics of different concentrations are offered each time. Student involvement in selection of topics is strongly encouraged.

**Repeatable:** May be repeated one (1) time for credit with change in topic

**Grade Type:** Letter Grade

## **PHY 201 - Physics for Engineers I with Lab**

**Units: 4**

**When Offered:** Fall, Spring

This course covers topics such as units, vectors, motion (in one, two and three dimensions), Newton's laws of motion, work, kinetic and potential energy, momentum, impulse, collisions, conservation laws, dynamics of rotational motion, equilibrium, gravitation, and periodic motion. Six (6) hours per week of inquiry-based instruction.

**Grade Type:** Letter Grade

**Fee:** Additional course fee

**Prerequisite(s):** MAT 145 or a B or better in EGR 182

**Pre- or Co- Requisite(s):** MAT 245

## **PHY 203 - Physics for Engineers II with Lab**

**Units: 4**

**When Offered:** Fall, Spring

This course covers topics such as fluids, temperature and ideal gas, electric charge and field, Gauss' Law, electric potential, capacitance and dielectrics, current, resistance and electromotive force, direct-current circuits, magnetic field and force, Ampere's and Faraday's laws, electromagnetic induction, inductance, alternating current circuits, and electromagnetic waves. Six (6) hours per week of inquiry-based instruction.

**Grade Type:** Letter Grade

**Fee:** Additional course fee

**Prerequisite(s):** PHY 201 and MAT 245

## **PHY 214 - Physics I**

**Units: 3**

**When Offered:** Fall, Spring

A study of mechanics, heat and thermodynamics, waves, sound, and the mathematical methods of physics. Should be taken with PHY 214L - Physics I Lab.

**Grade Type:** Letter Grade

**Prerequisite(s):** MAT 145 or 245

## **PHY 214D - Physics I Discussion**

**Units: 1**

**When Offered:** Fall, Spring

This discussion section is designed to be taken concurrently with PHY 214 - Physics I. Emphasis will be placed on problem solving and computational techniques, and is meant to reinforce topics in mechanics, heat and thermodynamics, waves, sound, and the mathematical methods of physics.

**Grade Type:** Pass/Fail

**Concurrent Requisite(s):** PHY 214

## **PHY 214L - Physics I Lab**

**Units: 1**

**When Offered:** Fall, Spring

This laboratory course, designed to be taken concurrently with PHY 214 - Physics I, emphasizes scientific measuring and reporting techniques. Observational laboratories will reinforce topics in mechanics, including kinematics, Hooke's Law, momentum and inertia, and waves.

**Grade Type:** Letter Grade

**Fee:** Additional course fee

**Pre- or Co- Requisite(s):** PHY 214

## **PHY 224 - Physics II**

**Units: 3**

**When Offered:** Spring

A continuation of Physics I, including a study of electricity, magnetism, electromagnetic waves, optics, and modern physics topics. Should be taken with Physics II Lab.

**Grade Type:** Letter Grade

**Prerequisite(s):** PHY 214

## **PHY 224D - Physics II Discussion**

**Units: 1**

**When Offered:** Spring

This discussion section is designed to be taken concurrently with Physics II. Emphasis will be placed on problem solving and computational techniques, and is meant to reinforce topics in waves, optics, electricity, and thermodynamics.

**Grade Type:** Pass/Fail

**Concurrent Requisite(s):** PHY 224

## **PHY 224L - Physics II Lab**

**Units: 1****When Offered:** Spring

This laboratory course, designed to be taken concurrently with Physics II, emphasizes scientific measuring and reporting techniques. Observational laboratories will reinforce topics in waves, optics, electricity, and thermodynamics.

**Grade Type:** Letter Grade**Fee:** Additional lab fee**Pre- or Co- Requisite(s):** PHY 224**PHY 301 - Astronomy II****Units: 3****When Offered:** Spring (odd years)

The main focus of the course is on complex concepts from extra-solar astrophysics (astronomy outside of our solar system), including star formation, stellar evolution, supernova and stellar remnants, black holes, galaxy formation, dark matter, the large-scale structure of the universe, and the Creation of the universe. The purpose of this course is to provide a broad baseline of conceptual understanding. Student will also learn how to analyze and understand new discoveries in astronomy as they are related directly to the professional astronomical community, in addition to understanding astronomy articles that are presented through more mainstream media.

**Grade Type:** Letter Grade**Prerequisite(s):** PHY 113, 201, or 214**PHY 301L - Astronomy II Lab****Units: 1****When Offered:** Spring (odd years)

This laboratory course focuses on studying the laws of physics related to astronomy. The purpose of this course is to give a broad experiential understanding of the process of analyzing data from telescopes, integrating real astronomical data with astronomical concepts such as the expansion of the universe and supernova explosion.

**Grade Type:** Letter Grade**Fee:** Additional lab fee**Pre- or Co- Requisite(s):** PHY 301**PHY 305 - Physics of Semiconductors****Units: 4****When Offered:** As offered

An introduction to the underlying mechanism and the physical operation of semiconductor devices. This includes discussion of material properties, energy band theory, carrier behavior, and electronic transport. We'll apply this to understanding of junction diodes, bipolar junction transistors, and metal-oxide-semiconductor capacitors and field-effect transistors.

**Grade Type:** Letter Grade**Fee:** Additional lab fee**Prerequisite(s):** MAT 343, and PHY 203 or 224**PHY 310 - Waves and Optics with Lab****Units: 4****When Offered:** Spring (even years)

An advanced study of waves and optics, with explicit investigation into mechanical and electromagnetic waves. Topics include (but are not limited to): simple harmonic motion, superposition, dampening, forced oscillations, beats, elasticity, coupling, normal modes, polarization, constructive and destructive interference, single and double slit

interference, diffraction gratings, lenses, ray optics, geometric optics, physical optics, beams, and Doppler effect. The course is a very lab intensive class taught in a semi inquiry-based manner. The class and lab are heavily integrated.

**Grade Type:** Letter Grade

**Lecture:** 3 hours **Lab:** 3 hours

**Fee:** Additional lab fee

**Prerequisite(s):** PHY 203 or 224

## **PHY 320 - Modern Physics**

**Units:** 4

**When Offered:** Fall (even years)

An advanced study of modern physics theories. Topics include (but not limited to): relativity, photons, photoelectric effect, the Bohr-model, Heisenberg's uncertainty principle, Compton scattering, de Broglie waves, wave particle duality, wave packets, Schroedinger's equation, nuclear models, decay and reactions, Rutherford scattering.

**Grade Type:** Letter Grade

**Lecture:** 4 hours

**Prerequisite(s):** PHY 203 or 224. (Recommend: PHY 310)

## **PHY 399 - Independent Study**

**Units:** 1-3

**When Offered:** As offered

This course of study is offered to afford the superior student an opportunity to explore independently subject matter not already offered in the catalog.

**Grade Type:** Letter Grade

## **PHY 400 - Special Topics in Physics**

**Units:** 1-4

**When Offered:** As offered

Various appropriate topics of different concentrations are offered each time. Student involvement in selection of topics is strongly encouraged.

**Repeatable:** May be repeated one (1) time for credit with change in topic

**Grade Type:** Letter Grade

## **Political Science**

### **POL 101 - Introduction to the Political Science Discipline**

**Units:** 1

**When Offered:** Fall

This course is designed to introduce Political Science majors to the academic field of Political Science and the Political Science Program. The course provides an overview of each subfield in Political Science and the curriculum options for studying that subfield. The course encourages students to examine their own philosophical presuppositions as they learn to think about the study of politics from a Christian perspective. There is also substantial opportunity for building connections with faculty and fellow majors.

**Grade Type:** Pass/Fail

### **POL 200 - Special Topics in Political Science**

**Units: 3**

**When Offered:** As offered

This course examines special topics in political science. Topics are announced each time the course is offered.

**Repeatable:** May be repeated two (2) times for credit with change in topic

**Grade Type:** Letter Grade

## **POL 213 - American Government**

**Units: 3**

**When Offered:** Fall, Spring, & Online

The course provides an introductory overview of the American political system. It begins with a discussion of the principles of the Declaration of Independence, Constitution, and Bill of Rights and an examination of their impact on the country. It also covers the avenues and means of democratic citizenship and political influence in American politics. The course further examines the major political institutions in the United States: Congress, Presidency, Bureaucracy, and Courts. In order to assess the impact of government on society, the course concludes with an exploration of public policy. (Meets state requirement in United States Constitution and California Government.)

**Grade Type:** Letter Grade

## **POL 223 - State and Local Government**

**Units: 3**

**When Offered:** Fall, Spring, & Online

This course studies the place and responsibilities of state and local governments in the United States and how they relate with other units of government. This includes an assessment of the citizenship and participation in state and local politics, both at the individual and collective level; and then an examination of state political institutions, such as governors, state legislatures, state courts, and administration. The course also covers city and county governments, and other local units of government. Although it is comparative, special attention is given to California politics.

**Grade Type:** Letter Grade

## **POL 250 - Introduction to International Politics**

**Units: 3**

**When Offered:** Spring

This course begins with an examination of the relevant international relations paradigms and evaluates several foreign policy decision-making models. The course considers important actors within the international system, such as intergovernmental and nongovernmental organizations and concludes with an examination of contemporary international relations issues, such as interstate war, economic development, human rights, and trade.

**Grade Type:** Letter Grade

## **POL 255 - Introduction to Comparative Politics**

**Units: 3**

**When Offered:** Fall & Online

The course begins with an overview of factors (constitutions, political systems, and political ideology) political scientists use to understand and explain variations in policy outcomes at the national level. The course also examines actors (political parties, interest groups, social movements, and public opinion), processes (elections), and political institutions from a comparative perspective. The course concludes with an overview of the public policy process and examination of specific policy areas.

**Grade Type:** Letter Grade

## **POL 323 - Political Parties and Interest Groups**

**Units: 3**

**When Offered:** Spring (odd years)

The study of the nature, development, organization, function, and methods of political parties. Also designed to furnish an understanding of the pluralist nature of the American system through the dynamics of group action and their methods and impact.

**Grade Type:** Letter Grade

## **POL 330 - Law and Literature**

**Units: 3**

**When Offered:** Fall (odd years)

This course is designed to examine the role and function of narrative in law, and the role and function of law in major works of literature, to understand better both law and literature.

**Grade Type:** Letter Grade

## **POL 350 - International Relations Theory**

**Units: 3**

**When Offered:** Fall (even years)

This course begins with an in-depth examination of the dominant and alternative theories found within the international relations literature. Having established a solid theoretical foundation, the course will consider important disagreements between the dominant theories (e.g., the structure of the international system) and the corresponding predicted outcomes (e.g., conflict or cooperation within the international system). The course concludes with an examination of several contemporary international relations issues, such as globalization and terrorism.

**Grade Type:** Letter Grade

## **POL 390 - Congress and the Presidency**

**Units: 3**

**When Offered:** Spring (even years)

The study of the place, responsibilities, and functions of Congress and the presidency in American politics is covered. This includes congressional organization and behavior, congressional elections, party leadership, congressional rules and procedures, and the committee system, with its effect on policy. The presidency roles, powers, and functions are also examined. The president's relationship with both the media and public, other branches, presidential character and leadership are included. Both branches are examined in light of checks and balances.

**Grade Type:** Letter Grade

## **POL 395 - Political Economy**

**Units: 3**

**When Offered:** Fall (odd years) & Online

This course explores the relationship between the economy and politics and provides both a description and assessment of the economy. This entails an overview of economic theory, macroeconomics, savings, investments, microeconomics and markets, inflation, monetary policy, international economics and globalization, and the role of the private sector and government.

**Grade Type:** Letter Grade

## **POL 399 - Independent Studies**

**Units: 3**

**When Offered:** As offered



Independent study of a specific area of political science not offered by the department. This allows a student to explore a specific area of political science on an independent basis. It is directly supervised by specific faculty in the program and has specific timetables and course requirements.

**Grade Type:** Letter Grade

## **POL 400 - Special Topics in Political Science**

**Units:** 3

**When Offered:** As offered

This course examines special topics in political science. Topics are announced each time the course is offered.

**Repeatable:** May be repeated two (2) times for credit with change in topic

**Grade Type:** Letter Grade

## **POL 401 - Special Topics in Government**

**Units:** 3

**When Offered:** As offered

This course examines special topics in government. Topics are announced each time that the course is offered.

**Repeatable:** May be repeated two (2) times for credit with change in topic

**Grade Type:** Letter Grade

**Prerequisite(s):** POL 213

## **POL 415 - World Geography**

**Units:** 3

**When Offered:** Fall, Spring, & Online

This course studies the world's geographic areas and the outstanding human, social, and physical features of realms and regions. In doing so, special attention is given to the more important features of histories, societies, cultures, and religions of the people living in the region. It also examines the relationship between human life and natural environment. The purpose is to help students better understand the world, our relationship with the environment, and human connections around the globe.

**Grade Type:** Letter Grade

## **POL 423 - Classical Political Philosophy**

**Units:** 3

**When Offered:** Fall (odd years)

This course examines the origin of Western political, social, and legal thought in order to understand the present through the great political works of the past. It begins in ancient Greece in early democratic Athens and moves through Socrates, Plato, and Aristotle. From there, the course explores classical Rome, focusing on Polybius and Cicero. Since the advent of Christianity shapes the development of medieval political thought, the political thought of St. Augustine, John of Salisbury, St. Thomas Aquinas, Marsilio of Padua, Dante, and Thomas More are discussed.

**Grade Type:** Letter Grade

## **POL 425 - Modern Political Philosophy**

**Units:** 3

**When Offered:** Spring (even years)

This course entails a comparative study of modern social, legal, and political philosophy, from the Renaissance toward the present by focusing on the great works of the Western traditions, including Machiavelli, Hobbes, Locke, Rousseau, Montesquieu, Kant, Hegel, Bentham, Marx, Mill. The course examines the relationship between these various political

philosophers and the modern political world.

**Grade Type:** Letter Grade

## **POL 427 - American Political Theory**

**Units:** 3

**When Offered:** Fall (even years)

This course provides an exploration of the founding of the American Republic. It begins with the colonial period, noting the relationship between religion, liberty, and politics, and then moves to ideas that shaped the American Revolution. From there it analyzes the discussions on the Constitution by both the Federalists and the Antifederalists. The course also examines the discussions surrounding the new Republic and the growth of the nation, including the struggles regarding individualism, liberty, equality, race, gender, wealth, economic regulation, and community responsibility.

**Grade Type:** Letter Grade

## **POL 429 - Critical Political Philosophy and Postmodernism**

**Units:** 3

**When Offered:** Spring (odd years)

This course examines 20th century responses to modernity and its political and social theories. It focuses on continental philosophers and relates their ideas to contemporary society and politics. It begins with the Frankfurt School of critical theory and its criticisms of modern culture, and then moves from Nietzschean and Heideggerian thought to the hermeneutic theory of Gadamer and Ricoeur. After this, the course assesses the political relevance of the poststructuralism of Foucault, Derrida, and Lyotard. It concludes with Habermas' discourse ethics and deliberative democracy.

**Grade Type:** Letter Grade

## **POL 431 - Christianity and Citizenship**

**Units:** 3

**When Offered:** Spring

This goal of the course is the development of a Christian perspective toward politics. The course begins with an examination of the important role that Christianity played in the founding of the United States. The course carefully considers a number of political worldviews and ideologies from a Christian perspective. The course analyzes the impact of Christianity on political culture and behavior in the United States. Lastly, the course introduces students to the duties and obligations of American Christians in the arena of democratic politics.

**Grade Type:** Letter Grade

**Prerequisite(s):** Political Science major and Junior/Senior status

## **POL 435 - Campaigns and Elections**

**Units:** 3

**When Offered:** Fall (even years)

The course analyzes the dominant role political parties played in the American political system in the past. The course explores the decline of American political parties in recent decades. The course considers the increasing importance of campaign consultants and interest groups. The course examines the consequences of the shift in the roles played by political parties, campaign consultants, and interest groups on the American political system. Since the nature of political campaigns strongly impacts the political agenda of successful candidates once they take office, the course devotes considerable attention to the role of campaign issues in mobilizing key groups of voters as well as the use of campaign strategies and tactics aimed at achieving electoral success.

**Grade Type:** Letter Grade

## **POL 437 - Globalization**

**Units: 3**

**When Offered:** Fall (even years)

The course provides a critical assessment of political economy with a special emphasis on the increasing pace of globalization. The course begins with an overview of economics, which is the study of how human beings cope with the problem of provisioning themselves. After discussing the relevant economic principles, the course examines the causes and consequences of economic globalization.

**Grade Type:** Letter Grade

## **POL 439 - International Conflict**

**Units: 3**

**When Offered:** Fall (odd years)

The course examines many theoretical explanations for international conflict, such as religious differences, groupthink, territorial demands, domestic politics, misperception, shifts in the balance of power, and ideological differences.

Following an extensive discussion of these theories, the course analyzes relevant case studies to determine the validity and relevance of the theoretical explanations. The course concludes with an examination of the diplomatic and political options available to states and intergovernmental organizations seeking to reduce the intensity and frequency of wars in the 21st century.

**Grade Type:** Letter Grade

## **POL 440 - Pre-Law Internship**

**Units: 1-3**

**When Offered:** Fall, Spring, Summer

Students enrolled in this course will gain the professional experience valued by employers by utilizing knowledge acquired as Political Science majors in volunteer or paid internship positions. Students will perform relevant tasks under the direction of the Internship Site Supervisor. Students will identify and explore connections between their internship experiences and academic coursework.

**Grade Type:** Letter Grade

**Prerequisite(s):** Permission of the Department Chair and Junior/Senior status

## **POL 443 - Diplomatic History of the United States**

**Units: 3**

**When Offered:** Spring (odd years) & Online

This course is a history of the diplomatic relations of the United States and the development of the leading principles of foreign policy set within the context of an analysis of various geopolitical models.

**Grade Type:** Letter Grade

## **POL 444 - International Law**

**Units: 3**

**When Offered:** Fall (odd years) & Online

This course will examine the development of modern international law. The course will consider the foundations of customary and conventional international laws, as well as treaties that bear upon the conduct of members of the international community.

**Grade Type:** Letter Grade

## **POL 445 - American Institutions and Processes Internship**

**Units: 1-3****When Offered:** Fall, Spring, Summer

Students enrolled in this course will gain the professional experience valued by employers by utilizing knowledge acquired as Political Science majors in volunteer or paid internship positions. Students will perform relevant tasks under the direction of the Internship Site Supervisor. Students will identify and explore connections between their internship experiences and academic coursework.

**Grade Type:** Letter Grade**Prerequisite(s):** Permission of the Department Chair and Junior/Senior status**POL 446 - International Relations Internship****Units: 1-3****When Offered:** Fall, Spring, Summer

Students enrolled in this course will gain the professional experience valued by employers by utilizing knowledge acquired as Political Science majors in volunteer or paid internship positions. Students will perform relevant tasks under the direction of the Internship Site Supervisor. Students will identify and explore connections between their internship experiences and academic coursework.

**Grade Type:** Letter Grade**Prerequisite(s):** Permission of the Department Chair and Junior/Senior status**POL 447 - Public Administration Internship****Units: 1-3****When Offered:** Fall, Spring, Summer

Students enrolled in this course will gain the professional experience valued by employers by utilizing knowledge acquired as Political Science majors in volunteer or paid internship positions. Students will perform relevant tasks under the direction of the Internship Site Supervisor. Students will identify and explore connections between their internship experiences and academic coursework.

**Grade Type:** Letter Grade**Prerequisite(s):** Permission of the Department Chair and Junior/Senior status**POL 450 - Research Methods in Political Science****Units: 3****When Offered:** Fall & Online

This course examines the research methods used in Political Science. Topics addressed in the course include the philosophical and theoretical foundations of social science research; ethical issues related to research; research design; descriptive and inferential statistic analysis; survey, qualitative field, unobtrusive, and evaluation research; and qualitative and quantitative data analysis with the Statistical Package for the Social Sciences (SPSS). Students will obtain the statistical knowledge necessary to read and critique scholarly articles and books. In addition, the course will prepare students to use statistical methods in their own research in graduate school or in their professional careers.

**Grade Type:** Letter Grade**POL 454 - International Organizations****Units: 3****When Offered:** Spring (even years)

The course begins with an examination of the relevant empirical and theoretical studies on International Organizations (IOs), with an emphasis on Intergovernmental Organizations (IGOs) in the global arena. Having established solid empirical and theoretical foundations, the course will explore the impact of international organizations on several issue areas. The second principal portion of the course will utilize the same approach in order to gain a more comprehensive

understanding of international non-governmental organizations (INGOs).

**Grade Type:** Letter Grade

## **POL 471 - Terrorism**

**Units:** 3

**When Offered:** Spring (odd years)

This course examines the origin, political goals, means, and long-term strategy of terrorism. The course distinguishes between terrorist organizations with and without state support. The course also differentiates between domestic and regional/international terrorism. The course utilizes case studies of several terrorist organizations, such as Al Qaeda, to illustrate the emergence of terrorism as a significant threat. The course concludes with an examination of the military and political options available to governments interested in reducing or eliminating the threat posed by terrorism.

**Grade Type:** Letter Grade

## **POL 484 - Constitutional Law I**

**Units:** 3

**When Offered:** Fall (even years)

The course facilitates an understanding of the Constitution and its relationship to the three branches of government and their functions and a greater appreciation of the role of the court in affecting their balances. Included aspects of study are the court system, judicial review, presidential power, Congress and commerce, Federalism, contracts, due process, and civil liberties.

**Grade Type:** Letter Grade

## **POL 485 - Constitutional Law II**

**Units:** 3

**When Offered:** Fall, Spring, & Online

This course studies the most important decisions of the Supreme Court on individual rights and the conflicts from which they have arisen, which means examining the trinity of individual values and rights in American civil liberties -- freedom, due process, and equality.

**Grade Type:** Letter Grade

## **POL 499 - Senior Project**

**Units:** 3

**When Offered:** Spring

A senior capstone course designed to demonstrate the competence of Political Science majors in the discipline and showcase their research and writing skills. The portfolio produced by the student in completion of this project must conform to the departmental guidelines for Senior Projects.

**Grade Type:** Letter Grade

**Prerequisite(s):** POL 450 and Senior status

## **Product Design**

### **PRD 200 - Special Topics in Product Design**

**Units:** 1-6

**When Offered:** As offered

This course explores and presents selected topics in product design.

**Repeatable:** May be repeated for a maximum of nine (9) units with change in topic

**Grade Type:** Letter Grade

## **PRD 350 - Human Centric Design**

**Units:** 3

**When Offered:** As offered

This course examines the principles and practices of human-centered design processes and products within product design. An emphasis is placed on the introduction and practiced application of empathetic design research methods and design strategies to the product design process.

**Grade Type:** Letter Grade

## **PRD 400 - Special Topics in Product Design**

**Units:** 1-6

**When Offered:** As offered

This course explores and presents non-studio based selected topics in product design.

**Repeatable:** May be repeated for a maximum of nine (9) units with change in topic

**Grade Type:** Letter Grade

## **PRD 401 - Special Topics in Product Design Studio**

**Units:** 1-6

**When Offered:** As offered

This course explores and presents studio based selected topics in product design.

**Repeatable:** May be repeated with change in topic for a maximum of twelve (12) units of credit

**Grade Type:** Letter Grade

**Prerequisite(s):** Permission of the Dean

## **PRD 411 - Directed Product Design Lab**

**Units:** 4

**When Offered:** As offered

This lab based course utilizes the creative process and methods in product design through the design of projects escalating in scale and complexity. Topics include empathetic research methods, environmental factors or ergonomics, modeling, form giving, prototyping, and visual communication.

**Repeatable:** May be repeated for a maximum of twelve (12) units

**Grade Type:** Letter Grade

**Prerequisite(s):** DES 110, EGR 263, and GDM 150

## **Professional Studies**

### **PST 300 - Career and Professional Development**

**Units:** 3

**When Offered:** Online

This course examines and prepares students for a successful transition from undergraduate studies to graduate level coursework. This course provides students with an opportunity for assessment of career interests and capabilities, initiation and implementation of a personal development plan (PDP) or career portfolio, and feedback on personal and career development. Strategies, practical skills and resources for addressing graduate admission requirements, and grad

school expectations are addressed. Advanced computer skills in excel, PowerPoint, Word, LiveText capstone portfolio, and e-bray will be included.

**Grade Type:** Letter Grade

## **PST 317 - Ethical and Biblical Principles for Leadership**

**Units:** 3

**When Offered:** Online

This course evaluates the principles for practicing ethical judgments and behavior that confront those in leadership positions. Students will evaluate various ethical frameworks and survey the Bible to explore and develop principles and habits for Biblically-based leadership practices. The course will also compare Biblical principles of leadership with the contemporary literature on leadership and ethics.

**Grade Type:** Letter Grade

## **PST 320 - Leadership Theory and Practice**

**Units:** 3

**When Offered:** Online

The purpose of this course is to equip students with the skills necessary for successful leadership in public and private organizations. Emphasis is on assessment of personal growth needs and enhancement of administrative skills including communication, decision-making, motivation, leadership styles, and team building. Experiential class work will be utilized in conjunction with classic and current organizational literature so that students can appreciate the bridge linking theory and practice.

**Grade Type:** Letter Grade

## **PST 405 - Cross-Cultural Leadership**

**Units:** 3

**When Offered:** Online

This course examines the impact of culture on concepts of leadership, values, expectations, and patterns of communication to demonstrate the importance of leading with cultural sensitivity and to assist students in developing their own strategies for effectively communicating and negotiating with individuals from varied cultures. Study is also devoted to the development and current conditions of minority/majority relations through the study of sociopolitical and economic causes; consequences of prejudice and discrimination; stereotypes and realities.

**Grade Type:** Letter Grade

## **PST 410 - Organizational Development**

**Units:** 3

**When Offered:** Online

This course is an in-depth study of organization-wide strategies and tactics to improve organizational life and effectiveness. This course evaluates the principles and techniques for developing and improving organizations from a holistic management approach. The course will help students develop the knowledge and skills to work with the internal and external factors that impact organizational development and change in a global environment.

**Grade Type:** Letter Grade

## **PST 420 - Decision-Making**

**Units:** 3

**When Offered:** Online

The course examines and critiques several prominent decision-making models, such as Groupthink, Rational Actor,

Governmental Politics, and Organizational Process. The course will also explore steps that leaders in the public and private sector can take in order to avoid flawed decision making.

**Grade Type:** Letter Grade

## **PST 430 - Conflict Resolution and Negotiations**

**Units:** 3

**When Offered:** Online

This course equips students with a framework to systematically evaluate the sources and stages of conflict in organizations. Students will develop the requisite frameworks and skills in principled negotiations to use conflict constructively to promote organizational and personal development.

**Grade Type:** Letter Grade

## **Psychology**

### **PSY 120 - Lifespan Development for the Health Professions**

**Units:** 3

**When Offered:** Fall, Spring, Summer

This course is an introduction to lifespan development which incorporates the physical, cognitive, psychosocial, and spiritual growth of individuals from conception through older adulthood with application to health care.

**Grade Type:** Letter Grade

**Prerequisite(s):** Declared Communication Sciences and Disorders, Health Education, Nursing, or Pre-Nursing major

### **PSY 201 - Special Topics in Psychology**

**Units:** 3

**When Offered:** As offered

An in-depth seminar on a selected topic within Psychology.

**Grade Type:** Letter Grade

**Prerequisite(s):** PSY 213

### **PSY 213 - General Psychology**

**Units:** 3

**When Offered:** Fall, Spring, & Online

This introductory course is a survey of the processes of adjustment, growth, learning, remembering, perception, sensation, socialization, and emotions. It is meant to better equip students to understand and articulate their own life experiences, as well as improve their understanding of the behavior of others. This course is a prerequisite to all other courses in Psychology.

**Grade Type:** Letter Grade

### **PSY 301 - History and Systems of Psychology**

**Units:** 3

**When Offered:** Fall, Spring, & Online

This course is an overview of the major schools of thought in psychology presented in historical, philosophical and scientific context. The methods of inquiry, terminology and theoretical systems of historical and contemporary psychology will be surveyed. The primary goal is to understand the connections and progressions of psychology throughout its development.



**Grade Type:** Letter Grade

**Prerequisite(s):** PSY 213

### **PSY 305 - Developmental Psychology: Child**

**Units:** 3

**When Offered:** Fall (even years)

This course examines the principles of psychological, cognitive, physical, spiritual and social development from conception to adolescence. A Biblical view of growth and change throughout these developmental periods will be addressed.

**Grade Type:** Letter Grade

**Prerequisite(s):** PSY 213

### **PSY 315 - Developmental Psychology: Adolescence and Adulthood**

**Units:** 3

**When Offered:** Spring (even years)

This course examines the principles of psychological, cognitive, physical, spiritual and social development from late childhood to late adulthood. A Biblical view of growth and change throughout these developmental periods will be addressed.

**Grade Type:** Letter Grade

**Prerequisite(s):** PSY 213

### **PSY 320 - Life-Span Development**

**Units:** 3

**When Offered:** Fall, Spring, & Online

The course addresses principles of psychological development across time and culture. Students will understand universal stages of human development, influences on individual differences and the impact of nature and nurture. The course views human development as a unit of interrelated parts, concentrating on the relationships between the mind, body, and the socio-cultural context. Specific consideration is given to issues of integration, culture, and Biblical worldview.

**Grade Type:** Letter Grade

**Prerequisite(s):** PSY 213

### **PSY 322 - Theories of Personality**

**Units:** 3

**When Offered:** Fall, Spring, & Online

This course is a survey of theories of personality emphasizing various viewpoints, unique theoretical perspectives, functions, and development of basic attitudes and belief systems that influence behavior throughout the life span. The course equips students to actively integrate faith (i.e., biblical principles) with the theories discussed.

**Grade Type:** Letter Grade

**Prerequisite(s):** PSY 213

### **PSY 325 - Tests and Measurements**

**Units:** 3

**When Offered:** Fall, Spring, & Online

This course is a survey of the construction, application, interpretation and evaluation of psychological tests. Theory and principles related to psychological assessment and testing will be examined. Tests used to measure general mental

abilities, specific abilities and aptitudes, personality, interests and attitudes are surveyed.

**Grade Type:** Letter Grade

**Prerequisite(s):** PSY 213 and BEH 350 or 383

## **PSY 328 - Cognitive Psychology**

**Units:** 3

**When Offered:** Fall, Spring, & Online

This course provides an introduction into the structure and processes of the mind, focusing on topics including perception, attention, memory, decision-making, and consciousness. Students will engage with research examining cognition from a behavioral, information-processing, and a physiological perspective. Additionally, students will engage with the philosophical/epistemological assumptions in the study of cognition, with relevant applications in domains such as artificial intelligence, criminal justice, and theology.

**Grade Type:** Letter Grade

**Prerequisite(s):** PSY 213

## **PSY 338 - Sensation and Perception**

**Units:** 3

**When Offered:** Fall (even years)

This course is a general introduction to the scientific study of sensory processes and perceptual phenomena. The course explores how brain processes facilitate representation for psychological experiences, as well as the impact of multi-modal perceptual processes.

**Grade Type:** Letter Grade

**Prerequisite(s):** PSY 213

## **PSY 345 - Abnormal Psychology for Nurses**

**Units:** 3

**When Offered:** Fall, Spring

A study of the dynamics, cultural implications, diagnostic symptoms of abnormal behavior including neuroses, psychoses, personality disorders, psychosomatic reactions and other abnormal behavioral patterns. Textual and lecture attention will be given to the relationship of etiology and treatment from psycho-physiology and psycho-pharmacology perspectives. School of Behavioral Science majors may not take this course for credit toward their major.

**Grade Type:** Letter Grade

**Prerequisite(s):** Nursing major

## **PSY 346 - Abnormal Psychology**

**Units:** 3

**When Offered:** Fall, Spring, & Online

Study of the dynamics, cultural implications and prevention of abnormal behavior including neuroses, psychoses, character disorders, psychosomatic reactions and other abnormal personality patterns. Textual and lecture attention will be given to the impact of the environment and oppressed populations in relation to abnormal behavior.

**Grade Type:** Letter Grade

**Prerequisite(s):** PSY 213

## **PSY 350 - Introduction to Forensic Psychology**

**Units:** 3

**When Offered:** Spring

This course is designed to introduce students to the areas and issues that define forensic psychology to instill a broad understanding of the field. This broad understanding will include the areas of psychology, law, criminal justice, and forensic mental health. Students will gain a basic knowledge and understanding of the role of psychologists and application of psychological principles within the criminal justice system.

**Grade Type:** Letter Grade

**Prerequisite(s):** PSY 213

## **PSY 360 - Sports Psychology**

**Units:** 3

**When Offered:** Fall

This course describes the application of psychological concepts to sports and exercise. Emphasis is placed on issues of motivation, emotion, associative learning, imagery, and arousal regulation in regards to their influence on athletic performance and goal achievement. Included in this will be a discussion of the methodologies used to examine sports psychology. This is a hands on course; students should expect to be involved in activities that require light to medium physical activity.

**Grade Type:** Letter Grade

**Prerequisite(s):** PSY 213

## **PSY 376 - Art Therapy**

**Units:** 3

**When Offered:** Fall (even years)

This course is an introduction to the field of art therapy. The modern theories, methods and systems of art therapy will be surveyed. Emphasis is placed on practical application of art therapy concepts as well as the development of specific art therapy skills.

**Grade Type:** Letter Grade

**Prerequisite(s):** PSY 213

## **PSY 388 - Industrial and Organizational Psychology**

**Units:** 3

**When Offered:** Spring

This course is designed to provide an introduction to the field of Industrial and Organizational Psychology. Building upon introductory psychology and business principles, special emphasis is placed on understanding people and systems within the context of work. Employee motivation, leadership development, and change management are key areas explored in this course. Attention is also given to a critical examination, from a Christian worldview, of systemic justice issues in the workplace.

**Grade Type:** Letter Grade

## **PSY 399 - Independent Study**

**Units:** 3

An opportunity for students who have demonstrated the ability to do independent work to pursue in depth a topic of particular interest.

**Grade Type:** Letter Grade

**Prerequisite(s):** PSY 213

## **PSY 401 - Special Topics in Psychology**

**Units: 3**

**When Offered:** As offered

An in-depth seminar on a selected topic within Psychology.

**Grade Type:** Letter Grade

**Prerequisite(s):** PSY 213

## **PSY 404 - Psychopathic Mind**

**Units: 3**

**When Offered:** Spring

The professional seminar introduces students to the process and techniques of investigation and psychological profiling of serial murderers, serial rapists, and terrorists.

**Grade Type:** Letter Grade

**Prerequisite(s):** ANT 225, PSY 213, or SOC 213; Senior status and permission of the Dean

## **PSY 422 - Theories of Counseling**

**Units: 3**

**When Offered:** Fall, Spring, & Online

A survey of modern theories of therapeutic counseling with emphasis on gaining an understanding of the psychological principles underlying these methods.

**Grade Type:** Letter Grade

**Prerequisite(s):** PSY 213

## **PSY 443 - Social Psychology**

**Units: 3**

**When Offered:** Fall

This course is an examination of the psychological impact of the customs, norms, institutions, and groups upon individual behavior as influenced by social interaction.

**Grade Type:** Letter Grade

**Prerequisite(s):** PSY 213

## **PSY 453 - Psychology of Learning**

**Units: 3**

**When Offered:** Fall (odd years)

A study of learning processes in light of the various systems of learning theory and major research evidence. Through examination of psychological perspectives, theoretical constructs, and various noteworthy behavioral scientists, students gain a further understanding of the principles of how humans, and other species, learn.

**Grade Type:** Letter Grade

**Prerequisite(s):** PSY 213

## **PSY 458 - Motivation and Emotion**

**Units: 3**

**When Offered:** Spring (odd years)

This course is an introduction to the theoretical, behavioral, and physiological aspects of emotion and motivation in humans. The role of motivation and emotion across domains such as health, education and well-being will be considered, with attention to biological, psychological, and social influences.

**Grade Type:** Letter Grade

**Prerequisite(s):** PSY 213

## **PSY 473 - Psychophysiology**

**Units:** 3

**When Offered:** Fall, Spring, & Online

This course is an introduction to the capacity, limitations, and complexities of the human brain and its relationship to the neural and endocrine processes underlying brain function and behavior.

**Grade Type:** Letter Grade

**Prerequisite(s):** PSY 213

## **PSY 495 - Research Project**

**Units:** 1-4

**When Offered:** As offered

Undergraduate students will participate in an independent research project in psychology, including the development of a research procedure, gaining IRB approval for the research, data collection, data analysis, and/or research write-up.

**Grade Type:** Letter Grade

**Prerequisite(s):** PSY 213 and permission of the Dean

## **PSY 498 - Grief and Loss Counseling**

**Units:** 1

**When Offered:** Spring

A seminar presentation of approaches to grief and loss and its effect on individuals and families.

**Grade Type:** Pass/Fail

**Prerequisite(s):** PSY 213

## **Public Administration**

### **PAD 451 - Executive Leadership and Management**

**Units:** 3

**When Offered:** Fall (odd years)

This course introduces students to the executive and management skills necessary for successful leadership in public organizations. Emphasis is on assessment of personal growth needs and enhancement of administrative skills, including communication, decision-making, motivation, leadership styles, and team building. (This course does not meet requirements for general education).

**Grade Type:** Letter Grade

### **PAD 452 - Organizational Theory and Design**

**Units:** 3

**When Offered:** Online

Students will use classic and current literature to examine the fundamental questions guiding organization theory in public administration with an emphasis on reconciling democracy with bureaucratic principles and behavior.

**Grade Type:** Letter Grade

### **PAD 453 - Administrative Law and Bureaucracy**

**Units: 3****When Offered:** Spring (even years)

This course examines the place and impact of executive agencies on the formation and implementation of administrative law and regulation in the United States. This includes an overview of the administrative process, a discussion of administrative power, and bureaucratic organization. The course then examines the steps, stages, and participants of the administrative process, such as delegation of authority, administrative rule making, agency adjudication, and judicial review. The course concludes with a discussion of tort liability and sovereign immunity, the relationship between the bureaucracy and the other branches, and administrative reform.

**Grade Type:** Letter Grade**PAD 465 - Policy Process and Analysis****Units: 3****When Offered:** Spring (even years) & Online

This class examines policy-making theory and practice in the United States. Theoretical models studied include rational, incremental, and institutional, group, elite, public choice, and game theory. Policy areas covered include civil rights, criminal justice, health, and welfare, education, environmental protection, economic policy, and national defense.

**Grade Type:** Letter Grade**PAD 490 - Contemporary Issues in Public Administration****Units: 3****When Offered:** Online

This course uses case studies to examine the history and scope of public administration in the United States. An emphasis is placed on both practice and theory, financial administration, problems of management, administration organization and behavior, decision-making, and intergovernmental relations.

**Grade Type:** Letter Grade**PAD 491 - Public Personnel Management****Units: 3****When Offered:** Fall (even years) & Online

The course includes theory and current practices in personnel management at the local, state, and national levels of government. Topics covered include the history and development of public personnel management, the constitutional dimensions of employment law, employee training and development, and current human resource issues such as affirmative action, sexual harassment, and cultural diversity. (This course does not meet the POL general education requirement).

**Grade Type:** Letter Grade**PAD 493 - Principles of Public Administration****Units: 3****When Offered:** Spring (odd years)

This course examines the scope of public administration. Emphasis on practice as well as theory in personnel administration, financial administration, problems of management, administrative organization, merit systems, and intergovernmental relations by the use of case studies.

**Grade Type:** Letter Grade**Public Relations**

## **PRL 202 - Introduction to Public Relations**

**Units: 3**

**When Offered:** Fall, Spring

This course will provide an introduction to the historical, theoretical and practical aspects of public relations with focus on the role of public relations in society, as well as an examination of the communication planning process.

**Grade Type:** Letter Grade

## **PRL 205 - Historical and Theoretical Foundations of Public Relations**

**Units: 3**

**When Offered:** Online

This course will examine the historical foundations of the field of public relations including communication and public relations theories that guide the practice. Students will learn practical application of various theories and practices including APR (Accreditation In Public Relations) standards.

**Grade Type:** Letter Grade

## **PRL 300 - Public Relations**

**Units: 3**

**When Offered:** Fall, Spring, & Online

Principles, history and professional practice of public relations and the writing and production of materials for special events, newsletters, and brochures.

**Grade Type:** Letter Grade

## **PRL 302 - Public Relations Writing**

**Units: 3**

**When Offered:** Fall

This course will provide students with practical application of public relations writing process for various media with focus on targeting public using research, audience analysis, and message design.

**Grade Type:** Letter Grade

## **PRL 310 - Public Relations Issues and Crisis Management**

**Units: 3**

**When Offered:** Spring

This course will examine case studies and best practices in issues and crisis management in the field of public relations. Reputation management, effective management of issues and crisis will be taught based on practical application of various proven strategies and tactics including APR (Accreditation In Public Relations) standards for issues and crisis management.

**Grade Type:** Letter Grade

## **PRL 315 - Strategic Event Planning and Experience Management**

**Units: 3**

**When Offered:** Fall

Strategy and successful practices in special event planning. Emphasis on conceptualization, strategy, analysis, user experience design, and planning considerations of small- to large-scale events. Exploration of event planning and experience management as a profession. Students will master project management theory, user experience design, and

public relations practice in relation to event planning.

**Grade Type:** Letter Grade

## **PRL 320 - Business Literacy for Public Relations Professionals**

**Units:** 3

**When Offered:** Fall

This course will examine business and finance terms and basic businesses practices as they relate to the field of public relations. Students will learn practical application of budgets, finance principles and best practices as they relate to public relations work and in line with APR (Accreditation In Public Relations) standards.

**Grade Type:** Letter Grade

## **PRL 375 - Campaigns and Reputation Management**

**Units:** 3

**When Offered:** Fall, Spring

This course will focus on public relations campaigns and the need for reputation management. Students will review case studies and best practices to identify different areas of reputation management while developing a theoretical reputation management campaign.

**Grade Type:** Letter Grade

**Prerequisite(s):** PRL 202

## **PRL 402 - Public Relations Research and Campaigns**

**Units:** 3

**When Offered:** Online

This course will provide students with the basic skills and practical experience to plan, develop, execute and evaluate public relations campaigns through case study analysis and actual campaign development. This will be achieved through case study analysis and team-based campaign development.

**Grade Type:** Letter Grade

## **PRL 430 - Principles of International Public Relations**

**Units:** 3

**When Offered:** Online

This course examines principles of practicing public relations in a global setting. Students will learn practical application of various theories regarding cultural identity, research and planning campaigns for global audiences. APR, Accreditation In Public Relations standards, will be emphasized as they relate to the practice of international public relations.

**Grade Type:** Letter Grade

## **PRL 450 - Public Relations Internship**

**Units:** 3

**When Offered:** Fall, Spring

Students enrolled in this course will gain the professional experience valued by employers by utilizing knowledge acquired as Public Relations majors in volunteer or paid internship positions. Students will perform relevant tasks under the direction of the Internship Site Supervisor. Students will identify and explore connections between their internship experiences and academic coursework.

**Grade Type:** Letter Grade

**Prerequisite(s):** Permission of the Department Chair



## **PRL 475 - Capstone: Leadership and Advanced Campaign Design**

**Units: 3**

**When Offered:** Spring

This capstone course will provide real-world public relations experience developing a comprehensive mixed media public relations plan for a local nonprofit. Students will work in public relations agencies interacting with the client while exploring team and leadership dynamics. Note: This course is for students close to graduation who have completed necessary courses to prepare them for advanced campaign design with a client.

**Grade Type:** Letter Grade

**Prerequisite(s):** PRL 375

## **Radiologic Sciences**

### **RAD 210 - Introduction to Radiologic Science Practice**

**Units: 3**

**When Offered:** Fall

This course is an introduction to the role of the Radiologic Technologist. Students will learn about the profession, including professional roles, ethics, standards, professional development, regulation, accreditation, quality management, and legal issues.

**Grade Type:** Letter Grade

### **RAD 220 - Patient Care in Radiologic Sciences with Lab**

**Units: 4**

**When Offered:** Fall

This course introduces the concepts of optimal patient care, including consideration for the physical and psychological needs of the patient and family. Routine and emergency patient care procedures are described, as well as infection control procedures using standard precautions.

**Grade Type:** Letter Grade

**Concurrent Requisite(s):** RAD 210

### **RAD 320 - Principles of Imaging**

**Units: 3**

**When Offered:** Fall

In this course students will establish a defined knowledge base of factors that govern the radiographic image production process.

**Grade Type:** Letter Grade

**Prerequisite(s):** Radiologic Science major

### **RAD 325 - Radiographic Procedures with Lab**

**Units: 4**

**When Offered:** Fall

In this course, students will develop the knowledge base necessary to perform standard imaging procedures and special studies. Consideration is given to the evaluation of optimal diagnostic imaging.

**Grade Type:** Letter Grade

**Prerequisite(s):** Radiologic Science major

## **RAD 335 - Radiologic Procedures II with Lab**

**Units: 4**

**When Offered:** Spring

In this class students will develop the knowledge necessary to perform head, chest, torso, abdominal images, and fluoroscopy procedures. Consideration is given to the evaluation of optimal diagnostic imaging.

**Grade Type:** Letter Grade

**Prerequisite(s):** Radiologic Science major and RAD 325

## **RAD 345 - Radiologic Procedures III with Lab**

**Units: 4**

**When Offered:** Fall

In this class students will obtain the knowledge necessary to perform advanced imaging of the head, abdomen, chest, fluoroscopy, trauma exams, operating room exams, and have a special procedures rotation. Consideration is given to the evaluation of optimal diagnostic imaging.

**Grade Type:** Letter Grade

**Prerequisite(s):** Radiologic Science major and RAD 335

## **RAD 350 - Clinical Practice I**

**Units: 2**

**When Offered:** Fall

Content and clinical practice experiences are designed to sequentially develop, apply, critically analyze, integrate, synthesize, and evaluate concepts and theories in the performance of radiologic procedures. Through structured, sequential, competency-based clinical assignments, concepts of team practice, patient-centered clinical practice and professional development are discussed, examined, and evaluated.

**Grade Type:** Letter Grade

**Prerequisite(s):** Radiologic Science Major

## **RAD 355 - Clinical Practice II**

**Units: 2**

**When Offered:** Spring

Content and clinical practice experiences are designed to sequentially develop, apply, critically analyze, integrate, synthesize, and evaluate concepts and theories in the performance of radiologic procedures. Through structured, sequential, competency-based clinical assignments, concepts of team practice, patient-centered clinical practice and professional development are discussed, examined, and evaluated.

**Grade Type:** Letter Grade

**Prerequisite(s):** RAD 350

## **RAD 410 - Image Analysis**

**Units: 3**

**When Offered:** Fall

This course provides a basis for analyzing radiographic images. Included are the importance of optimal imaging standards, discussion of a problem-solving technique for image evaluation and the factors that can affect image quality. Actual images will be included for analysis.

**Grade Type:** Letter Grade

**Prerequisite(s):** RAD 355

## **RAD 415 - Introduction to Computed Tomography**

**Units: 2**

**When Offered:** Online

This course is designed to provide entry-level radiography students with an introduction to and basic understanding of the operation of a computed tomography (CT) device. Content is not intended to result in clinical competency.

**Grade Type:** Letter Grade

**Prerequisite(s):** RAD 355

## **RAD 420 - Radiographic Medicine with Lab**

**Units: 4**

**When Offered:** Spring

This course provides basic concepts of pharmacology, venipuncture and administration of diagnostic contrast agents and intravenous medications. The appropriate delivery of patient care during these procedures is emphasized.

**Grade Type:** Letter Grade

**Prerequisite(s):** RAD 410 and 450

## **RAD 425 - Mammography**

**Units: 3**

**When Offered:** Summer

This course is designed to meet the California state exam requirements for the American Registry of Radiologic Technologist in mammography. Documentation will be provided upon completion for students to sit for boards.

**Grade Type:** Letter Grade

**Prerequisite(s):** Senior status and Radiologic Sciences major

**Concurrent Requisite(s):** RAD 426

## **RAD 426 - Mammography Clinical Practice**

**Units: 1**

**When Offered:** Summer

The course satisfies the clinical component of the Mammography course and provides the clinical education necessary to meet the California state exam requirements, as well as the American Registry of Radiologic Technologist in mammography. Documentation will be provided upon completion for students to sit for boards.

**Grade Type:** Letter Grade

**Prerequisite(s):** Senior status and Radiologic Sciences major

**Concurrent Requisite(s):** RAD 425

## **RAD 440 - Radiologic Biology and Physics with Lab**

**Units: 4**

**When Offered:** Spring

This course provides an overview of the principles of the interaction of radiation with living systems. Radiation effects on molecules, cells, tissues and the body as a whole are presented. Factors affecting biological response are presented, including acute and chronic effects of radiation. In addition, this course establishes a basic knowledge of atomic structure and terminology. Also presented are the nature and characteristics of radiation, x-ray production and the fundamentals of photon interactions with matter.

**Grade Type:** Letter Grade

**Prerequisite(s):** Radiologic Science major

## **RAD 450 - Clinical Practice III**

**Units: 4**

**When Offered:** Summer

Content and clinical practice experiences are designed to sequentially develop, apply, critically analyze, integrate, synthesize, and evaluate concepts and theories in the performance of radiologic procedures. Through structured, sequential, competency-based clinical assignments, concepts of team practice, patient-centered clinical practice and professional development are discussed, examined, and evaluated.

**Grade Type:** Letter Grade

**Prerequisite(s):** RAD 355

## **RAD 455 - Clinical Practice IV**

**Units: 4**

**When Offered:** Fall

Content and clinical practice experiences are designed to sequentially develop, apply, critically analyze, integrate, synthesize, and evaluate concepts and theories in the performance of radiologic procedures. Through structured, sequential, competency-based clinical assignments, concepts of team practice, patient-centered clinical practice and professional development are discussed, examined, and evaluated.

**Grade Type:** Letter Grade

**Prerequisite(s):** RAD 450

## **RAD 460 - Clinical Practice V**

**Units: 4**

**When Offered:** Spring

Content and clinical practice experiences are designed to sequentially develop, apply, critically analyze, integrate, synthesize, and evaluate concepts and theories in the performance of radiologic procedures. Through structured, sequential, competency-based clinical assignments, concepts of team practice, patient-centered clinical practice and professional development are discussed, examined, and evaluated.

**Grade Type:** Letter Grade

**Prerequisite(s):** RAD 455

## **RAD 490 - Cross-Sectional Pathology**

**Units: 2**

**When Offered:** Summer

This course introduces concepts related to disease with etiological considerations. This course provides an understanding of how the disease process works and recognizing the radiographic appearance of specific diseases. Anatomical structures will be located and identified in axial (transverse), sagittal, coronal and orthogonal (oblique) planes.

**Grade Type:** Letter Grade

**Pre- or Co- Requisite(s):** RAD 499

## **RAD 494 - Radiologic Fluoroscopy**

**Units: 3**

**When Offered:** Summer

This course provides an introduction to the fluoroscopic imaging system and methods of reducing public and occupational doses of radiation. The course prepares students for the California Fluoroscopy Permit Exam.

**Grade Type:** Letter Grade

**Prerequisite(s):** Permission of the Department Chair

## **RAD 495 - Radiologic Sciences Capstone**

**Units:** 2

**When Offered:** Online

In this course, students will reflect on their classroom, lab, and clinical experiences, culminating in a portfolio of their academic experience. In addition, students will begin preparing to take licensure and certification examinations that will qualify them to practice as professional radiographers.

**Grade Type:** Letter Grade

**Prerequisite(s):** RAD 450

## **RAD 496 - Comprehensive Review**

**Units:** 3

**When Offered:** Spring

This course is designed to prepare students for the American Registry of Radiologic Technologists (ARRT) exam in Radiography. This course will provide a comprehensive review that will prepare students to successfully pass their ARRT board exam. This course will include a mock board review exam.

**Grade Type:** Letter Grade

**Prerequisite(s):** Radiologic Science major

## **RAD 499 - Cross-Sectional Anatomy**

**Units:** 3

**When Offered:** Summer

This course will serve as a review of cross-sectional anatomy. Anatomical structures will be identified and demonstrated in axial (transverse), sagittal, coronal and orthogonal (oblique) planes using cross-section imaging. The images will be referenced and compared to MR, ultrasound and CT planes.

**Grade Type:** Letter Grade

**Prerequisite(s):** Enrolled in a radiologic science program or a licensed radiologic technologist

## **Real Estate Management**

### **REM 301 - Real Estate Principles**

**Units:** 3

**When Offered:** Fall

This introductory course will review real estate terminology, real estate law, real estate finance, mortgages, taxes, escrow, acquisition and transfer of real property, liens and encumbrances, leases, contracts, unlawful discrimination, agency, business principles, and ethics.

**Grade Type:** Letter Grade

### **REM 306 - Real Estate Development**

**Units:** 3

**When Offered:** As offered

This course is designed to provide an overview of the real estate development process with an emphasis on analysis, risk management, and decision-making relative to changing economic, environmental, institutional, regulatory, and

social contexts. Topics discussed include but are not limited to market analysis, feasibility analysis, site acquisition, due diligence, zoning, entitlements, approvals, site planning, building design, construction, financing, leasing, and ongoing management and disposition.

**Grade Type:** Letter Grade

## **REM 336 - Real Estate Practice**

**Units:** 3

**When Offered:** Spring

Subjects discussed in this course are the major topics of Law, Agency Issues, Contracts and Closings, Financing, Taxation, Leasing and other practical topics geared toward the successful practice of real estate. This course focuses on what it takes to succeed in the real estate business. Field work required.

**Grade Type:** Letter Grade

**Prerequisite(s):** REM 301

## **REM 406 - Real Estate Law**

**Units:** 3

**When Offered:** Fall (even years)

An examination of the fundamentals of real estate from a legal perspective. Topics include: contracts, real property rights and ownership, agency law, landlord and tenant rights, liens, encumbrances, land use, title, and real estate licensure laws.

**Grade Type:** Letter Grade

**Prerequisite(s):** REM 301

## **REM 436 - Real Estate Finance**

**Units:** 3

**When Offered:** Spring (odd years)

An intermediate finance course reviewing the role of finance in the real estate marketplace. Course topics include: residential and commercial mortgages, interest rates, appraisal, underwriting, income property and investment analysis, risk, valuation, taxation, the secondary mortgage market, and REITS.

**Grade Type:** Letter Grade

**Prerequisite(s):** REM 301

## **Russian**

### **RUS 115 - Russian I**

**Units:** 3

**When Offered:** As offered

The course concentrates on developing basic skills in listening, reading, speaking, and writing. Emphasis is placed on acquisition of vocabulary, structures and grammatical patterns necessary for comprehension of native spoken and written Russian at the beginning level. This course includes discussion of Russian culture and daily life. It is presumed that the student's vocabulary will grow as the new rules of grammar are studied during this course.

**Grade Type:** Letter Grade

### **RUS 125 - Russian II**

**Units: 3**

**When Offered:** As offered

The course concentrates on continuation of developing basic skills in all four areas of language studies: listening, reading, speaking, and writing. Emphasis is placed on conversation, acquisition of vocabulary, structures and grammatical patterns necessary for comprehension of native spoken and written Russian at the beginning intermediate level. Continued discussion of Russian culture and daily life. It is presumed the student's vocabulary will grow as the new rules of grammar are studied during the course. Since the ability to read and the phonology of language are already acquired in the beginning course, the class will create an advanced ability to comprehend and communicate in Russian.

**Grade Type:** Letter Grade

**Prerequisite(s):** RUS 115

## Science

### SCI 120 - Marine Science with Lab

**Units: 4**

**When Offered:** Fall, Spring

A consideration of the sea as a biological environment, of the biota, and of the interrelationships existing between marine organisms and the physical, chemical, and biological aspects of their environments. The course provides a field and laboratory course emphasizing identification and life histories of marine organisms. Does not meet the science/lab requirement for Liberal Studies waiver.

**Grade Type:** Letter Grade

**Lecture:** 3 units **Lab:** 1 unit

**Fee:** Additional catalina lab fee

### SCI 200 - Special Topics

**Units: 3**

**When Offered:** As offered

Concentration upon a specific topic in the field of Science. Topic varies for different semesters.

**Repeatable:** May be repeated for credit with change in topic

**Grade Type:** Letter Grade

### SCI 200L - Special Topics Lab

**Units: 1**

**When Offered:** As offered

This laboratory course will be offered in conjunction with the special topics course to provide instruction with hands on experience. Topic varies for different semesters.

**Repeatable:** May be repeated for credit with change in topic

**Grade Type:** Letter Grade

**Fee:** Additional lab fee

### SCI 205 - Introduction to Forensic Science with Lab

**Units: 4**

**When Offered:** Spring

In this course students will integrate and apply concepts from a variety of disciplines such as chemistry, physics, biology, mathematics, etc., to the study of forensic science. The theoretical foundations of common forensic science techniques will be covered along with applications to specific forensic scenarios.

**Grade Type:** Letter Grade

**Lecture:** 3 units **Lab:** 1 unit

**Fee:** Additional lab fee

## **SCI 311 - Genetic Engineering and Society**

**Units:** 4

**When Offered:** As offered

This is an interdisciplinary course involving studies from a variety of disciplines including but not limited to: science, philosophy, religion, law, and behavioral science. We will study the science behind the human genome and stay abreast of the continuing developments within the Human Genome Project. In addition, we will study the scientific, ethical, legal and social implication of the Human Genome Project and genetic engineering in general. Previous coursework in some of the following disciplines is recommended: science, religion, philosophy, ethics, and behavioral science.

**Grade Type:** Letter Grade

**Lecture:** 3 units lecture and 1 unit of seminar

**Prerequisite(s):** Sophomore status

## **SCI 323 - History and Philosophy of Science**

**Units:** 3

**When Offered:** As offered

A study of the developments, philosophy, and concepts of science and the contributions of great scientists. Focus is based on issues related to the Bible and religious worldviews. Emphasis is placed on the mathematical and physical sciences.

**Grade Type:** Letter Grade

## **SCI 401 - Science and Technology: Its Impact Upon Society**

**Units:** 3

**When Offered:** As offered

Discusses the interaction between science and its products on our changing society. Emphasis is on the scientific method; modern topics in the physical sciences such as nuclear power, government involvement, restoration/management, genetic engineering, ethics, and future challenges.

**Grade Type:** Letter Grade

## **SCI 412 - Topics Marine Science**

**Units:** 1-4

**When Offered:** As offered

This class deals with research projects and topics of current or historical interest which are not normally covered in other established courses. Content variable from year to year.

**Grade Type:** Letter Grade

**Fee:** Additional catalina lab fee

**Prerequisite(s):** BIO 148

## **Social Science**

### **SSC 394 - Social Science in the Classroom**

**Units:** 3

**When Offered:** As offered



The course introduces classroom pedagogical issues specific to teaching social science at the secondary level as an orientation to a teaching career. Emphasis will be given to fieldwork, teaching methods, administrative expectations, and professional exposure in the content area.

**Grade Type:** Letter Grade

## **Social Work**

### **SWK 300 - Introduction to Social Work**

**Units:** 3

**When Offered:** Fall, Spring

An introduction to the knowledge, values, ethics, skills, systems, and settings of generalist social work practice. A historic overview of political, economical, and cultural factors that influence the profession. This course is a prerequisite for all other courses in Social Work.

**Grade Type:** Letter Grade

### **SWK 315 - Congregational Social Work**

**Units:** 3

**When Offered:** Fall

This course explores the critical role of the Christian church in the history and development of the social work profession, social work values and ethics, and techniques employed in social work practice. Students will see church congregations as vital contexts for social work practice.

**Grade Type:** Letter Grade

**Prerequisite(s):** BEH 250, SWK 300, and Social Work major

### **SWK 335 - Substance Use Disorders, Treatment, and Recovery**

**Units:** 3

**When Offered:** Spring

This course is a survey of substance use disorders, treatment, and recovery models, including a historical and contemporary understanding of addiction, and its impact on individuals, families, and society.

**Grade Type:** Letter Grade

**Prerequisite(s):** SWK 300

### **SWK 340 - Mental Health First Aid**

**Units:** 3

**When Offered:** Fall

Mental Health First Aid is a national program, operated by the National Council for Behavioral Health in partnership with the Missouri Department of Behavioral Health. The Mental Health First Aid course is generally taught as an 8-hour course that gives people the skills to help someone who is developing a mental health problem or experiencing a mental health crisis. This class is designed to provide social work students with a more in-depth look into mental health issues, treatment, and public responses, while assisting all students in becoming certified "First Responders" upon completion of the course. The evidence behind the program demonstrates that it does build mental health literacy, helping the public identify, understand, and respond to signs of mental illness.

**Grade Type:** Letter Grade

### **SWK 345 - Trauma in Children**

**Units: 3**

**When Offered:** Spring

This course will introduce students to the definition of trauma, the prevalence of children experiencing trauma locally, nationally and globally, as well as the physical, emotional, cognitive, social and spiritual impact trauma can have on children and adolescents. The concepts of trauma informed practice, resilience, and evidence based practices with children experiencing trauma are key components of the course. The role of social workers in working with children experiencing trauma locally, nationally and globally is also a key feature of the course. Although trauma is broadly defined, the course will focus mainly on abuse and neglect, violence, natural disasters, war, and medical trauma.

**Grade Type:** Letter Grade

## **SWK 361 - Global Social Work Policy**

**Units: 3**

**When Offered:** Spring

This course will expose students to a variety of global social issues related to social welfare and social development. Engaging in critical thinking and analysis of global social welfare issues, students will explore how political, economic and cultural, faith-based, historical, and environmental factors impact social welfare policies and the global delivery of human services.

**Grade Type:** Letter Grade

**Prerequisite(s):** SWK 300 and Social Work major

## **SWK 371 - Spirituality and the Helping Professionals**

**Units: 3**

**When Offered:** Fall

This course is an introduction to the role of spirituality, religion, and secularism in micro, mezzo, and macro social work practice. Students will examine their own personal values, morals, spirituality, religious, and secular traditions and reconcile any differences between these personal values and professional, ethical practice with diverse clients.

**Grade Type:** Letter Grade

**Prerequisite(s):** SWK 300 and Social Work major

## **SWK 380 - Introduction to Medical Social Work**

**Units: 3**

**When Offered:** Fall

Students learn about the critical role of social workers in health care settings using bio-psycho-social-spiritual assessments and interventions to assist health practitioners, patients, and their families in addressing medical concerns, social determinants of health, and the social-cultural meanings ascribed to illness.

**Grade Type:** Letter Grade

**Prerequisite(s):** BEH 250, SWK 300, and Social Work major

## **SWK 381 - Introduction to Child and Family Welfare**

**Units: 3**

**When Offered:** Fall

This course examines the social welfare policies, programs, and services to families and children, historically known as "child welfare services". It explores major issues facing children, youth and families, critically examining the assumptions, values, and philosophical perspectives underlying the social policies that shape child welfare.

**Grade Type:** Letter Grade

**Prerequisite(s):** SWK 300 and Social Work major

## **SWK 399 - Independent Study**

**Units: 1-3**

**When Offered:** As offered

An opportunity for students who have demonstrated the ability to do independent work to pursue in depth a topic of particular interest.

**Grade Type:** Letter Grade

## **SWK 400 - Special Topics in Social Work**

**Units: 3**

**When Offered:** As offered

This course is designed to be an in-depth seminar on a selected topic within the field of social work.

**Repeatable:** May be repeated for a maximum of nine (9) units with change in topic

**Grade Type:** Letter Grade

**Prerequisite(s):** SWK 300

## **SWK 401 - Social Work Practice I**

**Units: 3**

**When Offered:** Fall

This course provides foundational knowledge and skills of generalist social work practice, while exploring social work history, theory, ethics, problem solving, and diversity in social work practice with individual client systems.

**Grade Type:** Letter Grade

**Prerequisite(s):** SWK 300, Social Work major, and Senior status

## **SWK 405 - Social Work Practice II**

**Units: 3**

**When Offered:** Spring

This course provides the foundational knowledge and skills in generalist Social Work practice utilizing problem-solving models for work with Macro (organization and community) systems and considers implications for vulnerable and marginalized populations.

**Grade Type:** Letter Grade

**Prerequisite(s):** SWK 300, Social Work major, and Senior status

## **SWK 410 - Human Behavior and the Social Environment I**

**Units: 3**

**When Offered:** Fall

This foundation course explores the theories, themes, and issues concerning the interaction among individuals as they grow, change, and develop over the lifespan and the impact of their social context on their development.

**Grade Type:** Letter Grade

**Prerequisite(s):** Social Work major and Senior status

## **SWK 415 - Human Behavior and the Social Environment II**

**Units: 3**

**When Offered:** Spring

This foundation course presents and critiques theories of human behavior as they relate to mezzo and macro systems, such as family, groups, organizations, and communities. Students will apply knowledge of person-in-environment and

other multidisciplinary theoretical frameworks to macro client systems to address social injustice.

**Grade Type:** Letter Grade

**Prerequisite(s):** SWK 410 and Social Work major

## **SWK 420 - Social Work Policy**

**Units:** 3

**When Offered:** Spring

This foundation course examines the history and philosophy of social work and social welfare policy in the United States as it relates to poverty, oppression, and marginalized groups. The course focuses on policy analysis and addresses the role of policy in effective service delivery for vulnerable/marginalized populations.

**Grade Type:** Letter Grade

**Fee:** Additional course fee

**Prerequisite(s):** Social Work major and Senior status

## **SWK 421 - Field Practicum I**

**Units:** 3

**When Offered:** Fall

This course allows students to practice social work in agency settings under qualified educational supervision, serving vulnerable and oppressed populations while learning generalist skills.

**Grade Type:** Letter Grade

**Fee:** Additional course fee

**Prerequisite(s):** Social Work major and Senior status

**Pre- or Co- Requisite(s):** SWK 401

## **SWK 435 - Case Management**

**Units:** 3

**When Offered:** Fall

This foundation course provides an overview of the history of case management and provides an in-depth analysis of case management from a strengths perspective. Client engagement, assessment, intervention, advocacy, evaluation, and termination are addressed in depth on micro through macro levels.

**Grade Type:** Letter Grade

**Prerequisite(s):** Social Work major and Senior status

## **SWK 451 - Field Practicum II**

**Units:** 3

**When Offered:** Spring

This course allows students to continue to practice social work in agency settings under qualified educational supervision, serving vulnerable and oppressed populations while learning generalist skills.

**Grade Type:** Letter Grade

**Prerequisite(s):** SWK 421, Social Work major, and Senior status

**Pre- or Co- Requisite(s):** SWK 405

## **SWK 462 - Marginalized Populations**

**Units:** 3

**When Offered:** Fall

This course addresses what it means to be marginalized and presents information on the history and current status of various vulnerable populations domestically and globally. The course explores the importance of cultural competence in engaging, assessing, and intervening with client systems.

**Grade Type:** Letter Grade

**Prerequisite(s):** Social Work major

## **Sociology**

### **SOC 200 - Special Topics in Sociology**

**Units:** 3

**When Offered:** As offered

An in-depth seminar on a selected topic within the Behavioral Sciences.

**Repeatable:** May be repeated for credit with change in topic

**Grade Type:** Letter Grade

**Prerequisite(s):** SOC 213

### **SOC 213 - Introduction to Sociology**

**Units:** 3

**When Offered:** Fall, Spring, & Online

A general introduction to the scientific study of human behavior in social settings. It includes major theories of human behavior in terms of culture, socialization, primary groups, stratification and social class, population, family, religion, and social change.

**Grade Type:** Letter Grade

### **SOC 301 - Self and Society**

**Units:** 3

**When Offered:** Online

Self and society seeks to answer the process questions concerning the ways and the reasons social forces affect social outcomes, often by affecting the thinking and action of individuals in society. Although the specific topics investigated by microsociologists range widely the focus on external social influences on individual attitudes and social interaction remains the constant perspective, which unifies the field. They will apply that perspective to a range of topics generally concerned with how we influence others and are, in turn, influenced by them.

**Grade Type:** Letter Grade

### **SOC 323 - Marriage and the Family**

**Units:** 3

**When Offered:** Fall, Spring, & Online

This course addresses the social institutions of marriage and family using a theoretical and research-based approach to examine the social, behavioral, and psychological aspects as they are practiced in American culture. The course discusses dating, mate selection, the experience of marriage, marital challenges, and diversity in family forms. The course defines and evaluates marriage and the family from sociological, psychological, and biblical perspectives.

**Grade Type:** Letter Grade

### **SOC 335 - Social Problems**

**Units: 3**

**When Offered:** Spring & Online

A study of the nature and meaning of social problems and deviant behavior in American Society. The incidence and characteristics of selected social problems of major public interest will be explored.

**Grade Type:** Letter Grade

## **SOC 337 - Deviant Behavior**

**Units: 3**

**When Offered:** Fall & Online

This course primarily examines the definition and social construction of deviant behavior. Major sociological perspectives and theories will be applied. Specific topics of exploration include various forms of interpersonal violence, suicide, mental disorder, sexuality, substance use and abuse, and internet deviance.

**Grade Type:** Letter Grade

## **SOC 338 - Group Dynamics and Social Movements**

**Units: 3**

**When Offered:** Spring & Online

The course addresses the sociological and social psychology dimensions of group behavior, the influences on the socialization of the individual, social interaction and impacts on patterned roles and authority structures. Theories will be applied in group experiences, observations, writing, and problem solving.

**Grade Type:** Letter Grade

## **SOC 345 - Race and Ethnicity**

**Units: 3**

**When Offered:** Spring & Online

This course will focus on the sociological approach to the ascribed statuses of race, class, and gender in American Society. Also explores how these social concepts are perceived, reinforced, and altered through social institutions, social interaction, media influence, and the dynamics of social change.

**Grade Type:** Letter Grade

## **SOC 347 - Sociology of Gender**

**Units: 3**

**When Offered:** Spring & Online

An examination of the way in which macro institutions and micro institutions structure gender relations in society, and how gender in turn structures and stratifies the social order. From the perspective of personal identity, we will ask how it is that we experience ourselves as male and female. The social consequences of gender stratification are considered including such substantive topic areas as the sexual division of labor, sexual politics, and sexual violence.

**Grade Type:** Letter Grade

## **SOC 348 - Sociology of Aging**

**Units: 3**

**When Offered:** Spring

This course will critically look at aging as a social process in addition to its biological and psychological components. Additionally, it will identify the aging population in our present society, the various social experiences associated with aging as well as the socioeconomic issues related to aging.

**Grade Type:** Letter Grade

## **SOC 349 - Sociology of Religion**

**Units: 3**

**When Offered:** As offered

This course examines and applies social science theories and perspectives to understanding the human and social construction of religion, including the examination of how religious groups are organized, their cultural settings, political and economic correlates, and capabilities as agents of social change. In addition, the course explores the intersection between the secular social construct of religion, the cultural-Christian expression of religion, and the biblical model of kinship relations and community.

**Grade Type:** Letter Grade

## **SOC 352 - Sociology of Health and Illness**

**Units: 3**

**When Offered:** Online

This course applies sociological principles to medicine, health, illness, and healthcare. Topics include but are not limited to: medical and sociological models of illness, epidemiology, epidemics, an (abbreviated) history of medicine in the West, public health, the social stratification of illness, medicalization and de-medicalization of illness, disability, individuals' experience of illness, the medical profession, healthcare systems in developing countries, healthcare provision, access and delivery, complementary and alternative healthcare, and, the contemporary U.S. health movement.

**Grade Type:** Letter Grade

## **SOC 355 - Social Stratification**

**Units: 3**

**When Offered:** Fall

This course explores the development, patterns, structures, and consequences of social inequality, with emphasis on social progress, how American institutions are affected, and how social interactions react to institutionalized inequality. Dynamics of resistance and social change are also discussed.

**Grade Type:** Letter Grade

## **SOC 381 - Social Theory**

**Units: 3**

**When Offered:** Fall & Online

This course introduces classical and contemporary sociological theories to examine the fundamental forces that influence human interactions in daily living. Specific emphasis is given to the relationships between social institutions, social and economic power, socially constructed reality, and cultural effects on individual identity, expression, and opportunities in society. Recognition of the differences between the secular patterns of norms and behaviors are paralleled with faith integration on constructs of beliefs and behaviors.

**Grade Type:** Letter Grade

**Prerequisite(s):** SOC 213

## **SOC 399 - Independent Study**

**Units: 3**

**When Offered:** As offered

An opportunity for students who have demonstrated the ability to do independent work to pursue in depth a topic of particular interest.

**Grade Type:** Letter Grade

**Prerequisite(s):** SOC 213

## **SOC 400 - Special Topics in Sociology**

**Units:** 3

**When Offered:** As offered

An in-depth seminar on a selected topic within the Behavioral Sciences.

**Repeatable:** May be repeated for credit with change in topic

**Grade Type:** Letter Grade

## **Spanish**

### **SPA 101 - Introduction to the Discipline**

**Units:** 1

**When Offered:** Fall

This course introduces a consideration of personal worldview, faith, and the discipline of Spanish, including literary studies and writing in Spanish. It is also designed to introduce students to the basic skills necessary for academic success in the discipline of Spanish and to provide students with an overview of the discipline, including requirements of the major and expectations of the professions in which that major may be applied.

**Grade Type:** Pass/Fail

### **SPA 110 - Spanish for Health Care Professionals I**

**Units:** 3

**When Offered:** Fall, Spring

This course is designed to introduce the non-native Spanish speaking student to basic vocabulary, phrases, and cultural considerations necessary to communicate effectively with Spanish speakers in a healthcare setting. The course will prepare students to perform daily activities and tasks such as collecting and assessing a medical history, assessing health risks, and making appointments with Spanish speaking patients. There is no language prerequisite for the course, but students may find prior language learning experience useful. Students wishing to acquire general conversational skills or fluency in Spanish should enroll in traditional Spanish language classes.

**Grade Type:** Letter Grade

### **SPA 115 - Elementary Spanish I**

**Units:** 3

**When Offered:** Fall, Spring, & Online

A study of the fundamentals of the Spanish language. Emphasis is on the ability to write, read, speak, and understand simple Spanish through a variety of activities, both in and out of the classroom, homework assignments, and language lab participation. Must pass with a C- or better to continue in SPA 125.

**Grade Type:** Letter Grade

### **SPA 120 - Spanish for Health Care Professionals II**

**Units:** 3

**When Offered:** Fall, Spring

This course is designed for students who have learned basic Spanish phrases and vocabulary relevant to healthcare professions. The course will afford students the opportunity to perform daily activities and tasks such as collecting and



assessing a medical history, assessing health risks, making appointments, etc. with Spanish speaking patients in a public health setting. This course involves regular field experience in public healthcare setting.

**Grade Type:** Letter Grade

**Prerequisite(s):** SPA 110 or 115

## **SPA 125 - Elementary Spanish II**

**Units:** 3

**When Offered:** Fall, Spring, & Online

Completion of the fundamentals of the Spanish language with emphasis upon correct pronunciation and mastery of a practical vocabulary. Practice on oral and written expression through a variety of activities, both in and out of the classroom, homework assignments, and language lab participation. Simple study of Hispanic civilization.

**Grade Type:** Letter Grade

**Prerequisite(s):** SPA 110 or 115

## **SPA 130 - Spanish for Heritage Speakers I**

**Units:** 3

**When Offered:** Fall, Spring

This course will build upon and further develop the informal knowledge of Spanish that heritage learners bring to the classroom and cultivate formal speaking, reading, and writing abilities. Students are not expected to have any formal training in written Spanish prior to enrolling in this course.

\*Cannot receive credit for both SPA 125 and SPA 130.

**Grade Type:** Letter Grade

## **SPA 213 - Intermediate Spanish I**

**Units:** 3

**When Offered:** Fall, Spring

A review of Spanish grammar with special emphasis upon idiomatic language and verb forms. Conversation, translation, composition, and collateral reading of modern Spanish prose.

**Grade Type:** Letter Grade

**Prerequisite(s):** SPA 120, 125, 130, or equivalent

## **SPA 223 - Intermediate Spanish II**

**Units:** 3

**When Offered:** Fall, Spring

Continued grammar review and reading, translation, and interpretation of modern Spanish poetry and prose. Classroom activities are supplemented with a variety of homework assignments and language lab participation.

\*Cannot receive credit for both SPA 223 and SPA 230.

**Grade Type:** Letter Grade

**Prerequisite(s):** SPA 120, 125, 130, or equivalent

## **SPA 230 - Spanish for Heritage Speakers II**

**Units:** 3

**When Offered:** Fall, Spring

This course is designed specifically for heritage speakers of Spanish with oral proficiency, but little formal training in the language. It will emphasize activities which will acquaint students with Spanish in its written form and which will

expand students' overall knowledge of the language. This course will review the principles of Spanish grammar, emphasizing their application to composition.

\*Cannot receive credit for both SPA 223 and SPA 230.

**Grade Type:** Letter Grade

**Prerequisite(s):** SPA 115, 125, 130, or assessment

## **SPA 233 - Intermediate Conversational Spanish**

**Units:** 3

**When Offered:** Spring

This course takes a functional, integrated skills approach for intermediate students of Spanish. The course is a two-skills communicative based program (oral or aural). The course develops language proficiency and an awareness and appreciation of Latin American culture. The course will provide comprehensible input in a low anxiety environment in order to enhance second language acquisition. The course is designed to put into practice the thematic vocabulary that has been presented during the elementary and intermediate courses.

**Grade Type:** Letter Grade

**Prerequisite(s):** SPA 120, 125, 130, or equivalent

## **SPA 305 - Conversational Spanish for the Professions**

**Units:** 3

**When Offered:** Spring (even years)

This course takes a functional, integrated skills approach for intermediate students of Spanish. The course will provide comprehensive input in a low anxiety environment in order to enhance second language acquisition. The course is designed to build Spanish conversational skills within diverse professional settings.

**Grade Type:** Letter Grade

**Prerequisite(s):** SPA 120, 125, or 130

## **SPA 315 - Introduction to Hispanic Literature**

**Units:** 3

**When Offered:** Spring

This course explores different genres of Spanish and Hispanic literatures, focusing on critical reading and ways of writing about literature. Throughout this course, students will gain a basic understanding of current literary theory and literary strategies, while examining literary movements in the Spanish-speaking world and their socio-historical contexts.

**Grade Type:** Letter Grade

**Prerequisite(s):** SPA 223, 233, or 305

## **SPA 324 - Iberian Civilization and Culture**

**Units:** 3

**When Offered:** Spring (even years)

A study of the civilization and culture of Spain from the formation of Iberian civilization to the present. This study covers history, geography, art, architecture, literature and other aspects of civilization and culture. This course is conducted in Spanish and provides the background for studies in Iberian Literature.

**Grade Type:** Letter Grade

**Prerequisite(s):** SPA 223, 230, or 233

## **SPA 325 - Spanish Grammar in Context and Composition**

**Units: 3**

**When Offered:** Fall

This course reviews elementary and intermediate level structures of Spanish and introduces advanced grammatical constructions. Emphasis is placed on developing correct writing skills in the Spanish language.

**Grade Type:** Letter Grade

**Prerequisite(s):** SPA 223, 230, or 233

## **SPA 330 - Hispanic Literature and Film**

**Units: 3**

**When Offered:** Fall (even years)

This course examines a selection of feature literary masterpieces and films from Spain, Mexico, Argentina, and Peru using film theory, cultural theory, and feminist approaches. This course evaluates the importance and correlation between literary and film studies with the present. The objective of this course is to rethink the relationship between visual cultural production and concepts of gender and social change.

**Grade Type:** Letter Grade

**Prerequisite(s):** SPA 223, 230, or 233

## **SPA 335 - Spanish in the Professions**

**Units: 3**

**When Offered:** Spring (odd years)

Study of the application of linguistic skills in a professional setting.

**Grade Type:** Letter Grade

**Prerequisite(s):** SPA 223, 230, 233, or 305

## **SPA 337 - Advanced Spanish for Healthcare Professions**

**Units: 3**

**When Offered:** Fall (odd years)

This course is for students in medical fields who will often come into contact with Spanish speaking persons in medical situations both in their professions and during preparation for these professions. This course is designed to prepare students for such situations focusing on the correct use of medical terminology in Spanish. Students will be able to interview patients and record their medical histories accurately and completely, as well as explain correctly, and in a culturally appropriate way to this type of patient the medical tests and procedures needed. Emphasis will be placed on terms most commonly used in communication between a health care provider and a patient.

**Grade Type:** Letter Grade

**Prerequisite(s):** SPA 223, 230, or 233

## **SPA 339 - Modern Mexican Literature and Film**

**Units: 3**

**When Offered:** Fall (odd years)

This course provides an introduction to the study of Mexican literature and film of the twentieth and twenty-first century. In this course, students will learn to analyze and interpret masterpieces in a variety of genres. Students will develop literacy and analytical skills in reading, interpreting, and writing Spanish. This course also provides an introduction to the study and application of film theory and literary criticism.

**Grade Type:** Letter Grade

**Prerequisite(s):** SPA 223, 230, or 233

## **SPA 345 - Survey of Iberian Literature I**

**Units: 3**

**When Offered:** Spring (odd years)

Covers multiple genres of literature produced in Spain from ancient times to the 16th century.

**Grade Type:** Letter Grade

**Prerequisite(s):** SPA 223, 230, or 233

## **SPA 365 - Survey of Iberian Literature II**

**Units: 3**

**When Offered:** Fall (odd years)

This course studies major works in Iberian literature written from the Golden Age to present times. Many literary movements come to life throughout the study of these works. This course brings forth the conflict between tradition and reform that characterized Spanish literature throughout the last centuries.

**Grade Type:** Letter Grade

**Prerequisite(s):** SPA 223, 230, or 233

## **SPA 399 - Independent Study**

**Units: 1-3**

**When Offered:** As offered

An opportunity for students who have demonstrated the ability to do independent work to pursue in depth a topic of particular interest.

**Grade Type:** Letter Grade

## **SPA 400 - Special Topics**

**Units: 1-3**

**When Offered:** As offered

Focuses on a different topic each time offered.

**Repeatable:** May be repeated for credit with change in topic

**Grade Type:** Letter Grade

## **SPA 411 - Spanish-English Comparative Structures**

**Units: 3**

**When Offered:** As offered

An introductory linguistic description of the Spanish language with a special focus on its main differences with English. By means of comparing the two languages, students will discover the main problematic contrasts for an English-speaking student of Spanish. Topics to be covered include: morphology, syllabification, stress placement, grammar, word meaning, language usage and syntax.

**Grade Type:** Letter Grade

**Prerequisite(s):** SPA 223 or 230

## **SPA 414 - Latin American Literature I**

**Units: 3**

**When Offered:** Spring (even years)

Explores Latin American literature from early periods to the 19th century. Emphasis will be placed on different genres arising from both indigenous traditions, ethnographical narratives of the conquest, and major works written during the colonial and emancipation periods.

**Grade Type:** Letter Grade

**Prerequisite(s):** SPA 223, 230, or 233

## **SPA 424 - Latin American Literature II**

**Units:** 3

**When Offered:** Fall (even years)

This course studies major works in Latin American literature written from the nineteenth century to present times.

Emphasis is placed on literary movements and genres that came to life during these centuries, among them:

Modernism, Postmodernism, Revolutionary Narratives, Indigenous Novels, and Vanguard Poetry.

**Grade Type:** Letter Grade

**Prerequisite(s):** SPA 223, 230, or 233

## **SPA 465 - Spanish-English Translation and Interpretation**

**Units:** 3

**When Offered:** Spring (odd years)

This course will serve as an introduction to translation theory and practice between Spanish and English. Emphasis is placed on practical simultaneous interpretation. The course will also provide an introduction to Spanish linguistics and will give a general overview of phonology, morphology, and comparative English/Spanish syntax.

**Grade Type:** Letter Grade

**Prerequisite(s):** SPA 223, 230, or 233

## **SPA 470 - Spanish for Education**

**Units:** 3

**When Offered:** As offered

This course serves as an introduction to Second Language Acquisition theory for students who plan to teach language in K-12. The course covers contemporary theory of the process of learning a second language, as well as pedagogical approaches to teaching language to non-native speakers in K-12.

**Grade Type:** Letter Grade

**Prerequisite(s):** SPA 325

## **SPA 491 - Internship**

**Units:** 3

**When Offered:** Fall, Spring, Summer

The purpose of this course is to provide students the opportunity to practice the written, oral, research, analytical, and/or technological skills developed in their field of study under the direct supervision of a practitioner in a professional field. In consultation with the internship coordinator, the student works in the field through supervised practical experiences with a professional organization.

**Repeatable:** May be repeated for a maximum of six (6) units

**Grade Type:** Letter Grade

**Prerequisite(s):** Permission of the Program Director and/or Department Chair

## **SPA 499 - Capstone**

**Units:** 3

**When Offered:** Spring

This course reviews and organizes the linguistic, literary, and cultural knowledge acquired by senior students throughout their course of studies in the Spanish program. Students will demonstrate this knowledge and their

advanced proficiency levels in oral and written Spanish by developing and presenting a capstone portfolio.

**Grade Type:** Letter Grade

**Fee:** Additional course fee

**Prerequisite(s):** Senior status

## **Sport and Performance Psychology**

### **SPP 410 - Psychology of Performance Recovery**

**Units:** 3

**When Offered:** Fall & Online

This focus of this course is on addressing the practice of psychological issues and cognitive variables that may hinder one's performance recovery. The complex psychological nature of recovery, both physical and cognitive, whether from injury or psychological distress, will be discussed. This course will allow the student to explore performance recovery from multiple areas and approaches, as well as concentrating on theoretical foundations of behaviors, psychological intervention of performance problems, prevention, recovery, and strategies/mental health issues related to performance.

**Grade Type:** Letter Grade

**Prerequisite(s):** PSY 213

### **SPP 420 - Social Implications of Sport and Performance**

**Units:** 3

**When Offered:** Spring & Online

This course explores the establishment of relationships among psychology, social relationships, and performance within various social environments and contexts. Key topics such as social support, diversity, impact of media, coaching relationships, and the wider social contexts of individual performance will be examined and discussed. The course will utilize both theoretical and research findings to suggest practical applications for assisting with human performance.

**Grade Type:** Letter Grade

**Prerequisite(s):** PSY 213

### **SPP 430 - Ethics and Leadership in Performance Psychology**

**Units:** 3

**When Offered:** Fall & Online

This course is centered around the leadership and ethics needed to build and develop professional relationships within a sport and performance psychology setting. The course examines ethical principles, professional guidelines, organizational standards and ethical codes, and leadership practices designed to help students develop ethical decision-making and behavior skills necessary to meet the appropriate standards of care in providing psychological services to enhance human performance.

**Grade Type:** Letter Grade

**Prerequisite(s):** PSY 213

### **SPP 499 - Sport and Performance Psychology Capstone**

**Units:** 3

**When Offered:** Spring & Online

This course provides sport and performance psychology students the opportunity to integrate and demonstrate learning from their major, evaluate their own strengths/weaknesses and demonstrate an understanding of the integration of a Christian worldview and their major field of study. Students will evaluate their personal goals, calling and purpose as well as develop skills to move toward successful and fruitful participation in multiple levels of community, including

graduate school and careers.

**Grade Type:** Letter Grade

**Prerequisite(s):** Permission by the Program Director

## Statistics

### STA 101 - Statistical Foundations

**Units:** 1

**When Offered:** Fall

A course emphasizing the empirical and scientific approaches to disciplines involved in statistical and data analytics sciences. Students learn the historical foundation of each departmental program area. Students will also familiarize themselves with the perspectives and specialties of our department faculty while systematically and critically reviewing the expanding roles of data-centric sciences. The course focuses on teaching, writing, developing a future internship, exploring potential graduate work, and engaging in professional associations from a Christian worldview. Note: This course is designed to introduce students in statistics-related majors (Applied Statistical Analysis, Statistics and Data Analytics, Actuarial Science, Sports Analytics, etc.) to the discipline. It is not designed as a major or general education course in statistics and does not fulfill the 'introduction to statistics' requirement for any major.

**Grade Type:** Pass/Fail

### STA 144 - Introduction to Statistics

**Units:** 3

**When Offered:** Fall, Spring, & Online

Mathematical theory and applications, development of formulae, principles of statistical decision theory, descriptive measurements, probability concepts, random variables, normal distribution, inferential statistics, sampling distributions, confidence intervals, hypothesis testing, chi-squared procedures, linear regression, and the use of computers in statistics.

**Grade Type:** Letter Grade

**Prerequisite(s):** MAT 115 or sufficient SAT, ACT or math placement exam scores and appropriate high school mathematics background

### STA 205 - Applied Linear Regression

**Units:** 3

**When Offered:** Spring (even years)

This course represents a basic concepts and methodology course in regression analysis using application of general linear regression models to real-life situations. Case studies are used to give practice in diagnosing practical problems, deciding on appropriate models, and knowing which inferential technique will answer the researcher's questions for the purposes of description and prediction. Regression models and model building typical of problems used in the social and behavioral sciences, the natural and health sciences, and many other disciplines are covered.

**Grade Type:** Letter Grade

**Prerequisite(s):** STA 144

### STA 210 - Statistical Computing I

**Units:** 3

**When Offered:** Fall

An introduction to data mining, management and statistical programming techniques using comprehensive and widely available tools like SAGE, SPSS, SAS and R. Students learn exploratory data analysis, coding and manipulation of variables, database management applying statistical concepts. Modeling and simulation experiments on a variety of

applied data sets.

**Grade Type:** Letter Grade

**Pre- or Co- Requisite(s):** STA 144

## **STA 211 - Statistical Computing II**

**Units:** 3

**When Offered:** Spring

A continuation of Statistical Computing I using comprehensive and widely available tools like SAGE, SPSS, SAS and R. Advanced techniques will be covered including (but not limited to) numerical linear algebra, optimization and nonlinear equations, the EM algorithm, Laplace approximations, quadrature methods, simulation methodology, sampling, Monte Carlo and bootstrap methods.

**Grade Type:** Letter Grade

**Prerequisite(s):** STA 210

## **STA 303 - Research and Experimental Design**

**Units:** 3

**When Offered:** Fall (odd years)

This course studies experimental designs with corresponding models and analyses critical for students in the empirical sciences. Course topics include estimation, test of hypothesis, analysis of variance and a variety of topics in experimental design. Decisions and practical considerations which minimize experimental error and avoid confounding results are dealt with in real life contexts.

**Grade Type:** Letter Grade

**Prerequisite(s):** STA 144

## **STA 305 - Sampling and Survey Methodology**

**Units:** 3

**When Offered:** Fall (even years)

Sampling theory and practice are presented in this course through a study of simple random samples, stratified random samples, cluster sampling, estimating sample size, ratio estimates, subsampling, two-state sampling and analysis of sampling error. This is a critical course for students in education and the social, medical, biological and management sciences where sampling is a fundamental step in virtually every statistical procedure and critical to meaningful survey research.

**Grade Type:** Letter Grade

**Prerequisite(s):** STA 144

## **STA 310 - Mathematical Statistics I**

**Units:** 3

**When Offered:** Fall (even years)

The first semester of a two-semester course providing a systematic development of the theories of probability and statistics. Students learn and use fundamental concepts of probability models, random variables and their distributions, reduction of data, estimation, testing of hypotheses, univariate normal inference, and statistical decision theory. The first semester is required for BA and BS statistics majors of all concentrations.

**Grade Type:** Letter Grade

**Prerequisite(s):** MAT 245, and one of the following: CIS 268, EGR 121, or STA 144

## **STA 311 - Mathematical Statistics II**



**Units: 3**

**When Offered:** Spring (odd years)

Second semester course in a systematic development of the theories of probability and statistics. Topics include analysis of categorical data, multivariate distributions, nonparametric inference, linear models and analysis of variance. As time permits, the theory underlying Markov chain, Monte Carlo, quasi-likelihood, empirical likelihood, statistical functionals, generalized estimating equations, the jackknife, and the bootstrap are addressed.

**Grade Type:** Letter Grade

**Prerequisite(s):** STA 310

## **STA 320 - Financial Mathematics I**

**Units: 3**

**When Offered:** Fall (even years)

An introduction to the fundamental concepts of financial mathematics including basic interest theory. These concepts will be applied in calculating present and accumulated values for various streams of cash flows as a basis for future use in: reserving, valuation, pricing, asset/liability management, investment income, capital budgeting, and valuing contingent cash flow.

**Grade Type:** Letter Grade

**Prerequisite(s):** MAT 245

## **STA 321 - Financial Mathematics II**

**Units: 3**

**When Offered:** Spring (odd years)

A continuation of the fundamental concepts of financial mathematics including the basics of financial economics and an introduction to financial instruments, including derivatives, and the concept of no-arbitrage as it relates to financial mathematics.

**Grade Type:** Letter Grade

**Prerequisite(s):** STA 320

## **STA 360 - Data Visualization**

**Units: 3**

**When Offered:** Spring (even years)

This course provides the tools to create and critically evaluate data visualizations. Focus will be on statistical graphics, graphics that display statistical data. Additionally, recent advances in the field of information visualization will be covered.

**Grade Type:** Letter Grade

**Prerequisite(s):** STA 144

## **STA 362 - Advanced Statistical Computing**

**Units: 3**

**When Offered:** Fall (even years)

A course to introduce statistical models of advanced least squares regression and standard ANOVA techniques and extensions to categorical data. Students will conceptually understand linear mixed effects models, log linear and generalized linear models for count data; and survival models for the analysis of lifetime data. In addition, students will apply these models to real data, to discern patterns and conclusions, and present their results.

**Grade Type:** Letter Grade

**Prerequisite(s):** STA 205 and 210

## **STA 364 - Applied Statistical Methodology**

**Units: 3**

**When Offered:** Spring (odd years)

A course in application of parametric and nonparametric single and multivariable data analytic techniques to sports. Topics will include: linear regression, correlation, confounding and interactions, variable selection, categorical predictors and outcomes, logistic regression, factor analysis, discriminant analysis, and regression techniques with longitudinal data.

**Grade Type:** Letter Grade

**Prerequisite(s):** STA 210

## **STA 399 - Independent Study**

**Units: 1-3**

**When Offered:** As offered

This course of study is offered to afford the superior student an opportunity to explore independently subject matter not already offered in the catalog.

**Repeatable:** May be repeated for a maximum of three (3) units

**Grade Type:** Letter Grade

## **STA 400 - Special Topics**

**Units: 1-3**

**When Offered:** As offered

A seminar course offered upon sufficient demand covering appropriate of different concentrations each time. Student involvement in selection of topics is strongly encouraged.

**Repeatable:** May be repeated for a maximum of six (6) units with change in topic

**Grade Type:** Letter Grade

## **STA 460 - Sports Analytics Seminar**

**Units: 1**

**When Offered:** Spring (odd years)

This course enables students to examine theory and applications of data science and analytics to the field of sports performance, administration, and player rehabilitation. Students will evaluate evidence based literature related to statistical analysis to determine whether a published study has reliable results which can be used in translating evidence to practice. Topics may include aspects of sports strategy, team and player performance, team and franchise management, officiating and refereeing, coaching and training issues, fan support and marketing, fantasy competitions, and contemporary topics of metrics and technology use (limitations and extensions).

**Grade Type:** Letter Grade

## **STA 462 - Measurement and Evaluation**

**Units: 3**

**When Offered:** Fall (odd years)

This course is designed to develop an understanding of measurement and evaluation concepts. Measurement and evaluation topics relevant to construction and use of assessment in the psychomotor, cognitive and affective domains will be covered. Class activities include collection, analysis of data, and evaluation of instruments for personal and program evaluation.

**Grade Type:** Letter Grade

## **STA 470 - Seminar in Financial Mathematics**

**Units: 2**

**When Offered:** Spring (odd years)

An overview of topics from financial mathematics including interest theory and financial economics.

**Repeatable:** May be repeated one (1) time for a maximum of four (4) units

**Grade Type:** Letter Grade

**Pre- or Co- Requisite(s):** STA 321

## **STA 480 - Seminar in Probability and Statistics**

**Units: 3**

**When Offered:** Spring

An overview of topics from probability and statistics including general probability, univariate distributions, and multivariate distributions, as well as, calculus and basic concepts of insurance and risk management.

**Repeatable:** May be repeated one (1) time for credit

**Grade Type:** Letter Grade

**Prerequisite(s):** MAT 343 and 353

## **STA 490 - Research in Statistics**

**Units: 1-4**

**When Offered:** As offered

The focus of this class is an independent research project that the student undertakes under the direction of a faculty member who acts as a research advisor. Content varies from year to year and is determined by both the instructor's and student's interests.

**Repeatable:** May be repeated for credit

**Grade Type:** Letter Grade

**Prerequisite(s):** Permission of the Department Chair

## **STA 491 - Sports Analytics Internship**

**Units: 1-3**

**When Offered:** Fall, Spring, Summer

This course is aimed at developing "hands on" experience in data and visualization analytic skills in the context of involvement with a sport team, league, or corporation. Students will assist in the development of the analytical and data collection capabilities of the organization.

**Repeatable:** May be repeated for a maximum of six (6) units

**Grade Type:** Letter Grade

## **STA 499 - Capstone**

**Units: 1-3**

**When Offered:** Spring

The course is designed to be a culminating experience for senior students. The course gives students through writing, seminar and conference participation, an opportunity to demonstrate their skill and proficiency in the field of statistics. In some cases, this may be coupled with internships.

**Repeatable:** May be repeated for a maximum of three (3) units

**Grade Type:** Letter Grade

**Prerequisite(s):** Permission of the Department Chair

# Theatre

## THE 111 - Fundamentals of Stagecraft

**Units:** 3

**When Offered:** Fall

This course offers an introduction to the basic construction methods, materials and techniques employed in the scene shop. Students will also develop skills in producing large-scale scenic painting and texturing effects through multiple in-class projects.

**Grade Type:** Letter Grade

## THE 113 - Makeup for Stage and Screen

**Units:** 2

**When Offered:** Fall

This course provides a foundation for the student actor and designer in the materials, tools, and application techniques of stage and film makeup. Students will develop skills in brush and sponge application techniques, the design of old age and character specific facial alterations, historical makeup effects and three-dimensional appliances. Students will develop an appreciation of relative viewing distance in the level of subtlety of makeup effects for theatre versus film. Each student will assemble a makeup kit that will be used to prepare projects in class and for productions.

**Grade Type:** Letter Grade

**Fee:** Additional lab fee

## THE 123 - Voice and Diction for the Stage

**Units:** 3

**When Offered:** Spring

This course will focus on the importance of a free and expressive voice in the actor's work. It will develop the voice through a focus on awareness of inner space, alignment, breath, resonance, articulation, expressivity; awareness of General American Dialect, and a beginning look at Phonetics and the IPA (International Phonetic Alphabet), vocal anatomy and voice care.

**Grade Type:** Letter Grade

## THE 133 - Acting for Non-Majors

**Units:** 3

**When Offered:** Spring

This course is designed to help the amateur actor develop a beginning understanding and appreciation of the art and skill of acting through the study of acting principles, dramatic scenes, and basic stage techniques. Students will learn to use the tools of the actor (mind, body and voice) through exercise, improvisation, scene and character study and learn the basics of the rehearsal process. The student will also develop into a more informed observer of theatre.

**Grade Type:** Letter Grade

## THE 142 - Introduction to Theatre

**Units:** 3

**When Offered:** Fall

This course provides a background, framework and vocabulary for the appreciation of six (6) major areas of production (director, actor, designer/technician, playwright, script, and audience) and the various historical, textual, and performative elements that inform theatrical practice. Students will read a variety of plays, attend productions by the

Theatre Arts Program, and participate in a course module involving production creation.

**Grade Type:** Letter Grade

## **THE 163 - Production Practicum: Performance**

**Units: 1-3**

**When Offered:** Fall

Practical training in the areas of acting, directing, and stage management. Students will have the opportunity to participate in a fully realized production, from auditions through to performance. This course consists of regular rehearsals and performances. Students should enroll in the section assigned to their show.

**Repeatable:** May be repeated for a maximum of three (3) units

**Grade Type:** Letter Grade

## **THE 164 - Production Practicum: Technical**

**Units: 1-3**

**When Offered:** Fall

Practical hands-on training in the areas of scenic construction, stage lighting, and sound production, costume construction and backstage crew assignments.

**Repeatable:** May be repeated for a maximum of three (3) units

**Grade Type:** Letter Grade

## **THE 183 - Acting I: Fundamentals of Acting**

**Units: 3**

**When Offered:** Fall

This course is designed to acquaint the student with the fundamental skills necessary to acting and to explore the basic elements of the actor's art. This course will explore the physical, vocal, intellectual, and technical aspects of acting in a format that encourages freedom of imagination and personal growth. Additionally, the course will explore the connections between faith and theatre and the ways in which God's truth is embedded within the fabric of both the plays themselves and the actor's work.

**Grade Type:** Letter Grade

**Prerequisite(s):** Theatre major or minor

## **THE 200 - Special Topics in Theatre**

**Units: 1-3**

**When Offered:** As offered

Concentration upon a specific topic in the field of Theatre. Topic varies for different semesters.

**Repeatable:** May be repeated for credit with change in topic

**Grade Type:** Letter Grade

## **THE 211 - Introduction to Stage Design and Management**

**Units: 3**

**When Offered:** Spring

This course will serve as an introduction to the collaborative nature of design and stage management in theatrical productions. Each of the four major areas of design; scenic, costume, lighting, and audio will be explored through projects and the critical viewing of plays on film and live productions. Basic techniques of stage management and production protocols will be explored through exercises and the creation of a prompt script.

**Grade Type:** Letter Grade

## **THE 221 - Techniques in Pre-Visualization of Design**

**Units: 3**

**When Offered:** Fall (odd years)

This course focuses on methods and techniques for pre-visualizing design concepts within the play production process with a focus on using digital modeling software. Traditional techniques in model building, rendering, costume plates and concept sketching will also be explored. Techniques of pitching a design through pre-visualization will be examined through mock design projects and production scenarios.

**Grade Type:** Letter Grade

## **THE 223 - Movement for the Stage**

**Units: 3**

**When Offered:** Fall (odd years)

This course focuses on the mechanics of the actor's body, explores how the body becomes an element of communication in theatre, and works toward freeing up the actor's body to communicate. Students will be introduced to a variety of movement techniques and theories.

**Grade Type:** Letter Grade

## **THE 230 - Acting for the Camera**

**Units: 3**

**When Offered:** Spring (even years)

Students will learn strategies for building truthful performances in a multi-camera studio environment. Participants will refine acting techniques through monologues, sensory exercises, and beginning scene study work. Open to all students.

**Grade Type:** Letter Grade

## **THE 232 - Play Structure and Analysis**

**Units: 3**

**When Offered:** Spring

This course is designed to introduce the student to the skills of dramatic analysis, theatrical research, writing, and critical thinking which are vital to the work of all artists in the theatre. Using the techniques of the Production Dramaturg, the course teaches close reading of play texts and demonstrates ways in which play analysis contributes to the realization of theatrical productions.

**Grade Type:** Letter Grade

## **THE 233 - Introduction to Musical Theatre Dance**

**Units: 3**

**When Offered:** Fall (even years)

This course introduces students to the basics of musical theatre dance. Students will study a variety of theories, techniques, and major choreographers of the stage. Students will build competencies with short dance combinations and entire choreographed pieces that reflect the diversity of styles used in musical theatre.

**Grade Type:** Letter Grade

## **THE 263 - Production Practicum: Performance**

**Units: 1-3**

**When Offered:** Spring

Practical training in the areas of acting, directing, and stage management. Students will have the opportunity to

participate in a fully realized production, from auditions to performance. This course consists of regular rehearsals and performances.

**Repeatable:** May be repeated for a maximum of three (3) units

**Grade Type:** Letter Grade

## **THE 264 - Production Practicum: Technical**

**Units:** 1-3

**When Offered:** Spring

Practical hands-on training in the areas of scenic construction, stage lighting, and sound production, costume construction and backstage crew assignments.

**Repeatable:** May be repeated for a maximum of three (3) units

**Grade Type:** Letter Grade

## **THE 283 - Acting II: Scene Study**

**Units:** 3

**When Offered:** Fall (even years)

A continuation of Acting I: Fundamentals of Acting, this course is designed to further explore the actor's art, and continue to develop the individual's technique. This course specifically focuses on the intellectual work of an actor as well as the relationship between actors on stage. Additionally, the course will explore the connections between faith and theatre and the ways in which God's truth is embedded within the fabric of both the plays themselves and the actor's work.

**Grade Type:** Letter Grade

## **THE 312 - Drama in the Classroom**

**Units:** 3

**When Offered:** Fall, Spring

The student will learn how to use drama and theatre activities both for and with children, and how they can incorporate drama into education by creating lesson plans and planning specific assignments. The student will also develop skills in oral interpretation and storytelling to become a more interesting and expressive teacher.

**Grade Type:** Letter Grade

## **THE 313 - Advanced Makeup**

**Units:** 3

**When Offered:** Spring (even years)

Advanced study and application of 3-Dimensional makeup techniques with a focus on foam latex prosthetics. Students will develop skills in life casting, mold making, sculpting, casting and running foam latex. Students will learn advanced painting and makeup application techniques required for blending prosthetics with human skin. Students will also explore techniques for using gelatin makeup for large wound and facial trauma effects.

**Grade Type:** Letter Grade

**Fee:** Additional lab fee

## **THE 330 - Advanced Acting for the Camera**

**Units:** 3

**When Offered:** Spring (even years)

Advanced scene work in a multi-camera environment. Students learn to scale performances to the shot, dig deeper into character development, clarify subtext, and to emotionally connect to challenging material. All performances are

recorded for critique by the instructor and for student self-assessment, through daily journaling.

**Grade Type:** Letter Grade

**Prerequisite(s):** COM 113, THE 133, 183, or 230

## **THE 332 - Theatre History I**

**Units:** 3

**When Offered:** Fall (even years)

The first part of a two-part review of the development of theatre, with a detailed study of the origins of drama in religious ritual and the beginnings of formalized theatre in Classical Greece through the French Neoclassical Period. Nine plays will be studied in detail during the course, and students will be asked to specifically engage with the material from the Christian worldview to explore how God's truth may be represented within the work.

**Grade Type:** Letter Grade

## **THE 333 - Advanced Musical Theatre Dance**

**Units:** 3

**When Offered:** Fall (even years)

This course continues the training begun in Introduction to Musical Theatre Dance, by exploring advanced theories and styles of dance developed by major choreographers throughout the history of musical theatre.

**Grade Type:** Letter Grade

**Prerequisite(s):** THE 233

## **THE 342 - Theatre History II**

**Units:** 3

**When Offered:** Spring (odd years)

The second part of a two-part review of the development of theatre, with a detailed study of the beginnings of modern theatre including the English Restoration, 18th-century Sentimentalism, the birth of Realism and the revolt against Realism, experimental and political theatre, and current trends today. Ten plays will be studied in detail during the course, and students will be asked to specifically engage with the material from the Christian worldview to explore how God's truth may be represented within the work.

**Grade Type:** Letter Grade

**Prerequisite(s):** THE 332

## **THE 345 - Applied Theatre**

**Units:** 3

**When Offered:** As offered

Practical experience in writing or assembling theatre pieces and rehearsing and performing, as part of the CBU Theatre Team, theatrical presentations off-campus at schools, community centers, local churches, prisons, theatres and other venues.

**Repeatable:** May be repeated for a maximum of six (6) units

**Grade Type:** Letter Grade

**Prerequisite(s):** THE 283

## **THE 353 - Directing I**

**Units:** 3

**When Offered:** Spring (even years)

The study of the basic techniques of stage direction including play analysis, director/actor and director/designer



communication, and technical problems of movement, composition, picturization, and blocking. Students will practice the craft by presenting in-depth research and script analysis and directing scene work.

**Grade Type:** Letter Grade

**Prerequisite(s):** THE 183 and 232

## **THE 363 - Production Practicum: Performance**

**Units: 1-3**

**When Offered:** Fall

Practical training in the areas of acting, directing, and stage management. Students will have the opportunity to participate in a fully realized production, from auditions to performance. This course consists of regular rehearsals and performances.

**Repeatable:** May be repeated for a maximum of three (3) units

**Grade Type:** Letter Grade

## **THE 364 - Production Practicum: Technical**

**Units: 1-3**

**When Offered:** Fall

Practical hands-on training in the areas of scenic construction, stage lighting, and sound production, costume construction and backstage crew assignments. Advanced students will be encouraged to assume leadership positions as crew chiefs, designers, and master electricians.

**Repeatable:** May be repeated for a maximum of three (3) units

**Grade Type:** Letter Grade

## **THE 383 - Acting III: Acting Shakespeare**

**Units: 3**

**When Offered:** Fall (odd years)

An introduction to the skills necessary for performing Shakespearean texts. Through reading, analysis and performance work, the student will grow to understand how Shakespearean performance differs from Realism, and be able to implement those differences to deliver Shakespearean text with clarity and understanding.

**Grade Type:** Letter Grade

**Prerequisite(s):** THE 183 and 283

## **THE 399 - Independent Study**

**Units: 3**

**When Offered:** As offered

An opportunity for students who have demonstrated the ability to do independent work to pursue in depth a topic of particular interest.

**Grade Type:** Letter Grade

## **THE 400 - Special Topics in Theatre**

**Units: 1-3**

**When Offered:** As offered

Concentration upon a specific topic in the field of Theatre. Topic varies for different semesters.

**Repeatable:** May be repeated for credit with change in topic

**Grade Type:** Letter Grade

## **THE 424 - Scriptwriting**

**Units: 3**

**When Offered:** As Offered

A workshop in the practice of playwriting and screenwriting. Students are required to complete at least one play (or screenplay) in the course of the semester and to bring work-in-progress for regular discussion and criticism under the guidance of the instructor. Exercises to improve skills in writing creative dialogue, developing characters, and creative conflict and action will be part of the class work.

**Grade Type:** Letter Grade

**Prerequisite(s):** THE 232

## **THE 431 - Advanced Design: Lighting**

**Units: 3**

**When Offered:** Fall (even years)

This course explores the techniques, equipment, and methods employed in the design of lighting for the stage. Students will learn to calculate electrical loads, choose appropriate instruments, make color choices, and create plots and schedules to communicate design concepts through projects and exercises. Students will be introduced to moving light technology and digital control protocols.

**Grade Type:** Letter Grade

**Prerequisite(s):** THE 111 and 211

## **THE 432 - Advanced Design: Scenery**

**Units: 3**

**When Offered:** Spring (odd years)

This course focuses on the production of scenic designs for the stage. Students will employ period architectural research, play analysis, and three-dimensional digital modeling software to complete multiple scenic design problems.

**Grade Type:** Letter Grade

**Prerequisite(s):** THE 111 and 211

## **THE 433 - Advanced Design: Sound**

**Units: 3**

**When Offered:** Fall (odd years)

This course focuses on the recording, editing, and digital playback of sound effects for the stage. Students will explore sound system design and placement, field recording techniques, and digital signal processing through the creation of sound design exercises.

**Grade Type:** Letter Grade

**Prerequisite(s):** THE 111 and 211

## **THE 434 - Advanced Design: Costume**

**Units: 3**

**When Offered:** Spring (even years)

This course will explore techniques of period fashion research, character analysis and costume construction methods in the creation of costume designs for the stage.

**Grade Type:** Letter Grade

**Prerequisite(s):** THE 111 and 211

## **THE 435 - Moving Light Programming**

**Units: 3**

**When Offered:** As offered

A practical study of intelligent fixtures, palette based control consoles, and design principles for employing moving lights in theatre, concert, worship, and entertainment events.

**Grade Type:** Letter Grade

## **THE 441 - Auditioning**

**Units: 3**

**When Offered:** Spring (even years)

This laboratory class provides theatre students with a place to practice audition skills and create a repertoire of audition pieces. Students will gain the necessary skills and tools to audition successfully.

**Grade Type:** Letter Grade

**Prerequisite(s):** THE 183, 283 and 383

## **THE 450 - Internship in Theatre**

**Units: 1-3**

**When Offered:** Fall, Spring

Under faculty supervision, the student will be assigned to a position, utilizing principles of theatre acquired and employed throughout their university experience. This internship provides an opportunity for investigating and participating in field experience with a practitioner of the trade, giving depth and breadth to their understanding of theatre as a whole.

**Grade Type:** Letter Grade

**Prerequisite(s):** Permission of the Department Chair

## **THE 451 - Internship in Theatre**

**Units: 1-3**

**When Offered:** Fall, Spring

Under faculty supervision, the student will be assigned to a position, utilizing principles of theatre acquired and employed throughout their university experience. This internship provides an opportunity for investigating and participating in field experience with a practitioner of the trade, giving depth and breadth to their understanding of theatre as a whole.

**Grade Type:** Letter Grade

**Prerequisite(s):** THE 450 and permission of the Department Chair

## **THE 463 - Production Practicum: Performance**

**Units: 1-3**

**When Offered:** Spring

Practical training in the areas of acting, directing, and stage management. Students will have the opportunity to participate in a fully realized production, from auditions through to performance. This course consists of regular rehearsals and performances.

**Repeatable:** May be repeated for a maximum of three (3) units

**Grade Type:** Letter Grade

## **THE 464 - Production Practicum: Technical**

**Units: 1-3**

**When Offered:** Spring

Practical hands-on training in the areas of scenic construction, stage lighting, and sound production, costume construction and backstage crew assignments. Advanced students will be encouraged to assume leadership positions as crew chiefs, designers, and master electricians.

**Repeatable:** May be repeated for a maximum of three (3) units

**Grade Type:** Letter Grade

## **THE 483 - Acting IV: Departures from Realism**

**Units:** 3

**When Offered:** Fall (even years)

An introduction to post-realistic modern theatre and its acting conventions. Students will be introduced to the acting skills necessary to perform non-realistic theatre. Through reading, analysis, and scene work, the student will grow to understand the varying stylistic conventions found in the wide-ranging genres of non-realistic theatre and the philosophical movements which birthed them, and be able to implement those conventions in practice.

**Grade Type:** Letter Grade

**Prerequisite(s):** THE 183, 283, and 383

## **THE 490G - Global Theatre Engagement Practicum**

**Units:** 1

**When Offered:** Fall

Practical experience in observation and application of dramatic criticism and/or participation in performances of dramatic works on a global stage, at the premiere festival of world theatre, the Edinburgh Fringe Festival in Scotland. Cultural awareness and sensitivity as well as an understanding of dramatic structure and analysis are key components of this experience.

**Repeatable:** May be repeated for a maximum of three (3) units

**Grade Type:** Pass/Fail

**Fee:** Additional trip fee(s)

**Prerequisite(s):** THE 232

## **THE 498 - Capstone Portfolio**

**Units:** 1

**When Offered:** Fall, Spring

Students will review their personal and professional development based upon their baccalaureate experiences at California Baptist University. Students will evaluate their growth and development through the program and demonstrate evidence of growth through artifacts accumulated over the course of their baccalaureate career. Students will demonstrate critical self-reflection and present a comprehensive portfolio with the potential to be used in professional or graduate school application.

**Grade Type:** Pass/Fail

## **Worldview**

### **WLD 121 - Science Technology, and Worldview**

**Units:** 3

**When Offered:** Fall, Spring

This course is intended to study and critique the relationship between the natural sciences technology and worldviews. A variety of interpretations will be examined. We will take a historical look at the methods and pedagogues in various areas within the natural sciences. This is an Interdisciplinary course involving studies from a variety of disciplines including but not limited to: science, philosophy, theology, law and the behavioral sciences. Our journey will lead us to

study modern day beliefs and theories, in particular, in cosmology and evolution and their relationship with and impact on religion. Recent developments in science and their impact on theology and one's worldview will be emphasized. Diverse viewpoints will be discussed and critiqued.

**Grade Type:** Letter Grade

## **WLD 122 - Community Science**

**Units:** 1

**When Offered:** As offered

An experiential learning course for students to participate in science discovery and research projects to learn more about the world we live in. Students will participate in a focused project, centered on one or more science disciplines, to develop a question to study, collect and analyze data, and present the findings of the study. This course is recommended for students, both science majors and non-majors, who desire to participate in a hands-on science-based project with real world implications. Topics of projects will vary from semester to semester.

**Grade Type:** Letter Grade

**Fee:** Additional course fee

**Pre- or Co- Requisite(s):** (Recommend: WLD 121)

## **WLD 141 - Perspectives on Human Behavior and Social Systems**

**Units:** 3

**When Offered:** Fall, Spring

This course presents the basic assumptions and dynamics of worldview as a philosophy of science related to human behavior. Philosophical assumptions, epistemological methodologies, and Worldview perspectives in their Pre-modern, Modern, and Post-modern forms are compared and contrasted. The course also addresses models of knowledge integration and critical thinking.

**Grade Type:** Letter Grade

## **WLD 161 - American Founding and Experience**

**Units:** 3

**When Offered:** Fall, Spring

This course will be an interdisciplinary exploration of the Founding the U.S. using materials from history, political science, the arts, and religion. Students will explore how their worldviews help them better understand how to integrate ideas (including American notions of liberty, independence, property, and freedom of religion or conscience) about America, the so-called "American Dream", and its achievements and inconsistencies to discern a comprehensive and coherent vision of the American experience in today's world.

**Grade Type:** Letter Grade

## **WLD 171 - Creative Arts and the Christian Imagination**

**Units:** 3

**When Offered:** Fall, Spring

This course analyzes the practice of the creative arts, including the literary arts, the applied and fine arts, and the performing arts, in the Christian life. Students investigate how creative expression is integrated into the Christian worldview, exploring how creativity reflects humans' role as image bearers of the Creator God as well as how faith shapes the study, analysis, and creation of art. In our explorations of artistic production, students practice a variety of different artistic approaches and reflect on the integration of belief into the creative process.

**Grade Type:** Letter Grade

## **WLD 181 - Goodness, Truth and Beauty**

**Units: 3****When Offered:** Fall, Spring

This class explores the concept and reality of truth, goodness, and beauty in the world as it relates to culture, the Bible, worldviews, and human flourishing. Students will survey the concepts of truth, goodness, and beauty through history from both special and general revelation and develop a model for accurately understanding and valuing the created world. Students will develop their discernment to live the "good" life and be equipped to promote what is true, pure, lovely, and of good repute for the good of all.

**Grade Type:** Letter Grade

# **Directory**

## **Board of Trustees: California Baptist University**

### **Regular Meetings of the Board of Trustees**

2023-2024

September 29, 2023

January 19, 2024

May 3, 2024

**Dr. Walter Price, Chair**

## Term Expiring 2023

Mr. Daniel Bishop	Riverside, CA
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Chula Vista, CA

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Mr. Brian Chelette

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Dr. Phoebe Lambeth

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Dr. Brenda Salas-Freeman

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Dr. Reggie Thomas

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California Southern Baptist Convention, Fresno, CA

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Persons listed as *Emeriti* are retired employees given an honorary title of their last position with California Baptist University by the Board of Trustees.

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President Emeritus

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Robert K. Jabs; B.A., B.S., M.B.E., Ph.D.	Professor - Business Administration
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Wayne Swindall; B.A., M.Div., Th.M., Ph.D.	Professor - Philosophy
Mary Crist; A.B., M.Ed., Ed. D.	Professor/Administrator - Education
Dawn Ellen Jacobs; B.A., M.A., Ph.D.	Professor/Administrator - English
Timothy Luther: B.A., M.A., Ph.D.	Professor - Political Science
Richard K. Mobley; B.A., M.Div., Ph.D.	Professor - New Testament
Scott B. Key; B.A., M.Div., Ph.D.	Professor - Philosophy

## CBU Pillars

CBU Pillars is a classification created by the Board of Trustees to memorialize contributions of deceased individuals previously designated as *Emeriti*.

Ken Futch; B.A., M.A., Ph.D.	Professor - English
Norene Murphy Hokett; B.A., M.A.	Communication Arts
Raquel Lebrede; B.A., M.A., Ph.D.	Professor - Spanish
Bonnie G. Metcalf; B.A., M.A., Ed.D.	Vice President Emeritus Professor
LeVern B. Young; B.S., M.S., Ph.D.	Professor - Natural Science

# Directory

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

## A

### **Amanie Abdelmessih**

*Professor of Mechanical Engineering*

B.S., M.S., Alexandria University; Ph.D., Oklahoma State University.

### **Andrea Abrams**

*Assistant Professor of Nursing*

B.S., M.S.N., California Baptist University.

### **Jordan Adams**

*Associate Professor of Kinesiology*

B.S. Biola University; D.P.T., Midwestern University.

### **Jenny Aguilar**

*Assistant Professor of Psychology*

B.S., University of Phoenix; M.A., California Baptist University; Psy.D., The Chicago School of Professional Psychology.

### **Elaine Ahumada**

*Professor of Public Administration*

B.A., M.P.A., D.P.A., University of La Verne.

### **Keanon Alderson**

*Professor of Business*

B.S., California Baptist University; M.B.A., University of Redlands; Ph.D. Capella University.

### **Noemi Alexander**

*Associate Professor of Public Administration*

B.A., M.P.A., California State University, Long Beach; Ph.D., Claremont Graduate University.

### **Berniece Bruinius Alspach**

*Professor of English*

B.A., Florida State University; M.A., California Baptist University; Ph.D., Claremont Graduate University.

### **Akua Amankwaah**

*Associate Professor of Nutrition and Food Sciences*

B.S., University of Ghana; M.S., Bowling Green State University; Ph.D., Purdue University.

### **Mark Anklam**

*Professor of Engineering*

B.S., Stanford University; M.A., Ph.D., Princeton University.

### **Melissa Anozie**

*Assistant Professor of Nursing*

B.S., M.S.N., California Baptist University.

### **Melissa Antonio**

*Professor of Biology*

A.A., A.S., Riverside Community College; B.S., Ph.D., University of California, Riverside.

**Richard Ardito**

*Associate Professor of Accounting*

B.S., M.B.A., California Baptist University; D.B.A., Liberty University.

**Hailey Arellano**

*Assistant Professor of Psychology*

B.A., M.S., California Baptist University.

**Liza Arellano**

*Assistant Professor of Social Work*

B.A., California Baptist University; M.S.W., California State University, San Bernardino.

**B**

**Jong-Wha Bai**

*Professor of Civil Engineering*

B.S., Yonsei University; M.S., Ph.D., Texas A&M University.

**Sarah Bandak**

*Assistant Professor of Interior Design*

B.Arch., German Jordanian University.

**Gretchen C. Bartels**

*Associate Professor of English*

B.A., Wheaton College; M.A., Ph.D., University of California, Riverside.

**Richard Baumer**

*Associate Professor of Mechanical Engineering*

B.S., LeTourneau University; Ph.D., Massachusetts Institute of Technology.

**Kristin Beinschroth**

*Assistant Professor of Radiologic Sciences*

A.A., Victor Valley College; B.S. California State University, Northridge; M.P.H., California Baptist University.

**Michael Berger**

*Professor of Graphic Arts*

B.F.A., M.F.A., California State University, Fullerton.

**Aine Bergin**

*Associate Professor of Psychology*

B.A., M.S., California Baptist University; Psy.D., Alliant International University.

**Russ Bermejo**

*Assistant Professor of Social Work*

B.S., University of California, Los Angeles; M.S.W., California State University, San Bernardino.

**Dennis Bideshi**

*Professor of Biology*

B.A., M.A., California State University, Fullerton; Ph.D., University of California, Riverside.

**BC Biermann**

*Professor of Graphic Arts*

B.A., University of Missouri, Columbia; M.A., Maryville University; M.A., Knox Theological Seminary; Ph.D., Universiteit van Amsterdam.

**Joel Bigley**

*Associate Professor of Business*

B.S., B.S., John Brown University; M.S., University of Arkansas; Ed.D., Pepperdine University.

**Jim Bishop**

*Associate Professor of Criminal Justice and Business Law*

B.S., California State University, San Bernardino; J.D., University of the Pacific.

**W. Daniel Blair**

*Associate Professor of American Sign Language*

B.G.S., Samford University; M.Div., Beeson Divinity School; Ph.D., University of Alabama.

**Mark Blincoe**

*Professor of History*

B.A., Whitworth University; M.A., University of Pennsylvania; Ph.D., University of Minnesota.

**Cynthia Boes**

*Professor of Communication*

B.S., Corban College; M.A.I.S., Oregon State University; Ph.D. Pennsylvania State University.

**Maritza Bojorquez**

*Assistant Professor of Social Work*

B.A., California State Polytechnic University, Pomona; M.S.W., University of Southern California; D.S.W., California Baptist University.

**John Bolin**

*Instructor of Music*

B.A., M.A., California Baptist University.

**Joseph Bolin**

*Associate Professor of Music*

B.M., Southern Illinois University; M.M., D.M.A., University of Texas, Austin.

**Danette Bonillo**

*Associate Professor of Communication Sciences and Disorders*

B.A., M.A., California State University, Long Beach; Ed.D., Concordia University, Irvine.

**Janet Bonome**

*Associate Professor of Public Health*

B.S., University of California, Riverside; M.P.H., Dr.P.H., Loma Linda University.

**Carnell Borden**

*Assistant Professor of Business Analytics*

B.S., M.B.A., Western Governors University.

**Zachary Bortot**

*Associate Professor of Theater*

B.F.A., University of Nevada, Reno; M.F.A., Regent University.

**Brian Bovee**

*Associate Professor of Computer Information Technology*

B.A., California State University, San Bernardino; M.A., California State University, Chico.

**A. Greg Bowden**

*Professor of Organizational Leadership*

B.A., San Diego State University; M.S. Pepperdine University; Ed.D., University of San Diego.

**William Boyer**

*Associate Professor of Exercise Science*

B.S.H., M.S.H., University of North Florida; Ph.D., University of Tennessee, Knoxville.

**Karen Bradley**

*Professor of Nursing*

B.S.N., University of Phoenix; M.S.N., Loma Linda University; D.N.P., University of San Francisco.

**Angela Brand**

*Professor of Music*

B.M., Auburn University; M.M., M.Ed., Bowling Green State University; D.M.A., Claremont Graduate University.

**Philip M. Breitenbucher**

*Assistant Professor of Social Work*

B.A., California Baptist University; M.S.W., California State University, San Bernardino.

**Victoria Brodie**

*Associate Professor of Public Relations*

B.S., University of Phoenix; M.A., California Baptist University; M.B.A., Southern New Hampshire University; Ed.D., Pepperdine University.

**Eric Brook**

*Professor of History and Humanities*

B.A., California Baptist University; M.A., Concordia University; M.A., California State University, Dominguez Hills; D.Min., Concordia Theological Seminary; Ph.D., University of Essex.

**Tom Brooks**

*Assistant Professor of Music*

B.M., University of Missouri, St. Louis; M.A., Ph.D., Friends International Christian University.

**Julianna Browning**

*Professor of Accounting*

B.S., University of Southern California; M.S., Liberty University; M.B.A., California Baptist University; Ph.D., University of California, Riverside.

**James R. Buchholz**

*Professor of Mathematics and Physics*

B.A., Indiana State University; M.S., Texas A&M University; Ph.D., University of California, Riverside.

**Selena Bueno**

*Instructor of Social Work*

B.A., Azusa Pacific University; M.S.W., Loma Linda University; D.S.W., California Baptist University.

**Guadalupe Buitron**

*Assistant Professor of Social Work*

B.A., M.S.W., D.S.W., California Baptist University.

**Lisa Bursch**

*Professor of Nursing*

B.S.N., University of Texas, Health & Science Center; M.S.N., California State University, Long Beach; D.N.P., Rush University.

**Krysten Burton**

*Assistant Professor of Architecture*

B.A., University of California, Riverside; M.Arch., University of California, Los Angeles.

**John Butler**

*Associate Professor of Electrical and Computer Engineering*  
B.S., M.S., Ph.D., University of California, Riverside.

**Kelsie Byrd**

*Assistant Professor of Nursing*  
B.S.N., California Baptist University; M.S.N., Colorado Technical University.

**C**

**Virginia Cadenhead**

*Associate Professor of Nursing*  
B.S., Texas Christian University; M.A., Southwestern Baptist Theological Seminary; M.S.N., Ph.D., University of Texas, Tyler.

**Pedro Caro**

*Assistant Professor of School Counseling*  
B.A., M.S., San Diego State University.

**Linn Carothers**

*Professor of Mathematics*  
B.S., University of Southern California; M.S., California State University, Northridge; Ph.D., University of Southern California.

**Deborah Carter**

*Professor of Nursing*  
B.S.N., California State University, Dominguez Hills; M.S.N., Walden University; Ed.D., Regent University.

**Jeff Cate**

*Professor of New Testament*  
B.A., Samford University; M.Div., Ph.D., New Orleans Baptist Theological Seminary.

**Sabrina Chang**

*Assistant Professor of Nursing*  
B.S., University of California, Riverside; M.S.N., California Baptist University; D.N.P., Johns Hopkins University.

**Catherine Chang-Letherer**

*Associate Professor of Physician Assistant Studies*  
B.A., University of California, San Diego; M.H.S., Quinnipiac University; M.B.A., Western Governors University.

**Crystal Chavez**

*Instructor of Kinesiology*  
B.S., M.S., California Baptist University.

**J. Alex Chediak**

*Professor of Physics and Engineering*  
B.S., Alfred University; M.S., Ph.D., University of California, Berkley.

**Hyung Choi**

*Professor of Physics*  
B.S., Kyung Hee University, Seoul, Korea; M.Div., Princeton Theological Seminary; M.Phil., Ph.D., City University of New York.

**Jeong-Kyun Choi**

*Professor of Social Work*

B.S., M.S.W., Yonsei University; Ph.D., University of California, Los Angeles.

**Seunghyun Chun**

*Professor of Electrical and Computer Engineering*

B.S., Yonsei University; M.S. University of Southern California; Ph.D., University of Texas, Austin.

**Karlyssa Chung**

*Assistant Professor of Physician Assistant Studies*

B.A., University of California, San Diego; M.P.A.S., Western University of Health Sciences.

**Ryan Chung**

*Assistant Professor of Architecture*

B.Arch., Kyonggi University; M.Arch., University of Pennsylvania; M.Arch., University of Southern California.

**Anthony Chute**

*Professor of Church History*

B.Min., B.A., Brewton-Parker College; M.Div., Beeson Divinity School; Ph.D., Trinity Evangelical Divinity School.

**Larry Clement**

*Assistant Professor of Engineering*

B.S., M.S., University of Oklahoma; M.A., Fuller Theological Seminary.

**Adamson Co**

*Professor of Theology*

B.A., California State Polytechnic University, Pomona; M.Div., The Master's Seminary; J.D., University of California Hastings Law School; Ph.D., Trinity Evangelical Divinity School.

**Angela Coaston**

*Associate Professor of Nursing*

B.S.N., University of Phoenix; M.S.N., Western University of Health Sciences; Ph.D., University of California, San Francisco.

**Greg Cochran**

*Professor of Christian Studies*

B.A., M.A., Louisiana Tech University; M.Div., Ph.D., Southern Baptist Theological Seminary.

**Angela Coes**

*Assistant Professor of Nursing*

B.S.N., University of Nevada, Las Vegas; M.S.N., Walden University.

**Debra Coleman**

*Associate Professor of Nursing*

B.S.N., MSN.Ed., University of Phoenix; Ph.D., Azusa Pacific University.

**Noel Cooper**

*Assistant Professor of Psychology*

B.A., Eastern Nazarene College; M.A., Psy.D., Fuller Theological Seminary.

**Anthony Corso**

*Professor of Computer Information Systems*

B.A., Cogswell Polytechnical College; M.B.A., University of Phoenix; Ph.D., Claremont Graduate University.

**Robert G. Crosby**

*Professor of Psychology*



B.A., California State Polytechnic University, Pomona; M.S., Capella University; Ph.D., University of California, Riverside.

**Melissa Croteau**

*Professor of Film Studies*

B.A., Biola University; M.A., University of Birmingham; Ph.D., Claremont Graduate University.

**Jennifer Cruz**

*Associate Professor of Music*

B.M., Eastman School of Music; M.M., D.M.A., University of Southern California.

**D**

**Steven Dahlgren**

*Assistant Professor of Music*

B.A., M.M., Azusa Pacific University.

**Dirk Dallas**

*Associate Professor of Graphic Arts*

B.A., California State University, San Bernardino; M.F.A., Savannah College of Art and Design.

**Caleb Davis**

*Assistant Professor of Nursing*

B.S.N., Azusa Pacific University; M.S.N., California State University, Los Angeles.

**Dirk Davis**

*Professor of Organizational Leadership*

B.A., M.A., California State University, San Bernardino; M.S., North Central University; Ed.D., Pepperdine University.

**Kenya Davis-Hayes**

*Professor of History*

B.A., M.Ed., Campbell University; Ph.D., Purdue University.

**Mark Deharo**

*Associate Professor of Radiologic Sciences*

B.S., Loma Linda University; M.H.A., University of Phoenix; D.H.Sc., A.T. Still University.

**Christina Denis**

*Instructor of Early Childhood Studies*

B.A., University of New Hampshire; M.S., Boston University; Ed.D., Capella University.

**Angela Deulen**

*Professor of Psychology*

B.A., M.S., California Baptist University; Ed.D., Pepperdine University.

**Khamla Dhouti Martinez**

*Assistant Professor of Spanish*

B.A., Washington & Lee University; M.A., Middlebury College; Ph.D., University of Texas, Austin.

**Jolene Dickert**

*Professor of Athletic Training*

B.A., Whitworth College; M.A., San Diego State University; Ed.D., University of the Pacific.

**Anthony Donaldson**

*Professor of Engineering*

B.S.E.E., M.S.E.E., Texas Tech University; M.A., Asbury Theological Seminary; Ph.D., Texas Tech University.

**Thomas Donovan**

*Assistant Professor of Psychology*

B.A., Psy.D., Biola University.

**Kelly Donovan**

*Associate Professor of Dental Hygiene*

A.A., Cypress College; B.A., Antioch University; M.A., University of Phoenix; Ed.D., Pepperdine University.

**Susan Duemer**

*Professor of Architecture*

B.A., M.Arch., Judson University.

**Scott Dunbar**

*Associate Professor of Human Resource Management*

B.S., University of California, Riverside; M.B.A., Loma Linda University; D.B.A., Liberty University.

**Robin Duncan**

*Associate Professor of Education*

B.S., Samford University; M.S., University of Alabama; Ed.D., Samford University.

**Marion Dunkerley**

*Associate Professor of Nursing*

B.S.N., Biola University; M.A., Azusa Pacific University; M.S.N., University of Phoenix; Ed.D., Regent University.

**Amanda Durall**

*Instructor of Kinesiology*

B.S., University of Tennessee; M.P.H., East Tennessee State University.

**E**

**Michael Eaton**

*Professor of Film Studies*

B.A., Whitworth University; M.F.A., Azusa Pacific University.

**Jan Edmisten**

*Professor of Kinesiology*

B.S., Middle Tennessee State University; M.P.T., D.Sc., Loma Linda University.

**Ronald L. Ellis**

*Professor of Education*

B.A., Houston Baptist University; M.S., Baylor University; Ph.D., Texas A&M University.

**Stephen Emerson**

*Librarian*

B.A., Westmont College; M.Div., Fuller Theological Seminary; M.L.I.S., San Jose State University; Ph.D. Vanderbilt University.

**F**

**Lindsay Fahnestock**

*Associate Professor of Public Health*

B.S., California Baptist University; M.P.H., Dr.P.H., Loma Linda University.

**Doreen Ferko**

*Professor of Education*

B.A., University of California, San Diego; M.A., California State University, Northridge; Ph.D., Purdue University.

**Thomas Ferko**

*Professor of Chemistry*

B.S., Juniata College; Ph.D., Purdue University.

**Wayne Fletcher**

*Professor of Health Sciences*

B.S., Colorado State University; M.B.A., University of Denver; Ed.D., University of California, Los Angeles.

**Anabel Flores**

*Assistant Professor of Biology*

B.S., California Baptist University; Ph.D., University of Michigan.

**Kendra Flores-Carter**

*Associate Professor of Social Work*

B.A., California State University, Dominguez Hills; M.S.W., California State University, Long Beach; D.S.W., University of Tennessee, Knoxville.

**Jan Flournoy**

*Associate Professor of Nursing*

B.S.N., University of Maryland; M.S.N., California State University, Dominguez Hills; D.N.P., Western University of Health Sciences.

**L. Alan Fossett**

*Professor of Chemistry*

B.S., Northwest Nazarene College; Ph.D., University of California, Davis.

**Thomas Frederick**

*Professor of Psychology*

B.S., M.A., Geneva College; M.A., Ph.D., Fuller Theological Seminary.

**Laura Freeman**

*Professor of Psychology*

B.S., University of Wisconsin, Madison; M.A., Psy.D., Biola University.

**Lisa Friesen**

*Assistant Professor of Kinesiology*

B.A., University of the Pacific; M.S., James Madison University; Ph.D., California Baptist University.

**Joshua Fuller**

*Assistant Professor of Industrial and Organizational Psychology*

B.S., Central Michigan University; M.A. Pepperdine University; Ph.D., Seoul National University.

**Joshua Fullman**

*Professor of English*

B.S., M.A., California State University, Fullerton; M.B.A., Faulkner University; Ph.D., Southern Illinois University.

**G****Jeffrey Gage**

*Professor of Nursing*

M.P.H., University of Otago, Christchurch; Ph.D., University of Missouri.

**Humberto Gallegos**

*Professor of Civil Engineering*

B.S., California State University, Los Angeles; M.S., Colorado State University; Ph.D., University of California, Irvine.

**Ana Gamez**

*Professor of Psychology*

B.A., M.S., California State University, Los Angeles; M.B.A., West Texas A&M University; Ph.D., Loma Linda University.

**Lizbeth Gaona**

*Assistant Professor of Social Work*

B.A., University of California, Los Angeles; M.S.W., California State University, Los Angeles; Ph.D., University of Southern California.

**Edward Garrett**

*Professor of Kinesiology*

B.A., Point Loma Nazarene University; M.A., Colorado Christian University; M.A., University of Phoenix; Psy.D., University of the Rockies.

**Levi Garrett**

*Associate Professor of Kinesiology*

B.S., M.S., California Baptist University; D.H.Ed., A.T. Still University.

**Karen Genco**

*Associate Professor of Physician Assistant Studies*

A.A., Mt. San Antonio Community College; B.S., California State University, Dominguez Hills; M.S., Western University, Pomona.

**Kenneth George**

*Assistant Professor of Finance*

B.A., M.B.A., University of La Verne; M.S., Claremont Graduate University; Ph.D., Northcentral University.

**John Gill**

*Professor of Christian Studies*

B.A., University of California, San Diego; M.Div., Golden Gate Baptist Theological Seminary; Ph.D., Southern Baptist Theological Seminary.

**Trevor Gillum**

*Professor of Kinesiology*

B.S., University of Oklahoma; M.S., University of Montana; Ph.D., University of New Mexico.

**Marina Girju**

*Associate Professor of Marketing*

B.S., B.A., Politehnica University and Academy of Economic Studies; M.B.A., Southern Methodist University; Ph.D., University of Texas, Dallas.

**Christina Gonet**

*Assistant Professor of Christian Ministries*

B.A., Biola University; M.Div., Golden Gate Seminary.

**Christina Gonzalez**

*Associate Professor of Business*

B.S., Pepperdine University; M.B.A., California Baptist University; Ed.D., University of Southern California.

**Creighton Goodman**

*Associate Professor of Aviation Science*

B.S., Loyola University; M.A., Trident University; D.P.A., California Baptist University.

**Julie Goodman-Bowling**

*Associate Professor of Anthropology*

B.A., Biola University; M.A., California State University, Fullerton; Ph.D., University of Nevada, Reno.

**Kristina Gordon**

*Assistant Professor of Social Work*

B.A., M.S.W., California State University, San Bernardino; D.S.W., California Baptist University.

**Mark Gordon**

*Professor of Mechanical Engineering*

B.S.E., Calvin College; M.S.E., Ph.D., University of Michigan.

**Nolan Gouveia**

*Assistant Professor of Business*

B.S., M.B.A., California Baptist University.

**Tim Gramling**

*Assistant Professor of Business*

B.A., Harvard University; M.S., University of North Carolina, Chapel Hill; L.P.D., Northeastern University.

**Ted Grant**

*Assistant Professor of Physics*

B.S., B.S., University of California, Riverside; M.S., Ph.D., University of California, Irvine.

**Aaron Greene**

*Associate Professor of Architecture*

B.Des., University of Florida; M.Arch., Massachusetts Institute of Technology.

**Anna Grigorian-Routon**

*Associate Professor of Psychology*

B.A., University of California, Riverside; M.A., California Baptist University; Psy.D., Pepperdine University.

**Dan Grissom**

*Professor of Christian Ministries*

B.S., University of Cincinnati; M.S., Ph.D., University of California Riverside.

**Beth A. Groves**

*Associate Professor of Public Administration*

B.A., Central Michigan University; M.P.A., California State University, Long Beach; D.P.A., University of La Verne.

**Sandra Jeannette Guignard**

*Professor of Organizational Leadership*

B.S.B.A., M.B.A., California State Polytechnic University, Pomona; Ed.D., Pepperdine University.

**Jacqueline Gustafson**

*Professor of Psychology*

B.A., M.A., Northwest University; Ed.D., Seattle University.

H

**Teresa Hamilton**

*Professor of Nursing*

A.D.N., Golden West College; B.S.N., M.S.N., California State University, Fullerton; Ph.D., University of Wisconsin-Milwaukee.

**Virgo Handojo**

*Professor of Psychology*

B.A., Diponegoro University; M.A., M.A., M.A., Ph.D., Fuller Theological Seminary.

**Adele Harrison**

*Professor of Finance*

B.S., San Diego State University; M.B.A., Louisiana Tech University; Ph.D., University of Nebraska, Lincoln.

**Virginia Hart-Kepler**

*Associate Professor of Nursing*

B.S.N., California State University, Los Angeles; M.N., University of California, Los Angeles; Ph.D., University of San Diego.

**Andrew Harveson**

*Associate Professor of Kinesiology*

B.A., Whitworth University; M.S., Central Washington University; Ph.D., University of Utah.

**Lauri Hauck**

*Instructor of Kinesiology*

B.A., M.S., California Baptist University.

**Krystal Hays**

*Associate Professor of Social Work*

B.A., University of California, Irvine; M.S.W., Ph.D., University of Southern California.

**Carolyn Heine**

*Associate Librarian*

B.A., Westmont College; M.L.I.S., University of British Columbia; Ph.D., Azusa Pacific University.

**Keith Hekman**

*Professor of Mechanical Engineering*

B.S.E., Calvin College; M.S.M.E, Ph.D., Georgia Institute of Technology.

**Froylene Heredia-Miller**

*Associate Professor of Social Work*

B.A., University of California, Riverside; M.S.W., University of Southern California.

**Lisa Hernandez**

*Professor of Mathematics*

B.A., M.S., Ph.D., University of California, Riverside.

**Dayna Herrera**

*Professor of Nursing*

B.S.N., M.S.N., University of Phoenix; D.N.P., Rush University.

**Dinah Herrick**

*Associate Professor of Nursing*

B.S.N., Azusa Pacific University; M.S.N, University of Phoenix; Ph.D., Azusa Pacific University.

**Andrew C. Herrity**

*Professor of Business*

B.A., University of Southern California; M.B.A., California State Polytechnic University; M.A., Ph.D., University of California, Riverside.

**Nathanael Heyman**

*Professor of Biology*

B.S., Lee University; Ph.D., University of Arizona.

**Troy Hinrichs**

*Professor of Criminal Justice*

B.A., B.A., Hardin-Simmons University; J.D., Texas Tech University School of Law.

**Brandon Hoang**

*Assistant Professor of Nursing*

B.S.N., M.S.N., West Coast University.

**Heather Hogue**

*Assistant Professor of Physician Assistant Studies*

B.S., Samford University.

**Guy Holliday**

*Associate Professor of Music*

B.A., California State University, Fresno; M.M., Azusa Pacific University; D.M.A., Claremont Graduate University.

**Mercy Homer**

*Assistant Professor of Communication Sciences and Disorders*

B.S.Ed., M.S.Ed., State University of New York, Fredonia.

**Damon Horton**

*Assistant Professor of Intercultural Studies*

B.S., Calvary Bible College; M.S., Calvary Theological Seminary; Ph.D., Southeastern Baptist Theological Seminary.

**Tad Hove**

*Associate Professor of Business Administration*

B.S., Devry University; M.B.A., California Baptist University; M.A., Ph.D., Fielding Graduate University.

**Ying Hu**

*Professor of Chemistry*

B.A., B.S., Dailan University of Technology; Ph.D., Bowling Green State University.

**Morris Hunter**

*Assistant Professor of Radiologic Sciences*

A.A., Antelope Valley College; B.V.E., M.Ed., California State University, San Bernardino.

**I****David Isaacs**

*Instructor of English*

B.A., California State University, San Bernardino; M.A., Simon Greenleaf University; M.A., Trinity International University.

**Nathan Iverson**

*Associate Professor of Psychology*

B.A., Trinity Lutheran College; M.A., Ph.D., Seattle Pacific University.

**J**

**Shanna James**

*Assistant Professor of Nursing*

B.S., West Coast University; M.S.N., Walden University.

**Andres Jaramillo**

*Assistant Professor of Music*

B.M., Corpas University; M.M., Eastern Washington University; D.M.A., University of Southern California.

**Deborah Jarrett**

*Clinical Instructor of Nursing*

B.S., University of Technology Jamaica; Ph.D., Walden University.

**Thomas Jernejcic**

*Professor of Computer Information Technology*

B.A., California Baptist University; M.S., Ph.D., Dakota State University.

**Susan Jetton**

*Professor of Nursing*

B.S.N., Loma Linda University; M.S.N., California State University, Dominguez Hills; D.N.P., Western University of Health Sciences.

**Hector Jimenez**

*Assistant Professor of Music*

B.A., California Baptist University; M.M., California State University, Los Angeles.

**Wendy Johnson**

*Associate Professor of Nursing*

A.S., Patric Henry Community College; B.S.N., California State University, San Bernardino; M.S.N., Loma Linda University; University of California, Los Angeles.

**Deanna Jung**

*Associate Professor of Nursing*

A.D.N., Santa Ana College; B.S.N., California State University; M.S.N., University of California, Los Angeles; D.N.P., Duke University.

**Helen Jung**

*Professor of Civil Engineering*

B.S., M.S., Ph.D., University of California, Los Angeles.

**K**

**Keelan Kaiser**

*Professor of Architecture*

B.S., M.Arch., University of Nebraska, Lincoln.

**Ellen Kaminski**

*Associate Professor of Business*

B.A., M.P.A., California Baptist University; D.B.A., Creighton University.

**Gabriel Kane**

*Assistant Professor of Nursing*

B.S., California State University, San Bernardino; M.S.N., California Baptist University.



**Christopher Kern**

*Associate Professor of Photography*

B.A., California State University, Fullerton; M.F.A., Academy of Art University.

**Brittany Ketenbrink**

*Lecturer of Chemistry*

B.S., M.S., California Baptist University.

**Jason Kiker**

*Assistant Professor of Leadership Studies*

B.S., United States Air Force Academy; M.B.A., Regis University; Ph.D., Drexel University.

**Jong-Kyung Kim**

*Professor of Exercise Science*

B.S., Kyung Hee University; M.A., M.S., Ball State University; Ph.D., Wayne State School of Medicine.

**Mark Kim**

*Assistant Professor of Data Science and Computer Science*

B.S., United States Naval Academy; M.S., Ph.D., Claremont Graduate University.

**Namhee Kim**

*Professor of Communication Sciences and Disorders*

B.A., M.A., Yonsei University; Ph.D., University of Texas, Austin.

**Sangmin Kim**

*Professor of Health Science*

B.A., M.A., Ed.D., University of Northern Iowa.

**Seung-Jae Kim**

*Professor of Mechanical and Bioengineering*

B.S., Han-Yang University; M.S., Pohang University of Science and Technology; M.S., Ph.D., University of Utah.

**Yeesock Kim**

*Professor of Construction Management and Civil Engineering*

B.S., Catholic Kwandong University; M.S., Yonsei University; Ph.D., Texas A&M University.

**Autumn King**

*Assistant Professor of Social Work*

B.A., M.S., D.S.W., California Baptist University.

**Toni Kirk**

*Professor of English*

B.A., California Baptist University; M.A., California State University, San Bernardino; M.A., California Baptist University; M.A., Ph.D., Pacifica Graduate Institute.

**Stephan Kish**

*Lecturer of Mathematics*

B.A., University of California, Riverside; M.Div., Golden Gate Baptist Theological Seminary; D.Min., Gateway Seminary.

**Mark Kling**

*Professor of Criminal Justice*

B.S., University of Phoenix; M.P.A., D.P.A., University of La Verne.

**Adrienne Knabb**

*Assistant Professor of Psychology*

B.S., San Diego State University; M.A., Azusa Pacific University.

**Joshua Knabb**

*Professor of Psychology*

B.S., University of Redlands; M.A., Psy.D., Azusa Pacific University.

**Benjamin Knisley**

*Lecturer of Computer Science and Data Science*

B.S., M.S., California Baptist University.

**Seong Kong**

*Professor of Biomedical Engineering*

B.S., Kyunghee University; M.S., Yonsei University; Ph.D., University of California, San Diego.

**Bon-Jun Koo**

*Professor of Natural Science*

B.S., M.S., Konkuk University; Ph.D., University of California, Riverside.

**L****Robert LaChausse**

*Professor of Public Health*

B.A., M.S., California State University, San Bernardino; Ph.D., Claremont Graduate University.

**Douglas Lainson**

*Associate Professor of Business Administration*

B.A., Loma Linda University; M.B.A., Biola University; Ph.D., Claremont Graduate University.

**Jacob Lanphere**

*Professor of Environmental Science*

B.S., Ph.D., University of California, Riverside.

**Anne-Marie Larsen**

*Professor of Psychology*

B.A., University of California, Los Angeles; M.A., Ph.D., California School of Professional Psychology.

**Catherine Leach**

*Assistant Professor of Social Work*

B.A., M.A., California State University Dominguez Hills; Ed.D., University of La Verne.

**Esther Lee**

*Associate Professor of Statistics*

B.A., Ajou University; M.A., Yonsei University; Ph.D., University of California, Irvine.

**Jay Lee**

*Professor of Construction Management*

B.E., M.S.E., Inha University; Ph.D., Purdue University.

**Jong Cheon Lee**

*Associate Professor of Psychology*

B.E., Hanyang University; M.Div., M.A., Ph.D., Southwestern Baptist Theological Seminary.

**Charles Lee-Johnson**

*Associate Professor of Social Work*

B.A., Morehouse College; M.S.W., University of California, Los Angeles; D.Min., United Theological Seminary.

**Sydney Leisz**

*Assistant Professor of Kinesiology*

B.A., M.S., Point Loma Nazarene University; Ph.D., Abertay University.

**Matthew Leonard**

*Assistant Professor of Philosophy*

B.A., B.A.T., California Baptist University; M.A., California State University, Los Angeles; M.A., University of California, Davis; Ph.D., University of Southern California.

**Nathan Lewis**

*Professor of Psychology*

B.A., California Baptist University; M.A., Ed.D., Southwestern Baptist Theological Seminary.

**Jiliang Li**

*Assistant Professor of Civil Engineering*

B.Eng., Ph.D., University of Science and Technology; Ph.D., University of Alabama.

**Viola Lindsey**

*Associate Professor of Social Work*

B.A., Stillman College; M.S.W., Ph.D., Loma Linda University.

**Kristine Lippire**

*Professor of Visual Arts*

B.F.A., California State University, Long Beach; M.F.A., Claremont Graduate University.

**Carla Liu**

*Associate Professor of English*

B.A., Hope College; M.S., Nazareth College of Rochester; Ed.D., Alliant International University.

**Jessie Lowell**

*Associate Professor of Psychology*

B.A., Chapman University; Psy.D., Loma Linda University.

**James J. Lu**

*Professor of English*

B.A., Shandong University; M.A., Institute of American Literature; M.A., Ph.D., Duke University.

**Lee Lyons**

*Professor of Communication Arts*

B.A.A., M.F.A., San Diego State University.

**Brittany Lytle**

*Assistant Professor of Social Work*

B.A., University of California Riverside; M.S., Columbia University.

**M**

**Nicole MacDonald**

*Professor of Athletic Training*

B.A., Point Loma Nazarene University; M.P.H., Dr.P.H., Loma Linda University.

**Travis Maclay**

*Assistant Professor of Music*

B.S., M.A., Liberty University.

**Dretona Maddox**

*Assistant Professor of Social Work*

B.S.N., University of Phoenix, San Bernardino; M.S.W., University of Southern California; D.S.W., California Baptist University.

**Amanda Madrid**

*Assistant Professor of Nursing*

B.S.N., California Baptist University; M.S.N., Grand Canyon University.

**Michael Marse**

*Assistant Professor of Communication Arts*

B.A., California Baptist University; M.A. California State University, San Bernardino.

**John Marselus**

*Professor of Aviation Science*

B.S., United States Air Force Academy; M.S., Air University; M.A., M.Div., D.Min., Liberty University.

**Daemian Martin**

*Assistant Professor of Nursing*

B.S.N., Loma Linda University; M.S.N., Grand Canyon University.

**Margaret Matthews**

*Assistant Professor of Nursing*

B.A., Georgian Court College; B.S.N., M.S.N., California Baptist University.

**Kristin Mauldin**

*Associate Professor of Psychology*

B.A., California State University, Hayward; M.A., Ph.D., Miami University.

**Chris McHorney**

*Professor of Political Science*

B.A., University of California, Los Angeles; M.S., Troy State University, Dothan; Ph.D., University of California, Riverside.

**Erica McIntosh**

*Assistant Professor of Social Work*

B.S., Ashford University; M.S.W., California State University, Northridge; D.S.W., California Baptist University.

**Ogbochi McKinney**

*Associate Professor of Public Health*

B.A., M.P.A., M.P.H., California State University, Long Beach; Dr.P.H., Loma Linda University.

**Jeff McNair**

*Professor of Education*

B.A., Wheaton College; M.A., California State University, Los Angeles; Ph.D., University of Illinois, Champaign-Urbana.

**Cheryl Mead**

*Assistant Professor of Nursing*

B.S.N., Grand Canyon University; M.S.N., Capella University.

**Antonio Méjico**

*Assistant Professor of Social Work*

B.A., M.A., Ed.D., University of Redlands.

**Rebecca Meyer**

*Professor of Nursing*

B.S.N., M.S.N., Mount St. Mary's College; Ph.D., Azusa Pacific University.

**Stacy Meyer**

*Assistant Professor of Education*

B.A., San Diego State University; M.A., Azusa Pacific University.

**Jerri Middleton**

*Assistant Professor of Social Work*

B.A.S., Texas Tech University; M.S.W., University of Alabama; D.S.W., California Baptist University.

**Amy Miller**

*Professor of Kinesiology*

B.S., California Baptist University; M.S., California State University, Fullerton; Dr.P.H., Loma Linda University.

**Kenneth Minesinger**

*Professor of Law*

B.A., California State University, San Bernardino; J.D., Western State University College of Law.

**Carol Minton**

*Professor of Sociology*

B.S., M.Ed., University of Central Oklahoma; M.S., Ph.D., Oklahoma State University.

**Yakiciwey Mitchell**

*Assistant Professor of Social Work*

B.A., University of California, Santa Barbara; M.S.W., University of California, Los Angeles; D.S.W., California Baptist University.

**Jin-Sil Mock**

*Associate Professor of Education*

B.S., University of Illinois, Urbana-Champaign; Ed.M., Harvard Graduate School of Education; Ph.D., Vanderbilt University.

**Gene Moon**

*Professor of Music*

B.M., University of Central Oklahoma; B.M.Ed., Chapman University; M.A., New York University; D.M.A., University of Oklahoma.

**Jeff Mooney**

*Professor of Old Testament*

B.A., Auburn University; M.Div., Beeson Divinity School; Ph.D. Southern Baptist Theological Seminary.

**Teresa Taylor Moore**

*Instructor of Communication*

B.A., Ph.D., University of Southern Mississippi; M.A., University of New Orleans.

**Christopher Morgan**

*Professor of Theology*

B.A., Southeast Missouri State University; M.Div., Ph.D., Mid-America Baptist Theological Seminary.

**Elizabeth Morris**

*Professor of Education and Mathematics*

B.A., M.S., California Baptist University; Ph.D., Capella University.

**Timothy Mosteller**

*Professor of Philosophy*

B.A., University of Southern California; M.A., Biola University; Ph.D., University of Miami.

**Deogratius Mshigeni**

*Associate Professor of Sociology*

B.A., University of Dar es Salaam; M.A., Ph.D., University of Nevada, Las Vegas.

**Sophia Mun**

*Assistant Professor of Behavioral and Social Sciences*

B.A., M.A., Korea University; Ph.D., University of Southern California.

**Ted Murcra**

*Associate Professor of Education*

B.A., M.S., California Baptist University; Ed.D., Vanderbilt University.

**Elisabeth Murillo**

*Associate Professor of Aviation Science*

B.S., Westminster College; M.C.A., Delta State University; Ed.D., Concordia University.

N

**Jenifer Nalbandian**

*Associate Professor of Chemistry*

B.S., Pepperdine University; M.S., Ph.D., University of California, Riverside.

**Michael Nalbandian**

*Associate Professor of Engineering*

B.S., Ph.D., University of California, Riverside.

**Bob Namvar**

*Professor of Economics*

B.S., M.S., Pahlavi University; M.A., Indiana University; Ph.D., University of California, Riverside.

**Jocelyn Navarro**

*Assistant Professor of Early Childhood Education*

B.A., Life Pacific College; M.S., University of La Verne.

**Kenneth Nehrbass**

*Assistant Professor of Social Work*

B.A., University of California, Irvine; M.Div., Anderson University; M.A., Ph.D., Biola University.

**Bryan Ness**

*Professor of Communication Sciences and Disorders*

B.S., M.S., University of Nevada; Ph.D., University of Oregon.

**Rashael Nevels**

*Assistant Professor of Social Work*

B.A., University of California, Riverside; M.S., D.S.W., California Baptist University.

**Jennifer Newton**

*Professor of English*

B.A., LeTourneau University; M.A., Ph.D., Baylor University.

**Michelle Nielsen-Hernandez**

*Professor of Mathematics*

B.A., Bethel University; M.S., Ph.D., University of Minnesota, Minneapolis.

**Matthew Niermann**

*Associate Professor of Architecture*

B.S., M.Arch., University of Illinois, Urbana-Champaign; M.A., Biola University; M.A., Th.M., Gordon-Conwell Theological Seminary; M.S., Ph.D., University of Michigan.

**Jee Young Noh**

*Assistant Professor of Education*

B.B.A., Yonsei University; M.Ed., Harvard University; Ph.D., University of Maryland, College Park.

**Jenny Nuccio**

*Lecturer of Social Work*

B.S., M.Ed., Ed.D., Texas A&M University.

**O**

**David Ogoli**

*Professor of Architecture*

B.Arch., University of Nairobi; M.Phil., University of Cambridge; Ph.D., University of Florida.

**Pedro Olvera**

*Associate Professor of School Psychology*

B.A., San Diego Christian College; M.A., Azusa Pacific University; Psy.D., Alliant International University.

**Heather Ontiveros**

*Associate Professor of Physician Assistant Studies*

B.S., University of California, Davis; M.A., San Diego State University; D.H.Sc., A.T. Still University.

**Monica O'Rourke**

*Professor of Kinesiology*

B.S., California State University, San Bernardino; M.S., California Baptist University; Ph.D., Middle Tennessee State University.

**Mario Oyanader**

*Professor of Chemical Engineering*

B.S., Northern Catholic University; M.S., Hawaii Pacific University; Ph.D., Florida State University.

**P**

**Marilyn Panaro**

*Lecturer of Natural Sciences*

B.S., The State University of New York, Buffalo; M.A., Trinity International University.

**Katherine Papineau**

*Professor of Art History*

B.A., Wellesley College; M.A., Ph.D., University of California, Santa Barbara.

**Angela Park**

*Professor of Music*

B.M., University of Washington; M.M., D.M.A., University of Southern California.

**Hyun-Woo Park**

*Professor of Biology*

B.S., M.S., Seoul National University; Ph.D., University of California, Riverside.

**John Park**

*Assistant Professor of Psychology*

B.S., Andrews University; M.Div., Andrews Theological Seminary; Ph.D., Loma Linda University.

**Samuel Park**

*Associate Professor of Graphic Design and Digital Media*

B.A., Art Center College of Design; M.F.A., Liberty University.

**Barry Parker**

*Librarian*

B.A., McMaster University; M.Div., Northwest Baptist Theological Seminary; M.L.I.S., University of British Columbia; Ph.D., University of Sheffield.

**Robert Pate**

*Professor of Psychology*

B.A., Wagner College; M.A., Psy.D., Biola University.

**Sarah Pearce**

*Assistant Professor of Nursing*

B.S., M.S., California Baptist University; Ph.D., Liberty University.

**David Pearson**

*Professor of Kinesiology*

B.S., M.S.A., West Chester University; Ph.D., University of California, Riverside.

**Mary Ann Pearson**

*Professor of Communication*

B.A., M.S., California Baptist University; Ed.D., La Sierra University.

**Michelle Pearson-LoGiudice**

*Assistant Professor of Nursing*

B.S.N., Western Governors University; M.S.N., Grand Canyon University.

**Marshare Penny**

*Professor of Public Health*

B.S., M.P.H., San Diego State University; Dr.P.H., Loma Linda University.

**Juliann Perdue**

*Professor of Nursing*

B.S.N., University of Texas, El Paso; M.S.N., University of Phoenix; D.N.P., Western University of Health Sciences.

**Henry Petersen**

*Associate Professor of Business Administration*

B.S., M.S., Ph.D., University of Calgary.

**Jennifer Pham**

*Assistant Professor of Nursing*

B.S.N., M.S.N., Grand Canyon University.



**Anthony Phillips**

*Assistant Professor of Nursing*

B.S.N., California State University, Dominguez Hills; M.S.N., Western Governor's University.

**Glenn Pickett**

*Professor of Music*

B.A., California State University, Northridge; M.M., Azusa Pacific University; D.M.A., Claremont Graduate University.

**Chase Porter**

*Associate Professor of Political Science*

B.A., Mississippi College; M.Div., Samford University; Ph.D., University of Alabama.

**Daniel Prather**

*Professor of Aviation Science*

B.C.A., Delta State University; M.B.A., University of North Alabama; M.P.A., Southern Illinois University; Ph.D., University of Nebraska, Lincoln.

**Bruce Prins**

*Professor of Biology*

B.A., Point Loma College; Ph.D., University of California, Irvine.

**Brett Provance**

*Professor of Humanities*

B.S., California State Polytechnic University, Pomona; M.A., Ph.D., Claremont Graduate University.

**Johanna Pulliam**

*Instructor of Communication Sciences and Disorders*

B.S., California State University, Fullerton; Loma Linda University.

**Cammy Purper**

*Professor of Education*

B.A., University of Redlands; M.A. Pacific Oaks College; Ph.D., Claremont Graduate University.

**Susan Purrington**

*Professor of Psychology*

B.A., Concordia University; M.A., Psy.D., Biola University.

**Joseph Putulowski**

*Associate Professor of Marketing*

B.A., California State University, Fullerton; M.B.A., California Baptist University; Ph.D., Northcentral University.

**R****Jasmine Reed**

*Assistant Professor of Nursing*

B.S., West Coast University; M.S.N., Walden University.

**Veronica Regueiro**

*Assistant Professor of Psychology*

B.A., Whittier College; Pepperdine University; Psy.D., Biola University.

**Brenda Reinebach**

*Lecturer of Music*

B.A., M.A., Bob Jones University.

**John Reinebach**

*Professor of Music*

B.A., M.A., Bob Jones University; D.M.A., University of Southern California.

**Matthew Rickard**

*Professor of Mechanical Engineering*

B.S., M.S., Ph.D., University of California, Irvine.

**Mark Roberson**

*Professor of Architecture*

B.S., University of Texas, Arlington; B.Arch., M.Arch., University of Southern California.

**Pennee Robertson**

*Associate Professor of Nursing*

B.S.N., M.S.N., California State University, Fullerton; D.N.P., Rush University.

**Lucy Rodger**

*Clinical Instructor of Nursing*

A.A., San Bernardino Community Valley College; A.S.N., Bunker Hill Community College; B.S.N., M.S.N.Ed., Western Governors University.

**James Rodisch**

*Instructor of Accounting*

B.A., Temple University; M.B.A., University of Phoenix; M.S., Keller Graduate School of Management.

**Mark Rogers**

*Lecturer of Christian Ministries*

B.A., California Baptist University; M.Div., Southern Baptist Theological Seminary; Ph.D., Trinity Evangelical School.

**Sandra Romo**

*Professor of Communication*

B.A., M.S., California Baptist University; Ph.D., Regent University.

**Robert Rose**

*Assistant Professor of Criminal Justice*

A.S., Riverside Community College; B.S., M.P.A., California Baptist University; D.P.A., University of La Verne.

**Michelle Ross**

*Visiting Professor of Communication Sciences and Disorders*

B.A., Washington State University; M.S., Idaho State University.

**Erica Roth**

*Associate Professor of Psychology*

B.S., Houghton College; M.S.Ed., St. Bonaventure University; Psy.D., Azusa Pacific University.

**Mischa Routon**

*Professor of Psychology*

B.A., M.S., California Baptist University; Ph.D., Fielding Graduate University.

**Stephen Runyan**

*Professor of Biology*

B.S., M.S., Ph.D., University of California, Los Angeles.

**Noe Ruvalcaba**

*Professor of Spanish*

B.A., University of California, Santa Barbara; M.A., Ph.D., University of California, Riverside.

S

**Benjamin Sanders**

*Assistant Professor of Computer Science and Data Science*

B.S., M.S., University of California, Riverside.

**Charles D. Sands**

*Professor of Health Science*

B.S., Samford University; M.A., Ph.D., University of Alabama, Birmingham.

**Patrick Schacht**

*Associate Professor of Biochemistry*

B.S., Biola University; Ph.D., University of California, Riverside.

**Thomas Schneider**

*Professor of English*

B.A., Calvin College; M.A., Ph.D., University of California, Riverside.

**Cindy Sendor**

*Assistant Professor of Communication Sciences and Disorders*

B.A., M.A., California State University, Fullerton.

**Karen Shade**

*Lecturer of Computing, Software, and Data Sciences*

B.A., California State University, San Bernardino; B.S., Texas A&M University.

**Elisa Shepard**

*Professor of Psychology*

B.A., Ph.D., Biola University.

**Mary Sherman**

*Lecturer of Physical Therapy*

B.S.H.A., M.B.A., University of Phoenix.

**Lorraine Shields**

*Associate Professor of Nursing*

B.S.N., M.S.N., University of California, Los Angeles; D.N.P, Vanderbilt University.

**Robert Shields**

*Associate Professor of Computer Information Technology*

B.S., University of North Carolina, Charlotte; M.A., Pepperdine University; Ed.D., California State University, Fullerton.

**John R. Shoup**

*Professor of Education*

B.A., University of Montana, Missoula; M.A., M.Div., Trinity Evangelical Divinity School; Ph.D., University of California, Riverside.

**April Si**

*Professor of Mechanical Engineering*

B.S., M.S., Dalian University of Technology; Ph.D., Texas A&M University.

**Michael Sill**

*Associate Professor of Mathematics*

B.S., Loyola Marymount University; Ph.D., University of California, Riverside.

**Duncan Simcoe**

*Professor of Visual Arts*

B.A., California Baptist University; M.F.A., California State University, Long Beach.

**Tracy Simeon**

*Clinical Instructor of Nursing*

A.S., Cypress College; B.S.N., California State University, Domingue Hills; M.S.N.Ed., Western Governors University.

**Riste Simjanovski**

*Professor of Public Administration*

B.A., M.A., University of Redlands; D.P.A., University of La Verne.

**Sonya Singh**

*Instructor of Journalism & New Media*

B.A., Pepperdine University; M.A., New York University.

**Jacob Slagill**

*Assistant Professor of Architecture*

B.A., M.Arch., California Baptist University.

**Joseph Slunaker**

*Associate Professor of Christian Studies*

B.A.T., California Baptist University; M.Div., Golden Gate Baptist Theological Seminary; Ph.D., Gateway Seminary.

**Christine Smith**

*Lecturer of Photography*

B.A., M.A., Biola University; M.F.A., Azusa Pacific University.

**Erin Smith**

*Professor of Psychology*

B.A., Point Loma Nazarene University; M.A., Ph.D., University of California, Riverside.

**Daniel St. Marseille**

*Associate Professor of Music*

B.M., Chapman University; M.M., California State University, Fullerton.

**Mary Stahovich**

*Assistant Professor of Physician Assistant Studies*

B.S., University of California, San Diego; M.H.P., Northeastern University; D.H.Sc., University of Lynchburg.

**Owen Staley**

*Lecturer of English*

B.A., M.A., University of California, Berkeley, Ph.D., University of California, Los Angeles.

**Jan Stanfield**

*Assistant Professor of Social Work*

B.A., Michigan State University; M.S.W., University of Michigan.

**H. Bruce Stokes**

*Professor of Behavioral Science*

B.A., California State University, Domingue Hills; M.A., Ph.D., University of California, Riverside.

**Amy Stumpf**

*Professor of Religion and Society*

B.A., Pacific Union College; M.A., Ph.D., Loma Linda University.

**Dominick Sturz**

*Professor of Public Health*

B.S., M.P.H., California State University, Fullerton; Dr.P.H., Loma Linda University.

**Sean Sullivan**

*Professor of Kinesiology*

B.S., M.A., San Diego State University; Ph.D., University of New Mexico.

**Linda-Marie Sundstrom**

*Professor of Public Administration*

B.S., California Polytechnic University, Pomona; M.P.A., California State University, San Bernardino; D.P.A., University of La Verne.

**Tae Sung**

*Associate Professor of English*

B.A., University of California, San Diego; M.A., Fuller Theological Seminary; M.A., Ph.D., University of California, Irvine.

**Satoru Suzuki**

*Professor of Chemistry*

B.S., Grand Canyon University; Ph.D., Arizona State University.

**Daniel Szeto**

*Professor of Biology and Biochemistry*

B.S., University of California, Davis; M.S., San Diego State University; Ph.D., University of California, San Diego.

**T****Hannah Tait**

*Clinical Instructor of Nursing*

B.A., Pepperdine University; M.S.N., University of San Francisco.

**Shane Teran**

*Assistant Professor of Social Work*

B.A., Ohio University; M.S.W., Ohio State University; Psy.D., University of the Rockies.

**Yvonne Thai**

*Professor of Sociology*

B.S., M.A., Ph.D., University of California, Riverside.

**Mandy Themm**

*Lecturer of Education*

B.A., California State University, San Marcos; Chapman University.

**Terri Thompson**

*Associate Professor of Nursing*

B.S.N., Oral Roberts University; M.S.N., Chamberlain College of Nursing; D.N.P., Western University of Health Sciences.

**Rachel Timmons**

*Professor of Education*

B.S., Concordia Teacher's College; M.A., Michigan State University; Ed.D., La Sierra University.

**David Toledo**

*Associate Professor of Music*

B.M., Northwestern State University; M.M., Ph.D., Southwestern Baptist Theological Seminary.

**Stacey Toro**

*Associate Professor of Nursing*

B.S.N., M.B.A., M.S.N., University of Phoenix; D.N.P., California Baptist University.

**Nidia Torres**

*Assistant Professor of Nursing*

B.S., University of Phoenix; M.S.N., California Baptist University; D.N.P., University of Arizona.

**Erika Travis**

*Professor of English*

B.A., M.A., California Baptist University; Ph.D. Claremont Graduate University.

**Jennifer Tronti**

*Assistant Professor of English*

B.A., California Baptist University; M.A., Claremont Graduate University; M.A., Pacifica Graduate Institute.

**Jones Tsai**

*Associate Professor of Biochemistry*

B.S., University of California, San Diego; M.S., Ph.D., Columbia University.

**Brian Tung**

*Assistant Professor of Theology*

B.S., University of California, Los Angeles; M.Div., Th.M., Talbot School of Theology; Trinity Evangelical Divinity School.

**V**

**Katherine Valentine**

*Assistant Professor of Nursing*

B.S., Texas Woman's University; M.S.N.Ed., Western Governor's University.

**Phil Van Haaster**

*Assistant Professor of Mechanical Engineering*

B.S., University of Southern California; M.S., University of California, Los Angeles; D.B.A., California Baptist University.

**Gaynell Vanderslice**

*Assistant Professor of Management*

B.A., M.B.A., California State University, San Bernardino; Ph.D., Alliant International University.

**Veola Vazquez**

*Professor of Psychology*

B.A., California Baptist University, M.A., Ph.D., Biola University.

**Laura Veltman**

*Professor of English*

B.A., Calvin College; M.A., Ph.D., University of Wisconsin, Madison.

**Andrés D. Vera**

*Assistant Professor of Christian Ministries*

B.S., McMaster University; M.Div., Th.M., Ph.D., Southern Baptist Theological Seminary.

**Candace Vickers**

*Professor of Communication Sciences and Disorders*

B.A., M.S., Chapman University; Ph.D., Claremont Graduate University.

**W**

**Deron Walker**

*Professor of English*

B.A., M.A., Eastern Illinois University; Ph.D., Southern Illinois University.

**Doug Wallace**

*Associate Professor of Sociology*

B.S., Missouri Southern State University; M.A., Ph.D., Kansas State University.

**Keith Walters**

*Professor of Education*

B.A., Calvin College; M.A., California State University, Long Beach; Ed.D., University of Southern California.

**Nancy Ward**

*Lecturer, Visual Arts*

B.F.A., California State University, Fullerton; M.F.A., Azusa Pacific University.

**Tracy Ward**

*Professor of Behavioral Science and Education*

B.S., Stephen F. Austin State University; M.Div., Golden Gate Baptist Theological Seminary; M.Ed., Azusa Pacific University; Ph.D., Claremont Graduate University.

**Sam Welbaum**

*Associate Professor of Christian Ministries*

B.A., California Baptist University; M.A., Biola University; M.T.S., Golden Gate Baptist Theological Seminary; Ph.D., Claremont Graduate University.

**Marc Weniger**

*Professor of Business*

B.S., Lewis University; M.B.A., University of Phoenix, M.A., Ph.D., Fielding Graduate University.

**Ruth Noemy Wheeler**

*Instructor of Music*

B.A., Superior Conservatory of Music; M.M. California Baptist University.

**Melissa Wigginton**

*Professor of Health Science*

B.S., California State University, San Bernardino; M.S., California State University, Fullerton; Dr.P.H., Loma Linda University.

**Shawn Wilhite**

*Associate Professor of Christian Studies*

B.A., California Baptist University; M.Div., Th.M., Master's Seminary; Th.M., Ph.D., Southern Baptist Theological Seminary.

**Robert Willett**

*Associate Professor of Mathematics*

B.S., California Baptist University; M.S., Ph.D., University of California, Riverside.

**Chessa Williams**

*Assistant Professor of Worship Arts and Ministry*

B.A., Scripps College; M.C.M., Southern Baptist Theological Seminary.

**Evangelina Williams**

*Instructor of Social Work*

B.A., University of California, Berkeley; M.S.W., University of Southern California; Ph.D., Capella University.

**Roston Willis Jr.**

*Assistant Professor of Digital and Social Media Marketing*

B.B.A., University of Memphis; M.B.A., University of Phoenix, Kansas City.

**Danny K. Wilson**

*Professor of Biblical Studies*

B.A., Union University; M.Div., Ph.D., Southwestern Baptist Theological Seminary.

**Natalie Winter**

*Professor of Business Administration*

B.S., M.B.A., Azusa Pacific University; Ed.D., Pepperdine University.

**Christopher K. Wright**

*Associate Professor of Graphic Arts*

B.F.A., Virginia Commonwealth University; M.A., M.F.A., Savannah College of Art and Design.

X

Y

**Karim Youssef**

*Assistant Professor of Architecture*

M.S., University of Montreal; Ph.D., University of Calgary.

Z

**James Zapata**

*Assistant Professor of Physician Assistant Studies*

A.S., Saddleback Community College; B.S., Biola University; M.S., Western University of Health Sciences; D.M.S., University of Lynchburg.

**Kathryn Zeeb**

*Assistant Librarian*

B.A., California State University, Fullerton; M.L.I.S., San Jose State University.

**Effat Zeidan**

*Associate Professor of Natural and Mathematical Sciences*

B.S., University of Beirut; Ph.D., University of North Carolina, Greensboro.

**Jun Zhang**

*Professor of Industrial Engineering*

B.S., M.S., Beijing Institute of Technology; Ph.D., Purdue University.



**Xueyan Zhao**

*Associate Professor of Chemical Engineering*

B.S., M.S., Tianjin University; M.S., University of Akron; Ph.D., University of Minnesota, St. Paul.

**Qing Zheng**

*Professor of Electrical and Computer Engineering*

B.S., North China University of Technology; M.Eng., National University of Singapore; Eng.D., Cleveland State University.

**Huajun Zhou**

*Assistant Professor of Chemistry*

B.S., Peking University; Ph.D., Wake Forest University.

**Ziliang Zhou**

*Professor of Mechanical Engineering*

B.S., Shanghai Jiao Tong University; M.S. University of Manitoba; M.B.A., University of Michigan; Ph.D., University of Kentucky.