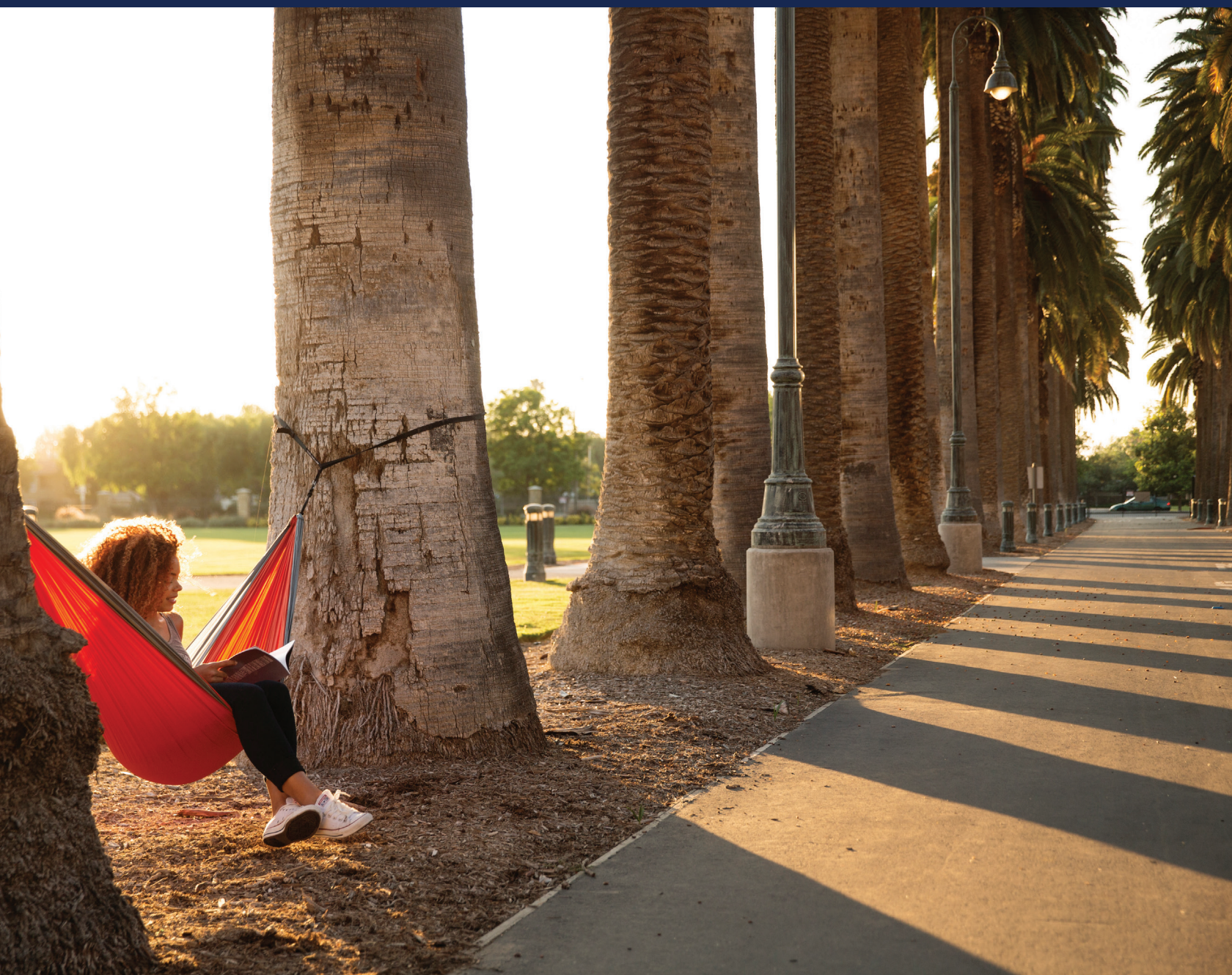


# UNDERGRADUATE

University Catalog

**2015-2016**





2015 | 2016

# California Baptist University

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An Institution of the California Southern Baptist Convention

UNDERGRADUATE CATALOG  
65<sup>TH</sup> SESSION



## **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.

## **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 and typesetting by Keelin Jacobsen, Shawnn Koning and Shelly Rupard. August 2015.*

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# University Calendar 2015 – 2016

## FALL SEMESTER 2015\*

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### August

12 Semester Financial Clearance Deadline

### September

7 Labor Day Holiday (offices open)  
8 Classes Begin\*  
15 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  
25 Board of Trustees Meeting

### October

1 Graduation Application Deadline for December 2015 graduation  
19-23 Midterm Examinations  
30 Last Day to Withdraw from a Class with "W" (no refund)\*

### November

23-27 Thanksgiving Holiday (no classes, offices closed at 12:00 noon on the 24th)  
30 Classes Resume, Offices Open

### December

12-17 Final Examinations  
17 Semester Closes  
17 Commencement Exercises  
18 Christmas Holiday Begins  
22 Offices Closed (December 22 - January 3)

\*For courses with alternate begin and end dates, please see InsideCBU for alternate add, drop and withdraw dates. For Online and Professional Studies semester dates, please refer to the Online and Professional Studies Calendar.

# University Calendar 2015 – 2016

## SPRING SEMESTER 2016\*

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### January

- 4 Offices Open
- 5 Semester Financial Clearance Deadline
- 6 Classes Begin\*
- 8 Board of Trustees Meeting
- 13 Last Day to Add a Class for Credit\*
- 18 Martin Luther King Jr. Holiday (no classes, offices closed)
- 20 Last Day to Drop a Class with Refund\*
- 20 Last Day to Turn in Credit/No Credit Request

### February

- 1 Graduation Application Deadline for May and August 2016 graduation
- 22-26 Midterm Examinations

### March

- 2 Postmark Deadline for FAFSA and GPA Verification Form (Cal Grant)
- 4 Last Day to Withdraw from a Class with "W" (no refund)\*
- 14-18 Spring Break (no classes)
- 25 Good Friday Holiday (no classes, offices closed)
- 26-28 Easter Observance (classes resume at 4:00pm on the 28th, offices closed)
- 29 Offices Open

### April

- 21-26 Final Examinations
- 26 Semester Closes
- 29 Board of Trustees Meeting
- 30 Commencement Exercises

\*For courses with alternate begin and end dates, please see InsideCBU for alternate add, drop and withdraw dates. For Online and Professional Studies semester dates, please refer to the Online and Professional Studies Calendar.

# University Calendar 2015 – 2016

## SUMMER SEMESTER 2016\*

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### Traditional Semester

#### May

- 2 Semester Financial Clearance Deadline
- 2 Classes Begin\* - Traditional Semester
- 9 Last Day to Add a Class for Credit\* - Traditional Semester
- 16 Last Day to Drop a Class with Refund\* - Traditional Semester
- 30 Memorial Day Holiday (no classes, offices closed)

#### June

#### July

- 4 Independence Day Holiday (no classes, offices closed)
- 8 Last Day to Withdraw from a Class with "W" (no refund)\* - Traditional Semester

#### August

- 19 Traditional Semester Closes

### Term 1

---

#### May

- 2 Semester Financial Clearance Deadline
- 2 Classes Begin\* - Term 1
- 9 Last Day to Add a Class for Credit\* - Term 1
- 16 Last Day to Drop a Class with Refund\* - Term 1
- 30 Memorial Day Holiday (no classes, offices closed)
- 31 Last Day to Withdraw from a Class with "W" (no refund)\* - Term 1

#### June

- 24 Term 1 Closes

### Term 2

---

#### May

- 2 Semester Financial Clearance Deadline

#### June

- 27 Classes Begins\* - Term 2

#### July

- 4 Independence Day Holiday (no classes, offices closed)
- 5 Last Day to Add a Course for Credit\* - Term 2
- 11 Last Day to Drop a Course with Refund\* - Term 2
- 25 Last Day to Withdraw from a Course with "W" (no refund)\* - Term 2

#### August

- 19 Term 2 Closes

\*For courses with alternate begin and end dates, please see InsideCBU for alternate add, drop and withdraw dates. For Online and Professional Studies semester dates, please refer to the Online and Professional Studies Calendar.

# University Calendar 2016 – 2017 (Proposed)

## FALL SEMESTER 2016\*

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### August

13 Semester Financial Clearance Deadline

### September

5 Labor Day Holiday (offices open)  
6 Classes Begin\*  
13 Last Day to Add a Class for Credit\*  
20 Last Day to Drop a Class with Refund\*  
20 Last Day to Turn in Credit/No Credit Request  
30 Board of Trustees Meeting

### October

1 Graduation Application Deadline for December 2016 graduation  
24-28 Midterm Examinations

### November

4 Last Day to Withdraw from a Class with "W" (no refund)\*  
24-28 Thanksgiving Holiday (no classes, offices closed at 12:00 noon on the 22th)  
28 Classes Resume, Offices Open

### December

8-13 Final Examinations  
15 Semester Closes  
15 Commencement Exercises  
16 Christmas Holiday Begins  
21 Offices Closed (December 21 - January 2)

\*For courses with alternate begin and end dates, please see InsideCBU for alternate add, drop and withdraw dates. For Online and Professional Studies semester dates, please refer to the Online and Professional Studies Calendar.

# University Calendar 2016 – 2017 (Proposed)

## SPRING SEMESTER 2017\*

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### January

- 3 Offices Open
- 5 Semester Financial Clearance Deadline
- 11 Classes Begin\*
- 16 Martin Luther King Jr. Holiday (no classes, offices closed)
- 18 Last Day to Add a Class for Credit\*
- 20 Board of Trustees Meeting
- 25 Last Day to Drop a Class with Refund\*
- 25 Last Day to Turn in Credit/No Credit Request

### February

- 1 Graduation Application Deadline for May and August 2017 graduation
- 27-Mar 3 Midterm Examinations

### March

- 2 Postmark Deadline for FAFSA and GPA Verification Form (Cal Grant)
- 10 Last Day to Withdraw from a Class with "W" (no refund)\*
- 20-24 Spring Break (no classes)

### April

- 14 Good Friday Holiday (no classes, offices closed)
- 15-17 Easter Observance (classes resume at 4:00pm on the 17th, offices closed)
- 18 Offices Open
- 27-May 2 Final Examinations

### May

- 2 Semester Closes
- 5 Board of Trustees Meeting
- 6 Commencement Exercises

\*For courses with alternate begin and end dates, please see InsideCBU for alternate add, drop and withdraw dates. For Online and Professional Studies semester dates, please refer to the Online and Professional Studies Calendar.

# University Calendar 2016 – 2017 (Proposed)

## SUMMER SEMESTER 2017\*

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### Traditional Semester

#### May

- 8 Semester Financial Clearance Deadline
- 8 Classes Begin\* - Traditional Semester
- 15 Last Day to Add a Class for Credit\* - Traditional Semester
- 22 Last Day to Drop a Class with Refund\* - Traditional Semester
- 29 Memorial Day Holiday (no classes, offices closed)

#### June

#### July

- 4 Independence Day Holiday (no classes, offices closed)
- 7 Last Day to Withdraw from a Class with "W" (no refund)\* - Traditional Semester

#### August

- 18 Traditional Semester Closes

### Term 1

---

#### May

- 8 Semester Financial Clearance Deadline
- 8 Classes Begin\* - Term 1
- 15 Last Day to Add a Class for Credit\* - Term 1
- 22 Last Day to Drop a Class with Refund\* - Term 1
- 29 Memorial Day Holiday (no classes, offices closed)

#### June

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

### Term 2

---

#### May

- 8 Semester Financial Clearance Deadline

#### June

#### July

- 3 Classes Begin\* - Term 2
- 4 Independence Day Holiday (no classes, offices closed)
- 10 Last Day to Add a Course for Credit\* - Term 2
- 17 Last Day to Drop a Course with Refund\* - Term 2
- 31 Last Day to Withdraw from a Course with "W" (no refund)\* - Term 2

#### August

- 25 Term 2 Closes

\*For courses with alternate begin and end dates, please see InsideCBU for alternate add, drop and withdraw dates. For Online and Professional Studies semester dates, please refer to the Online and Professional Studies Calendar.

# Final Examination Schedule

## FALL SEMESTER 2015

### Saturday, December 12

TBD All TBD Wednesday Hybrid and Thursday Hybrid classes\*

### Monday, December 14

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

### Tuesday, December 15

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

### Wednesday, December 16

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

### Thursday, December 17

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 2016

### Thursday, April 21

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

### Friday, April 22

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

### Saturday, April 23

TBD All TBD Monday Hybrid and Tuesday Hybrid classes\*

### Monday, April 25

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

### Tuesday, April 26

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

\* 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.



2015 | 2016

# California Baptist University

## UNDERGRADUATE CATALOG

**Dr. Ronald L. Ellis**  
*President*

**Ms. Julie Moulton**  
*Administrative Assistant*  
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FAX 951.343.4511



# CALIFORNIA BAPTIST UNIVERSITY

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**Dr. Ronald L. Ellis**

*President*

**Ms. Julie Moulton**

*Administrative Assistant to the President*

Phone 951.343.4210

FAX 951.343.4511

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*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 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.

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

## The University

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### 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 consortium of 109 private liberal arts Christian colleges and universities in North America and 75 affiliate institutions in 24 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, a Latin American studies program in Costa Rica; the Los Angeles Film Studies Center; the Washington Journalism 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.

### China Studies Program (CSP)

The China Studies Program introduces students to the diversity of China, including Hong Kong, Beijing, Shanghai, Xi'an and Xiamen. This interdisciplinary, cross-cultural program enables students to deal with this increasingly important part of the world in an informed, Christ-centered way.

### 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.

### Latin American Studies Program (LASP)

Students of CCCU colleges have the opportunity to live and learn in Latin America through the Latin American Studies Program based in San Jose, Costa Rica. The program introduces students to as wide a range of experiences through the study of the language, literature, culture, politics, history, economics, ecology and religion of the region. Living with a Costa Rican family, students experience and become a part of the day-to-day lives of typical Latin Americans. Students also take part in a service opportunity and travel for three weeks to nearby Central American nations. Students participate in one of four concentrations: Latin American Studies; Advanced Language and Literature; International Business and Management; and Tropical Sciences.

### 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.

### Middle East Studies Program (MESP)

This program, based in Cairo, Egypt, allows Council students to explore and interact with the complex and strategic world of the modern Middle East. The interdisciplinary seminars give students the opportunity to explore the diverse religious, social, cultural and political traditions of Middle Eastern people. MESP encourages and equips students to relate to the Muslim world in an informed, constructive and Christ-centered manner at a time of tension and change.

### Russian Studies Program (RSP)

RSP students are exposed to the depth and diversity of the culture during a semester spent in Russia's three largest cities: Moscow, St. Petersburg and Nizhni Novgorod. In addition to three seminar courses students receive instruction in the Russian Language. Students also participate in a service opportunity in Nizhni Novgorod.

### Scholars Semester in Oxford

Honors and other highly qualified students have the exciting opportunity to study in England through this interdisciplinary semester in Oxford. The rigorous academic program, aimed at increasing critical thinking skills and scholarship from an integrated Christian perspective, allows participants to choose from a wide variety of tutorial study programs in numerous disciplines, including the arts, religion, history, literature and philosophy.

### Summer Programme – CMRS, Oxford

This programme is designed to enable students to gain a more comprehensive understanding of the relationship between Christianity and Culture and to do specialized work under Oxford academics. The challenges are many, the work intense, the material difficult and the culture unique. But the opportunity – to study in the Bodleian library, worship in Christchurch Cathedral, and debate interesting topics with world-renowned scholars, is beyond comprehension.

### Uganda Studies Program – Uganda Christian University

This program offers students the opportunity to study at one of the best private institutions in East Africa. While students have many diverse opportunities to interact with peers and local Ugandans, classes give students a chance to learn the culture of the people who will be hosts, neighbors and friends for the semester. Students choose courses which deal with different aspects of African culture including history, politics, religions, and literature. Throughout the semester, students explore issues of cross cultural life and use the unique perspective of living in Uganda to take a fresh look at our American Christianity.

### Washington Journalism Center

This program is an advanced, experiential semester on Capital Hill that will cultivate professional news skills and encourage students to think through the implications of being a Christian working in the news media in a city that is home to the powerful and the powerless. This mission of the program is for students to grow through the practice of real-world journalism. Students will function as professional journalists living and working in the city and be required to meet deadlines and hold to industry-level standards of quality. Students will also gain understanding by serving. Students live in the homes of Washington D.C. residents and address the real human needs that are so prevalent in this city.

## The University

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### 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 Fine Arts, Bachelor of Science in Industrial and Systems Engineering, Bachelor of Science in Mechanical Engineering, Bachelor of Science in Nursing, Bachelor of Science in Software Engineering, 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 Nursing, Doctor of Nursing Practice, and Doctor of Public Administration.

California Baptist University is accredited by the Accrediting Commission for Senior Colleges and Universities of the Western Association of Schools and Colleges\* (WASC) and abides by WASC Policy on Substantive Change and the Policy on Distance and Technology-Mediated Instruction. The School of Business is 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 School of Behavioral Sciences the counseling psychology degree program is accredited by the Board of Behavioral Sciences (BBS); 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 Accreditation Board for Engineering and Technology (ABET) and the construction management program is accredited through the American Council for Construction Education (ACCE); through the Department of Kinesiology the athletic training program is accredited by the Commission on Accreditation of Athletic Training Education (CAATE); through the School of Nursing the nursing programs are accredited by the Commission on Collegiate Nursing Education (CCNE).

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 Association of Southern Baptist Colleges and Schools, the Council for Christian Colleges & Universities, and the Service Members Opportunity Colleges.

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.

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\* Western Association of Schools & Colleges  
Association of Senior Colleges & Universities  
Accrediting Commission for Senior Colleges & Universities  
985 Atlantic Avenue, Suite 100  
Alameda, CA 94501

Phone: 510.748.9001  
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2015 | 2016

# California Baptist University

## Enrollment and Student Services

### UNDERGRADUATE CATALOG

**Mr. Kent Dacus**  
*Vice President for Enrollment  
and Student Services*

**Ms. Kristine Smith**  
*Administrative Assistant*  
Phone 951.343.4687  
FAX 951.343.4576



# ENROLLMENT AND STUDENT SERVICES

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**Mr. Kent Dacus**

*Vice President for Enrollment and Student Services*

**Ms. Kristine Smith**

*Administrative Assistant*

Phone (951) 343-4687

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## **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.

On this campus, the concepts of freedom and personal responsibility are inextricably bound together. The campus 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 hours being taken. The Standard of Student Conduct is established for the purpose of outlining expected behavior of students in the campus 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, community service, study abroad, International Service Projects, United States Service Projects, and Summer of 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**

The Enrollment and Student Services Division encompasses the offices of Academic Advising, Career Center, Community Life, Counseling Center, Enrollment Services, Intercollegiate Athletics, Leadership and Transitions, Provider Food Service, Residence Life, Safety Services, Spiritual Life, Student Government, Student Health Center, and University Card Services. 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:

- Administering 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.)
- Serving as the primary point of notification when students are involved in situations that require an extended absence from campus
- Coordinating commencement events

### **Academic Advising**

The Office of Academic Advising assists Students with course registration, degree planning, graduation checks, program changes and various academic appeals. Academic Advising works in cooperation with both departments and other Student support offices to ensure the best possible assistance is provided to Students navigating their program of study. Advisors are available by appointment, walk-in, chat, email, or phone.

### **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, recreational sports, educational programs, cultural programs, and seminars that reflect the Christian values of the institution.

### **Associated Student Government**

The Associated Students of California Baptist University (ASCBU) is committed to the development of the student body through the representation of student needs and concerns to the University administration and a variety of student programs.

The ASCBU organization consists of a three-branched government; the executive, legislative, and judicial. The Executive Council, Senate (Class, Residential, and Commuter Representatives), and Judicial Board perform duties for each branch, respectively. Specific responsibilities of each branch are outlined in the ASCBU Constitution.

## Enrollment and Student Services

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### 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 and 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 provide opportunities for students to gain skills and experience necessary to excel in their respective professions and become effective servant-leaders for Christ upon graduation, both locally and globally.

The Career Center provides Students with varied opportunities for professional development, career exploration, as well as jobs and internships through programing that is both campus wide and major specific. Career Center staff conducts classroom presentations, workshops, seminars, and hold office drop-In hours to assist and instruct Students in their choice of academic major as well as their professional development. In addition, the Career Center assists Students with securing on-campus and off-campus employment.

### 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.

### Intercollegiate Athletics

The Athletic Department provides education for the body, mind and spirit of each student-athlete at California Baptist University. The department is staffed by an athletic director, associate athletic director for compliance, associate athletic director for marketing and media relations, assistant athletic director for facilities, assistant athletic director for sports medicine, athletic academic counselor, aquatic center director, athletic trainers, athletic performance director, coaches and a support staff. Coaches work diligently in the education of the students so they will experience athletic, academic and personal success in their endeavors, while encouraging Christ-like competition by all participants.

CBU is an active member of the National Collegiate Athletic Association (NCAA) Division II. Within the NCAA, most sports compete in the PacWest Conference, which is comprised of twelve other like-minded colleges and universities. The Lancers also compete in the Rocky Mountain Athletic Conference, Mountain Pacific Sports Federation, Western Water Polo Association and the Golden Coast Conference. In order to be eligible to participate in the CBU Intercollegiate Athletics program, student-athletes must meet all NCAA and/or conference eligibility requirements and rules for competition.

The Lancers intercollegiate sports programs sponsored by CBU for men include baseball, basketball, cross country, golf, soccer, swimming and diving, track, volleyball, water polo and wrestling. Women's programs include basketball, cross country, golf, softball, soccer, swimming and diving, track, volleyball and water polo. The athletic department also oversees cheerleading.

### Leadership and Transitions

The Office of Leadership and Transitions oversees the Student Leadership Program selection process, Student Leadership training and development, New Student Orientation programs, women's programs, and a variety of other campus-based programs and initiatives.

#### FOCUS (First-Year Orientation and Christian University Success)

The FOCUS program is designed to assist new Students with the transition to university life and the California Baptist University community. FOCUS consists of New Student Orientation, Welcome Weekend, and a University Success course. In addition to introducing Students to campus culture, providing an overview of campus resources, and conveying University academic and behavioral expectations, Orientation and Welcome Weekend offer a complete program of social, spiritual, and informational sessions prior to the beginning of each semester.

The FOCUS course is required of all full-time undergraduate Students who are first-semester freshmen and graduated from High School in the past two years. 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 FOCUS course.

### Recreation Center

The Recreation Center, located in Lancer Plaza, 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 rock wall and bouldering area, 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.

## Recreational Sports

California Baptist University is committed to the overall educational experience. Recreational sports play an integral part in this experience in the following ways:

1. Encourage students to work together in pursuit of individual and team goals;
2. Provide students an enjoyable way to interact with others;
3. Offer students avenues to relieve tension or anxiety;
4. Help students begin an attitude of lifelong physical fitness.

The University's recreational 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.

## 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.

In the event of a medical or police emergency situation, call 911 and then call the Safety Services Department at 951.343.4311. Other situations should be reported to the Safety Services Department immediately.

## 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:

1. A siren/verbal warning system capable of projecting audible messages across open areas of the campus. Pre-recorded messages are activated at the press of a button or more specific verbal messages with instructions may be delivered over the speaker system.
2. CBU Alert—a 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 are pre-entered into this system and those users have the option to include their personal cellular phone and/or any other device capable of receiving text-based messages. Parents and guardians of Students enrolled at CBU may be added through the Student's account.
3. LancerNet—information may be disseminated to all University-owned computers connected to LancerNet through “popup” warnings that appear on the screens and provide specific information on the circumstances.

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 Safety Services Department. 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.

## Spiritual Life

In keeping with the Great Commission of Matthew 28:18-20, the purpose of the Office of Spiritual Life is “investing in lives to develop followers of Jesus.” Since its inception, California Baptist University has sought to evidence the Christian life on campus. Though the University does not require students to adhere to a doctrinal statement, students are encouraged and expected to exhibit the Christian ethics of love, joy, peace, patience, kindness, goodness, faithfulness, gentleness, and self-control.

Committed to biblical Christianity, 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. Participating in urban projects for a day or a weekend, working with the homeless, or serving the local community gives students the opportunity to make a difference in the lives of others in the name of Jesus.

## Enrollment and Student Services

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### Chapel

The California Baptist University community gathers regularly for worship, fellowship, personal development, and spiritual formation. As a community deeply rooted in the Baptist tradition of the Christian faith, broad participation in the Chapel experience is expected.

Chapel services are organized, coordinated, and implemented by the dean of spiritual life. 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

Discipleship Ministries creates opportunities for Students of California Baptist University to grow in their relationship with Christ by offering access to discipleship and mentoring through one-on-one discipleship, small groups, conferences, programs, and other events that encourage spiritual growth. The primary discipleship structure is Challenge, an intentional discipleship process based in small groups called “Tribes.” Tribes meet weekly and focus on reading and applying scripture in community.

### Mobilization

Students are encouraged to seek opportunities 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. Participation in the programs listed below 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 Office of Spiritual Life and takes place during the fall semester.

**International Service Projects (ISP).** In cooperation with the International Mission Board of the Southern Baptist Convention and various missions organizations, teams of California Baptist University students serve internationally for approximately three weeks during the summer months. Each team is led by a University official or other approved member of the University community. The ministry focus may vary depending upon the outreach strategy of the selected area. International Service Project teams have served in more than 50 countries since 1997.

**United States Projects (USP).** In cooperation with the North American Mission Board of the Southern Baptist Convention and various missions organizations, teams of California Baptist University students, staff, and faculty serve for approximately 10 days during the summer. Each team is led by a University official or other approved member of the University community. The ministry focus may vary depending upon the outreach strategy of the selected area. United States Project teams have served in nine states since being established in 2006.

**Summer of Service (SOS).** In cooperation with the International Mission Board of the Southern Baptist Convention, teams of California Baptist University students serve internationally for approximately eight weeks during the summer months. Ministry focus varies depending on the outreach strategy of the selected area(s).

## 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 the Student Services Office.

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 the Student Services Office for assistance.

## Wellness Center

The California Baptist University Wellness Center 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.

The Health Center, located at 3510 Adams Street, is typically open while classes are in session, Monday – Friday from 8:30 am – 5:30 p.m. 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 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 primary mission of the Counseling Center is to provide professionally competent and personally compassionate care for Students, Faculty and staff. The goal of the Counseling Center is to provide services with a Christ-centered approach and biblically-focused world view.

Counseling is provided by well-trained Marriage Family Therapist interns and trainees. All counseling is provided under the professional supervision of fully licensed therapists. Issues that can be addressed with a counselor include, but are not limited to:

Addiction/Substance Abuse	Family Conflict
Anger	Grief
Anxiety	Identity/Self-Image
Depression	Life Transitions
Divorce	Relational

Counseling is completely 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 Students, Faculty, staff, and immediate family members (dependents, parent, sibling, or spouse). Typically, appointments will be scheduled within one (1) week of initial contact. Walk-in appointments are available for urgent situations.



2015 | 2016

# California Baptist University

## Undergraduate Admissions

UNDERGRADUATE CATALOG

**Mr. Allen Johnson**  
*Dean of Admissions*

**Ms. Samantha Bowman**  
*Director of Undergraduate Admissions*  
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# UNDERGRADUATE ADMISSIONS

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**Mr. Allen Johnson**

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*Director of Undergraduate Admissions*

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## Admission to the Traditional Program

All students are encouraged to apply for admission to California Baptist University, provided they have an eagerness to learn and a desire to pursue higher education in a Christian environment. Students may apply through the California Baptist University website at [www.calbaptist.edu](http://www.calbaptist.edu).

## When to Apply

The university implements a rolling admissions practice. A high school senior or a college transfer student may apply anytime 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.
- Two letters of recommendation, one which is academic in nature and the other based on character. The academic reference must be completed by a teacher, counselor, or someone familiar with your academic progress. The character reference can be from a pastor, employer, mentor, coach, or friend. (References are not accepted from relatives or current CBU faculty or staff).
- The Scholastic Aptitude Test I (SAT I) or American College Test (ACT). (If you have more than 24 semester units from an accredited college, this requirement does not apply.)

When an applicant has submitted all the required documents, an evaluation will take place and a decision rendered.

## ADMISSION GUIDELINES

### First-time Freshmen

Students will be evaluated on High School curriculum, academic achievement and SAT I (Critical Reading and Math only) or ACT scores.

The college preparatory curriculum should include:

1. Recommended Academic Program:
  - Four years of college preparatory English
  - Three years of mathematics (Algebra, Geometry, and Algebra II)
  - Two years of history (World and U.S.)
  - One semester each of United States government and economics
  - Two years of the same foreign language
  - Two years of laboratory science (Life and Physical)
2. Suggested Courses:
  - Fourth year of mathematics
  - Third year of the same foreign language
  - Third year of laboratory science
  - Religion
  - Psychology or sociology
  - Fine and performing arts



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## Admissions Status

Students will be admitted with one of the following academic standings:

### Honors

Honors at entrance may be granted to those applicants with a GPA of 3.3 or above and a minimum composite score of 1020 (Evidence-Based Reading and Math) on the SAT I or 21 on the ACT. Students admitted with Honors may take up to 18 units in their first semester.

### Standard

Standard entrance may be granted to those applicants with a minimum GPA of 2.5 and a composite score of 920 (Evidence-Based Reading and Math) on the SAT I or 19 on the ACT. Students admitted under Standard status may take up to 15 units their first semester.

The Admissions and Retention 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.

### 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 Retention Committee. Students admitted on Provisional status may enroll in 12 units their first semester. Students 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 Retention 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.

## Advanced Standing Freshmen

Students who have completed less than 24 units of transferable college credit must complete the Admission Requirements for First-time Freshmen. Status will be evaluated on high school transcripts, SAT I or ACT scores, and college transcripts. Students will be admitted with one of the following academic standings:

### Honors

Honors at entrance may be granted to those applicants with a GPA of 3.3 or above and a minimum composite score of 1020 (Evidence-Based Reading and Math) on the SAT I or 21 on the ACT. Students admitted with Honors may take up to 18 units in their first semester.

### Standard

Standard entrance may be granted to those applicants with a minimum GPA of 2.5 and a composite score of 920 (Evidence-Based Reading and Math) on the SAT I or 19 on the ACT. Students admitted under Standard status may take up to 15 units their first semester.

The Admissions and Retention 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.

### 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 Retention Committee. Students admitted on Provisional status may enroll in 12 units their first semester. Students 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 Retention 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.

## **Undergraduate Admissions**

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### **Transfer Students**

Students who have completed 24 or more units from a regionally accredited college or university 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. Once evaluated a student may be admitted in the following categories:

#### **Honors**

Honors at entrance may be granted to those applicants with a minimum cumulative GPA of 3.3 for all transferable college work. Students admitted with Honors may enroll in up to 18 units their first semester.

#### **Standard**

Standard entrance may be granted to those applicants with a minimum cumulative GPA of 2.0 for all college work. Students admitted under Standard status may enroll in up to 15 units their first semester.

The Admissions and Retention 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.

#### **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 Retention Committee. Students admitted on Provisional status may enroll in up to 12 units their first semester. Students 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. 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 Retention 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.

### **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 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. For more information contact the Office of Undergraduate Admissions at 877.228.8866.

### **Readmit**

Students who have attended CBU 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 CBU. Additional documents may be required, as well as an interview with the director of the program which the student is seeking to readmit to.

Students whose applications 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. For more information contact the Admissions Office.

### **Conditional Accepted Student**

A conditional accepted student is defined as a traditional undergraduate student who is working toward a degree at California Baptist University. Students offered a Conditional Acceptance may be eligible to enroll in no more than nine (9) units but not less than six (6) units for one semester. This status applies to the first semester at the University only. Upon successful completion of the "conditional" semester the student may continue enrollment as a traditional student. Successful completion is defined as a minimum GPA of 2.0 with no D's or F's in any of the classes taken as a conditional student.

**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 6 semester units. To continue beyond 6 units the student must meet admission requirements for Standard status.

**Application Procedure**

To be considered for admission 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 traditional 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 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.

**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 more information on Advanced Placement please see the Academic Information section of the catalog.

**College Level Examination Program (CLEP) and DSST**

Students wishing to receive credit for CLEP or DANTES Subject Standardized Test (DSST) examinations must provide to the Registrar an official transcript issued by the College Board or by DSST. Additional information about acceptable CLEP and DSST exams and scores is available in the Academic Information section of the Catalog.

**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.



2015 | 2016

# California Baptist University

## Global Initiatives

UNDERGRADUATE CATALOG

**Dr. Larry Linamen**  
*Vice President for Global Initiatives*

**Ms. Sandy Bachar**  
*Administrative Assistant*  
Phone 951.552.8758  
FAX 951.343.4728



# GLOBAL INITIATIVES

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**Mr. Bryan Davis**

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The Division of Global Initiatives was established to promote global engagement across all sectors of the university and help diversify the student body such that CBU becomes less dependent upon its domestic constituency; to initiate and increase preparation for an educational environment extending beyond national boundaries and driven by the demand of a global marketplace. The division encompasses the International Admissions Office, the Intensive English Program (IEP), and the Department of International Student Services.

## 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

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. All international student athletes are subject to additional criteria as outlined in CBU's International Student Athlete I-20 Policy.

## 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 copies of all academic records from secondary schools and colleges, showing dates of attendance, courses taken, and grades received. These records must be provided along with a certified English Translation (for students applying from non-English speaking countries).
- Two (2) letters of recommendation completed by school officials where the applicant most recently attended
- The Sponsor's Commitment of Financial Support form, provided by California Baptist University, accompanied by a certified bank statement or affidavit of support indicating sufficient funds for study. Financial support must guarantee and certify funds equal to a minimum of one year of the student's academic study at CBU. Note: International students must pay semester charges in full before registration can be completed.

## Proof of English Proficiency

Students applying from non-English speaking countries must demonstrate English proficiency in order to ensure a successful experience at California Baptist University. English proficiency may be demonstrated in one of the following five ways:

1. A minimum score of 71 on the Internet Based (IBT) Test of English as a Foreign Language (TOEFL) or 527 on the Paper Based Test (PBT)
2. A minimum score of 430 on the verbal section of the Scholastic Aptitude Test (SAT)
3. A minimum score of 16 on the English section of the American College Testing Program (ACT)
4. A minimum score of 5.5 on the IELTS
5. Satisfactory completion (2.0 on a 4.0 scale) of thirty or more transferable semester college units, including the equivalent of English 113 (English Composition), in a college or university where English is the primary language of instruction

Students who do not meet one of the above English proficiency standards will receive joint admission to the traditional undergraduate and Intensive English Program (IEP).

## 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. Students admitted under Joint status may take up to 12 units their first semester.

### 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 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 IEP course progression and ESL courses can be located in the Academic Programs section of this catalog.

## INTERNATIONAL STUDENT SERVICES

The Department 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.





2015 | 2016

# California Baptist University

## Financial Aid

UNDERGRADUATE CATALOG

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*Director of Financial Aid*  
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# FINANCIAL AID

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## **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 that students understand that they and their parents bear the principal responsibility for meeting educational costs. A federal methodology calculation is used in determining eligibility for financial aid, which is available to students through federal, state, and institutional programs.

There are various scholarships, grants, work programs and loans available for students who are eligible for financial assistance. These forms of financial assistance are grouped into the following four categories: Federal programs, state programs, institutional programs, and private scholarships. Specific information on each of these sources of financial aid is available in the Financial Aid Office.

## **Applying for Financial Aid**

Students who apply for federal, state, institutional, or private aid must complete a Free Application for Federal Student Aid (FAFSA) each year. This form is available online at [www.fafsa.gov](http://www.fafsa.gov). The Renewal FAFSA can also be done on the internet at [www.fafsa.gov](http://www.fafsa.gov). All applicants are required to create an FSA ID. A FSA ID gives students access to Federal Student Aid's online systems and can serve as your 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 has listed California Baptist University (school code 001125) on the FAFSA. Generally, the amount of financial aid awarded 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 awarded 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 transcripts from parents and students may be required. This is accompanied by a verification worksheet. Verification is processed electronically through the University's *Verify My FAFSA* system on InsideCBU.
- Any additional documents required by federal or state agencies.
- All requested documents must be submitted 14 days prior to the close of the term.

To qualify for a financial aid award, undergraduate students must be enrolled in 6 units of degree applicable coursework for part-time status, 9 units of degree applicable coursework for three-quarter time status, and 12 units of degree applicable coursework for full-time status. If 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.

Applications for the Dream Act 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 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 Award Letter

The Financial Aid Award Letter 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, or unless the Financial Aid Office is notified of the student's decision to decline the aid. Acceptance of loan proceeds must be confirmed as outlined in the award letter 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 award. Changes due to 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 upon request of an appointment.

### Disbursement

Generally, a student's total financial aid award 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. Stafford loan funds, subsidized and unsubsidized, and Parent PLUS loan disbursements are sent directly to the University each semester via Electronic Funds Transfer (EFT).

Seniors attending one semester during their last academic year (graduating early) or attending an additional semester (senior year totaling 3 semesters) are required by federal regulations to have their Financial Aid prorated based on federally directed 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, Stafford 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 Enrollment Services. 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.

Ceasing to attend class without proper notification to the Office of Enrollment Services or the Office of the University Registrar will result in 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.

All students who borrow federal student loans and cease attendance at the University are required to complete an exit interview at [www.studentloans.gov](http://www.studentloans.gov).

### Satisfactory Academic Progress - Traditional Undergraduate Students

Federal regulations require California Baptist University to establish, publish, and apply standards of Satisfactory Academic Progress 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 after the fall semester to insure 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 once checked annually. The student is no longer eligible to receive financial aid. The student has the right to appeal the suspension. Aid is terminated until student has submitted written appeal.

#### Financial Aid Probation

Status assigned to a student who received a Financial Aid Suspension but successfully appealed the suspension and regains financial aid eligibility for an additional term. They must complete their probationary term successfully or they will be terminated.

## Financial Aid

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### 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 fall semester. 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 term GPA to continue making satisfactory progress toward a cumulative 2.0 GPA. 2.0 term GPA is the minimum standard measurement for continuing progress. The student will need to earn higher than 2.0 term GPA(s) to correct deficiency.

Students on Financial Aid Probation failing to earn the minimum 2.0 term 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 fall term annually.

Grades of F, W (Withdraw), I (Incomplete), and SP (Satisfactory Progress) 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) of Satisfactory Academic Progress, but will not figure into 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

Students are expected to complete their degree within a reasonable time frame. Programs of study, must be no longer than 150 percent of published length of educational program. The measurement begins from the date of the initial enrollment in the student's program.

### Unusual Enrollment History

The 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. Students flagged with UEH indicate whether the student has an unusual enrollment history with regard 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 the Department of Education is concerned about is one 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.

### Readmitting Students

A readmit student that does not have the minimum GPA for their program will receive one (1) semester of aid probation to bring their GPA up to the required level before their aid is terminated.

### Withdrawals and Cancellations

Withdrawal from the semester after the first day of classes during a semester counts as a semester attended when determining overall maximum unit completion and minimum unit completion, unless the student does not attend any classes for the given semester and receives a 100% refund of all fees. 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.

### Repeated Courses

Financial aid for any class will be given only twice for the same class. The cost of the third attempt will not be covered by financial aid or be counted as part of the half-time minimum aid eligibility requirement.

## Concurrent Enrollment

Students attending California Baptist University and another college or university concurrently are eligible for aid based on the coursework and GPA acquired at CBU only. In addition, satisfactory academic progress will be determined exclusively by California Baptist University coursework and GPA.

## 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, students will go into repayment after six months or less than half time enrollment. Students must complete their exit counseling at [www.studentloans.gov](http://www.studentloans.gov) upon ceasing attendance between terms.

## Appeal Process

Before filing an appeal for reinstatement of financial aid, it is important that students seek assistance from an Academic Advisor in order 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, make sure that a full explanation is provided, 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 an Enrollment Advisor 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:

1. Continuing enrollment at CBU without any financial assistance
2. Continuing enrollment at CBU with the assistance of private loans. The Financial Aid Office can provide the student with information on these loans.
3. Taking a leave of absence from CBU 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 s/he has completed the required units and demonstrated the ability to continue at CBU without incurring any additional deficiencies. The Financial Aid Office recommends that the student speak with Enrollment Advising to ensure that any classes taken elsewhere will count towards the student's area of study.

## Institutional Financial Aid Programs for Traditional Undergraduate Students

### Common Requirements for all Institutional Aid

1. Students applying for institutional aid must apply for other forms of grant-based aid available through federal and state programs.
2. Institutional aid is applied to tuition, fees, room, and board charges only. Institutional aid is considered grants from California Baptist University and is not to exceed the total cost of tuition, fees and on-campus room and board.
3. 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.
4. Students receiving institutional aid alongside outside funding may be eligible to receive up to \$500 in institutional book vouchers if the total aid exceeds direct charges. Waiver recipients are not eligible for book vouchers.
5. 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 to the enrollment status.
6. Unmarried students under 21 years of age who receive \$8,500 or more institutional scholarships are required to reside in campus housing or with their parents/legal guardians. This policy does not apply to recipients of the Church-Related Vocation Scholarship.
7. 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.
8. 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.
9. 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.
10. Students concurrently enrolled in other institutions are eligible for California Baptist University institutional aid based only on the units being taken at CBU.
11. General Institutional aid is awarded for the Fall and Spring Semesters only, unless otherwise indicated.
12. 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.

## Financial Aid

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### Academic Scholarships

#### California Baptist University Grant

##### Description

- The CBU Grant program is a merit and need-based grant offered to traditional undergraduate students.

##### Eligibility/Award

- Students are eligible to receive \$2,000 per semester if financial need is determined and a cumulative GPA is a 2.0 or higher.
- Students must demonstrate need (as determined by the results of the FAFSA) to be eligible. This grant is available to new and continuing undergraduate traditional students. The grant is renewable dependent upon meeting eligibility requirements and availability of funds.

##### Procedure

- Potential recipients should complete the FAFSA and turn in all requested financial aid paperwork to the Financial Aid Office.

#### 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 and students who transfer from a regionally accredited institution.
- The recipient must have earned a cumulative high school grade point average (GPA) of at least 3.3 on a 4.0 scale in a college preparatory program and a minimum SAT score of 1020 or ACT composite score of 21.
- Students entering with more than 30 units of transfer work from other colleges or universities must enter with a cumulative college GPA of 3.3.
- The scholarship is renewable annually provided a minimum 3.0 cumulative 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.
- Should the cumulative GPA drop below this requirement, the recipient will be notified at the beginning of the spring semester that they must restore the GPA to the minimum level by the end of the current academic year. Students may enroll in summer sessions in order to restore the required GPA. It is the responsibility of the student to provide the Financial Aid Office a copy of their summer grades in order to reinstate eligibility for the subsequent year.

##### Award

- A recipient may receive up to \$2,750 per semester for the Fall and Spring semesters.
- Scholarships will be awarded initially upon approval from the Enrollment Services Office and are renewable annually as long as eligibility is maintained.

#### Presidential Scholarship

##### Eligibility

- The Presidential Scholarship is a merit-based scholarship designed to attract and retain students of exceptional academic ability. The scholarship is available only to entering freshmen and students who transfer from a regionally accredited institution.
- The recipient must have earned a cumulative high school grade point average (GPA) of at least 3.75 on a 4.0 scale in a college preparatory program and a minimum SAT score of 1100 or ACT composite score of 24.
- Students entering with less than 30 units of transfer work from other colleges or universities must meet the high school GPA requirement.
- Students entering with 30 or more units of transfer credit from other colleges or universities must enter with a cumulative college GPA of 3.75.
- The scholarship is renewable annually provided a minimum 3.2 cumulative 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.
- Should the cumulative GPA drop below this requirement, the recipient will be notified at the beginning of the spring semester that they must restore the GPA to the minimum level by the end of the current academic year. Students may enroll in summer sessions in order to restore the required GPA. It is the responsibility of the student to provide the Financial Aid Office a copy of their summer grades in order to reinstate eligibility for the subsequent year.
- Should the student lose eligibility for the Presidential Scholarship, but still maintain eligibility for the Dean's Scholarship (see description), the student may change academic scholarship status. However, once Presidential Scholarship status is lost, it cannot be restored.

##### Award

- A recipient may receive up to \$3,250 per semester for the Fall and Spring semesters.
- Scholarships will be awarded initially upon approval from the Enrollment Services Office and are renewable annually as long as eligibility is maintained.

## Trustee Scholarship

### Eligibility

- The Trustee Scholarship is a merit-based scholarship designed to attract and retain students of exceptional academic ability. The scholarship is available only to entering freshmen and students who transfer from a regionally accredited institution.
- The recipient must have earned a cumulative high school grade point average (GPA) of 4.0 and above on a 4.0 scale, in a college preparatory program, and a minimum SAT score of 1200 or ACT composite score of 25.
- Students entering with less than 30 units of transfer work from other colleges or universities must meet the high school GPA requirement.
- Students entering with 30 or more units of transfer credit from other colleges or universities must enter with a cumulative college GPA of 4.0.
- The scholarship is renewable annually provided a minimum 3.5 cumulative 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.
- Should the cumulative GPA drop below this requirement, the recipient will be notified at the beginning of the spring semester that they must restore the GPA to the minimum level by the end of the current academic year. Students may enroll in summer sessions in order to restore the required GPA. It is the responsibility of the student to provide the Financial Aid Office a copy of their summer grades in order to reinstate eligibility for the subsequent year.
- Should the student lose eligibility for the Trustee Scholarship, but still maintain eligibility for the Presidential's Scholarship (see description), the student may change academic scholarship status. However, once the Trustee Scholarship status is lost, it cannot be restored.

### 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 Enrollment Services Office and are renewable annually as long as eligibility is maintained.

## Participant Scholarships

### 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, The Pacific West 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.

### Procedure

- Potential recipients should apply directly with the Athletic Department. If the student is offered a scholarship, they will receive a letter from the Financial Aid Office.

## Financial Aid

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### 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.
- Student must complete a FAFSA.

#### 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 eligible to receive VA Yellow Ribbon.
- BAT scholarship recipients are not eligible to receive other institutional aid.

#### Procedure

- Applicants should apply directly with the School of Christian Ministries.

### College of Health Science Scholarship

#### Description

- The College of Health Science Scholarships are designed to assist students who plan to major in Communication Disorders, Clinical Health Science, Health Education, Health Science, Healthcare Administration, Kinesiology and Pre-Physical Therapy.
- Current Scholarships Available: College of Health Science Scholarship, Clinical Health Science Scholarship, Department of Public Health Sciences Scholarship

#### Eligibility

- Recipients are selected by the College of Allied Health in the spring and summer prior to the award year.
- Student must be enrolled in a minimum of 15 units per semester, including a minimum of 2 courses per academic year that are listed as a requirement within the respective College of Allied Health major.

#### Award

- Recipients may receive up to \$2,000 per year divided evenly for the Fall and Spring semesters. Scholarships are renewable each year, but satisfactory academic progress must be maintained to qualify for scholarship renewal.

#### Procedure

- Potential recipients should apply directly with the College of Allied Health.

### Construction Management Scholarship

#### Description

- The Construction Management Scholarship is designed to attract and assist students who plan to major in Construction Management.

#### Eligibility

- Recipients are selected by the School Business in the spring and summer prior to the award year and must be a declared Construction Management Major. Students must also be enrolled in a minimum of 15 units per semester. Their enrollment must consist of a minimum of two courses per academic year that are listed as required courses for the Construction Management major in the University catalog.

#### Award

- Recipients may receive up to \$2,500 per semester for the Fall and Spring semesters. The scholarships are typically renewable based on academic standing.

#### Procedure

- Potential recipients should apply directly with the School of Engineering.

### 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 School 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 CBU based on transcripts, and SAT or ACT scores.

#### Award

- Recipients may receive up to \$2,500 per semester for the Fall and Spring semesters. The scholarships are typically renewable provided students take and achieve a B- or better in all courses required for engineering each semester.

#### Procedure

- Potential recipients should apply directly with the School of Engineering.



## Graphic Design Scholarship

### Description

- The Graphic Design Scholarship is designed for students who are serious about pursuing art.

### 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

- Recipients may receive up to \$2,000 per semester for the Fall and Spring semesters.

### 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 students. 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 not complying with departmental procedures, or not making satisfactory progress toward their reviewed by the School of Music faculty. This review can occur at any point during the semester

### 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.
- Applicants must complete a FAFSA to receive the Room and Board Scholarship.

### Award

- Recipients will be awarded the amount of a meal plan and semi-private room. When applicable, the total award package, including other federal, state, and institutional aid, may be adjusted to avoid exceeding direct cost.

### Procedure

- Interested student's should inquire with the office of the Assistant Professor for Military Science to the Office of the Provost.

## Financial Aid

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### 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 Communication Arts Department for participation in the major play production (dramatic or technical) or drama ministry teams.

#### Award

- Recipients may receive up to \$2,000 per semester for the Fall and Spring semesters.

#### Procedure

- Potential recipients should apply directly with the Communication Arts Department.

### Visual Arts Scholarship

#### Description

- The Art Scholarship is designed for students who are serious about pursuing art.

#### 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.

### Other Scholarships

#### 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 who have earned less than sixty (60) units may receive up to \$750 per semester for the Fall and Spring semesters. Recipients who have earned sixty (60) or more units may receive up to \$1,000 per semester for the Fall and Spring semesters.

##### Procedure

- Applications are available in the Financial Aid Office and the school of Christian Ministries.

### International Mission Board Scholarship

#### Description

- The International Mission Board Scholarship assists the dependent children of missionary families supported by the Southern Baptist Convention International Mission Board.

#### Eligibility

- The recipient must be the dependent child (as determined by the FAFSA) of a missionary family supported by the Southern Baptist Convention International Mission Board.
- The recipient must be a traditional undergraduate student.
- Recipients must complete the FAFSA each academic year.
- The recipient must maintain Satisfactory Academic Progress.
- Exceptions to these requirements may be made on a case-by-case basis and must be approved by the Director of Financial Aid and/or the Director of Financial Services.

#### Award

- Recipients will be awarded the amount of full tuition, the general fee, and the student services fee. All other fees, including room and board charges, are the responsibility of the student.
- A recipient is not eligible for any additional institutional aid.
- The scholarship will cover degree applicable courses for the first bachelor's degree.

- If the recipient receives any federal or private scholarships, the amount of the IMBS will be reduced so that only tuition and aforementioned fees are covered.
- If the recipient is a Cal Grant recipient, he or she can receive the scholarship up to direct cost. Direct cost can include room and board. The scholarship may include up to a \$500 book voucher.
- International Missions Board Scholarships are awarded during all academic terms: Fall, Spring, and Summer.

**Procedure**

- Potential recipients should inquire with the Undergraduate Enrollment Services 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 Enrollment Services 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 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 on a full-time basis.
- Online and Professional students are not eligible.
- Immediate family members
- 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 Enrollment Services Office.

**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 CBU and the Veteran Administration to award a limited number of 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**

- Student must qualify for the Post-9/11 GI Bill through Veteran's Administration 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.
- A limited number of scholarships are available and are awarded on a first-come, first-served basis as required by the Yellow Ribbon Program agreement.

**Award**

- Recipients may receive varying amounts to be determined by semester enrollment, tuition and fee charges.
- 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.

**Procedure**

- Student's who qualify for the Post-9/11 GI Bill and the Yellow Ribbon Program as determined by their VA Certificate of Eligibility should apply directly with the Office of the University Registrar.

### Federal Financial Aid Programs for Undergraduate Students

#### Common Requirements for All Federal Programs

1. 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.
2. All federal aid recipients must be a U.S. citizen, permanent resident or eligible non-citizen.
3. All federal aid recipients must not be in default of a student loan and not owe a refund of any state or federal educational grant.
4. All federal aid recipients must maintain satisfactory academic progress according to institutional standards as stated in this catalog.
5. Students concurrently enrolled at other institutions will only be eligible to receive financial aid for registered units at California Baptist University.

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 by the U. S. Department of Education.

##### 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 remaining 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 range from \$300 to \$2,887 per semester depending on eligibility.

#### 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 \$1000 per year, divided equally among semesters of enrollment, not to exceed \$500 in any one semester.
- The semester award amount will be prorated for less than full-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 help 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 will be adjusted accordingly.

##### 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 Perkins Loan

### Description

- The Federal Perkins Loan is a low-interest, need-based, federal campus-based loan available to students who demonstrate high financial need (as determined by the results of the FAFSA). No interest accrues while the student is enrolled in school at least half-time and repayment begins nine months after graduating, leaving school, or dropping below half-time enrollment.

### Eligibility

- Eligibility is determined by a student's financial need. Priority will be given to students with exceptional financial need.
- All recipients must attend an entrance interview with the Financial Aid Office before any funds will be disbursed. Upon withdrawal from school or graduation, all recipients must also attend an exit interview.
- All recipients must complete a promissory note and additional forms as required by the institution before any funds will be disbursed.

### Award

- Generally, awards for undergraduate students may be up to \$2,000 per semester for Fall and Spring.
- Summer awards may be made based on availability of funds.
- Availability is limited and Perkins loans are awarded on a first-come, first-served basis to the most needy students as mandated by the federal Department of Education.

### Procedure

- Potential recipients should apply directly through the Financial Aid Office.

## Federal Stafford Loan

### Description

- The Federal Stafford 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 Federal Department of Education through the Direct Loan Program. Upon repayment, loan payments are made directly to the Department of Education on a monthly basis. Interest rates for Stafford loans can be determined using the list below. Interest rates subject to change upon congressional and presidential action.

**Federal Subsidized Stafford 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

Subsidized loans first disbursed between July 1, 2012 and June 30, 2013 are fixed at 3.4%.

Subsidized loans first disbursed between July 1, 2013 and June 30, 2014 are fixed at 6.8%.

Subsidized loans first disbursed between July 1, 2014 and June 30, 2015 are fixed at 4.66%.

Subsidized loans first disbursed between July 1, 2015 and June 30, 2016 are fixed at 4.29%.

**Federal Unsubsidized Stafford 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 first disbursed between July 1, 2015 and June 30, 2016 are fixed at 4.29%.

### Eligibility

- Students are allowed subsidized loans for 150% of the published timeframe for the program of study, if otherwise eligible.
- Eligibility is determined by a student's financial need and grade level.
- First-time borrowers and transfer students must complete an entrance interview before any funds will be disbursed. Upon withdrawal from the university or graduation, all recipients must also complete an exit interview.
- Funds will be disbursed via EFT (Electronic Funds Transfer).

### Award

- For the first year of undergraduate study, a student may be eligible to borrow up to \$5,500. A student may be eligible for \$6,500 as a sophomore or \$7,500 as a junior and senior.

## ANNUAL AND AGGREGATE LOAN LIMITS

### Federal Stafford Loans

Academic Year	Dependent Students		Independent Students	
	Base Stafford Amount	Additional Unsubsidized Stafford	Base Stafford Amount	Additional Unsubsidized Stafford
<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

## Financial Aid

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### Federal Parent Loan for Undergraduate Students (PLUS)

#### Description

- Federal PLUS loans are available to credit worthy parent borrowers. Loans are made by the Department of Education. Repayment of PLUS loans begin within 60 days after final disbursement is made to the school unless the borrower requests a loan forbearance. Federal Direct PLUS loans carry a fixed interest rate of 6.84%. All PLUS loans first disbursed prior to July 1, 2006, remain at a variable interest rate that is based on a 91-day T-bill, not to exceed 9%.

#### 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 student's estimated 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 Stafford loans may also be available for dependent students whose parents did not qualify for a PLUS loan. A PLUS application must have been denied by the Department of Education, under Direct Stafford Loan program, prior to a dependent student receiving an 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.
- All 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.
- All state aid recipients must maintain at least half-time enrollment in order 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.
- All state aid recipients must not be in default on a student loan and not owe a refund on any state or federal educational grant.
- All 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 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.
- Amounts are determined annually by the California Student Aid Commission.

## **Private Financial Aid Programs**

Complete information regarding scholarships listed and other private donor scholarships that are available to current California Baptist University students may be obtained [https://insidecbu.calbaptist.edu/ICS/Financial\\_Aid](https://insidecbu.calbaptist.edu/ICS/Financial_Aid).





2015 | 2016

# California Baptist University

## Student Accounts

UNDERGRADUATE CATALOG

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# STUDENT ACCOUNTS

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The cost of an education at California Baptist University is among the lowest to be found in accredited, private senior institutions. This is made possible with support from the Cooperative Program of the California Southern Baptist Convention and other gifts and grants.

## Student Charges in U.S. Dollars

### Summary of Direct Costs for a Traditional Undergraduate Student

Full-time Tuition (13-18 units)	\$14,287
Mandatory Fees	905
Room (shared occupancy)	2,555
Board (225 meals, 250 dining dollars)	2,215
Per Semester	19,962
Per Year	39,924

### Tuition

#### Traditional Student Tuition

Fall and Spring Semesters	
Tuition Per Semester (13 - 18 units)	\$14,287
Tuition Per Unit (below 13 units or above 18 units)	1,099
Summer Semester	
Tuition Per Unit (traditional students only)	529
Audit Tuition (per unit)	140
Continuing Education (per unit)	Market Rate
Professional Development (per unit)	Market Rate

#### Online and Professional Studies Student Tuition

Online and Professional Studies Course Tuition (per unit)	\$529
Nursing Tuition (per unit, RN to BSN only)	550
Traditional Course Tuition (per unit)	1,099
Prior Learning Portfolio Units (per unit)	165
Audit Tuition (per unit)	140
Continuing Education Tuition (per unit)	Market Rate
Professional Development Tuition (per unit)	Market Rate

#### Intensive English Program (IEP) Student Tuition

IEP Tuition Per Semester (12 units)	\$5,250
IEP Tuition Per Unit	437.50
Traditional and Online & Professional Studies Courses	Applicable tuition rate

Internship, CBU Study Abroad, and Credit by Exam Units are all charged at the applicable per unit tuition rate.

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)	\$665
Traditional Students (with 5 or less units)	175
General Fee - Online and Professional Studies (per semester)	
Online and Professional Studies (with 6 or more units)	355
Online and Professional Studies (with 5 or less units)	175
General Fee - Intensive English Program (fall/spring)	
IEP Students (with 6 or more units)	665
IEP Students (with 5 or less units)	175
Student Services Fee - Traditional and Intensive English Program (fall/spring)	
On-campus Students (with 6 units or more)	240
Off-campus Students (with 6 units or more)	220
International Students (in addition to student services fee; fall/spring)	300
Student Health Insurance (fall/spring)	
Traditional Student Health Insurance	770
International Student Health Insurance	770
Orientation (New Traditional and International students only)	
Fall Orientation	310
Spring Orientation	160

**Traditional Single Student Housing (per semester)**

Housing Reservation Fee	\$100
Shared Occupancy	2,555
Private Occupancy	3,830

**Board (Semester Meal Plans)**

The following plans are available only to commuters:	
Plan A (45 meals; 50 dining dollars)	\$495
Plan B (70 meals; 50 dining dollars)	740
Plan C (90 meals; 100 dining dollars)	985
On Campus Residents must select one of the following:	
Plan D (135 meals; 150 dining dollars)	\$1,475
Plan E (155 meals; 200 dining dollars)	1,680
Plan F (180 meals; 200 dining dollars)	1,870
Plan G (200 meals; 250 dining dollars)	2,050
Plan H (225 meals; 250 dining dollars)	2,215
Plan I (250 meals; 250 dining dollars)	2,380

## Student Accounts

### Academic Fees

Art Lab Fee (ART 203, ART 225)	\$115
Aviation Lab Fees (per course)	
AMG 111	500
FLT 117	12,350
FLT 120	11,900
FLT 219	6,800
FLT 312	8,300
FLT 313	10,750
FLT 316	8,000
FLT 418	4,100
FLT 422	10,200
FLT 140, 240, 340, 440	1,000
Capstone Reading Fee	250
Catalina Lab (SCI 120L, SCI 412L)	420
Clinical Practicum Fee - Allied Health (ALH 495, KIN 433)	50
Clinical Practicum Fee - Allied Health (CDS 495)	100
Current Events Course Fee (ICS 375)	35
Directed / Independent Study (per unit, in addition to tuition)	275
Exemption by Certification	100
Exemption by Exam Fee	250
Firearms Course Fee (CJS 120)	100
Kinesiology Lab Fee (KIN 212)	110
Laptop Program	
School of Music Laptop	2,950
School of Music Laptop: *Finance Option	3,600
*A \$900 laptop fee will be assessed for four (4) consecutive semesters.	
Music Private Instruction (per semester)	
1 lesson per week (1/2 hour)	340
2 lessons per week (1 hour)	680
Nursing Application Fee	50
Nursing Equipment Fee	80
Prior Learning Portfolio Reading Fee (per discipline)	120
Program Fees (per semester unless otherwise specified)	
Architecture (ARC 210, 212, 310, 312, 410, 412, 510, 512)	800
Computer Science Engineering	420
Construction Management	420
Engineering	1,220
Nursing	1,500
Nutrition and Food Science	
For Majors (per semester)	400
For Minors (per semester)	225
Pre-Engineering	420
Science Labs (per lab)	210
Subject Matter Competency Fees:	
CBU Student	110
Non-CBU Student	220
Testing Fee (BEH 385)	25
Uniform Fees (annual)	
University Choir and Orchestra Uniform Fee (MUS 090)	500
Male Chorale Uniform Fee (MUS 092)	500
Women's Choir Uniform Fee (MUS 091)	500
New Song Uniform Fee (MUS 094)	500
Concert Band Uniform Fee (MUS 097)	250

## Student Accounts

Semester Payment Plan Enrollment Fee	
Bank Payment or Credit Card (per semester)	\$35
Study Abroad Processing Fee (Non-CBU programs)	280
Financial Clearance Fee	200
Late Payment Fee	30
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

Incomplete Fee (per course)	\$45
Graduation Application Fee	175
Late Graduation Application Fee	50
Re-application for Graduation Fee	50
Duplicate Diploma Fee	50
Transcript Fee (per transcript)	10
Transcript Processing Fees	
Rush (same day, per transcript)	35
Next Business Day (per transcript)	15
Faxed Unofficial Transcript (per fax)	15
Transcript Delivery / Mailing Fees	
Electronic Delivery (per transcript)	No Charge
Standard U.S. Mail (per transcript)	2
Standard International Mail (per transcript)	2.10
Express Mailing - Two Day U.S. (per transcript)	25
Express Mailing - Next Day U.S. (per transcript)	30
Express Mailing - International (per transcript)	60
Letter/Enrollment Verification Fee	3

## Admissions

Undergraduate	\$45
Re-admission	25
Testing Fee (ACT, Undergraduate)	35

# Policy for Student Accounts

Student charges are due and payable by the financial clearance deadline for all students. Students choosing to remain enrolled past the last day to drop with refund are obligated to cover all tuition, fees, room and board charges incurred in accordance with the refund policy for tuition, room and board charges. The University expects students to complete payment for the current semester before advancing to a future semester. If charges are not covered through the approved payment options a hold will be placed on the student account preventing release of diploma, transcripts and future registration until the balance is paid with verified funds. International, Special Admit and Professional Development Students are required to pay their balance in full each semester to avoid enrollment cancellation.

## Financial Clearance

Financial clearance is a Student Accounts Office status which indicates the student has agreed to the terms and conditions of the University's tuition and fee agreement and has also completed payment arrangements through an approved payment option to cover all tuition and fee charges for the semester. To maintain enrollment students must receive financial clearance from the Student Accounts office each semester in addition to meeting all academic and standard of conduct requirements.

## Financial Clearance Deadline Dates

All students should pay their balance by close of business day on the deadlines specified below to avoid a financial clearance fee charge and to confirm enrollment.

Semester	Deadline
Fall 2015	Wednesday, August 12, 2015
Spring 2016	Tuesday, January 5, 2016
Summer 2016	Monday, May 2, 2016
Fall 2016	Wednesday, August 10, 2016

## University Approved Payment Options

### Option 1 (Student Account Payment)

California Baptist University accepts the following forms of payment:

Online Payments - Bank payments and credit card payments are accepted online through InsideCBU at no additional charge. Visa, MasterCard, American Express, and Discover are accepted. Foreign Currency Payments processed by 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 student account payments must be received in the Student Accounts Office by the Financial Clearance Deadline.

### Option 2 (Automatic 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 automatically processed on the 5th or 20th of the month as selected at the time of enrollment. A \$35 per semester enrollment fee is required. Re-enrollment by the financial clearance deadline is required each semester. A financial clearance fee will apply if the first monthly payment transaction is not successful for any reason. 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 accepted by close of business day on the financial clearance deadline. Please see the financial aid section of this catalog for more information.

## Tuition and Fee Agreement

All students are required to read and review the Tuition and Fee Agreement and submit a signed copy to the Student Accounts Office. The agreement outlines the student's financial responsibility for covering all student account charges. Students are encouraged to read through the agreement and contact the Student Accounts Office with any questions before signing.

## Delinquent Accounts

Account balances not covered by the financial clearance deadline are consider delinquent. Interest is charged on all delinquent accounts at a rate of .833% per month or 10% per year computed monthly. 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. 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 or transcript of records, to dismiss the student, and to hold all records as the University deems necessary. 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. 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 Enrollment Services 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.

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 16 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 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 AND PROFESSIONAL STUDIES

### 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 (Degree Completion 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.

### **Policy for Student Organization Funds**

All student organization funds must be deposited with the University. The University disburses funds through the normal requisition process. All requisitions must have the signature of the organization’s advisor and the Vice President for Student Services. Proceeds from the sale of yearbook advertising and school newspaper advertising must be handled through the Student Accounts Office. No organization or club is permitted to solicit advertising or contributions without the written permission of the University administration.

The University reserves the right, with or without notice, to change fees and charges when necessary.



2015 | 2016

# California Baptist University

## Academic Information

### UNDERGRADUATE CATALOG

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**Ms. Lynette Risner**

*Administrative Assistant*

Phone 951.343.4213

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# ACADEMIC INFORMATION

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*Provost*

**Ms. Lynette Risner**

*Administrative Assistant*

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# Graduation Requirements

## Graduation Under a Particular Catalog

Students must adhere to graduation requirements listed in the catalog in effect at the time of matriculation. A student may choose to use any newer catalog, provided that the catalog used is no more than five years old. The catalog remains in effect for the student until degree completion or catalog expiration at the end of five years. All students who are re-admitted to programs at California Baptist University after officially or unofficially withdrawing, or any lapse of enrollment of more than one semester, will be placed under the catalog current at the time of re-admission, and will be subject to the degree requirements outlined in that catalog. The University is not responsible for providing courses or programs which have been discontinued.

Continuation under the catalog holds ONLY degree requirements; it does NOT hold policies, tuition and fees, and other information which may change annually. It is the responsibility of the student to attend to changes in policies, tuition and fees and other information. Updates regarding current policies, tuition and fees and other information is available from Academic Advising, Office of the University Registrar, Student Accounts, Student Services and other University offices.

## Scholastic Requirements

The completion of the requisite 124 semester units usually requires four years of 31 semester units per year. Of these, the freshman and sophomore years are spent primarily in general education or core curriculum work, comprised of courses in diverse subjects. During the junior and senior years, students may confine their work within comparatively narrow limits. The work for the entire four-year program consists of:

- General Education (competency requirements and breadth curriculum)
- Major and minor coursework
- Elective coursework
- Developmental coursework (if required)

## English Proficiency

All students must demonstrate their proficiency in writing standard English. They may do so by making at least a C- in (or being exempted by exam from) ENG 113 (Composition) and making at least a C- in ENG 123 (Intermediate Composition). No student is eligible to graduate unless the Office of the University Registrar's official records show the English proficiency requirements have been met.

## Work in Residence

Students are required to complete 36 units in residence at California Baptist University. Of the 39 upper-division units required for graduation, at least 30 upper-division units must be taken in residence.

## 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 for a major and professional experiences. In keeping with the ideal of a liberal arts education, the general education provides students with a broad exposure to the world of ideas and the arts in order to equip graduates to make substantial contributions within society. Courses are designed to be interdisciplinary and to emphasize a sense of global awareness needed to become leaders in the modern world. In addition, a decidedly Christian perspective is integrated into the requirements, and afford the student an opportunity to develop a Christian worldview.

## Majors and Minors

Though a minimum of 39 upper-division units are required for graduation, some majors require less than 39 upper-division units. The additional upper-division units may be taken in the student's major field or in other academic areas. A student may qualify for a minor by using these additional units to meet the requirements for a minor in the field of choice. 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 and nine (9) upper division units must be unique to the minor. Coursework for credit toward a major, minor, or emphasis 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 require a minimum grade of C (2.0) in the lower-division prerequisites also. Science courses with virtual labs may not meet major requirements.

## Upper Division

Upper division requirements for graduation can only be fulfilled with courses at the 300 and 400 (Junior and Senior) level. Of the 39 upper-division units required for graduation, at least 30 upper-division units must be taken in residence. Lower division units cannot be used to fulfill upper division requirements. Upper division requirements that are variances must be replaced by upper division electives. Students seeking substitutions and exemptions must submit an Academic Variance Form for approval.

## Double Major

Students who wish to complete two majors may do so if the following conditions are met:

1. Students must complete all of the required courses listed in the catalog for both majors
2. Not more than four (4) upper division courses may be common to both majors
3. Twenty-four (24) units must be unique to each major, of which at least eighteen (18) units must be upper division.

## Academic Information

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### Second Major

Students who have earned a baccalaureate degree or higher 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 admission to the University. The student must complete the regular graduation application process. Students completing a second major only will receive a certificate of completion. No certificate is granted for an additional minor.

### Additional Major or Minor

Students who have 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. Of an additional major or minor, a minimum of twenty-four (24) units must be unique to the major and at least eighteen (18) units must be upper division. Those who have walked in the graduation ceremony may not participate again in ceremonies upon completion of the additional major or minor. The student must complete the graduation re-application process. Students completing an additional major only 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 30 distinct units in a second area of major studies. Twenty-four of these units must be at the upper-division level. A minimum of 154 total units is required for graduation with a double or second degree. All general education (if different from first degree), prerequisites, supporting courses and departmental requirements for each major and degree, including residency must be completed.

### Electives

A number of electives may be taken from the regular university courses offered in each department. Students should plan carefully and complete their required work first. Failure to do this may cause students to take more than 124 semester units in order to graduate.

### Approval for Graduation

Students should review their InsideCBU degree guide on a regular basis to evaluate progress toward graduation. Student should submit an application for graduation upon successful completion of ninety (90) or more earned units. Students who have submitted an application for graduation will receive a degree evaluation from the Office of the University Registrar. Upon verification of eligibility to graduate a student may participate in ceremonies. Graduation Applications must be submitted by the application deadline or the student will be assessed a Late Graduation Application fee due at the time of application. Applications received after the degree posting date will be required to apply for the next eligible degree date. All candidates for graduation must be recommended by the faculty. Failure to complete degree requirements by the designated posting date may require re-application and an additional fee will be assessed.

### Graduation Honors

Honors are awarded according to the following cumulative grade point average: Cum Laude, 3.50; Magna Cum Laude, 3.70; Summa Cum Laude, 3.90. Honors announced at the graduation ceremony represent the cumulative grade point average at the completion of the Spring semester. Degrees and honors awarded in the ceremony are conditional upon completion of all course requirements in accordance with university policies. Post-baccalaureate students (Graduate and Second Major only) are not eligible for graduation honors.

### Graduation Check List

- 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 in residence at CBU, at least 30 of which must be upper division (300 level and 400 level course)
- 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 all coursework for minor or concentration, if applicable
- 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

### 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.

# Academic Policies

## Student Placement

California Baptist University requires all new students to take placement exams in English. Based on the results of the placement exam, students may be required to take remedial coursework in reading and/or writing.

## Transfer Restrictions

A maximum of 100 semester units may be accepted in transfer toward fulfilling degree requirements. Within these 100 units, no more than 30 upper division units may be transferred; no more than 70 units may be transferred from a community college. A maximum of 30 semester units is allowable from examinations (AP, CLEP, DANTES, IB). A maximum of 18 units may be accepted in transfer at the lower division level for college transcribed completion of a Basic Peace Officer Standards Training (POST) certificate.

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. AP scores provided below are subject to change. For the most current AP score information contact the Office of the University Registrar. More information about the AP Program is available on the College Board web site at [www.apcentral.collegeboard.com](http://www.apcentral.collegeboard.com).

Advanced Placement Exam	Granting Score	Units Awarded	California Baptist University Requirement
Art, History	3	6	ART 241 & 242
Art, Studio: Drawing	3	3	ART 204
Art, Studio: 2-D Drawing	3	3	Visual Art Elective
Art, Studio: 3-D Drawing	3	3	Visual Art Elective
Biology	3	4	BIO 143 & 143L
Chemistry	3	4	CHE 115
Chinese, Language and Culture	3	6	CHI 115 & 125
Computer Science A	3	3	CIS 265
English, Language & Composition	3	3	ENG 113
English, Literature & Composition	3	3	ENG 201
Environmental Science	3	3	Environmental Science Elective(non-lab)
French Language & Culture	3	6	FRE 115 & 125
French Language & Culture	4	6	FRE 125 & 215 (FRE 115 exemption)
French Language & Culture	5	6	FRE 215 & 225 (FRE 115 & 125 exemption)
German Language & Culture	3	6	Foreign Language I & Foreign Language II
Government & Politics, Comparative	3	3	POL 255
Government & Politics, US	3	3	POL 213
History, European	3	3	History Elective
History, US	3	6	HIS 213 & 223
Human Geography	3	3	Elective
Italian, Language and Culture	3	6	Foreign Language I & Foreign Language I
Japanese, Language and Culture	3	6	Foreign Language I & Foreign Language I
Latin, Vergil	3	6	LAT 115 & LAT 125
Macroeconomics	3	3	BUS 218
Mathematics, Calculus AB	3	4	MAT 245 (MAT 115 exemption)
Mathematics, Calculus BC	3	4	MAT 255 (MAT 115 exemption)
Microeconomics	3	3	BUS 217
Music Theory	3	3	MUS 114
Physics 1	3	4	PHY 114
Physics 2	3	4	PHY 124
Physics C: Electricity & Magnetism	3	4	Physics Lab Science
Physics C: Electricity & Magnetism	4	4	PHY 203
Physics C: Mechanics	3	4	Physics Lab Science
Physics C: Mechanics	4	4	PHY 201
Psychology	3	3	PSY 213
Spanish, Language & Culture	3	6	SPA 115 & 125
Spanish, Language & Culture	4	6	SPA 125 & 213 (SPA 115 exemption)
Spanish, Language & Culture	5	6	SPA 213 & 223 (SPA 115 & 125 exemption)
Spanish, Literature	3	3	Elective
Statistics	3	3	STA 144 (MAT 115 exemption)
World History	3	3	History Elective

## Academic Information

### College Level Examination Program (CLEP) and DSST

Students wishing to receive credit for CLEP or DANTES Single Subject Tests (DSST) examinations 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.

CLEP scores provided below are subject to change. For the most current CLEP score information contact the Office of the University Registrar. Check the CLEP web site at [www.collegeboard.com/clep](http://www.collegeboard.com/clep) for testing locations.

CLEP Examination	Granting Score	Units Awarded	California Baptist University Requirement
Accounting, Financial	50	3	ACC 250
American Government	50	3	POL 213
American Literature	50	6	ENG 233 & 243
Analyzing & Interpreting Literature	50	6	English Elective (not ENG 113 or 123)
Biology	50	6	BIO 143 (lecture only; non-lab) & Biology Elective
Business Law, Introductory (Not be taken by students who have received credit for BUS 358)	50	3	Elective
Calculus	50	3	MAT 245 (MAT 115 exemption)
Chemistry	50	3	Chemistry Elective (lecture only; non-lab)
College Algebra	50	3	Math Elective (MAT 115 exemption)
College Composition	50	3	ENG 113
College Composition Modular	50	3	ENG 113
College Mathematics	50	6	Math Competency
English Literature	50	6	ENG 213 & 223
French Language	50	6	FRE 115 & 125
French Language	59	6	FRE 215 & 225 (FRE 115 & 125 exemption)
German Language	50	6	Foreign Language I & Foreign Language II
German Language	60	6	Foreign Language I & Foreign Language II
History of the United States I	50	3	HIS 213
History of the United States II	50	3	HIS 223
Human Growth & Development (Not be taken by students who have received credit for PSY 120/320)	50	3	Behavioral Science Elective
Humanities	50	6	HUM 213 & 223
Info Systems & Computer Applications	50	3	CIS 265
Introduction to Educational Psychology (Not be taken by students who have received credit for EDU 302)	50	3	Elective
Macroeconomics, Principles of	50	3	BUS 218
Management, Principles of	50	3	Elective
Marketing, Principles of (Not be taken by students who have received credit for MKT 333)	50	3	Elective
Microeconomics, Principles of	50	3	BUS 217
Natural Sciences (Not be taken by students who have received credit for BIO 143)	50	6	Biology Elective (non-lab) & Physical Science Elective (non-lab)
Pre-Calculus	50	3	MAT 135 (MAT 115 exemption)
Psychology, Introductory	50	3	PSY 213
Social Sciences & History	50	6	History Elective & Behavioral Science Elective
Sociology, Introductory	50	3	SOC 213
Spanish Language	50	6	SPA 115 & 125
Spanish Language	63	6	SPA 213 & 223 (SPA 115 & 125 exemption)
Western Civilization I	50	3	History Elective
Western Civilization II	50	3	History Elective

### Credit for Prior Learning

Students through Online and Professional Studies may enroll for a one-unit portfolio development seminar. 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 can only be earned toward general elective credits and cannot be earned in a student's major.

## Enrollment at Other Institutions

All students who wish to take coursework at other institutions and wish to apply this work toward degree requirements at California Baptist University must receive prior approval. The purpose of this is to ensure that the coursework is transferable to California Baptist University, and to encourage student success by monitoring total academic loads. Students not receiving prior approval for enrollment at another institution may not be permitted to transfer those credits. Additional information and appropriate forms are available on the California Baptist University web site.

## Credit Hour

California Baptist University defines a credit hour as a minimum of 45 hours of engaged learning time over the course of a semester based on an hour of instructional time and two hours of engaged learning outside the classroom each week. 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, or in independent reading, research, or writing activities.

## Course Load

The standard academic load for undergraduate students is 12-18 units. The maximum course load is 18 units. A student may be approved to register for more than 18 units if the student has 1) a 3.0 cumulative GPA, 2) a minimum 3.0 session GPA in the preceding semester, 3) no outstanding incomplete course work, and 4) status as a Sophomore, Junior or Senior in good academic standing. Permission for overload is granted on a semester by semester basis. A desire to graduate early is, in itself, not sufficient reason to receive approval for academic overload.

## Classification of Students

At the beginning of each semester all students are officially classified in the following manner:

First-Time Freshman	Any regular student with no prior university experience
Freshman	Any student with prior university experience who has less than 30 semester units
Sophomore	Any regular student who has earned 30 semester units
Junior	Any regular student who has earned 60 semester units
Senior	Any regular student who has earned 90 semester units
Graduate	Any regular student who has completed a bachelor's degree and is studying in a Master's 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 restricted to a maximum of 13 units during the next semester of enrollment, will be required to meet with an Academic Advisor to adjust their schedule and develop a course plan, and may be required to participate in an academic success experience. 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 CBU, a student on Academic Suspension must appeal to and be approved by the Admissions and Retention Committee. If approved to continue, a student will be placed on Academic Probation 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 CBU for at least one semester. To regain academic qualification, a student must demonstrate the educational skills and motivation necessary to be academically successful. How these skills can be demonstrated will be outlined in each student's appeal decision letter, but may include attending a community college to complete 9-12 units of academic coursework in a single semester with earning a 2.3 semester grade point average or better. A student who has demonstrated academic success may then appeal to the Admissions and Retention Committee for readmission to CBU 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 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 Retention Committee in compliance with dates detailed in the letter.

## Academic Information

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### Student Grievances

A student wishing to express concerns or grievances about academic matters, involving coursework or interactions with instructors in and out of the classroom, should ordinarily follow a regular order of contacts. The first contact would be between the student and the instructor involved so that there is opportunity for each to address the issues that directly affect them. If the student feels unable to approach the instructor directly or does not believe the issue has been fully resolved with the instructor, the next contact would be with the Chair of the Department or Dean of the School or College having oversight of that course. If issues remain unresolved at these levels, the final academic point of contact would be the Academic Dean of Online and Professional Studies for Online and Professional Studies Program courses or the Dean of Academic Services for Traditional Program courses.

### Academic Dishonesty

Academic dishonesty (cheating, plagiarism, copying, and other forms) will be reported to the Dean of Students. Judicial sanctions for offense are handled on a case-by-case basis depending on the seriousness of the violation, prior violations and other factors. Judicial sanctions may include, but are not limited to, loss of a letter grade or failure in the course in which the offense occurred, suspension, and/or dismissal from the University. A detailed discussion of academic dishonesty is located in the Student Handbook.

### 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 and 123 (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.

Not more than one course may be taken per semester on a “credit/no credit” basis. All courses in the student’s major field or minor field must be taken for a letter grade.

The student’s decision for this grading option must be made 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 effect the GPA calculations; a grade of “no credit” has the same effect on the GPA calculation as a failing grade.

### Pass/Fail

Chapel/Convocation (GST 050), First Year Orientation and Christian University Success (GST 100 FOCUS), Essentials for Online and Professional Studies (GST101) and other courses are graded on a “pass/fail” basis. The grade of “pass” does not effect the GPA calculations; a grade of “fail” has the same effect on the GPA calculation as a failing grade.

### Incomplete Grade Policy

A Petition for Incomplete Work is filed only in cases of extreme and unforeseen emergencies. Students receiving financial aid may adversely affect aid eligibility by taking an Incomplete. If a grade of I is not raised to a passing grade six weeks after 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. An incomplete fee is charged for all approved incomplete petitions. Approval for an Incomplete is gained by petition to the dean of the school, college, or division in which the course is offered. It is the responsibility of the student to initiate and complete the process for incomplete work prior to the end of the semester. Students who receive an Incomplete will not be eligible for semester honors (Provost’s or President’s Honor Roll).

### Examinations/Make-up Tests

Students are expected to take all tests at the regularly scheduled time. In the case of serious illness or extreme emergency, a faculty member may allow the student to take a make-up test **WITHIN TWO WEEKS** of the originally scheduled test date. If the test is not made up within two weeks, the student may receive no credit for that test. It is the responsibility of the student to arrange for a make-up test by securing permission of the instructor **IN ADVANCE** of the test to be missed. The student must then schedule a make-up test appointment with the Academic Resource Center (ARC). A \$5 fee will be charged for all make-up tests.

### Repeating Courses for Grade Replacement

A student may repeat a course in which a grade of C– or lower was earned. For grade replacement to apply, the course must have been originally taken in residence and repeated in residence. Courses that may be repeated multiple times for credit are not eligible for grade replacement. Tuition will be charged for the repeated units. Students may not repeat a course once the baccalaureate degree has been posted.

Students who elect to repeat a course may do so only 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. There is a five-year limit on requests 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.



**Quality of work in a course is indicated as follows:**

Grade of A	Indicates the highest quality of work and is reserved for outstanding achievement.
Grade of B	Indicates definitely 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 with a student account hold are not eligible for a grade report. 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 Address**

It is frequently a matter of great importance for the University to be able to locate students quickly. For this reason students are asked to file a Student Information Change form with the Office of the University Registrar promptly upon a change of address. Failure to receive University notices because of an incorrect or outdated address provided by the student will not relieve the student of responsibility for the information provided.

**Classification and Numbering of Courses**

The first digit of the course number indicates the year level of the course: 100–first undergraduate year; 200–second undergraduate year; 300–third undergraduate year; 400–fourth undergraduate year; 500–graduate level.

University level courses not having a year designation are signified by 000. These courses are primarily in the Music Department and Chapel/Convocation.

**Course Cancellations and Format Changes**

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 CBU e-mail account.

## Academic Information

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### 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 must process their Petition to Study Abroad prior to the trip's departure. Study Abroad petitions are available from the Dean of Academic Services. Students will be assessed a Study Abroad per unit tuition rate for tours offered through CBU. Student's participating in other authorized study abroad programs will be assessed for the cost of the program.

### Directed Study and Independent Study

Directed Study will be limited to those courses listed in the catalog and are part of the University's regular curriculum. Independent Study will be 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 unit Directed/Independent Study fee will be assessed. Students petitioning for Directed/Independent Study must adhere to the following guidelines:

- Only juniors and seniors are eligible for directed/independent study.
- Only students who have a 3.0 or better grade point average are eligible for directed/independent study.
- No student may take more than a total of four units of independent study or directed study in any given semester.
- A form for directed/independent study may be obtained from Enrollment Advising. It must be completed with the appropriate faculty member and submitted to the Department Chair and University Registrar for approval.
- A maximum of nine (9) units of directed study or independent study may be applied towards 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 give students the opportunity to gain valuable applied experience and make connections in professional fields they are considering for career paths; and give 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, Career Services, and University Registrar. Students are responsible for locating their own internship experience prior to enrollment but are encouraged to utilize the Career Services office for assistance in the process and to obtain the required paperwork in order to enroll. 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 served.

### 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 wishing to receive credit for the challenged course and 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.

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 CBU exams.

### Auditing a Course

Courses which are audited are not credit-bearing; they cannot be applied toward degree requirements. Audited courses do appear on the transcript and are indicated by an AU in lieu of a credit-bearing grade.

Students may register for an audit during the first two weeks of the semester only, 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 Federal Legislation (Buckley Amendment) a student's confidential academic record is available for inspection by the student. See the Office of the University Registrar for further information.

By law the following information may be considered directory information and thus able to be released without prior permission of students involved: student's name; address; telephone listing; e-mail address; date and place of birth; photo; major field of study; participation in official recognized sports activities; weight and height of athletic team members; dates of attendance, degrees, and awards received; and the most recent previous educational institution attended by the student.

## Attendance and Withdrawal 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. Course registration adds, drops, and withdrawals are processed by students through the InsideCBU portal. Students may seek assistance with the InsideCBU registration process from the enrollment advising office. To withdraw from the University, the student must submit a Petition to Withdraw to the Enrollment Services office, this process can not be completed through InsideCBU. Students should consult the University Calendar, Schedule of Classes, and Enrollment Advising for course and semester add, drop and withdraw dates.

Class attendance is of paramount importance, and excessive absences will negatively affect the final grade. The individual instructor defines, in the course syllabus, the grading attendance policies for each class.

### Adding a Course

During the initial Add period a student may add a course to his or her schedule of classes. Adding a course could result in the increase of student account tuition and fee charges.

### Dropping a Course

During the initial Drop period a student may drop a course and receive a full credit of tuition if applicable. No mark will appear on the transcript. A student may not drop a class merely by ceasing to attend. Dropping a class could result in the reduction of already awarded financial aid and an increase in the student account balance.

### Withdrawal from a Course

Students may withdraw from a course during the Withdraw period. A grade of W will appear on the transcript. No credit of tuition will be granted after the Drop period. After the Withdraw period no withdrawal from a course will be permitted. Students who cease attending after the withdrawal date will receive a grade of F in that course.

A student who never attends or stops attending a course for which he or she is officially registered, without following the accepted procedures, will receive a grade of F in that course. A student who wishes to initiate withdrawal from a course after the deadline may do so by filing a petition to present a serious and compelling reason for withdrawal to the Office of the University Registrar or OPS Registrar. Approval for such a withdrawal will be granted only in extreme cases where extenuating circumstances are evident and can be substantiated. No financial adjustments are made. Failing or performing poorly in a class, and dissatisfaction with the subject matter, class or instructor is not acceptable serious and compelling reasons for late withdrawal.

### Withdrawal from the University and Semester

Complete official withdrawal from the University and semester is permitted through the last day of the final examination period and is permitted only if a course has not already been completed. Students requesting full official withdrawal from the University and semester must complete a Petition to Withdraw form available in the Office of Enrollment Services. To complete the official withdraw process the student must also initiate enrollment changes in the Office off the Registrar, complete the Exit Interview process through the Financial Aid Office and reconcile any account balance in the Student Accounts Office. Failure to comply with these regulations will result in failing grades being entered on the student's permanent record, and dismissal will be recorded as unofficial.

Ceasing to attend does not constitute an official withdrawal from a course or from the University. However, ceasing to attend all courses may result in Return to Title IV processing as required per federal regulations.

Refer to the Financial Aid and Student Account sections in this catalog for additional information regarding the effects of completing an official withdraw and the effects of ceasing to attend without providing official notification to the University according to the official withdraw process.

## Academic Information

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### Leave of Absence

A student that needs to take a leave of absence and plans to return to the University should complete a Petition for Leave of Absence. If approved, a student may leave the University for up to one semester and return at the conclusion of the leave without completing the readmit process. Students will be expected to fulfill the graduation requirements in effect at the date of their original matriculation. Students who do not return from a leave of absence will be considered withdrawn from the University and will need to complete the readmit process.

### 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 vice president for enrollment and student services, dean of students services, 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.

## Other Academic Information

### Academic Computing

The University provides a wide array of technologies to facilitate teaching and learning. Complementing a vanguard computing infrastructure are a number of computer labs located in the Annie Gabriel Library, Business Building, W.E. James Complex, and Yeager University Center. Coursework in computer technology is also available. A valid student identification card is required for access to computer labs.

### Academic Success Center

The Academic Success Center (ASC) is responsible for providing support services to help students acquire skills essential to achieve academic success. Services include tutoring for CBU coursework as well as a variety of subjects such as library research, citation (APA, MLA), test-taking strategies, computer skills, and limited CBEST, RICA, CSET and SAT, as available. In addition, the ASC offers study groups, testing services, informal learning style self-assessment, and academic workshops.

### 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 supporting the instruction, learning and research activities of its students and faculty. In addition to the more than 310,000 books (including 195,000 eBooks) in its collection, the library currently subscribes to more than 250 print journals and 85 online databases that together provide access to several million journal records. Students and faculty can access books, journals, reference resources, videos and music through the library catalog (Webcat), which is available along with many other resources and services through the library Web page. The Annie Gabriel Library houses computer work stations and provides access to the campus wireless network. It participates in local, regional and national information networks that increase its resource-offerings to the CBU community through its interlibrary loan programs. It houses special collections and archives devoted to Southern Baptist History, Holocaust Studies, Hymnology and CBU History.

### 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, veterans benefit enrollment certification 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.

### Veterans Information

The Office of the University Registrar maintains records for each identified veteran. A record of transfer work is kept on file and the Veterans' Administration is notified of the transfer work accepted for each veteran.

Veterans must provide a written request to the Office of the University Registrar at the beginning of each term to initiate reporting of verification of enrollment and academic progress to the appropriate Veterans' Administration office. Any changes in enrollment or attendance should be reported to the Office of the University Registrar.

Satisfactory progress must be maintained as specified in the Scholastic Regulations Section under Academic Policies. Military academic credit or experience may provide some equivalency credit in accordance with the American Council on Education (ACE) guidelines.

## Honors Program

The University Honors Program at California Baptist University offers students from all major areas of study a unique and excellent academic experience. Through a series of seminars totaling 18 units, the program offers students the opportunity to participate in rigorous study, requiring diligence in reading primary sources and writing original essays. These seminars lead students in careful study of and reflection on important themes in (primarily) Western Civilization that are key to understanding contemporary culture. Seminars often focus on ancient classical thought and literature, medieval studies, Russian literature, history of science, the Holocaust, 19th and 20th century existentialism, political economy, and the theology and literature of C.S. Lewis and J.R.R. Tolkien. These seminars emphasize a close reading and thorough discussion of classic texts, and are interdisciplinary, integrative, and holistic in vision. Ultimately, the program has been designed to assist students in developing an intellectually informed Christian world view. By understanding the roots and trajectory of contemporary culture, Honors Program graduates will be better prepared to effect change in the culture.

The Honors Program seminars are taught by leading faculty from across the University. Class enrollment is purposely restricted to provide individual attention to the Honors Program student members.

Satisfactory completion of the Honors Program requires (for four-year students) satisfactory completion of 18 units of Honors Program seminars (no more than 10 units at the lower division level, and at least eight (8) units at the upper division level), while maintaining an overall academic GPA of at least 3.5. Transfer students coming to CBU with 60 or more semester units of college credit need only complete 14 units of Honors Program seminars (at least eight (8) units at the upper division level), while maintaining at least a 3.5 overall GPA.

Students who satisfactorily complete the Honors Program are entitled to claim this distinction on their résumés. Their achievement will be recorded on their official CBU transcript and diploma, and will be acknowledged in the Commencement program and ceremony.

A student should seek admission to the University Honors Program prior to or during the freshman year by filing an Honors Program Application and writing sample with the Dean of the College of Arts and Sciences. Admission to the Program requires application that is separate from (and follows after) the regular CBU admission application. The Honors Program admission committee will review the student's overall academic record for predictors of success in this intensive seminar series. The committee will approve students who write a strong essay and have either have an SAT score of 1800 (ACT 27 or higher) and a cumulative grade point average of 3.5 or higher. The committee may consider students with a test score above 1710 or cumulative grade point average of 3.2, and may request a personal interview as part of the decision process.

For more information contact the College of Arts and Sciences at 951.343.4363, or email [honors@calbaptist.edu](mailto:honors@calbaptist.edu).

## Reserve Officer Training Corps (ROTC)

California Baptist University offers a Military Science and Leadership Army Reserve Officer Training Corps (ROTC) program on campus and an Airforce 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 CBU. Representatives from other participating ROTC programs make regular visits to CBU 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 CPT William Brookshire, Assistant Professor of Military Science at 951.343.4773 or e-mail [ROTC@calbaptist.edu](mailto:ROTC@calbaptist.edu). For more information about the Airforce 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 CBU.

# TRADITIONAL PROGRAM

## GENERAL EDUCATION REQUIREMENTS

<b>Competency Requirements</b>	<b>0-15 Units</b>
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Composition (ENG 113)	0-3
Mathematics (MAT 115, 123, or SAT II Math 1C score of 550)	0-3
Technology coursework or approved high school technology course	0-3
Two semesters of the same college level foreign language or two years of the same high school foreign language with grades of B- or higher or SAT II Foreign Language score of 600	0-6

<b>Foundations</b>	<b>7 Units</b>
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Intermediate Composition (ENG123)	3
Lab Science	4

<b>Biblical and Theological Core</b>	<b>9 Units</b>
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Christian Studies	6
ISP/Christian Studies	3

<b>Natural World</b> (no more than 4 units in one area)	<b>6 Units</b>
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Natural Worldview (WLD 121)	3
Biological Science	3
Chemical Sciences	3
Health Science	3
Kinesiology	3
Mathematics	3
Physical Science	3

<b>Social World</b> (no more than 3 units in one area)	<b>6 Units</b>
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Social Worldview	3
Communication Studies	3
Behavioral Science	3

<b>Political World</b> (no more than 3 units in one area)	<b>6 Units</b>
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Political Worldview (WLD 161)	3
Political Science	3
History	3

<b>Cultural World</b> (no more than 3 units in one area)	<b>6 Units</b>
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Cultural Worldview (WLD 181)	3
Art or Music	3
English and Literature	3
Philosophy	3

<b>Total General Education Units</b>	<b>40-55</b>
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- Courses may not double count in the general education, but may be applied to a major, minor or concentration
- General education requirements are waived, with the exception of the Biblical and Theological Core (CST) and two semesters of English composition (ENG 113, ENG 123) for individuals transferring to CBU with a CSU General Education Breadth or IGETC certified associate's degree

2015 | 2016

# California Baptist University

## Colleges, Schools, and University Programs

UNDERGRADUATE CATALOG



COLLEGE OF ARCHITECTURE, VISUAL ARTS, AND DESIGN

Mr. Mark Roberson  
Dean, College of Architecture, Visual Arts, and Design

Ms. Karen Heinze  
Administrative Secretary  
Phone 951.552.8733  
cavad@calbaptist.edu

Faculty

Michael Berger, M.F.A.	Graphic Design
Melissa Croteau, Ph.D.	Film Studies
Dirk Dallas, B.A.	Graphic Design
Susan Duemer, M.Arch.	Architecture
Michael Eaton, M.F.A.	Film Studies
Trevor Hoehne, B.A.	Graphic Design
Kristine Lippire, M.F.A.	Visual Art
Matthew Niermann, M.Arch.	Architecture
Katherine Papineau, Ph.D.	Visual Art
Thomas Renck, B.A.	Graphic Design
Mark Roberson, M.Arch.	Architecture
Duncan Simcoe, M.F.A.	Visual Arts
Caleb Walder, M.Arch.	Architecture
Nancy Ward, B.F.A.	Visual Art

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.

Qualifications to Proceed to the Master of Architecture Degree

All architecture students will be reviewed to proceed to the Master of Architecture after the fifth full-time semester in the program. Students must show satisfactory progress towards the Master of Architecture degree by completing the following courses with a minimum cumulative grade point average (GPA) of 2.75 by the end of the first semester of the third year.

DES 110	Design Thought Foundations I	PHY 115	Physics for Architects with Lab
DES 112	Design Thought Foundations II	ARC 290	Statics and Strength of Materials
DES 120	2D Visual Expression	EGR 254	Materials Engineering
DES 122	3D Visual Expression	ARC 310	Design Studio III: Architecture in the City
ARC 210	Design Studio I: Spatial Constructs	ARC 350	Architectural Theory I
ARC 212	Design Studio II: Programmatic Types	ARC 380	Sustainable Systems I
ARC 220	Computer Modeling	ARC 390	Structural Analysis
ARC 240	Architectural History I	ARC 312	Design Studio IV: Housing*
ARC 242	Architectural History II	ARC 385	Environmental Systems*
MAT 245	Analytical Geometry and Calculus I	ARC 392	Advanced Structural Systems*
*Students may be enrolled during second semester of third year			



Students who meet the qualifications will be approved to pursue the masters degree with the condition they make satisfactory progress by successfully completing fourth year program courses with a minimum 2.75 cumulative grade point average. Students who qualify to continue in the Master of Architecture degree program may choose to complete the non-accredited Bachelor of Arts in Architecture degree instead.

Students who fail to meet minimum qualifications for the masters program by the time of review must meet with the dean to determine how best to proceed toward degree completion.

### **Master of Architecture Degree Requirements**

- Complete all undergraduate graduation requirements
- Complete at least 168 semester units of credit, at least 39 of which must upper division (300 and 400 level courses) and at least 30 must be graduate level (500 level courses)
- Earn a cumulative grade point average of at least 2.75 overall
- Earn a cumulative grade point average of at least 3.0 in all graduate level courses
- Complete requirements with no grade below B- in the graduate level courses and no grade below C- in all other major field of study courses

### **National Architectural Accrediting Board**

In the United States, most registration boards require a degree from an accredited professional degree program as a prerequisite for licensure. The National Architectural Accrediting Board (NAAB), which is the sole agency authorized to accredit professional degree programs in architecture offered by institutions with U.S. regional accreditation, recognizes three types of degrees: the Bachelor of Architecture, the Master of Architecture, and the Doctor of Architecture. A program may be granted an eight-year, three-year, or two-year term of accreditation, depending on the extent of its conformance with established educational standards.

Doctor of Architecture and Master of Architecture degree programs may require a preprofessional undergraduate degree in architecture for admission. However, the preprofessional degree is not, by itself, recognized as an accredited degree.

The NAAB grants candidacy status to new programs that have developed viable plans for achieving initial accreditation. Candidacy status indicates that a program expects to achieve initial accreditation within six years of achieving candidacy, if its plan is properly implemented. In order to meet the education requirement set forth by the National Council of Architectural Registration Boards (NCARB), an applicant for an NCARB Certificate must hold a professional degree in architecture from a program accredited by the NAAB; the degree must have been awarded not more than two years prior to initial accreditation. However, meeting the education requirement for the NCARB Certificate may not be equivalent to meeting the education requirement for registration in a specific jurisdiction. Please contact NCARB for more information.

California Baptist University, College of Architecture, Visual Arts, and Design is in candidacy for accreditation of the following NAAB accredited degree program:

M. Arch. (168 semester units minimum): 2013  
Next visit for continuation of candidacy: 2016  
Projected year of initial accreditation: 2018

*Majors: Architecture, Film Studies, Graphic Design and Digital Media, Photography, Visual Arts*

*Minors: Art History, Film Studies, Graphic Design and Digital Media, Visual Arts*

# COLLEGE OF ARTS AND SCIENCES

**Dr. Gayne J. Anacker**  
*Dean, College of Arts and Sciences*

**Dr. James Lu**  
*Associate Dean*

**Mr. Peyton Beard**  
*Administrative Secretary*  
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## Departments

- Aviation Science ..... C. Daniel Prather, Ph.D.
- Communication Arts..... John Pate, M.A.
- History and Government..... Christopher McHorney, Ph.D.
- Modern Languages and Literature ..... James Lu, Ph.D.
- Natural and Mathematical Sciences ..... Lisa Hernandez, Ph.D.

The College of Arts and Sciences comprises five departments: Aviation Science, Communication Arts; History and Government; Modern Languages and Literature; and Natural 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.

To achieve these ends, the College directs the University Honors Program for select students and a series of Integrated Humanities courses for all students that cross the usual disciplinary boundaries in order to create space for vital interdisciplinary interaction. Likewise, the College sponsors Overseas Study Tours each summer that are open to majors in all CBU programs that provide special opportunities and challenges to personal and intellectual growth.

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.

*Program: University Honors Program*

# Department of Aviation Science

**Dr. C. Daniel Prather**

*Chair, Department of Aviation Science*

**Ms. Kim Roper**

*Department Secretary*

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## Faculty

Creighton Goodman, M.A.S. . . . . Aviation Flight  
 Elisabeth Murillo, B.S. . . . . Aviation Dispatch  
 C. Daniel Prather, Ph.D., A.A.E., C.A.M. . . . . Aviation Management

## Flight Instructors

Maria E. Le Blanc, B.S., C.F.I., C.F.I.I., M.E.I. . . . . Chief Flight Instructor  
 Jarred Tapsfield, B.S., C.F.I., C.F.I.I., M.E.I. . . . . Assistant Flight Instructor

The Department of Aviation Science offers programs that prepare students for careers in the aviation industry with in-depth aviation knowledge, including airspace, laws and regulations, labor issues, safety and security, aerodynamics, meteorology, international aviation environment, human factors, environmental issues, and airline management issues and practices. Regardless of their major, all Aviation Science students will experience, first-hand, the thrill of flight.

The Aviation Dispatch program is designed for students who desire to play a key role in safety of flight as a licensed FAA dispatcher. Students will graduate with a Bachelor of Science degree and be prepared to serve as a crew scheduler or a dispatcher with airlines or business aviation.

The Aviation Flight program is designed for students with little or no flight experience who desire a career as a commercial pilot. Students will graduate with a Bachelor of Science degree and the private pilot certificate, instrument rating, commercial pilot certificate, multi-engine rating, Multi-Engine Instructor certificate, and Certified Flight Instructor certificate. Upon graduation, aviation flight students will be prepared to fly commercially and possess approximately 200-250 flight hours. 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, and flight instructor.

The Aviation Management program is designed for students who desire to pursue a non-flight aviation career. Students will graduate with a Bachelor of Science degree and an in-depth aviation business foundation. Graduates will be prepared for careers in airline management, airport management, fixed base operations management, aviation safety and security, and aviation consulting.

*Majors: Aviation Dispatch, Aviation Flight, Aviation Management*

*Minors: Aviation Dispatch, Aviation Management, Missionary Aviation*

# Department of Communication Arts

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## Faculty

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Michael Chute, Ph.D. . . . .	Journalism
Heather Hamilton-Stilwell, M.S. . . . .	Journalism
Lee Lyons, M.F.A. . . . .	Communication • Theatre
Michael Marse, M.A. . . . .	Communication • Forensics
Frank Milhelich, M.F.A. . . . .	Theatre
John Pate, M.A. . . . .	Communication
Sandra Romo, M.S. . . . .	Communication
James Veneman, M.A. . . . .	Journalism
Mark A. Wyatt, D.Min. . . . .	Journalism • Mass Communication

The Department of Communication Arts is a supporting department in the liberal arts tradition of the University and is also a division of professional training. The department seeks to help students explore the world of creativity and the human spirit as expressed through theatre, speech, journalism, and public relations. The Department includes the disciplines of Communication Arts.

The Communication curriculum seeks to develop students' creativity and expressive abilities, improve everyday conversation, develop written and oral skills, and provide opportunity to gain experience in drama and theatrical production.

*Majors: Communication Studies, Journalism and New Media, Public Relations, Theatre*

*Minors: Communication Studies, Journalism and New Media, Public Relations, Theatre*

# Department of History and Government

**Dr. Christopher McHorney**

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Mark Blincoe, Ph.D. ....	History
Eric Brook, Ph.D. ....	History
Kenya Davis-Hayes, Ph.D. ....	History
John Higley, D.P.A. ....	Criminal Justice
Troy Hinrichs, J.D. ....	Criminal Justice
Tim Luther, Ph.D. ....	Political Philosophy • Political Science
Christopher McHorney, Ph.D. ....	Political Science
Daniel Skubik, Ph.D., J.D. ....	Political Science

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, and graduate study in various fields including law, political science, and history are supported by the Department.

*Majors: Criminal Justice, History, Political Science, International Studies*

*Minors: Classics, Criminal Justice, History, Humanities, Political Science*

*Programs: Pre-law, Social Science Subject Matter Competence*

# Department of Modern Languages and Literature

**Dr. James Lu**

*Chair, Department of Modern Languages and Literature*

**Ms. Rosemary Welsh**

*Department Secretary*

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## Faculty

W. Daniel Blair, Ph.D. . . . .	American Sign Language
Berniece Bruinius-Alspach, M.A. . . . .	English
Khamla Dhouti-Martinez, Ph.D. . . . .	Spanish
Toni Dingman, Ph.D. . . . .	Mythology
Maggie Fanning, M.A. . . . .	English
William Flores, Ph.D. . . . .	Spanish
David Isaacs, M.A. . . . .	Composition • Literature
Dawn Ellen Jacobs, Ph.D. . . . .	Linguistics • Literature
Carla Liu, M.A. . . . .	English • TESOL
James Lu, Ph.D. . . . .	Narrative Theory
Jennifer Newton, Ph.D. . . . .	British Literature
Gilberto Perez, M.A. . . . .	Spanish
Irina Renfro, M.A. . . . .	Linguistics • Literature
Noe Ruvalcaba, Ph.D. . . . .	Spanish
Owen Staley, Ph.D. . . . .	English
Erika Travis, M.A. . . . .	English
Jennifer Tronti, M.A. . . . .	Composition • Literature
Derek Updegraff, Ph.D. . . . .	Creative Writing • Literature
Laura Veltman, Ph.D. . . . .	American Literature
Deron Walker, Ph.D. . . . .	Composition • Linguistics

The Modern Languages and Literature Department offers a variety of courses in language acquisition, composition, literature, critical theory, cultural studies, linguistics, and creative writing.

English majors are drawn to our undergraduate curriculum because it prepares them for future careers embracing 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, etc. The department also offers a Master's program in English. Liberal Studies majors may seek a concentration in English, which affords them an area of specialization within the Multiple Subjects credential.

The program in Spanish currently serves students seeking a minor in Spanish as well as fulfilling General Education requirements. Our primary goal is to enable students, through carefully-designed course sequences, to gain a bilingual proficiency and multicultural adaptability so that they are well-equipped for future professional and ministerial careers where linguistic and cultural knowledge in Spanish is imperative. Lower-division courses train students in basic communication skills. Upper-division classes guide students into areas where special attention goes to interactions between and among language, history, culture, politics, economics, psychology and all other aspects of real life. 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.

*Majors: Creative Writing, English, Spanish*

*Minors: Creative Writing, English, Spanish, Spanish for Health Care Professions*

*Program: English Subject Matter Competence*

*Graduate Program: English*

# Department of Natural and Mathematical Sciences

**Dr. Lisa Hernandez**

*Chair, Department of Natural and Mathematical Sciences*

**Ms. Debbie Spala**

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## Faculty

Melissa Antonio, Ph.D.	Biology
Dennis Bideshi, Ph.D.	Biology
Jim Buchholz, Ph.D.	Mathematics • Physics
Linn Carothers, Ph.D.	Mathematics
J. Alex Chediak, Ph.D.	Engineering • Physics
Arthur Cleveland, Ph.D.	Environmental Science
Ricardo Cordero, Ph.D.	Mathematics
Thomas Ferko, Ph.D.	Chemistry
Alan Fossett, Ph.D.	Chemistry
Lisa Hernandez, Ph.D.	Mathematics
Nathanael Heyman, Ph.D.	Biology
Ying Hu, Ph.D.	Chemistry
Stephan Kish, M.Div.	Mathematics
Bonjun Koo, Ph.D.	Environmental Science
Jacob Lanphere, Ph.D.	Environmental Science
Michelle Nielsen, Ph.D.	Mathematics
Marilyn Panaro, M.S.	Natural Sciences
Frank Pankowski, Ph.D.	Mathematics
Alexandra Paradis, Ph.D.	Biology
Hyun-Woo Park, Ph.D.	Biology
Bruce Prins, Ph.D.	Biology
Stephen Runyan, Ph.D.	Biology
Patrick Schacht, Ph.D.	Biochemistry
Michael Sill, Ph.D.	Mathematics
Kyle Stewart, Ph.D.	Physics
Satoru Suzuki, Ph.D.	Chemistry
Daniel Szeto, Ph.D.	Biochemistry • Biology
Bradley Thomas, Ph.D.	Mathematics



The Department of Natural and Mathematical Sciences provides general education courses in a variety of disciplines within the natural sciences, and degrees in the subject areas of Actuarial Science, Applied Statistical Analysis, Applied Statistics, Biochemistry and Molecular Biology, Biology, Chemistry, Environmental Science, Foundational Mathematics, Global Community Science and Mathematics. Students interested in pre-medical and related studies (pre-dental, pre-veterinary, etc.) or other professional graduate preparation should consult with department faculty for assistance in selecting the best major and concentration for their graduate or career goals. In addition, the department provides courses leading to teaching credentials for mathematics and liberal studies students pursuing such careers. Students interested in teaching Mathematics should see Dr. Elizabeth Morris and students interested in teaching Biology should see Dr. Lisa Hernandez.

Kappa Mu Epsilon is the Natural and Mathematical Sciences department's mathematics honor society, which provides 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.

*Majors: Actuarial Science, Applied Statistical Analysis, Applied Statistics, Biochemistry and Molecular Biology, Biology, Chemistry, Environmental Science, Foundational Mathematics, Global Community Science, Mathematics*

*Minors: Actuarial Science, Applied Statistics, Biology, Chemistry, Environmental Science, Mathematics, Physics*

*Programs: Pre-Medical Studies, Mathematics Subject Matter Competence, Science Subject Matter Competence*

*Graduate Program: Applied Mathematics*

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# COLLEGE OF ENGINEERING

**Dr. Anthony L. Donaldson**

*Dean, Gordon and Jill Bourns College of Engineering*

**Dr. Helen Jung**

*Associate Dean*

**Dr. Ziliang Zhou**

*Assistant Dean*

**Ms. Felicia Tasabia**

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## Departments

Aerospace, Industrial and Mechanical Engineering . . . . .	Ziliang Zhou, Ph.D.
Bioengineering. . . . .	Matthew Rickard, Ph.D.
Chemical Engineering . . . . .	Mark Anklam, Ph.D.
Civil Engineering. . . . .	Jong-Wha Bai, Ph.D.
Computing Software and Data Sciences . . . . .	David Bishop, D.Sc.
Electrical and Computer Engineering . . . . .	Grace Ni, Ph.D.

## Faculty

Amanie Abdelmessih, Ph.D. . . . .	Engineering
Mark Anklam, Ph.D.. . . . .	Engineering
Jong-Wha Bai, Ph.D., P.E. . . . .	Engineering
David Bishop, D.Sc. . . . .	Computing Software and Data Sciences
J. Alex Chediak, Ph.D. . . . .	Engineering • Physics
Seunghyun Chun, Ph.D. . . . .	Engineering
Daniel Clark, Ph.D.. . . . .	Engineering
Anthony Corso, M.B.A. . . . .	Computing Software and Data Sciences
Anthony L. Donaldson, Ph.D.. . . . .	Engineering
Rod Foist, Ph.D. . . . .	Engineering
Mark Gordon, Ph.D.. . . . .	Engineering
Mi Kyung Han, Ph.D.. . . . .	Computing Software and Data Sciences
Keith Hekman, Ph.D. . . . .	Engineering
Kyungsoo Im, Ph.D. . . . .	Computing Software and Data Sciences
Francois Jacobs, Ph.D. . . . .	Construction Management
Creed Jones, Ph.D. . . . .	Computing Software and Data Sciences
Helen Jung, Ph.D., P.E. . . . .	Engineering

Seung-Jae Kim, Ph.D. ....	Engineering
Michael Kolta, Ph.D. ....	Computing Software and Data Sciences
Seong Kong, Ph.D. ....	Engineering
Thomas Marshall, Ph.D., P.E. ....	Engineering
Julian Mills-Beale, Ph.D. ....	Engineering
Michael Nalbandian, Ph.D. ....	Engineering
Grace Ni, Ph.D. ....	Engineering
Mario Oyanader, Ph.D. ....	Engineering
Frederick Pontius, Ph.D., P.E. ....	Engineering
Diedrich Prigge, Ph.D. ....	Construction Management
Matthew Rickard, Ph.D. ....	Engineering
Karen Shade, M.A. ....	Computing Software and Data Sciences
April Si, Ph.D. ....	Engineering
Xuping Xu, Ph.D. ....	Engineering
Sarah Zhao, Ph.D. ....	Engineering
Ziliang Zhou, Ph.D. ....	Engineering

Through the Gordon and Jill Bourns College of Engineering at California Baptist University the Civil Engineering, Mechanical Engineering, and Electrical and Computer Engineering degree programs are accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET), <http://abet.org>. The Construction Management major is accredited by the American Council for Construction Education (ACCE), <http://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.

Distinctives of the College of Engineering include:

- A caring, Christ centered learning community with outstanding faculty
- Both “excellent” and “average” students will have opportunities for growth
- Hands on, team oriented design projects all four years
- Required internships with industry, university research or a non profit organization prior to graduation
- Training in project management and an exposure to the business side of engineering
- All students will be shown how to obtain a provisional patent on their own creative idea
- Emphasis on broad life skill training (e.g. critical thinking, teamwork, communication etc.)
- All students are required to pass the Fundamentals of Engineering online practice exam to graduate.
- All students will be required to have a cross cultural experience
- All students will develop and maintain an electronic portfolio

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.

*Degrees: Biomedical Engineering, Chemical Engineering, Civil Engineering, Computer Science, Electrical and Computer Engineering, Engineering, Industrial and Systems Engineering, Mechanical Engineering, Software Engineering*

*Major: Construction Management*

*Minors: Computer Science, Construction Management, Software Engineering*

*Graduate Programs: Civil Engineering, Software Engineering*

# COLLEGE OF HEALTH SCIENCE

**Dr. David Pearson**  
*Interim Dean, College of Health Science*

**Ms. Morgan Goodson**  
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## Departments

- Kinesiology . . . . . Sean Sullivan, Ph.D.
- Public Health Sciences. . . . . Robert LaChasse, Ph.D.

The College of Health Science exists to transform lives through the Health Professions and consists of the following two departments: Kinesiology and Public Health Sciences.

The College is defined by its outstanding teaching and learning mission; specialized emphasis on the allied 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 professionals.

The College of Health Science at California Baptist University, driven by its Christian commitment, prepares students for entry level professional employment or graduate school in the health professions by delivering lifespan health and wellness professions education through excellent teaching and mentoring, meaningful scholarship, and servant relationships.

# Department of Kinesiology

**Dr. Sean Sullivan**

*Chair, Department of Kinesiology*

**Ms. Daphne Paramo**

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## Faculty

Jolene Dickert, Ed.D. ....	Kinesiology
Jan Edminsten, P.T., D.Sc., C.N.S. ....	Kinesiology
Lisa Friesen, M.S. ....	Kinesiology
Trevor Gillum, Ph.D. ....	Kinesiology
Lauri Hauck, M.S. ....	Kinesiology
Nicole MacDonald, Dr.PH. ....	Kinesiology
Amy Miller, M.S. ....	Kinesiology
David Pearson, Ph.D. ....	Kinesiology
Erik Salley, D.P.T. ....	Kinesiology
Sean Sullivan, Ph.D. ....	Kinesiology

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.

*Majors: Exercise Science, Kinesiology*

*Minors: Coaching, Kinesiology, Sport Management*

*Graduate Programs: Athletic Training, Kinesiology*

# Department of Public Health Sciences

**Dr. Robert G. LaChausse**  
*Chair, Department of Public Health Sciences*

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## Faculty

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Margaret Barth, Ph.D.	Nutrition and Food Sciences
Allan Bedashi, D.H.Sc.	Physician Assistant Studies
Mark Deharo, M.H.A.	Radiological Sciences
Namhee Kim, Ph.D.	Communication Disorders
Sangmin Kim, Ed.D.	Public Health
Robert LaChausse, Ph.D.	Public Health
Lesley Mayne, Ph.D.	Communication Disorders
Bryan Ness, Ph.D.	Communication Disorders
Ashley Parks, M.P.H.	Public Health
Marshare Penny, Dr.P.H.	Public Health
Charles D. Sands, Ph.D.	Public Health
Candace Vickers, Ph.D.	Communication Disorders
Melissa Wigginton, Dr.P.H.	Public Health
Jennifer Zamora, M.P.A.P.	Physician Assistant Studies
Shasha Zheng, Ph.D.	Nutrition and Food Sciences

The Department of Public Health Sciences is dedicated to excellence in teaching, research, and service in the areas of Public Health, Communication Disorders, 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, speech and language pathology, 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.

*Majors: Clinical Health Science, Communication Disorders, Healthcare Administration, Health Science, Nutrition and Food Sciences, Public Health*

*Minors: Health Science, Nutrition*

*Graduate Program: Public Health*

# SCHOOL OF BEHAVIORAL SCIENCES

**Dr. Jacqueline Gustafson**

*Dean, School of Behavioral Sciences*

**Prof. Mischa Routon**

*Associate Dean, Graduate Programs*

**Dr. Veola Vazquez**

*Associate Dean, Undergraduate Programs*

**Ms. Denitria Davidson**

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Mark Cox, M.S. ....	Psychology
Angela Deulen, Ed.D. ....	Psychology
Ana Gamez, Ph.D. ....	Psychology
Julie Goodman, M.A. ....	Anthropology
Jacqueline Gustafson, Ed.D. ....	Psychology
Virgo Handojo, Ph.D. ....	Behavioral Sciences
Anne-Marie Larsen, Ph.D. ....	Psychology
Nathan Lewis, Ed.D. ....	Psychology
Neal McBride, Ph.D. ....	Psychology
Ash Melika, Ph.D. ....	Anthropology
Carol Minton, Ph.D. ....	Sociology
Marilyn Moore, M.A. ....	Sociology
Ken Pearce, Ph.D. ....	Psychology
Joseph Pelletier, Ph.D. ....	Psychology
Mischa Routon, M.S. ....	Psychology
Beverley Sale, Psy.D. ....	Psychology
Erin Smith, Ph.D. ....	Psychology
H. Bruce Stokes, Ph.D. ....	Anthropology • Behavioral Sciences
Erika Travis, M.A. ....	Behavioral Sciences
Veola Vazquez, Ph.D. ....	Psychology
Douglas Wallace, Ph.D. ....	Sociology
Tracy Ward, Ph.D. ....	Psychology

## Behavioral Sciences

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The School of Behavioral Sciences is made up of the undergraduate Anthropology, Behavioral Sciences, Christian Behavioral Science, Psychology and Sociology programs. It also includes the Graduate programs: Counseling Psychology, Counseling Ministry and Forensic Psychology as well as the Center for the Study of Human Behavior.

The School of Behavioral Sciences provides general education courses and degrees in the subject areas of Anthropology, Behavioral Science, Christian Behavioral Science, Psychology and Sociology. Bachelor of Arts degrees are available in five majors: Anthropology, Behavioral Sciences, Christian Behavioral Science, Psychology, and Sociology. Students should consult with department faculty for help in selecting the best major for their graduate or career goals. All majors prepare students for entry-level positions in the behavioral sciences and for admission to graduate programs in Anthropology, Psychology, Sociology, or Social Work.

The faculty of the School of Behavioral 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 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 science fields.

*Majors: Anthropology, Behavioral Science, Christian Behavioral Science, Psychology, Sociology*

*Minors: Anthropology, Behavioral Science, Christian Behavioral Science, Psychology, Sociology*

*Graduate Programs: Counseling Ministry, Counseling Psychology, Forensic Psychology*



# SCHOOL OF BUSINESS

**Dr. Steve Strombeck**

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**Ms. Cindie Duncan**

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## Faculty

Keanon Alderson, Ph.D. ....	Entrepreneurship • Management • Marketing
Adele Harrison, Ph.D. ....	Accounting • Finance
James Bishop, J. D. ....	Business Law
Stephen Christie, Ph.D. ....	Accounting • Finance
Darla Donaldson, M.B.A. ....	Finance • Quantitative
Andrew Herrity, Ph.D. ....	Entrepreneurship • Finance • Management • Marketing
Wendy Keyes, M.A. ....	Economics • Quantitative
Douglas Lainson, Ph.D. ....	Strategic Management
Bob Namvar, Ph.D. ....	Economics • Management
Karin Nelson, M.B.A. ....	Accounting
Steve Strombeck, Ph.D. ....	Global • Marketing
Marc Weniger, Ph.D. ....	Global • Management • Marketing
Natalie Winter, Ed.D. ....	Management • Marketing

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. This valuable role of 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, and Marketing. Within the Business Administration major, students have five areas of concentration: Entrepreneurship, Finance, International Business, Management, and Social Entrepreneurship. At the graduate level, the School of Business provides the Master of Business Administration with concentrations in Accounting, Construction Management, Healthcare Administration, and Management. These programs are all accredited by the Accreditation Council for Business Schools and Programs (ACBSP).

The competitiveness of the School's programs is enhanced by a variety of value-added experiences. Students bridge academic concepts with real working-world experience by interning at local and global businesses. Students enhance their skills for effective leadership in the global economy by studying in our ten-day summer program at Oxford University.

Graduates are employed as insurance agents, accountants, tax consultants, CPAs, auditors, chief financial officers, business owners, entrepreneurs, marketing professionals, government officials and business chief executive officers.

*Majors: Accounting, Business Administration, Marketing*

*Minors: Business Administration, Entrepreneurship, Marketing*

*Graduate Program: Business Administration*

# SCHOOL OF CHRISTIAN MINISTRIES

**Dr. Chris Morgan**  
*Dean, School of Christian Ministries*

**Dr. Anthony Chute**  
*Associate Dean*

**Ms. Christina Sanders**  
*Administrative Secretary*  
Phone 951.343.4248  
FAX 951.343.4436  
csanders@calbaptist.edu

Faculty

Gayne J. Anacker, Ph.D. . . . .	Philosophy
Todd Bates, Ph.D. . . . .	Philosophy
Jeff Cate, Ph.D. . . . .	New Testament
Anthony Chute, Ph.D. . . . .	Church History
Adamson Co, Ph.D. . . . .	Theology
Greg Cochran, Ph.D. . . . .	Applied Theology
Scott B. Key, Ph.D. . . . .	Philosophy
Jeff Lewis, M.Div. . . . .	Intercultural Studies
Richard Mobley, Ph.D. . . . .	New Testament
Jeff Mooney, Ph.D. . . . .	Old Testament
Chris Morgan, Ph.D. . . . .	Theology
Tim Mosteller, Ph.D. . . . .	Philosophy
Fyne Nsofor, Ph.D. . . . .	Intercultural Studies
Amy Stumpf, Ph.D. . . . .	Society and Religion
Dan Wilson, Ph.D. . . . .	Biblical Studies

The School of Christian Ministries serves to prepare students for graduate school (including seminary) and to equip students for careers in churches and other ministry-related organizations. The School’s objective is to lead 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 Bachelor of Arts in Christian Studies is a core curriculum that gives students a broad understanding of the Bible, interpretative methodologies, Christian theology, Christian history, Baptist distinctives, Christian ministry, as well as directed fieldwork. Students will also select and complete a concentration from the following:

- |                      |                     |                           |
|----------------------|---------------------|---------------------------|
| • Apologetics        | • Faith and Culture | • Pastoral Leadership     |
| • Bible and Theology | • Focus Leadership  | • Theology/Church History |
| • Biblical Languages | • Global Justice    | • Theology/Philosophy     |
| • Christian Ministry | • Global Studies    | • Youth Ministry          |

See the Christian Studies section for the specifics of each of these concentrations. Through participation in the academic program of the Focus Leadership Institute in Colorado Springs, Colorado, students may earn a full concentration for the Christian Studies degree.

The School of Christian Ministries offers the Bachelor of Applied Theology (BAT) degree, an intensively practical 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 Intercultural Studies major and Global Studies 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 Global Studies minor requires a short, four to five week, international experience. The Intercultural Studies major includes both a short term and a semester long international practicum.

The Philosophy program is designed to teach 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.

*Degree: Applied Theology*

*Majors: Christian Studies, Intercultural Studies, Philosophy*

*Minors: Christian Studies, Global Integration Studies, Global Justice, Global Studies, Philosophy*

*Program: Focus Leadership Institute*

# SCHOOL OF EDUCATION

**Dr. John Shoup**

*Dean, Dr. Bonnie G. Metcalf School of Education*

**Dr. Shana Matamala**

*Associate Dean*

**Ms. Janie Armentrout**

*Administrative Assistant*

Phone 951.343.4313

FAX 951.343.4553

jarmentrout@calbaptist.edu

## Faculty

Nona Cabral, Psy.D. . . . .	Education • School Counseling
Joe De Vol, M.S. . . . .	Education
Doreen Ferko, Ph.D. . . . .	Education
Karin Johnson, Ph.D. . . . .	Education • Educational Technology
David King, Ed.D. . . . .	Education • Kinesiology
Jane McGuire, LEP, Psy.D. . . . .	Education • School Psychology
Jeff McNair, Ph.D. . . . .	Education • Special Education
Jonathan K. Parker, Ed.D. . . . .	Education
Kathryn Short, Ed.D. . . . .	Early Childhood Education
John Shoup, Ph.D. . . . .	Educational Leadership • Research
Susan Studer, Ph.D. . . . .	Education • Research Methods
Rachel Timmons, Ed.D. . . . .	Education
Keith Walters, Ed.D. . . . .	Education

The School of Education offers a full range of state approved credential programs leading to careers in elementary, secondary, special education, School Psychology, School Counseling, and Administration. The School of Education is approved by the Commission on Teacher Credentialing.

In addition to the Preliminary Multiple Subject and Single Subject Teaching Credentials, students may also seek additional credential programs and a master's degree through the School of Education. The Elementary Subject Matter Program allows candidates to complete course work in a Liberal Studies program that provides the requisite knowledge and skills to teach in a multiple subject classroom. Students seeking a Single Subject Credential are encouraged to major in the area they plan to teach. Single Subject Candidates may satisfy Subject Matter Competence by completing an approved subject matter program at the university, or by passing the appropriate state examination.

The credential programs offered by California Baptist University are state approved programs and are subject to revision at any time by state or federal law. Please contact the School of Education for more information. The university and the School of Education reserve the right to modify the teacher credentialing requirements when directed to do so by the Commission on Teacher Credentialing. The Liberal Studies major (Elementary Subject Matter Program) in the Bachelor of Arts degree program is designed for, but not limited to, students interested in preparing for the Preliminary Multiple Subject Credential Program and teaching in an elementary school.

It is the mission of the Dr. Bonnie G. Metcalf School of Education of California Baptist University, a Great Commission University, to prepare professionals of high moral character and ethical behavior to serve 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:

*Go ye therefore, and teach all nations...and lo, I am with you always, even unto the end of the world.*

## Professional Methods Program Admission Requirements

Students with a cumulative GPA of 2.75 or higher who are pursuing the Professional Methods Program will need acceptance into this program. A student who is admitted to the University is not automatically admitted to the Education Credential Program and must meet the following requirements:

1. Take the California Basic Education Skills Test (CBEST)
2. Register for one section of the CSET exam
3. Grade Point Average (GPA)
  - Minimum GPA of 2.75 for acceptance
  - Maintain a GPA of 3.0 throughout the program
4. Three Recommendations, completed on forms provided, from professional sources who can address your potential for success. Family members and friends may not complete recommendations.
5. Written literacy sample
6. Satisfactory interview with an Education Committee faculty member
7. Verification of Certificate of Clearance
8. Completion of a college-level technology course is recommended
9. Credential program acceptance

*Majors: Early Childhood Studies, Leadership Studies, Liberal Studies*

*Minor: Leadership Studies*

*Programs: Education Professional methods for Credential Programs, Elementary Subject Matter Program (Single Subject Credential candidates should consult with a faculty advisor within their academic area for information on approved Subject Matter Competence Programs.)*

*Graduate Programs: Education, Higher Education Leadership and Student Development, Leadership and Adult Learning, Leadership and Community Development, Leadership and Organizational Studies, School Counseling, School Psychology*

# SCHOOL OF MUSIC

**Dr. Judd Bonner**  
*Dean, Shelby and Ferne Collinsworth School of Music*

**Dr. Guy Holliday**  
*Associate Dean*

**Ms. Chris Dahlgren**  
*Administrative Assistant*  
Phone 951.343.4251  
FAX 951.343.4570  
schoolofmusic@calbaptist.edu

## Faculty

Judd Bonner, D.M.A.	Conducting • Choral • Instrumental
Angela Brand-Butler, D.M.A.	Piano • Music History
Steven Dahlgren, M.M.	Piano • Music Theory • Choral
Dawn Gilmore, D.W.S.	Church Worship • Choral
Guy Holliday, D.M.A.	Instrumental
Beverly Howard, D.M.A.	Music Theory • Organ
Hector Jimenez, M.M.	Music Theory
Kathleen Kopitzke, M.M.	Choral
Glenn Pickett, D.M.A.	Piano • Composition
Steve Posegate, D.M.A.	Music Education
Brenda Reinebach, M.A.	Voice
John Reinebach, D.M.A.	Voice
Ruth Noemy Wheeler, M.M.	Orchestra • Strings

California Baptist University offers a Bachelor of Music Degree with the following majors: Composition, Instrumental Performance, Keyboard Accompanying, Music Education, Piano Performance, and Vocal Performance.

The School of Music is a member of the National Association of Schools of Music (NASM) and is committed to the continual refinement of its educational opportunities as we grow in this new millennium. The School of Music offers the student opportunities to participate in ensembles of varying size, and to take coursework leading to a major, minor, or single subject credential in music. We believe that music is for the masses and not just the elite few. As Aristotle said, “excellence is not an act but a habit,” so we will be striving for excellence in the classroom and in our performance. The quality expected at rehearsals and performances is the same, so we will use all those opportunities to draw out, sharpen, blend, and mature the students who study in our school.

Students graduating with a degree in music enter a variety of careers including elementary and secondary teaching and church music ministry. The performance majors serve the needs of the students who wish to teach privately, consider a career as a full time performer, or teach applied lessons at the college level. The music composition major gives a foundation to those seeking a career in music writing, arranging, or publication.

- Degree: Music*
- Majors: Composition, Instrumental Performance, Keyboard Accompanying, Music Education, Piano Performance, Vocal Performance*
- Minor: Music*
- Programs: Music Subject Matter Competence*
- Graduate Program: Music*

# SCHOOL OF NURSING

**Dr. Geneva G. Oaks**

*Dean, School of Nursing*

**Dr. Susan Drummond**

*Associate Dean*

**Ms. Jeannette Russell**

*Administrative Assistant*

Phone 951.343.4700

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nursing@calbaptist.edu

## Faculty

Cynthia Anderson, RN, M.S.N. ....	Nursing
Deborah Bobst, RN, D.N.P. ....	Nursing
Karen Bradley, RN, D.N.P. ....	Nursing
Lisa Bursh, RN, D.N.P. ....	Nursing
Deborah Carter, RN, Ed.D. ....	Nursing
Debra Coleman, RN, M.S.N. ....	Nursing
Christy Cotner, RN, M.S.N. ....	Nursing
Susan Drummond, RN, Ph.D. ....	Nursing
Marion Dunkerley, RN, M.S.N. ....	Nursing
Jan Flournoy, RN, M.S.N. ....	Nursing
Jeffrey Gage, RN, Ph.D. ....	Nursing
Denise Glenore-Green, RN, M.S.N. ....	Nursing
Teresa Hamilton, RN, M.S.N. ....	Nursing
Virginia Hart-Kepler, RN, M.S.N. ....	Nursing
Dayna Herrera, RN, D.N.P. ....	Nursing
Dinah Herrick, RN, M.S.N. ....	Nursing
Susan Jetton, RN, D.N.P. ....	Nursing
Melissa Marshall, RN, M.S.N. ....	Nursing
Nia Martin, RN, M.S.N. ....	Nursing
Rebecca Meyer, RN, Ph.D. ....	Nursing
Geneva G. Oaks, RN, Ph.D. ....	Nursing
Anthony Phillips, RN, M.S.N. ....	Nursing
Juliann Perdue, RN, D.N.P. ....	Nursing
Anthony Phillips, RN, M.S.N. ....	Nursing
Victoria Randazzo, RN, Ph.D. ....	Nursing
Pennee Robertson, RN, M.S.N. ....	Nursing
Jasmine Schmidt, RN, D.N.P. ....	Nursing
Lorraine Shields, RN, D.N.P. ....	Nursing
Tara Stephen, RN, M.S.N. ....	Nursing
Terri Thompson, RN, M.S.N. ....	Nursing
Stacey Toro, RN, M.S.N. ....	Nursing

## Nursing

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The mission of the California Baptist University School 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 an entry-level professional nursing practice and future graduate nursing study. The 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). The program is accredited by the credentialing body of the American Association of Colleges of Nursing (AACN).

### Admission Requirements

First-time freshmen and transfer students interested in pursuing a 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.

LVN's licensed in the State of California may be accepted into the program with advanced standing based on transfer of credit on a space available basis. CBU Students are considered for admission prior to considering transfer students.

- Acceptance to California Baptist University
- Submission of a nursing program online application
- Background Check Clearance\*
- Health Clearance\*
- Random Drug Testing\*
- Overall cumulative GPA of 2.7
- Completion of the following prerequisites (or their equivalent) with a minimum grade of "C":  
Fundamentals of Chemistry (3), Organic and Biochemistry for Health Sciences w/lab (4), Human Anatomy and Physiology (8), Human Microbiology w/lab (4), English Composition (6), Oral Communication (3), Intermediate Algebra or Statistics (3), Lifespan Development (3)
- Pre-Admission Exam
- Submission of two letters of recommendation.
- An interview may be requested.

\*After acceptance into Nursing Major

*Degree: Nursing*

*Graduate Program: Nursing*



# UNIVERSITY PROGRAMS

## Honors Program

The California Baptist University Honors Program offers students a unique and excellent academic experience. In a series of six special seminars spread throughout their CBU career, Honors Program students encounter the seminal, powerful ideas and perspectives that shape our culture and our world. Thematically linked, these seminars emphasize a close reading and thorough discussion of classic texts, and are interdisciplinary, integrative, and holistic in vision. Ultimately, the program has been designed to assist students in developing an intellectually informed Christian world view. Class enrollment is purposely restricted to provide individual attention to the Honors Program student members.

A student should seek admission to the CBU Honors Program during the freshman year or first semester of the sophomore year by filing an Honors Program Application and writing sample with the Dean of the College of Arts and Sciences. Admission to the Program requires application separate from regular CBU admission application.

The Honors Program admission committee will review the student's overall academic record for predictors of success in this intensive seminar series. The committee will approve students who write a strong essay and have either have an SAT score of 1800 (ACT 27 or higher) and a cumulative grade point average of 3.5 or higher. The committee may consider students with a test score above 1710 or cumulative grade point average of 3.2, and may request a personal interview as part of the decision process.

Satisfactory completion of the Honors Program requires (for four-year students) satisfactory completion of six (6) Honors Program seminars while maintaining an overall academic GPA of at least 3.5. Transfer students coming to CBU with 60 or more semester units of college credit need only complete five (5) Honors Program seminars, with at least a 3.5 overall GPA.

Students who satisfactorily complete the Honors Program are entitled to claim this distinction on their résumés. Their achievement will be recorded on their official CBU transcript and diploma, and will be acknowledged in the Commencement program and ceremony.

For more information contact the College of Arts and Sciences at 951.343.4363, 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 Airforce ROTC program through concurrent enrollment at California State University, San Bernardino. For more information about the Military Science and Leadership Army ROTC Program contact CPT William Brookshire, Assistant Professor of Military Science at 951.343.4773 or e-mail [ROTC@calbaptist.edu](mailto:ROTC@calbaptist.edu). For more information about the Airforce 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 CBU.

## Single Subject Matter Competency Programs

California Baptist University offers a selection of subject matter competency programs for those who wish to pursue teaching credentials in single subject areas. Students planning to teach in California will need to demonstrate subject matter competency either by successfully completing the state approved subject matter program or by passing the California Subject Examination for Teachers (CSET). \*Note: state regulations concerning test requirements are subject to change and supersede CBU catalog information.

For information on approved and pending subject matter competency programs, please see the following faculty for guidance:

English .....	Ms. Jennifer Tronti
Math .....	Dr. Elizabeth Morris
Music .....	Dr. Steve Posegate
Science .....	Dr. Lisa Hernandez
Social Science .....	Dr. Chris McHorney
Spanish .....	Dr. William Flores



2015 | 2016

# California Baptist University

## Academic Programs

UNDERGRADUATE CATALOG



## Academic Information

California Baptist University offers sixteen undergraduate degrees: 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 Industrial and Systems Engineering, Bachelor of Science in Mechanical Engineering, Bachelor of Science in Nursing, and Bachelor of Science in Software Engineering; and ten graduate degrees: 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 Nursing, Doctor of Nursing Practice, Doctor of Public Administration. The following academic degrees, majors, minors, and concentrations are offered:

### **Associate of Science**

Health Science

### **Bachelor of Applied Theology**

Applied Theology

### **Bachelor of Arts**

#### **Anthropology**

Christian Behavioral Science  
Cognitive Psychology  
Cultural Anthropology  
Diversity  
Industrial and Organizational Psychology  
Life Span Development  
Psychological Anthropology  
Religion and Behavior  
Social Work

#### **Applied Statistics**

Global Development  
Quantitative Business Methods

#### **Architecture**

#### **Behavioral Science**

Anthropology  
Christian Behavioral Science  
Cognitive Psychology  
Counseling Ministry  
Diversity  
Industrial and Organizational Psychology  
Life Span Development  
Psychology  
Religion and Behavior  
Social Work

#### **Business Administration**

#### **Christian Behavioral Science**

Anthropology  
Cognitive Psychology  
Counseling Ministry  
Diversity  
Industrial and Organizational Psychology  
Life Span Development  
Psychology  
Religion and Behavior  
Social Work

#### **Christian Ministries**

#### **Christian Studies**

Apologetics  
Bible and Theology  
Biblical Languages  
Christian Ministry  
Faith and Culture  
Focus Leadership  
Global Justice  
Global Studies  
Pastoral Leadership  
Theology/Church History  
Theology/Philosophy  
Youth Ministry

#### **Communication Studies**

#### **Early Childhood Studies**

Early Childhood Intervention

#### **English**

Creative Writing

#### **Film Studies**

Film Analysis  
Film Production  
Film Production: LAFSC  
Screenwriting

#### **Graphic Design and Digital Media**

Graphic Design  
Mobile Design  
Photography  
Video and Animation  
Web Design

#### **History**

Holocaust Studies

#### **Intercultural Studies**

Global Justice  
Global Ministries  
TESOL

#### **Interdisciplinary Studies**

Communication Arts  
Behavioral Science  
Organizational Leadership  
Psychology  
Public Administration

#### **International Studies**

International Business  
International Relations  
Global Ministry

#### **Journalism and New Media**

Broadcast Journalism  
Global Journalism  
Media Photography  
Public Relations  
Sports Journalism  
Writing and Publishing

#### **Leadership Studies**

#### **Liberal Studies**

Anthropology  
Astronomy  
English  
Environmental Science  
European History  
Global Studies  
Graphic Design  
Honors  
Human Development and Diversity  
Human Development / Early Childhood  
Human Development: Life Span  
Kinesiology  
Mathematics  
Music  
Political Science  
Science in Society  
Social Science  
Spanish  
Speech  
United States History  
Visual Arts

#### **Organizational Leadership**

#### **Philosophy**

#### **Photography**

Commercial Photography  
Fine Art Photography

#### **Political Science**

American Institutions and Processes  
International Relations  
Political Philosophy  
Pre-Law  
Public Administration

**Psychology**

Anthropology  
Christian Behavioral Science  
Cognitive Psychology  
Diversity  
Industrial and Organizational Psychology  
Life Span Development  
Religion and Behavior  
Social Work

**Public Administration**

**Public Relations**

**Sociology**

Anthropology  
Christian Behavioral Science  
Cognitive Psychology  
Counseling Ministry  
Diversity  
Life Span Development  
Psychology  
Religion and Behavior  
Social Work

**Spanish**

Hispanic Literature and Film

**Theatre**

Design/Technical Theatre  
Performance

**Visual Arts**

**Bachelor of Computer Science**

Computer Science

**Bachelor of Fine Arts**

Creative Writing

**Bachelor of Music**

Composition

Instrumental Performance

Keyboard Accompanying

Music Education

Piano Performance

Vocal Performance

Digital Arts  
Worship Leadership

**Bachelor of Science**

Accounting

Actuarial Science

**Applied Statistical Analysis**

Actuarial Science  
Biostatistics  
Chemical Analysis  
Public Health

**Aviation Dispatch**

**Aviation Flight**

Aviation Dispatch

**Aviation Management**

**Biochemistry and Molecular Biology**

**Biology**

Environmental Science  
General Biology  
Pre-Medical  
Secondary Biology Education

**Business Administration**

Entrepreneurship  
Finance  
International Business  
Management  
Social Entrepreneurship

**Chemistry**

Advanced Studies in Chemistry  
Environmental Science  
Secondary Chemistry Education  
Pre-Medical Chemistry

**Clinical Health Science**

**Communication Disorders**

**Computer Information Technology**

**Construction Management**

**Criminal Justice**

**Environmental Science**

**Exercise Science**

**Foundational Mathematics**

**Global Community Science**

**Health Science**

General Studies  
Pre-Dental  
Pre-Medicine  
Pre-Pharmacy  
Pre-Physician Assistant

**Healthcare Administration**

**Kinesiology**

Physical Education  
Sport Management  
Sports Medicine

**Marketing**

**Mathematics**

Advanced Studies in Mathematics  
General Studies in Mathematics  
Secondary Mathematics Education

**Nutrition and Food Sciences**

Nutrition Science  
Food Science and Management

**Public Health**

Global Health  
Healthcare Administration  
Health Education

**Bachelor of Science in Biomedical Engineering**

Biomedical Engineering

**Bachelor of Science in Chemical Engineering**

Chemical Engineering

**Bachelor of Science in Civil Engineering**

Civil Engineering

**Bachelor of Science in Electrical and Computer Engineering**

Electrical and Computer Engineering

**Bachelor of Science in Engineering**

Engineering  
Agricultural  
Business  
Global Applications  
Pre-Law

**Bachelor of Science in Industrial and Systems Engineering**

Industrial and Systems Engineering

**Bachelor of Science in Mechanical Engineering**

Mechanical Engineering

**Bachelor of Science in Nursing**

Nursing

**Bachelor of Science in Software Engineering**

Software Engineering

## Academic Programs

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### Minors

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Actuarial Science  
Anthropology  
Applied Statistics  
Art History  
Aviation Dispatch  
Aviation Management  
Behavioral Science  
Biology  
Business Administration  
Chemistry  
Christian Behavioral Science  
Christian Studies  
Classics  
Coaching  
Communication Studies  
Computer Science  
Construction Management  
Creative Writing  
Criminal Justice  
English  
Entrepreneurship  
Environmental Science  
Film Studies  
Global Integration Studies  
Global Justice  
Global Studies  
Graphic Design and Digital Media  
Health Science  
History  
Humanities  
Journalism and New Media  
Kinesiology  
Leadership Studies  
Marketing  
Mathematics  
Missionary Aviation  
Music  
Nutrition  
Philosophy  
Physics  
Political Science  
Psychology  
Public Relations  
Sociology  
Software Engineering  
Spanish  
Spanish for Healthcare Professions  
Sport Management  
Theatre  
Visual Arts

### Master of Architecture

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Architecture

### Master of Arts

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Communication

Counseling Ministry

Professional Ministry  
Research in Counseling Ministry

Disability Studies

Disability Ministry  
Disability Policy

Education

Science Education

English

English Pedagogy  
Literature  
TESOL

Forensic Psychology

Leadership and Adult Learning

Leadership and Community  
Development

Leadership and Organizational  
Studies

Organizational Leadership

Public Relations

### Master of Business Administration

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Business Administration

Accounting  
Construction Management  
General Management  
Healthcare Administration  
Management

### Master of Music

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Music

Conducting  
Music Composition  
Music Education  
Performance

### Master of Public Administration

---

Public Administration

Strategic Innovation

### Master of Public Health

---

Public Health

Health Education and Promotion  
Health Policy and Administration

### Master of Science

---

Accounting

Applied Mathematics

Athletic Training

Education

Early Childhood Studies  
Educational Leadership  
Educational Leadership for Public  
Institutions  
Educational Leadership for Faith  
Based Institutions  
Educational Leadership for Faith  
Based International Institutions  
Educational Technology  
General Education  
Instructional Computer Applications  
International Education  
Online Teaching and Learning  
Reading  
Special Education in Mild/Moderate  
Disabilities  
Special Education in Moderate/  
Severe Disabilities  
Teacher Leadership  
Teaching  
Teaching and Learning  
TESOL

Civil Engineering

Counseling Psychology

Forensic Psychology  
Professional Clinical Counselor

Higher Education Leadership and  
Student Development

Kinesiology

Exercise Science  
Physical Education Pedagogy  
Sport Management

School Counseling

School Psychology

Software Engineering

### Master of Science in Nursing

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Nursing

Clinical Nurse Specialist Adult  
Gerontology  
Family Nurse Practitioner  
Healthcare Systems Management  
Teaching-Learning Nursing

### Doctor of Nursing Practice

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Nursing Practice

### Doctor of Public Administration

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Public Administration

# ACCOUNTING

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 PROGRAM REQUIREMENTS

### Accounting Major (66 units) BS

#### Lower Division 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

#### Upper Division Requirements

ACC 310	Intermediate Accounting I
ACC 311	Intermediate Accounting II
ACC 320	Cost Accounting
ACC 330	Government and Non-Profit Accounting
ACC 410	Advanced Accounting
ACC 420	Accounting Information Systems
ACC 430	Federal Income Tax
ACC 470	Auditing
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
BUS 498	Senior Exit Exam
MKT 333	Principles of Marketing

### Accounting Course Descriptions

ACC 250	Principles of Accounting I (3) An introduction to financial accounting, involving its basic structure, the accounting cycles for service and merchandising enterprises, assets, liabilities, and accounting systems.	Fall
ACC 251	Principles of Accounting II (3) This course has an emphasis on managerial accounting involved with corporations, control accounting, and decision making. Prerequisite: ACC 250.	Spring
ACC 310	Intermediate Accounting I (3) 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. Prerequisite: ACC 251.	Fall
ACC 311	Intermediate Accounting II (3) 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. Prerequisite: ACC 310.	Spring
ACC 320	Cost Accounting (3) This course covers budgeting, standard costs, analysis of variances, job order and process accounting, profit centers, capital budgeting, and managerial controls. Prerequisite: ACC 310.	Spring

## Academic Programs

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ACC 330	<b>Governmental and Non-profit Accounting (3)</b> 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. Prerequisite: ACC 311.	Spring
ACC 345	<b>Managerial Accounting (3)</b> 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.	Online and Professional Studies
ACC 350	<b>Financial Accounting I (3)</b> A study of accounting principles relating to non-current assets and liabilities emphasizing the measurement and valuation of property, plant and equipment, other long-term assets, and current and long-term liabilities. Emphasis is also placed on the accounting aspects of the operations of sole proprietorships, partnerships and corporations. (This course does not meet the requirements for upper division accounting units within the accounting major).	Online and Professional Studies
ACC 351	<b>Financial Accounting II (3)</b> A continuation of the study of accounting principles relating to non-current assets and liabilities emphasizing the measurement and valuation of property, plant and equipment, other long-term assets, and current and long-term liabilities. Emphasis is also placed on the accounting aspects of the operations of sole proprietorships, partnerships and corporations. Prerequisite: ACC 350 (This course does not meet the requirements for upper division accounting units within the accounting major).	Online and Professional Studies
ACC 410	<b>Advanced Accounting (3)</b> 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. Prerequisite: ACC 311.	Fall
ACC 420	<b>Accounting Information Systems (3)</b> A study of accounting and processing controls for automated accounting systems, and developing and implementing an automated accounting system. Prerequisites: CIS 270 and ACC 311.	Fall
ACC 430	<b>Federal Income Tax Accounting (3)</b> Covers the theory of tax accounting with practical applications to individuals, proprietorships, partnerships, corporations, and fiduciary organizations. Prerequisite: ACC 251.	Fall
ACC 470	<b>Auditing (3)</b> 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. Prerequisite: ACC 410.	Spring



## ACTUARIAL SCIENCE

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.

### TRADITIONAL PROGRAM REQUIREMENTS

#### Actuarial Science Major (64 units) BS

##### 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 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 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
STA 470	Seminar in Financial Mathematics
STA 480	Seminar in Probability and Statistics

#### Actuarial Science Minor (26 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 480	Seminar in Probability and Statistics

#### 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 are in the process of obtaining Validation by Educational Experience (VEE) approval by the Society of Actuaries.

##### General Prerequisite Requirements

ACC 250	Principles of Accounting I
ACC 251	Principles of Accounting II
CIS 268	Computer Programming Languages OR CIS 270 Business IT Application
MAT 353	Probability and Statistics
STA 144	Introduction to Statistics
STA 310	Mathematical Statistics I
STA 480	Seminar in Probability and Statistics

##### Certificate Requirements (15 units)

BUS 217	Microeconomics
BUS 218	Macroeconomics
BUS 303	Business Finance
STA 205	Applied Linear Regression
STA 311	Mathematical Statistics II

## AIR FORCE

### 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.

#### Option 1: Four Year Program (24 units)

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 Course (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 Course (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

#### Option 2: Two Year Program (18 units)

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 courses 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 Course (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

### Air Force Course Descriptions

Courses offered through concurrent enrollment at California State University, San Bernardino.

AIR 090	Leadership Laboratory (0)
	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. Graded as a pass/fail course.

AIR 101	<b>The Air Force Today I (0.67)</b> Examines the roles and ethical standards expected of an Air Force officer. Presents the opportunities and benefits of being an Air Force officer.
AIR 102	<b>The Air Force Today II (0.67)</b> The Air Force organization, structure, and mission with emphasis on the basic skills used by military officers.
AIR 103	<b>The Air Force Today III (0.67)</b> Further analysis of ethical standards expected of an Air Force officer with an emphasis on group dynamics.
AIR 201	<b>The Development of Air Power I (0.67)</b> Development of air power technology and tactics from 1900 through the Vietnam War and its impact on military thought.
AIR 202	<b>The Development of Air Power II (0.67)</b> Development of air power technology and tactics from the Vietnam War to present and its impact on military thought.
AIR 203	<b>The Development of Air Power III (0.67)</b> In-depth discussion of values and public expectations as they relate to military officers.
AIR 301	<b>Air Force Leadership and Management I (2)</b> Principles and functions of management and leadership. Introduction to “Total Quality Management”
AIR 302	<b>Air Force Leadership and Management II (2)</b> “Quality Air Force” initiatives, procedures, and applications.
AIR 303	<b>Air Force Leadership and Management III (2)</b> Ethics in modern society and the military, including the “Standards of Conduct” and the principles of modern war.
AIR 401	<b>National Security Forces in Contemporary American Society I (2)</b> Forces and issues that influences policy decisions and application of military force. The impact of the executive branch and Congress on military operations.
AIR 402	<b>National Security Forces in Contemporary American Society II (2)</b> Geopolitical influences on U.S. political decision making and the use of military force.
AIR 403	<b>National Security Forces in Contemporary American Society III (2)</b> Basic knowledge necessary for effective military leadership including consideration of legal issues and the military judicial system.

## ALLIED HEALTH

### Allied Health Course Descriptions

ALH 101	<b>Introduction to Allied Health Professions (1)</b> This course is designed to introduce students to the basic skills necessary for academic success in allied health, to review the numerous career options in the allied health professions, and to explore the students’ calling and vocation.	Fall, Spring
ALH 301	<b>Global Health Engagement Seminar (3)</b> 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. Prerequisite: ALH 101.	Spring
ALH 401	<b>Global Health Engagement Practicum (3)</b> 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. Course may be repeated once for credit. Prerequisite: ALH 301.	Summer
ALH 405	<b>Grant Writing (3)</b> 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.	As offered

## Academic Programs

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ALH 495	Clinical Practicum (3)	Fall, Spring, Summer
This course provides supervised clinical practicum hours in a community-based healthcare setting. The student will work with their patients and clients in their chosen field of study under the supervision of health care professional, and will periodically report their clinical experience to the instructor to reflect their field experience. The course entails two major components: (1) Clinical experience, (2) Review and assessment of the student's attainment of professional experience in the College of Health Science. A total of 126 hours for 14 weeks of on-site work, observation, or participation are required. Prerequisite: Senior status.		

## AMERICAN SIGN LANGUAGE

### American Sign Language Course Descriptions

ASL 115	American Sign Language I (3) M	Fall, Spring
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.		
ASL 125	American Sign Language II (3) M	Fall, Spring
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. Prerequisite: ASL 115. Must pass with a C- or better to continue in ASL 215.		
ASL 215	Intermediate American Sign Language I (3) M	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. Prerequisite: ASL 125. Must pass with a C- or better to continue in 225.		
ASL 225	Intermediate American Sign Language II (3) M	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. Prerequisite: ASL 215.		

## ANTHROPOLOGY

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 PROGRAM REQUIREMENTS

#### Anthropology Major (47-50 units) BA

##### Lower Division Requirements

ANT 225 Cultural Anthropology

##### Methodology Requirements

BEH 255 Foundational Skills in the Behavioral Sciences I  
BEH 256 Foundational Skills in the Behavioral Sciences II  
BEH 333 Epistemology and Worldview  
BEH 383 Statistical Techniques in Behavioral Science with SPSS  
BEH 385 Methods of Research with SPSS

##### 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

**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 Kinship and Family

**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 units)**

Students can also earn a concentration in the following areas by completing the certificate requirements\*\*: Christian Behavioral Science, Cognitive Psychology, Diversity, Industrial and Organizational Psychology, Life Span Development, Religion and Behavior, or Social Work.

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

\*\*Certificate requirements are located in the Academic Program section of the catalog by certificate title.

**Anthropology Minor (21 units)****Lower Division Requirements**

- 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

**Anthropology Certificate**

The Anthropology 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 anthropology designed for students with a major outside the School of Behavioral Sciences who wish to supplement their academic interest or goals.

**Certificate Requirements (12 units)**

- ANT 325 Physical Anthropology and Archaeology
- ANT 340 Theory in Anthropology
- ANT 350 Language and Culture
- ANT 460 Religion and Culture

**Anthropology Course Descriptions**

- |         |   |              |
|---------|---|--------------|
| ANT 200 | Special Topics in Anthropology (3)<br>An in-depth seminar on a selected topic within Anthropology. Course is repeatable for credit with a change in topic. Prerequisite: ANT 225 or BEH 100.  | As offered   |
| ANT 225 | Cultural Anthropology (3) M<br>A general survey of Cultural Anthropology as a social science, including cultural factors that affect human behavior. Topics include language, kinship, art, religion, subsistence, and cultural change. This course or BEH 100 is a prerequisite for all other courses in Anthropology.   | Fall, Spring |
| ANT 325 | Physical Anthropology and Archaeology (3) M<br>A general survey of Physical Anthropology, including genetics, human variability, primatology and fossil man with special emphasis on the creation/evolution controversy. Methods and techniques of archaeology are also taught as they relate to both physical and cultural anthropology. Prerequisite: ANT 225 or BEH 100. | Spring       |
| ANT 340 | Theory in Anthropology (3) M<br>An overview and examination of anthropological theory in historic context. This addresses theory of Culture as the main focus but includes Archeological theory and perspectives from Physical and Linguistic anthropology. Prerequisite: ANT 225 or BEH 100.   | Fall         |

## Academic Programs

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ANT 350	<b>Language and Culture (3) M</b> 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. Prerequisite: ANT 225 or BEH 100.	Spring
ANT 360	<b>Globalization and Culture (3) M</b> This course is designed for students to understand and interact with their diverse world through the study of globalization. Topics will globalization as evidenced in: identity and ethnic study, immigration and migration movements, world economics and subsistence (poverty and wealth), intercultural and cross cultural lifestyles (cultural universals, gender roles, kinship), shared world religions and the means through which these aspects of globalization are shared (media, world economy). Finally, students will consider how and why the anthropological study of globalization is critical to engage in various academic and professional disciplines. Students will also learn various anthropological theories regarding the process of globalization and its significant effects. Prerequisite: ANT 225 or BEH 100.	Spring
ANT 399	<b>Independent Study (3)</b> An opportunity for students who have demonstrated the ability to do independent work to pursue in depth a topic of particular interest. Prerequisite: ANT 225 or BEH 100.	
ANT 400	<b>Special Topics in Anthropology (3) M</b> An in-depth seminar on a selected topic within Anthropology. Course is repeatable for credit with a change in topic. Prerequisite: ANT 225 or BEH 100.	As offered
ANT 410	<b>Economic and Political Anthropology (3) I, M</b> This course is designed for students to understand cultural systems of subsistence 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 shape their own views of cultural groups and the extent to which they employ these patterns of culture. Students will also explore the roles and obligations assigned to individuals within various economic and political systems. Prerequisite: ANT 225 or BEH 100.	Spring
ANT 430	<b>Culture and Personality (3) M</b> An examination of the interaction between personal patterns of behavior and social influences; consideration of the environment/heredity issue in human life. Prerequisite: ANT 225 or BEH 100.	Fall
ANT 440	<b>Internship in Anthropology (3)</b> This course is practical application of basic anthropological principles in community or campus responsibilities under professional supervision. Pass/Fail. Prerequisites: ANT 225 and permission of the Dean of the School of Behavioral Science.	As offered
ANT 450	<b>Family and Gender Studies (3) M</b> This course is designed for students to understand and interact with a diversity of kinship systems, both modern and historic. Focusing on case studies and theoretical perspectives in anthropology regarding kinship, students will explore the meaning of family and the role it plays throughout the world. Using the comparative perspective (ethnology), students will shape their perspectives about family through the exploration of cultural groups and the extent to which they employ kinship. Students will also explore the rights and obligations assigned to individuals within various family systems. Prerequisite: ANT 225 or BEH 100.	Fall
ANT 460	<b>Religion and Culture (3) M</b> An overview of religion and its relationship to worldview, faith and practice. This course examines how religious beliefs affect all other aspects of culture and the impact of religion in a cross cultural or multi-cultural context. Prerequisite: ANT 225 or BEH 100.	Fall

## APPLIED STATISTICAL ANALYSIS (also see Statistics)

A mathematical statistics focus aimed at preparing individuals to pursue careers as academicians, data miners and data scientists.

### TRADITIONAL PROGRAM REQUIREMENTS

#### Applied Statistical Analysis Major (66-69 units) BS

##### Lower Division Requirements

CIS	268	Computer Programming Languages
MAT	245	Analytical Geometry and Calculus I
MAT	255	Analytical Geometry and Calculus II
STA	144	Introduction to Statistics
STA	205	Applied Linear Regression
STA	210	Statistical Computing I
STA	211	Statistical Computing II

##### Upper Division Requirements

MAT	303	Linear Algebra with Applications to Differential Equations
MAT	343	Multivariable Calculus
MAT	353	Probability and Statistics
STA	303	Research and Experimental Design
STA	305	Sampling and Survey Methodology
STA	310	Mathematical Statistics I
STA	311	Mathematical Statistics II
STA	499	Capstone

##### Concentration Courses (19-21 Units)

Students must complete all of the requirements in one of the following concentrations:

Actuarial Science; Biostatistics; Chemical Analysis; Public Health

##### Actuarial Science (19 units)

BUS	217	Microeconomics
BUS	218	Macroeconomics
BUS	356	Business Communication
STA	320	Financial Mathematics I
STA	321	Financial Mathematics II
STA	470	Seminar in Financial Mathematics
STA	480	Seminar in Probability and Statistics

##### Biostatistics (20 units)

BIO	146	General Biology I with Lab
BIO	148	General Biology II with Lab
Complete twelve (12) additional units from the following:		
BIO	302	Ecology with Lab
BIO	305	Microbiology with Lab
BIO	313	Genetics
BIO	330	Cell and Molecular Biology with Lab
BIO	489	Immunology and Molecular Pathogenesis

##### Chemical Analysis (20-21 units)

CHE	115	General Chemistry I with Lab
CHE	125	General Chemistry II with Lab
CHE	230	Introduction to Molecular Modeling
CHE	321	Analytical Chemistry with Lab
Complete two (2) additional courses from the following:		
CHE	415	Physical Chemistry I
CHE	470	Instrumental Analysis
ENV	360	Environmental Chemistry with Lab

##### Public Health (21 units)

HSC	104	Survey of U.S. Healthcare Delivery
HSC	210	Ethics in Healthcare
HSC	305	Epidemiology
HSC	306	Pathophysiology for Public Health
HSC	420	Healthcare Policy
HSC	460	Planning and Evaluating Health Education Programs
HSC	480	Research Methods

## APPLIED STATISTICS

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

### TRADITIONAL PROGRAM REQUIREMENTS

#### Applied Statistics Major (53-62 units) BA

##### Lower Division Requirements

CIS 268	Computer Programming Languages
MAT 245	Analytical Geometry and Calculus I
MAT 255	Analytical Geometry and Calculus II
STA 144	Introduction to Statistics
STA 205	Applied Linear Regression
STA 210	Statistical Computing I

##### Upper Division Requirements

MAT 303	Linear Algebra with Applications to Differential Equations
MAT 353	Probability and Statistics
STA 303	Research and Experimental Design
STA 310	Mathematical Statistics I
STA 499	Capstone

##### Concentration Courses (18-27 Units)

Students must complete all of the requirements in one of the following concentrations:

Global Development; Quantitative Business Methods

##### Global Development (18 units)

BUS 218	Macroeconomics
CST 425	Christian Social Ethics
ICS 105	Introduction to Global Studies
ICS 375	Current Events and Movements
ICS 405	Marketplace Strategies for Global Advancement
POL 454	International Organizations

Additional recommended course: POL 415

##### Quantitative Business Methods (27 units)

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
BUS 334	International Business
BUS 358	Business Law
BUS 463	Business and Organizational Management
MKT 333	Principles of Marketing

Additional recommended course: CIS 270

#### Applied Statistics Minor (29 units)

##### Lower Division Requirements

MAT 245	Analytical Geometry and Calculus I
MAT 255	Analytical Geometry and Calculus II
STA 144	Introduction to Statistics
STA 205	Applied Linear Regression
STA 210	Statistical Computing I

##### Upper Division Requirements

MAT 353	Probability and Statistics
STA 303	Research and Experimental Design
STA 305	Sampling and Survey Methodology
STA 310	Mathematical Statistics I



## APPLIED THEOLOGY

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 PROGRAM REQUIREMENTS

#### Applied Theology Degree (124 units) BAT

##### General Education Courses

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 Courses (24 units)

APT 192	Introduction to Ministry
APT 193	Ministry Observation
APT 292	Introduction to 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
ICS 205	Models of Discipleship

##### Biblical Language Requirement (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 Hebrew I
HEB 323	Intermediate Hebrew II

##### Upper Division Courses (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 490	Reading Seminar
APT 492	Supervised Church Ministry Internship IV
APT 493	Senior Project
CST 300	History of Baptist Thought
CST 350	Biblical Interpretation
CST 360	Church History
CST 382	Evangelism
CST 412	Special Topics in Theology (3 units)
CST 451	Biblical Preaching
ICS 305	Global Perspectives
ICS 435	Church Planting

## Academic Programs

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### Applied Theology Course Descriptions

APT 192	<b>Introduction to Ministry (2) M</b> This course is an introduction to the ministry requirements and expectations of the Bachelor of Applied Theology program. Emphasis is given to spiritual formation for ministry and the basic biblical functions of the church. Prerequisite: Bachelor of Applied Theology major.	Fall
APT 193	<b>Ministry Observation (2) M</b> Building on APT 192, this course introduces students to a variety of churches and approaches to ministry. Emphasis is given to on site church visits and interaction with pastors. Prerequisite: APT 192.	Spring
APT 292	<b>Introduction to Pastoral Ministry (3) M</b> 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 pastors 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. Prerequisite: APT 193.	Fall
APT 293	<b>Supervised Church Ministry Internship I (2) M</b> A more intensive application of APT 292 in the Applied Theology program. The student will progressively have opportunity to focus on the accomplishment of ministry in a specific ministry context, while continuing to integrate various elements of a semester's study. Prerequisite: APT 292.	Spring
APT 352	<b>The Pastor as Worship Leader (3)</b> The Pastor as Worship Leader is a study of the role of the pastor as it applies to the facilitation of worship in the local church. Emphasis will be given to the theology, history, purpose, function, and application of worship, various musical/ministry styles of corporate worship, practical worship ministry and leadership structures, and an empathetic examination of the worship artist/musician/leader.	Spring
APT 365	<b>Doctrine of the Church (3)</b> 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.	Fall
APT 371	<b>Christian Theology I (3)</b> An expanded study of the biblical doctrines of God, humanity, and sin. Prerequisite: Bachelor of Applied Theology or Christian Studies major.	Fall
APT 372	<b>Christian Theology II (3)</b> An expanded study of the biblical doctrines of salvation, the person of Christ, the church, and last things. Prerequisite: Bachelor of Applied Theology or Christian Studies major.	Spring
APT 392	<b>Supervised Church Ministry Internship II (2)</b> A more intensive application of APT 293 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. Prerequisite: APT 293.	Fall
APT 393	<b>Supervised Church Ministry Internship III (2)</b> A more intensive application of APT 392 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/teaching of the Bible. Prerequisite: APT 392	Spring
APT 452	<b>Advanced Biblical Preaching (3)</b> 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. Prerequisite: CST 451.	Fall
APT 482	<b>Pastoral Leadership (3)</b> Pastoral Leadership is an intensive study of the leadership role of the pastor in relation to the nature of the church, leadership models, leadership challengers, and practical leadership strategies.	Spring
APT 490	<b>Reading Seminar (3)</b> This course seeks to help advanced theology students focus their attention on major figures, writings, and doctrines in theology. The student will read a major work (or excerpts) of representative theologians such as Augustine, Martin Luther, John Calvin, Jonathan Edwards, Dietrich Bonhoeffer, Carl Henry, and John Stott. Particular attention will be given to the writings, teachings, influence, as well as the theological systems linked to each theologian.	Fall

APT 492	<b>Supervised Church Ministry Internship IV (2)</b> A more intensive application of APT 393 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. Prerequisite: APT 393.	Fall
APT 493	<b>Senior Project (3)</b> A more intensive application of APT 492 in the Applied Theology program. The student will progressively have opportunity to focus on the accomplishment of ministry in a specific ministry context, while continuing to integrate various elements of a semester's study. Prerequisite: APT 492.	Spring

## ARCHITECTURE

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.

### TRADITIONAL PROGRAM REQUIREMENTS

#### Architecture Major (94 units) BA

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.

##### Lower Division Requirements

ARC 205	Introduction to the Profession
ARC 210	Design Studio I: Spatial Constructs
ARC 212	Design Studio II: Programmatic Types
ARC 220	Computer Modeling
ARC 240	Architectural History I
ARC 242	Architectural History II
ARC 290	Statics and Strength of Materials
DES 110	Design Thought Foundations I
DES 112	Design Thought Foundations II
DES 120	2D Visual Expression
DES 122	3D Visual Expression
EGR 254	Materials Engineering
MAT 245	Analytical Geometry and Calculus I
PHY 115	Physics for Architects with Lab

##### Upper Division Requirements

ARC 310	Design Studio III: Architecture in the City
ARC 312	Design Studio IV: Housing
ARC 350	Architectural Theory I
ARC 380	Thermal Environmental Systems
ARC 385	Luminous and Sonic Environmental Systems
ARC 390	Structural Analysis
ARC 392	Advanced Structural Systems
ARC 410	Design Studio V: Comprehensive Studio
ARC 412	Design Studio VI: Topic Studio
BUS 357	Small Business Management

##### Upper Division Elective Requirement

Complete three (3) units from the following:

ARC 400	Special Topics in Architecture
ARC 420	Digital Fabrication
ARC 432	Special Topics in Architecture History
ARC 434	Southern California Modernism
ARC 438	Architectural Photography
ARC 450	Architectural Theory II
ARC 460	Seminar Aboard
ARC 462	Architecture and Urbanism Abroad
ARC 491	Architecture Internship

## Academic Programs

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### Master of Architecture (171-173 units) MArch

Students must meet the Qualification to Proceed to the Master of Architecture Degree requirements to declare and enroll in the graduate level of the Master of Architecture degree program. California Baptist University, College of Architecture, Visual Arts, and Design was granted candidacy for the Masters in Architecture professional degree program by the National Architectural Accrediting Board (NAAB). For additional NAAB accreditation information please see the College of Architecture, Visual Arts and Design section of the catalog.

#### General Education Courses

The general education requirements will follow the curriculum set forth for other university programs. Some general education requirements will be met through specific architecture major requirements. All university general education competency requirements must be met before beginning the program outlined below.

#### Lower Division Requirements (49 units)

ARC 205	Introduction to the Profession
ARC 210	Design Studio I: Spatial Constructs
ARC 212	Design Studio II: Programmatic Types
ARC 220	Computer Modeling
ARC 240	Architectural History I
ARC 242	Architectural History II
ARC 290	Statics and Strength of Materials
DES 110	Design Thought Foundations I
DES 112	Design Thought Foundations II
DES 120	2D Visual Expression
DES 122	3D Visual Expression
EGR 254	Materials Engineering
MAT 245	Analytical Geometry and Calculus I
PHY 115	Physics for Architects with Lab

#### Upper Division Requirements (52 units)

ARC 310	Design Studio III: Architecture in the City
ARC 312	Design Studio IV: Housing
ARC 350	Architectural Theory I
ARC 380	Thermal Environmental Systems
ARC 385	Luminous and Sonic Environmental Systems
ARC 390	Structural Analysis
ARC 392	Advanced Structural Systems
ARC 410	Design Studio V: Comprehensive Studio
ARC 412	Design Studio VI: Topic Studio
ARC 420	Digital Fabrication
ARC 460	Seminar Abroad
ARC 462	Architecture and Urbanism Abroad
ARC 491	Architecture Internship (1 unit)
BUS 357	Small Business Management

#### Graduate Level Requirements (24 units)

ARC 510	Design Studio VII: Topic Studio
ARC 511	Thesis Research and Preparation
ARC 512	Thesis Studio
ARC 570	Professional Practice
ARC 580	Advanced Sustainable Systems
BUS 506	Entrepreneurship: The New Venture

#### Graduate Level Electives (6 units)

Complete six (6) units from the following:

ARC 500	Special Topics in Architecture
ARC 531	History of Landscape Architecture
ARC 532	Landscape Interventions
ARC 535	Modern Architecture
ARC 536	Architecture of Cities
ARC 560	Directed Design Research

## Architecture Course Descriptions

ARC 205	<b>Introduction to the Profession (1)</b> The purpose of this course is to make students familiar with the inner-workings of the profession of architecture. Students will be introduced to how a professional office functions, expectations for graduates entering the profession, and the expectations of the required internship experience. Students will visit architectural offices, hear from various professionals, be exposed to the standards of the profession and led through how to look for a job with such exercises as mock interviews. Topics include: resume and portfolio creation, finding an internship, internship assessment, the psychology of the workplace, different types of management structures and work environments, and collaboration. Prerequisite: Sophomore and Architecture Major.	Spring
ARC 210	<b>Design Studio I: Spatial Constructs (6)</b> 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. Prerequisites: DES 110, 120, 112, and 122.	Fall
ARC 212	<b>Design Studio II: Programmatic Types (6)</b> 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. Prerequisite: ARC 210.	Spring
ARC 220	<b>Computer Modeling (3) I</b> 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. Prerequisite: DES 110.	Spring
ARC 240	<b>Architectural History I (3)</b> 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.	Fall
ARC 242	<b>Architectural History II (3)</b> 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. Prerequisite: ARC 240.	Spring
ARC 290	<b>Statics and Strength of Materials (3)</b> The course focuses on the fundamentals of engineering mechanics, such as forces and moments, free-body diagrams, equilibrium, centroid of areas, and moments of inertia. It also covers introduction of stress and strain, stress transformations, analysis of stresses, strain, and deflections in axial members and torsional shafts. Prerequisite: MAT 145 or 245.	Fall
ARC 310	<b>Design Studio III: Architecture in the City (6)</b> The studio focuses on conceptualization and implementation of architectural ideas in response to the human experiences, human needs and human diversity of cities. Emphasis will be placed on architectural design as an interpretation and accommodation of various human activities through the exploration of program, perception, scale and proportion, and safety and accessibility requirements. Students will continue to develop the design processes introduced in previous studios. Prerequisites: ARC 212 and 220.	Fall
ARC 312	<b>Design Studio IV: Housing (6)</b> 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. Prerequisite: ARC 310.	Spring
ARC 350	<b>Architectural Theory I (3)</b> 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. Prerequisite: ARC 242.	Fall
ARC 380	<b>Thermal Environmental Systems (3)</b> 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.	Fall

## Academic Programs

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ARC 385	<b>Luminous and Sonic Environmental Systems (3)</b> 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.	Spring
ARC 390	<b>Structural Analysis (3)</b> Introduction to structural analysis. Application of fundamental analysis concepts to the behavior of architectural structures and structural components. Analysis of statically determinate structures using algebraic and graphical methods. Introduction to a typical structural analysis computer programs. Prerequisite: EGR 254 and PHY 115.	Fall
ARC 392	<b>Advanced Structural Systems(3)</b> Principles of structural design of members in steel and concrete. Design of members subject to flexure and compression. Design requirements in strength, stability, and serviceability based on current structural codes and regulations. Prerequisite: ARC 390.	Spring
ARC 400	<b>Special Topics in Architecture (1-3)</b> The course will focus on various studio and lecture courses, which explore and present selected topics in architecture and design. May be repeated for credit with change in topic.	As offered
ARC 410	<b>Design Studio V: Comprehensive Studio (6)</b> The master level 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 the pre-professional portion of the program. 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. Emphasis will be placed on the elaboration of architectural ideas through integration and syntheses of structural, environmental, envelope, building assemblies, life-safety systems and the principles of sustainability. Prerequisite: ARC 312.	Fall
ARC 412	<b>Design Studio VI: Topic Studio (6)</b> The studio promotes the critical, creative and innovative exploration of environmental, human and tectonic factors associated with selected 'real world', community-based architectural and urban design problems, with an emphasis on issues of site design and accessibility. Particular emphasis shall be placed upon the development of interdisciplinary and participatory investigations of regional community issues. Prerequisite: ARC 410.	Spring
ARC 420	<b>Digital Fabrication (3)</b> Students are introduced to advanced representational techniques related to computer aided manufacturing and fabrication. Parallel tutorials, applications, and investigations related to the use of computer technologies focus on current and innovative technologies (CAD, BIM, CAM, etc.) affecting architectural production. Prerequisite: ARC 220.	Spring
ARC 432	<b>Special Topics in Architecture History (3)</b> This course focuses on a different subjects regarding the history of architecture each time it is offered. Designed to provide opportunities to explore, in detail, various aspects of the rich tapestry of the history of mankind as manifested in built form. May be repeated once for credit with change in topic.	As offered
ARC 434	<b>Southern California Modernism (3)</b> An exploration of Southern California's unique contributions to the development and expansion of American modernism through lectures, discussions, guest presenters and field trips.	As offered
ARC 438	<b>Architecture Photography (3)</b> This course introduces Architecture students to the fundamentals of architectural photography. After a grounding in general photographic and visual theory, we will examine the urban and architectural landscape, ultimately focusing on specific concerns in exterior and interior photography. Principles of artificial lighting, color theory and spatial abstraction will be explored along with a general grounding in photo history and criticism.	As offered
ARC 450	<b>Architectural Theory II (3)</b> The course will be selected topics in concepts, philosophy, and models of architecture and allied arts of design with specific application to how these, as seen through a missional, Christian worldview, address 20th Century problems. We will consider how the built environment may have potential for building community and for enhancing engagement with divinely created reality. Discussion of these topics, and subsequent projects, will challenge us to consider our faith-practice in the world described by contemporary philosophers, theorists, Christians, and critics.	As offered
ARC 460	<b>Seminar Abroad (3)</b> The course offers students an opportunity to learn and discuss historical and contemporary European theory and criticism, from Vitruvius and Alberti to contemporary figures. Raises and addresses architectural questions of composition, society, politics, and environment. Offered only abroad. Prerequisite: Junior status.	Fall, Summer

ARC 462	<b>Architecture and Urbanism Abroad (3) I, M</b> The course covers the detailed history of architecture and urban development in the host city, from its founding to the present. Offered only abroad. Prerequisite: Junior status.	Fall, Summer
ARC 491	<b>Architecture Internship (1-3)</b> 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 IDP process. Pass/Fail. Prerequisite: ARC 205.	As offered
ARC 498	<b>Portfolio (3)</b> The course will focus on determining, exploring and executing the appropriate presentation method for the student's collected work, including the thesis, into a professional portfolio. Prerequisites: Senior Status and Permission of the Dean of the College of Architecture, Visual Arts, and Design.	As offered
ARC 500	<b>Special Topics in Architecture (1-3)</b> The course will focus on various studio and lecture courses, which explore and present selected topics in architecture and design. May be repeated for credit with change in topic for a maximum of six (6) units. Prerequisite: Masters of Architecture student.	As offered
ARC 510	<b>Design Studio VII: Topic Studio (6)</b> The master level 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 the pre-professional program. The studio promotes the critical, creative and innovative exploration of environmental, human and tectonic factors associated with selected 'real world', community-based architectural and urban design problems. Particular emphasis shall be placed upon the development of interdisciplinary and participatory investigations of regional community issues. Prerequisite: ARC 412 and Masters of Architecture student.	Fall
ARC 511	<b>Thesis Research and Preparation (3)</b> The thesis option is comprised of two components: a three-credit-hour seminar in the fall term and a six-credit-hour thesis studio in the spring term. The course takes the form of a seminar plus individual tutorials. Each thesis student selects a faculty thesis advisor to work with throughout the year, as well as an outside consultant - a specialist with knowledge of the particular subject matter of the thesis. The prospective thesis student must present a statement of intent along with portfolio examples to a thesis committee for review and acceptance into the thesis studio. Prerequisite: ARC 412 and Masters of Architecture student.	Fall
ARC 512	<b>Thesis Studio (6)</b> Capstone of the studio sequence providing a setting for the exploration and synthesis of specific in-depth topics of personal and professional importance to the individual student that were developed in the thesis preparation course. Prerequisites: ARC 510, 511, and Masters of Architecture student..	Spring
ARC 531	<b>History of Landscape Architecture (3)</b> This broad-ranging course is an introduction to the idea of landscape as cultural phenomenon and the role of the term landscape as a representation of how society views the built world. Prerequisite: Masters of Architecture student.	As offered
ARC 532	<b>Landscape Interventions (3)</b> This seminar critically examines vernacular architecture and the vernacular process on a global scale. The course is organized into two parts. The first set of readings will define vernacular architecture and introduce current historical methodologies for analyzing vernacular sites. The second set of readings introduces a wide variety of examples from the cave homes of central China, to the stilt houses of Dahomey, to the housebarns of Europe and North American, to the wind towers of Iran and the ornamental cottages of Russia. Prerequisite: Masters of Architecture student.	As offered
ARC 535	<b>Modern Architecture (3)</b> This course examines various topics in modern and contemporary Western architecture from roughly 1900 to the present, including major architects, monuments, and stylistic and theoretical movements. We will discuss the history of modern architecture in relation to other artistic media such as painting, sculpture, photography, and film, as well as in relation to technological, cultural, and socioeconomic issues. Prerequisite: Masters of Architecture student.	As offered
ARC 536	<b>Architecture of Cities (3)</b> The seminar is designed as a critical and collective inquiry into theories of urban design in order to develop an in-depth, interdisciplinary approach toward a more meaningful urban design for the future. Prerequisite: Masters of Architecture student.	As offered
ARC 560	<b>Directed Design Research (1-3)</b> Independent design exploration in architecture. Students are required to identify and explore transcendent issues and principles through the discipline of architectural design. May be repeated for credit with change in topic for a maximum of six (6) units. Prerequisite: Masters of Architecture student.	As offered

## Academic Programs

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- ARC 570 Professional Practice (3) Fall  
Advanced seminar that addresses laws and regulation, project process and economics, business practices and management and ethical concerns. Students will critically explore how daily operations of architectural practice are an expression of personal values. Prerequisite: Masters of Architecture student.
- ARC 580 Advanced Sustainable Systems (3) Spring  
This course is an advanced investigation of sustainable design integrated with natural resource conservation. Prerequisite: Masters of Architecture student.

## ARMY ROTC (see Military Science and Leadership)

## ART (see Visual Arts)

## ART HISTORY

### Art History Minor\* (32 units)

#### Lower Division Requirements

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

#### Lower Division Elective Requirement

Complete eight (8) units from the following:

- ART 201 Principles of Design and Color  
ART 204 Basic Drawing  
ART 203 Beginning Printmaking  
ART 225 Fundamentals of Sculpture  
ART 232 Beginning Ceramics  
ART 283 Beginning Painting

#### Upper Division Requirements

- ART 351 Museum Studies  
ART 430 Art and the Bible

#### Upper Division Art History/Theory Elective Requirements

Complete twelve (12) units from the following:

- ART 345 Nineteenth Century Art History  
ART 346 History of Modern Painting  
ART 347 Contemporary Art History  
ART 361 Art of Latin America  
ART 371 Southeast Asian Art  
ART 381 Women in Art  
ART 385 Film as Art/Film as Culture  
ART 412 Topics in Art History

\*Visual Arts majors and minors must complete twelve (12) additional Art History/Theory elective units unique to the Art History minor.

## AVIATION (also see Missionary Aviation)

### Aviation Course Descriptions

- AVN 110 Introduction to Aviation (3) 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.
- AVN 200 Special Topics in General Aviation (3) As offered  
Designed to allow a student to engage in directed in-depth study on issues associated with general aviation. May be repeated once for credit.



AVN 210	<b>Aviation Meteorology (3)</b> 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.	Fall
AVN 300	<b>Aviation Research, Writing and Communication (3)</b> 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.	Fall
AVN 310	<b>Aviation Law and Regulations (3)</b> 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.	Spring
AVN 400	<b>Special Topics in Commercial Aviation (3)</b> Designed to allow a student to engage in directed in-depth study on issues associated with commercial aviation. May be repeated once for credit.	As offered
AVN 450	<b>Cooperative Education I (3)</b> Provides students with opportunities for on-the-job experiences related to academic major. Prerequisite: Permission of the Department Chair. Pass/Fail.	As offered
AVN 451	<b>Cooperative Education II (3)</b> Provides students with opportunities for on-the-job experiences related to academic major. Prerequisite: Permission of the Department Chair. Pass/Fail.	As offered
AVN 490	<b>Internship I (3)</b> Provides students with opportunities for on-the-job experiences related to academic major. Prerequisite: Permission of the Department Chair. Pass/Fail.	As offered
AVN 491	<b>Internship II (3)</b> Provides students with opportunities for on-the-job experiences related to academic major. Prerequisite: Permission of the Department Chair. Pass/Fail.	As offered

## AVIATION DISPATCH

The major is designed for students who desire to become licensed FAA dispatchers. The major meets all requirements of FAA Part 65 and includes courses in regulations, meteorology, navigation, aircraft, communications, air traffic control, emergency and abnormal procedures, and practical dispatch applications.

### TRADITIONAL PROGRAM REQUIREMENTS

#### Aviation Dispatch Major (51 units) BS

##### Lower Division Requirements

AVN 110	Introduction to Aviation
AVN 210	Aviation Meteorology
AMG 111	Theory of Flight
FLT 116	Private Pilot Ground
FLT 119	Instrument Pilot Ground

##### Upper Division Requirements

AVN 300	Aviation Research, Writing, and Communication
AVN 310	Aviation Law and Regulations
AMG 322	Aviation Safety
AMG 324	Aviation Security
DSP 330	Dispatch I
DSP 430	Dispatch II
DSP 497	Dispatch Capstone
FLT 311	Commercial Pilot Ground
FLT 326	Human Factors
FLT 328	Aircraft Systems
FLT 410	Turbine Systems
FLT 420	Crew Resource Management

## Academic Programs

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### Aviation Dispatch Minor\* (30 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 Capstone
FLT	311	Commercial Pilot Ground
FLT	326	Human Factors
FLT	328	Aircraft Systems
FLT	410	Turbine Systems
FLT	420	Crew Resource Management

\*The Aviation Dispatch Minor is only available for Aviation Management Majors.

### Aviation Dispatch Course Descriptions

DSP 330	Dispatch I (3) Provides an introduction to practical dispatch applications, including briefing techniques and preflight. Prerequisites: AMG 111, AVN 210, 310, FLT 311, and 328.	Fall
DSP 430	Dispatch II (3) In-depth study of practical dispatch applications, including preflight, flight departure authorizations, in-flight operational control, and post-flight. With DSP 330, prepares students for the FAA Aircraft Dispatcher Knowledge Test. Prerequisite: DSP 330.	Fall
DSP 497	Dispatch Capstone (3) Senior-level application of practical dispatch knowledge and techniques. Prerequisites: DSP 330, 430, and Senior Status.	Spring

## AVIATION FLIGHT

The major is designed for students who desire to be a commercial pilot. Students will earn the Private Pilot certificate, Commercial Pilot certificate, Instrument rating, Multi-Engine rating, and Certified Flight Instructor, and Multi-Engine Instructor certificates. Students may also choose the optional Missionary Aviation minor to pursue a career in the Mission Aviation field.

### TRADITIONAL PROGRAM REQUIREMENTS

#### Aviation Flight Major (62 units) BS

##### Lower Division Requirements

AVN	110	Introduction to Aviation
AVN	210	Aviation Meteorology
FLT	116	Private Pilot Ground
FLT	117	Private Flight Lab
FLT	119	Instrument Pilot Ground
FLT	120	Instrument Flight Lab
FLT	218	Multi-Engine Pilot Ground
FLT	219	Multi-Engine Flight Lab
FLT	224	Modern Avionics and Navigational Aids
MAT	145	Mathematical Methods in the Natural Sciences
PHY	114	General Physics I with Lab

##### Upper Division Requirements

AVN	300	Aviation Research, Writing, and Communication
AVN	310	Aviation Law and Regulations
FLT	311	Commercial Pilot Ground
FLT	312	Commercial Flight Lab I
FLT	313	Commercial Flight Lab II
FLT	315	Flight Instructor Pilot Ground
FLT	316	Certified Flight Instructor Multi-Engine Instructor Flight Lab
FLT	326	Human Factors
FLT	328	Aircraft Systems
FLT	410	Turbine Systems
FLT	420	Crew Resource Management
FLT	430	Airline Prep
FLT	498	Aviation Flight Capstone

**Optional Concentration in Dispatch (18 units)**

AMG 111	Theory of Flight
AMG 322	Aviation Safety
AMG 324	Aviation Security
DSP 330	Dispatch I
DSP 430	Dispatch II
DSP 497	Dispatch Capstone

**Aviation Flight Course Descriptions**

Required flight lab fees are for planning purposes. Actual flight training costs may vary.

FLT 112	<b>Sport Pilot Ground (3)</b> An in-depth study of the topics necessary to prepare for the Sport Pilot certificate FAA knowledge test.	As offered
FLT 116	<b>Private Pilot Ground (3)</b> 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, and radio/electronic methods of navigation as applied to cross-country flight planning to prepare the student for the FAA private pilot knowledge test.	Fall
FLT 117	<b>Private Flight Lab (1)</b> Flight instruction leading to the Private Pilot Certificate. Additional lab fee. Prerequisite: Permission of the Department Chair. Pre- or Co- requisite: FLT 116.	Fall, Spring, Summer
FLT 119	<b>Instrument Pilot Ground (3)</b> 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. Prerequisites: FLT 116.	Fall, Spring
FLT 120	<b>Instrument Flight Lab (1)</b> Flight instruction leading to completion of instrument rating. Includes basic flight maneuvers, instrument failures, unusual attitude recovery, enroute, and holds. Additional lab fee. Prerequisites: FLT 116, 117, and permission of the Department Chair. Pre- or Co- requisite: FLT 119.	Fall, Spring, Summer
FLT 140	<b>Time Building Flight Lab I (1)</b> Time Building Flight Lab. Additional lab fee. May be repeated one time for credit. Prerequisites: FLT 117 and permission of the Department Chair.	Fall, Spring, Summer
FLT 218	<b>Multi-Engine Pilot Ground (3)</b> An in-depth study of aerodynamics, instruments, engines and systems of multi-engine aircraft. Combined with FLT 219, Multi-Engine Flight Lab, prepares students for the multi-engine rating. Prerequisite: FLT 119.	Fall
FLT 219	<b>Multi-Engine Flight Lab (1)</b> Flight instruction leading to the Federal Aviation Administration (FAA) multi-engine rating. Additional lab fee. Prerequisites: FLT 117, 120 and permission of the Department Chair. Pre- or Co- requisite: FLT 218.	Fall, Spring, Summer
FLT 224	<b>Modern Avionics and Navigational Aids (3)</b> 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.	Spring
FLT 240	<b>Time Building Flight Lab II (1)</b> Time Building Flight Lab. Additional lab fee. May be repeated one time for credit. Prerequisites: FLT 117 and permission of the Department Chair.	Fall, Spring, Summer
FLT 311	<b>Commercial Pilot Ground (3)</b> 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. Prerequisite: FLT 119.	Fall
FLT 312	<b>Commercial Flight Lab I (1)</b> Dual and solo flight and multiple cross-country flights to meet requirements for the Commercial Pilot Certificate. Also includes simulator multi-engine training for the initial commercial/instrument pilot rating. Additional lab fee. Prerequisite: FLT 219 and permission of the Department Chair. Pre- or Co- requisite: FLT 311.	Fall, Spring, Summer

## Academic Programs

FLT 313	<b>Commercial Flight Lab II (1)</b> Flight training preparing the student for the multi-engine commercial/instrument check-ride and the commercial single-engine add on certificate to the commercial certificate. Additional lab fee. Prerequisites: FLT 218, 219, 312, and permission of the Department Chair.	Fall, Spring, Summer
FLT 315	<b>Flight Instructor Pilot Ground (3)</b> 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. Prerequisite: FLT 311.	Spring
FLT 316	<b>Certified Flight Instructor Multi-Engine Instructor Flight Lab (1)</b> Flight instruction leading to the Certified Flight Instructor (CFI) and Multi-Engine Instructor (MEI) credentials. Additional lab fee. Prerequisites: FLT 313 and permission of the Department Chair. Pre- or Co- requisite: FLT 315.	Fall, Spring, Summer
FLT 326	<b>Human Factors (3)</b> 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.	Spring
FLT 328	<b>Aircraft Systems (3)</b> An in-depth study of aircraft systems, including engine, fuel, electric, hydraulic, pneumatic, flight control, and computer systems and displays.	Fall
FLT 340	<b>Time Building Flight Lab III (1)</b> Time Building Flight Lab. Additional lab fee. May be repeated one time for credit. Prerequisites: FLT 117 and permission of the Department Chair.	Fall, Spring, Summer
FLT 410	<b>Turbine Systems (3)</b> An in-depth study of turbine systems and turbine aircraft performance. Prerequisites: FLT 218.	Spring
FLT 418	<b>Certified Flight Instructor Instrument Flight Lab (1)</b> Flight instruction leading to the Certified Flight Instrument Instructor (CFII) certificate. Additional lab fee. Prerequisites: FLT 313, 316 and permission of Department Chair.	Fall, Spring, Summer
FLT 419	<b>Multi-Engine Instructor Pilot Lab (1)</b> Flight instruction leading to the Multi-Engine Instructor certificate. Additional lab fee. Prerequisites: FLT 315, 316, and 418.	As offered
FLT 420	<b>Crew Resource Management (3)</b> 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.	Fall
FLT 421	<b>Mission Aviation (3)</b> An in-depth study of missionary aviation including piloting in third world countries, cross cultural communication, missionary support, raising support, etc.	As Offered
FLT 422	<b>Turbine Transition Lab (1)</b> Flight instruction in turbine-powered aircraft and simulator. Additional lab fee. Prerequisite: FLT 312, 313 and permission of the Department Chair. Pre- or Co- requisite: FLT 410.	As offered
FLT 430	<b>Airline Prep (3)</b> Introduces the students to the policies, procedures, work practices, operating practices, and expectations for pilots in the airline industry.	Fall
FLT 440	<b>Time Building Flight Lab IV (1)</b> Time Building Flight Lab. Additional lab fee. May be repeated one time for credit. Prerequisites: FLT 117 and permission of the Department Chair.	Fall, Spring, Summer
FLT 498	<b>Aviation Flight Capstone (3)</b> Provides a senior culminating experience for aviation flight majors. Prerequisite: Senior Status.	Spring

# AVIATION MANAGEMENT

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, and aviation consulting.

## TRADITIONAL PROGRAM REQUIREMENTS

### Aviation Management Major (60 units) BS

#### Lower Division Requirements

AVN 110	Introduction to Aviation
AMG 111	Theory of Flight
AVN 210	Aviation Meteorology
ACC 250	Principles of Accounting I
CIS 270	Business IT Application
MAT 115	Intermediate Algebra

#### Upper Division Requirements

AVN 300	Aviation Research, Writing and Communication
AVN 310	Aviation Law and Regulations
AMG 320	Fixed Base Operations
AMG 322	Aviation Safety
AMG 324	Aviation Security
AMG 330	Airport Management I
AMG 332	Airport Management II
AMG 423	Airport Planning and Design
AMG 424	Business Aviation Management
AMG 426	Airline Management
AMG 427	Aviation Finance
AMG 442	Aviation Consulting
AMG 499	Aviation Management Capstone
BUS 315	Business Statistics

An optional Aviation Dispatch Minor is available only for Aviation Management Majors. See Aviation Dispatch for the minor requirements.

### Aviation Management Minor (18 Units)

#### Lower Division Requirements

AVN 110	Introduction to Aviation
AMG 111	Theory of Flight

#### Upper Division Requirements

Complete twelve (12) units from the following:

AMG 320	Fixed Base Operations
AMG 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 Management Course Descriptions

AMG 111	Theory of Flight (3) An introduction to aerodynamics, aircraft design, aircraft performance, weight and balance, operating characteristics, engine types, and maintenance. Students will experience flight in an aircraft. Additional lab fee.	Spring
AMG 320	Fixed Base Operations (3) A study of the practical issues associated with managing, operating, and marketing a fixed base operation (FBO).	Fall
AMG 322	Aviation Safety (3) An introduction to the safety regulations, requirements, and environment in the U.S., including an in-depth examination of Safety Management Systems (SMS).	Spring

## Academic Programs

AMG 324	<b>Aviation Security (3)</b> 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.	Fall
AMG 330	<b>Airport Management I (3)</b> An in-depth study of 14 CFR Part 139, Airport certification. Prepares students for the Airport Certified Employee (ACE) Operations exam offered by the American Association of Airport Executives.	Fall
AMG 332	<b>Airport Management II (3)</b> 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. Prerequisite: AMG 330.	Spring
AMG 423	<b>Airport Planning and Design (3)</b> 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 landside design, including ground access, curbside requirements, and traffic flow.	Spring
AMG 424	<b>Business Aviation Management (3)</b> An in-depth study of business aviation, including transportation needs analysis, aircraft acquisition methods, aviation department management, operations, maintenance, and safety.	Fall
AMG 426	<b>Airline Management (3)</b> 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.	Spring
AMG 427	<b>Aviation Finance (3)</b> Introduces aviation-specific financial management principles, including financial document analysis, financial ratios, forecasting, financing, asset management. Uses spreadsheet, presentation, word processing and internet search tools to analyze financial reports, calculate ratios, and solve financial problems.	Fall
AMG 442	<b>Aviation Consulting (3)</b> 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.	Spring
AMG 499	<b>Aviation Management Capstone (3)</b> Provides a senior culminating experience for aviation management majors. Prerequisite: Senior status.	Spring

## BEHAVIORAL SCIENCE

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 PROGRAM REQUIREMENTS

#### Behavioral Science Major (53 units) BA

##### Lower Division Requirements

BEH	100	Survey of Behavioral Science OR SOC 213 OR ANT 225
PSY	213	General Psychology

##### Methodology Requirements

BEH	255	Foundational Skills in Behavioral Sciences I
BEH	256	Foundational Skills in Behavioral Sciences II
BEH	333	Epistemology and Worldview
BEH	383	Statistical Techniques in Behavioral Science with SPSS
BEH	385	Methods of Research with SPSS

**Upper Division Requirements**

ANT	325	Physical Anthropology
ANT	430	Culture and Personality
CBS	350	Development and Discipleship
PSY	320	Life Span Development
PSY	322	Theories of Personality
PSY	346	Abnormal Psychology
SOC	335	Social Problems
SOC	337	Deviant Behavior
SOC	345	Sociology of Diversity
SOC	381	Social Theory

**Optional Concentrations\* (12 units)**

Students can earn a concentration in the following areas by completing the certificate requirements\*\*: Anthropology, Christian Behavioral Science, Cognitive Psychology, Counseling Ministry, Diversity, Industrial and Organizational Psychology, Life Span Development, Psychology, Religion and Behavior, or Social Work.

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

\*\*Certificate requirements are located in the Academic Program section of the catalog by certificate title.

**Behavioral Science Minor (21 units)****General Prerequisites**

ANT	225	Cultural Anthropology or SOC 213
BEH	100	Survey of Behavioral Science
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 Behavioral Science\*

\*Minor students may use elective units toward a Departmental Concentration.

**Behavioral Science Course Descriptions**

BEH 100	Survey of the Behavioral Sciences (3)	Fall, Spring
This course introduces the student to the primary Behavioral Sciences of Anthropology, Psychology, Sociology and Christian Behavioral Sciences. The course addresses human beings and behavior from the distinctive theoretical perspectives of each of these behavioral sciences. General subject areas include theory and methodology of Behavioral Science research, human biology and behavior, personality and human development in a socio-cultural context, behavior in the context of ethics and values, and social and cultural change. This course meets prerequisites for upper division ANT and SOC courses.		
BEH 200	Special Topics in Behavioral Science (1-3)	As offered
An in-depth seminar on a selected topic within the Behavioral Sciences. Course is repeatable for credit with a change in topic.		
BEH 255	Foundational Skills in Behavioral Sciences I (3)	Fall, Spring
This course is an overview of the collection, treatment, and interpretation of data in research and testing. Classroom exercises will not include direct use of SPSS. Prerequisite: MAT 115 or STA 144		
BEH 256	Foundational Skills Behavioral Sciences II (3)	Fall, Spring
Continuing study of the collection, treatment, and interpretation of data in research and testing of the foundational skills in Behavioral Sciences I. In order to complete the course, student will be required to successfully pass the Pre-Statistics Exam. Prerequisite: BEH 255.		
BEH 333	Epistemology and Worldview (3) I	Fall, Spring
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.		
BEH 383	Statistical Techniques in Behavioral Science with SPSS (4)	Fall, Spring
The collection, treatment, and interpretation of data in research and testing using the SPSS (Statistical Package for the Social Sciences). Three hours lecture, three hours lab. Prerequisite: BEH 256.		

## Academic Programs

BEH 385	<b>Methods in Research with SPSS (4)</b> An examination of philosophical assumptions and scientific methodology for both quantitative and qualitative approaches including experimental designs, correlation studies, survey research, interview techniques, naturalistic observation and participant observation. Research issues include design and data analysis with SPSS (Statistical Package for the Social Sciences) computer program, systematic evaluation of practices, and ethical issues related to research. Prerequisite: BEH 383.	Fall, Spring
BEH 399	<b>Independent Study (1-3)</b> An opportunity for students who have demonstrated the ability to do independent work to pursue in depth a topic of particular interest.	
BEH 400	<b>Special Topics in Behavioral Science (1-3)</b> An in-depth seminar on a selected topic within the Behavioral Sciences. Course is repeatable for credit with a change in topic.	As offered

## BIBLE (see Christian Studies)

## BIOCHEMISTRY AND MOLECULAR BIOLOGY

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 PROGRAM REQUIREMENTS

#### Biochemistry and Molecular Biology Major (75 units) BS

##### 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 with Lab
CHE 125	General Chemistry II with Lab
CHE 230	Introduction to Molecular Modeling
MAT 245	Analytical Geometry and Calculus I
MAT 255	Analytical Geometry and Calculus II
PHY 214	Physics for Scientists I with Lab
PHY 224	Physics for Scientists II with 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	Analytical Chemistry 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 Requirements

Complete four (4) units from the following:

BIO 313	Genetics
BIO 440	Pharmacology with Lab
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	Senior Research in Biology (3 units)
	OR
CHE 480	Chemistry Research Seminar
CHE 490	Senior Research in Chemistry (3 units)



## BIOMEDICAL ENGINEERING

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.

### TRADITIONAL PROGRAM REQUIREMENTS

#### Biomedical Engineering Degree (124 units) BSBME

##### 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.

##### Math and Science Unit Requirement

<sup>†</sup>A minimum of thirty two (32) units of Math or Science coursework is required for the degree. Courses in the degree designated with a '†' meet this requirement.

##### Lower Division Core Engineering Requirements (15 units)

EGR 101	Engineering from a Christian Worldview OR EGR 301**
EGR 102	Introduction to Engineering Design
EGR 103	Engineering Service I OR EGR 303**
EGR 121	Introduction to Computer Programming in C++
EGR 122	Visualization Languages I
EGR 192	Engineering Seminar I OR EGR 392**
EGR 202	Worldview Reflection I***

\*\* Junior/Senior transfer students will complete EGR 301, 303, and 392. All other students will complete EGR 102, 103, and 192.

\*\*\* Successful completion of EGR 202 is required for entrance into the Engineering degree program.

##### Upper Division Core Engineering Requirements (14 units)

EGR 302	Engineering Design and Documentation
EGR 304	Leadership Cohort
EGR 305	Engineering Statistics <sup>†</sup>
EGR 306	Internship Preparation
EGR 390	Internship
EGR 401	Capstone Design
EGR 402	Capstone Design Presentation
EGR 403	FE Exam
EGR 404	Worldview Reflection II
EGR 405	Internship Report and Presentation
EGR 406	Senior Portfolio

##### Math and Science Requirements (33-34 units)

BIO 146	General Biology I with Lab <sup>†</sup>
BIO 153	Human Anatomy and Physiology I with Lab <sup>†</sup>
CHE 130	Introduction to Chemistry for Engineers <sup>†</sup> or CHE 115 <sup>†</sup>
EGR 182	Introductory Mathematics for Engineering Applications <sup>†</sup>
EGR 382	Applied Differential Equations and Linear Algebra <sup>†</sup>
MAT 245	Analytical Geometry and Calculus I <sup>†</sup>
MAT 255	Analytical Geometry and Calculus II <sup>†</sup>
PHY 201	Physics for Engineers I with Lab <sup>†</sup>

Three (3) additional approved science units<sup>†\*\*</sup>

\*\* Recommended BIO 148, BIO 313, CHE 125, or PHY 203

##### 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

## Academic Programs

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### Upper Division Biomedical Engineering Requirements (26 units)

EGR 361	Introduction to Biomechanics
EGR 362	Engineering Physiology
EGR 363	Biofluid Mechanics and Relevant Technologies
EGR 364	Bioimaging
EGR 365	Biomedical Engineering Research and Instrumentation
EGR 461	Rehabilitation Engineering
EGR 462	Biomaterials
EGR 464	Neural Engineering

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.

## BIOLOGY

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 PROGRAM REQUIREMENTS

#### Biology Major (63-67 units) BS

##### Lower Division Requirements

BIO 146	General Biology I with Lab
BIO 148	General Biology II with Lab
CHE 115	General Chemistry I with Lab
CHE 125	General Chemistry II with Lab
MAT 145	Mathematical Methods in the Natural Sciences OR MAT 245 Analytical Geometry and Calculus I

##### Lower Division Physics Requirements

Complete a two-semester sequence from the following:

PHY 114	General Physics I with Lab and
PHY 124	General Physics II with Lab
OR	
PHY 214	Physics for Scientists I with Lab and
PHY 224	Physics for Scientists II with Lab

##### Upper Division Requirements

BIO 313	Genetics
BIO 330	Cell and Molecular Biology with Lab
BIO 380	Biology Seminar
BIO 499	Biology Capstone
CHE 351	Organic Chemistry I with Lab
CHE 352	Organic Chemistry II with Lab

##### Concentration Courses (16-20 units)

Students must complete all requirements in one of the following concentrations:

Environmental Science; General Biology; Pre-Medical; 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	Marine Science with Lab

##### General Biology (16 units)

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

**Pre-Medical (20 units\*)**

BIO	305	Microbiology with Lab
BIO	324	Developmental Biology with Lab
BIO	344	Vertebrate Physiology with Lab

Complete eight (8) additional upper division units from the following: BIO 316, 435, 440, 489, CHE 443, 444

\* Additional recommended courses: BIO 153, 163

**Secondary Biology Education\* (18 units)**

BIO	114	General Botany with Lab
BIO	302	Ecology with Lab
BIO	344	Vertebrate Physiology with Lab
PHY	113	Astronomy
PSC	151	Introduction to the Geosciences

**Biology Minor (27 units)****Lower Division Requirements**

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

**Upper Division Requirements**

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

**Pre-Medical Sciences Curriculum****Required Courses\***

BIO	146	General Biology I with Lab
BIO	148	General Biology II with Lab
CHE	115	General Chemistry I with Lab
CHE	125	General Chemistry II with Lab
CHE	351	Organic Chemistry I with Lab
CHE	352	Organic Chemistry II with Lab
MAT	245	Analytical Geometry and Calculus I
Complete a two-semester sequence from the following:		
PHY	114	General Physics I with Lab and
PHY	124	General Physics II with Lab

OR

PHY	214	Physics for Scientists I with Lab and
PHY	224	Physics for Scientists II with Lab

\*Each medical school has specific admissions requirements which may deviate from this list.

**Recommended Courses**

BIO	153	Anatomy and Physiology I with Lab
BIO	163	Anatomy and Physiology II with Lab
BIO	313	Genetics
BIO	330	Cell and Molecular Biology with Lab
CHE	443	Biochemistry I with Lab
STA	144	Introduction to Statistics

**Optional Courses:**

BIO	173	Medical Terminology
BIO	316	Comparative Anatomy with Lab
BIO	324	Developmental Biology with Lab

## Academic Programs

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### Biology Course Descriptions

BIO 101	<b>Orientation to the Discipline (1)</b> 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. Pass/Fail.	<b>As offered</b>
BIO 114	<b>General Botany with Lab (4)</b> 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. Lecture (3 units) and required laboratory (1 unit). Additional lab fee.	<b>Spring</b>
BIO 143	<b>Principles of Biology (3)</b> 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.	<b>Fall, Spring</b>
BIO 143L	<b>Principles of Biology Lab (1)</b> Laboratory exercises in biology emphasizing basic scientific principles used in biology. Additional lab fee. Pre- or Co-requisite: BIO 143.	<b>Fall, Spring</b>
BIO 146	<b>General Biology I with Lab (4)</b> Topics covered include cell structure and function, genetics, reproduction and development of animal systems. Lecture (3 units) and required laboratory (1 unit). Additional lab fee.	<b>Fall, Spring</b>
BIO 148	<b>General Biology II with Lab (4)</b> Includes organismal biology of animals and plants, their behavior, ecology, evolution and adaptations. Lecture (3 units) and required laboratory (1 unit). Additional lab fee.	<b>Fall, Spring</b>
BIO 153	<b>Anatomy and Physiology I with Lab (4)</b> 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. Correlated by laboratory experience and demonstration. Lecture (3 units) and required laboratory (1 unit). Additional lab fee.	<b>Fall, Spring</b>
BIO 163	<b>Anatomy and Physiology II with Lab (4)</b> 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. Lecture (3 units) and required laboratory (1 unit). Additional lab fee. Prior completion of BIO 153 is recommended.	<b>Fall, Spring</b>
BIO 173	<b>Medical Terminology (3) I</b> 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.	<b>Fall, Spring</b>
BIO 200	<b>Topics in Biology (1-4)</b> 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.	
BIO 204	<b>Microbiology for Engineers (2)</b> 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. Additional lab fee. Prerequisite: CHE 115 or 130.	<b>Fall</b>
BIO 205	<b>Human Microbiology with Lab (4)</b> A study of microorganisms with special emphasis on bacteria and viruses in the human environment. Lecture (3 units) and required laboratory (1 unit). Additional lab fee.	<b>Fall, Spring</b>
BIO 302	<b>Ecology with Lab (4)</b> The study of the interrelations of plants and animals in relation to the environment. Field study and local ecology are emphasized. Additional lab fee. Prerequisite: BIO 114, 143, or 146.	<b>Spring (even years)</b>

BIO 305	<b>Microbiology with Lab (4)</b> 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. Lecture (3 units) and required laboratory (1 unit). Additional lab fee. Prerequisite: BIO 146 or 153. Recommended: High school Chemistry or CHE 102.	Fall, Spring
BIO 313	<b>Genetics (4)</b> 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. Prerequisite: BIO 146	Fall, Spring
BIO 316	<b>Comparative Anatomy with Lab (4)</b> A comparative study of the functional anatomy of the vertebrates; laboratory dissection of representative vertebrates (spiny dogfish, mud puppy, cat). Lecture (3 units) and required laboratory (1 unit). Additional lab fee. Prerequisite: BIO 148.	Fall
BIO 324	<b>Developmental Biology with Lab (4)</b> Descriptive and experimental study of the vertebrate embryonic development. Lecture (3 units) and required laboratory (1 unit). Additional lab fee. Prerequisite: BIO 146.	Fall, Spring
BIO 330	<b>Cell and Molecular Biology with Lab (4)</b> 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. Lecture (3 units) and required laboratory (1 unit). Additional lab fee. Prerequisite: BIO 146 and 148. Recommended: CHE 125.	Fall, Spring
BIO 344	<b>Vertebrate Physiology with Lab (4)</b> Principles of physiology and the function of vertebrate organ systems with emphasis on human. Lecture (3 units) and required laboratory (1 unit). Additional lab fee. Prerequisites: BIO 148, CHE 115.	Spring
BIO 380	<b>Biology Seminar (1)</b> 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. Prerequisite: Biology major.	Fall, Spring
BIO 399	<b>Independent Study (3)</b> An opportunity for students who have demonstrated the ability to do independent work to pursue in depth a topic of particular interest.	
BIO 400	<b>Invertebrate Zoology with Lab (4)</b> Particular attention is given to taxonomy, morphologic adaptations, ecology, reproduction, and evolutionary relationships of invertebrates. Lecture (3 units) and required laboratory (1 unit). Additional lab fee. Prerequisite: BIO 146 or 148.	As offered
BIO 412	<b>Topics in Biology (1-4)</b> 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.	
BIO 430	<b>Laboratory Techniques in Molecular Biology (2)</b> 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. Additional lab fee. Prerequisites: BIO 330 and CHE 443.	Spring (even years)
BIO 435	<b>Proteomics, Genomics, and Bioinformatics with Lab (4)</b> 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. Additional lab fee. Prerequisite: BIO 330. Pre- or Co- requisite: 430.	Spring (even years)

## Academic Programs

BIO 440	<b>Pharmacology with Discussion (4)</b> 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 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. Prerequisites: BIO 146, 148, 330, 344, and CHE 352.	Fall
BIO 489	<b>Immunology and Molecular Pathogenesis with Lab (4)</b> 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. Additional lab fee. Prerequisites: BIO 146 and 148. Recommended: BIO 305 and 330.	Spring
BIO 490	<b>Senior Research in Biology (1-4)</b> This class focuses on laboratory research projects and topics of current or historical interest that are not normally covered in other established courses. Content vary from year to year, and determined by both instructor and student's interest. May be repeated for up to 4 total units. Prerequisite: BIO 148; junior status; permission of the Department Chair.	
BIO 491	<b>Internship in Biology (1-4)</b> 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. May be repeated for up to 6 total units of credit. Prerequisite: Biology major and junior or senior standing.	
BIO 499	<b>Biology Capstone (2)</b> 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. Pre- or Co- requisite: BIO 380.	Fall, Spring

## BUSINESS ADMINISTRATION

The Business Administration major prepares students for leadership in small and large businesses, not-for-profit and governmental organizations, and entrepreneurial enterprises.

### TRADITIONAL PROGRAM REQUIREMENTS

#### Business Administration Major (57 units) BS

##### Lower Division 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 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
BUS	498	Senior Exit Exam
MKT	333	Principles of Marketing

**Concentration Courses (12 units)**

Students must complete all requirements in one of the following concentrations:

Entrepreneurship; Finance; International Business; Management; or Social Entrepreneurship

**Entrepreneurship (12 units)**

- BUS 357 Small Business Management
- BUS 361 Entrepreneurial Opportunity Analysis
- BUS 366 The Entrepreneur

Complete three (3) additional units from the following: BUS 362, 374, 435, 464, 491

**Finance (12 units)**

- BUS 304 Financial Analysis and Forecasting
- BUS 324 Intermediate Business Finance

Complete six (6) additional units from the following: BUS 373, 374, 423, 474

**International Business (12 units)**

- BUS 444 International Marketing
- BUS 454 International Management
- BUS 474 International Business Finance
- ICS 430 Intercultural Communications

**Management (12 units)**

Complete twelve (12) additional units from the following:

- BUS 343 Human Resource Management
- BUS 356 Business Communication
- BUS 357 Small Business Management
- BUS 361 Entrepreneurial Opportunity Analysis
- BUS 362 Social Entrepreneurship
- BUS 366 The Entrepreneur
- BUS 435 Leadership in Organizations
- BUS 454 International Management
- BUS 464 Family Business Management
- BUS 475 Project and Team Management
- BUS 491 Internship in Business

**Social Entrepreneurship (12 units)**

- BUS 361 Entrepreneurial Opportunity Analysis
- BUS 362 Social Entrepreneurship
- BUS 363 Microfinance
- BUS 491 Internship in Business or ICS 375 Current Events and Movements

**Business Administration Minor (21 units)****Lower Division Requirements**

- ACC 250 Principles of Accounting I
- BUS 101 Introduction to Business
- BUS 217 Microeconomics OR BUS 218 Macroeconomics
- BUS 237 Management Based on Biblical Principles

**Upper Division Requirements**

- BUS 303 Business Finance OR BUS 357 Small Business Management
- BUS 358 Business Law
- MKT 333 Principles of Marketing

**Business Administration Course Descriptions**

- |         |  |              |
|---------|--|--------------|
| BUS 101 | Introduction to Business (3)<br>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. | Fall, Spring |
| BUS 200 | Special Topics in Business (3)<br>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.  | As offered   |

## Academic Programs

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BUS 212	<b>Economics, Life and Society (3)</b> 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.	Fall, Spring
BUS 217	<b>Microeconomics (3)</b> 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.	Fall, Spring
BUS 218	<b>Macroeconomics (3)</b> 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.	Fall, Spring
BUS 237	<b>Management Based on Biblical Principles (3) I</b> 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.	Fall, Spring
BUS 303	<b>Business Finance (3)</b> 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. Prerequisite: ACC 250 or 350 and CIS 270.	Fall, Spring
BUS 304	<b>Financial Analysis &amp; Forecasting (3)</b> 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. Prerequisites: BUS 303 and 315.	Spring
BUS 306	<b>Real Estate Development (3)</b> 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.	As offered
BUS 315	<b>Business Statistics (3)</b> 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. Prerequisites: CIS 270 and MAT 115, 123 or higher, or STA 144.	Fall, Spring
BUS 323	<b>Personal Financial Management (3)</b> Covers budgeting, credit buying, borrowing, saving, insurance, buying a home, taxes, investment, estate planning, retirement and consumer economics.	As offered
BUS 324	<b>Intermediate Business Finance (3)</b> An overview of long-term financing topics intended to prepare the student 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/return models, valuation of securities, capital budgeting, and capital structure decisions. Prerequisite: BUS 303.	Fall
BUS 334	<b>International Business (3)</b> 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.	Fall, Spring
BUS 337	<b>Management with Biblical Foundation (3) I</b> 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.	Online and Professional Studies



BUS 343	<b>Human Resource Management (3)</b> 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.	Spring (even years)
BUS 349	<b>Communication Strategy in Management (3)</b> A study of communication theory applied to organizational management and leadership. Students will develop, practice, and apply skills and techniques of communication strategy essential to external and inter-organizational communication; interpersonal and group communication; and written and oral communication.	Online and Professional Studies
BUS 356	<b>Business Communication (3)</b> This course emphasizes individual, interpersonal and intercultural communication concepts. Special emphasis is placed on the various functions of communication concepts in a business environment.	Fall (even years)
BUS 357	<b>Small Business Management (3)</b> 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.	Fall
BUS 358	<b>Business Law (3)</b> This course covers the law of sales, employment, contracts, negotiable instruments, agency and partnerships, corporations, insurance, real and personal property, estates, and bankruptcy.	Fall, Spring
BUS 359	<b>Intellectual Property Law (3)</b> 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.	As offered
BUS 361	<b>Entrepreneurial Opportunity Analysis (3)</b> In this course, students will learn to recognize the difference between ideas and opportunities, and how to identify, gather, and analyze the information needed for evaluating the likely commercial success of business concepts and ideas. The course is also suitable to non-business majors to learn how to evaluate an idea in their field or discipline as a potential entrepreneurial opportunity.	Spring (even years)
BUS 362	<b>Social Entrepreneurship (3)</b> 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.	Spring
BUS 363	<b>Microfinance (3)</b> 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.	Spring (odd years)
BUS 366	<b>The Entrepreneur (3)</b> An examination of the practices and characteristics of the successful entrepreneur. The course adopts the perspective that entrepreneurship is a practice best learned from practitioners. Thus, much of the course involves successful entrepreneurs presenting to the class to illustrate what is known empirically about the behavior, motivation, skills and characteristics of successful entrepreneurs. The course applies concepts at an introductory level from the sub-fields of behavioral economics and social psychology, and does not require prior preparation in economics, so it is open to all students regardless of major or class standing.	Spring
BUS 373	<b>Commercial Banking &amp; Financial Markets (3)</b> This course focuses on developing an understanding of commercial banking and the specific financial management issues associated with the banking industry. Topics covered include the role of financial markets and institutions, interest rates and federal monetary policy, commercial bank operations, regulatory issues, and bank management and performance criteria. Prerequisite: BUS 303.	Spring (odd years)
BUS 374	<b>Entrepreneurial Finance (3)</b> 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 & 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. Prerequisite: BUS 303.	Fall (even years)

## Academic Programs

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BUS 398	<b>Study Abroad (3)</b> Under faculty supervision, the student will study abroad in a business emphasis area. This an opportunity for students to learn business principles in a non-U.S. setting and to explore varying world views. Prerequisite: Permission of the Dean of the School of Business.	As offered
BUS 399	<b>Independent Study (3)</b> 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.	
BUS 400	<b>Special Topics in Business (3)</b> 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 for a maximum of 12 units.	As offered
BUS 423	<b>Investments (3)</b> 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 / 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 simulation throughout the course. Prerequisite: BUS 324.	Spring (even years)
BUS 435	<b>Leadership in Organizations (3)</b> 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.	Spring
BUS 440	<b>Quantitative Business Analysis (3)</b> 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. Prerequisite: BUS 315.	Fall, Spring
BUS 444	<b>International Marketing (3)</b> 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. Prerequisite: BUS 334 and MKT 333.	Fall
BUS 454	<b>International Management (3)</b> 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. Prerequisite: BUS 334.	Spring
BUS 463	<b>Business and Organizational Management (3)</b> 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.	Fall, Spring
BUS 464	<b>Family Business Management (3)</b> 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.	Spring
BUS 474	<b>International Business Finance (3)</b> 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. Prerequisite: BUS 303.	Fall
BUS 475	<b>Project and Team Management (3)</b> 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.	Fall

BUS 485	<b>Business Policy and Strategy (3)</b> 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; fulfilling leadership responsibilities. Prerequisite: BUS 303, 463, and MKT 333.	Fall, Spring
BUS 491	<b>Internship in Business (3)</b> 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. Prerequisite: Permission of the Dean of the School of Business.	Fall, Spring, Summer
BUS 492	<b>Internship in Business (3)</b> Second term for students who want to develop their practical business knowledge further under faculty supervision. This class will offer field experience in all areas of business. Prerequisite: BUS 491 and permission of the Dean of the School of Business.	As offered
BUS 496	<b>Foundations of Business Management (3)</b> This is a foundational course for all MBA students. It is designed to ensure all MBA students have the knowledge and skills required to be successful in the MBA program. Students will be required to demonstrate competency in finance, global business, economics, organizational behavior, operations management, human resources, ethics, and law. This course will also help students bridge the scholar-practitioner divide through teaching research and critical thinking skills needed to be successful in the program. Prerequisite: Permission of the MBA Program Director.	Fall, Spring
BUS 497	<b>Organizational Dynamics of the New Millennium (3)</b> The course examines evidence based principles, methods, and techniques found useful in designing, managing, and leading a 21st century organization. Topics include motivation, productivity, organizational design, corporate culture, benefits and rewards, decision making, stress, conflict, diversity, ethics, groups, teams, and power and politics. Prerequisite: Permission of the MBA Program Director.	Fall, Spring
BUS 498	<b>Senior Exit Exam (0)</b> The student will take an exit exam. Prerequisite: Permission of the Dean of the School of Business. Pass/Fail.	Fall, Spring, Summer

## CHEMICAL ENGINEERING

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.

### TRADITIONAL PROGRAM REQUIREMENTS

#### Chemical Engineering Degree (124-127 units) BSChE

##### 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.

##### Math and Science Unit Requirement

<sup>†</sup>A minimum of thirty two (32) units of Math or Science coursework is required for the degree. Courses in the degree designated with a '†' meet this requirement.

##### Lower Division Core Engineering Requirements (15 units)

EGR 101	Engineering from a Christian Worldview OR EGR 301**
EGR 102	Introduction to Engineering Design
EGR 103	Engineering Service I OR EGR 303**
EGR 121	Introduction to Computer Programming in C++
EGR 122	Visualization Languages I
EGR 192	Engineering Seminar I OR EGR 392**
EGR 202	Worldview Reflection I***

\*\* Junior/Senior transfer students will complete EGR 301, 303, and 392. All other students will complete EGR 102, 103, and 192.

\*\*\* Successful completion of EGR 202 is required for entrance into the Engineering degree program.

## Academic Programs

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### Upper Division Core Engineering Requirements (14 units)

EGR 302	Engineering Design and Documentation
EGR 304	Leadership Cohort
EGR 305	Engineering Statistics <sup>†</sup>
EGR 306	Internship Preparation
EGR 390	Internship
EGR 401	Capstone Design
EGR 402	Capstone Design Presentation
EGR 403	FE Exam
EGR 404	Worldview Reflection II
EGR 405	Internship Report and Presentation
EGR 406	Senior Portfolio

### Math and Science Requirements (42 units)

CHE 115	General Chemistry I with Lab <sup>†</sup>
CHE 125	General Chemistry II with Lab <sup>†</sup>
CHE 351	Organic Chemistry I with Lab <sup>†</sup>
CHE 352	Organic Chemistry II with Lab <sup>†</sup>
CHE 415	Physical Chemistry I <sup>†</sup>
EGR 182	Introductory Mathematics for Engineering Applications <sup>†</sup>
MAT 245	Analytical Geometry and Calculus I <sup>†</sup>
MAT 255	Analytical Geometry and Calculus II <sup>†</sup>
MAT 342	Fundamentals of Multivariable Calculus and Differential Equations for Engineers <sup>†</sup>
PHY 201	Physics for Engineers I with Lab <sup>†</sup>
PHY 203	Physics for Engineers II with Lab <sup>†</sup>

### Lower Division Chemical Engineering Requirements (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)

BUS 334	International Business
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	Process Control
EGR 475	Process Safety
EGR 477	Chemical Engineering Laboratory
Three (3) additional upper division approved engineering elective units	

### Upper Division Elective Requirement (3 units)

Three (3) additional approved engineering, science, applied math, or business units\*

\* Recommended BIO 146, EGR 231, EGR 256, BUS 361, CHE 443, MAT 453

### 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.

## CHEMISTRY

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 choose one of four concentrations, depending on interests and career goals. Students interested in teaching at the secondary level should see the Education section for the Professional Methods Program for Single Subject Credential Students.

### TRADITIONAL PROGRAM REQUIREMENTS

#### Chemistry Major (65-70 units) BS

##### Lower Division Requirements

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

##### Upper Division Requirements

CHE 321	Analytical 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

##### Concentration Courses (15-20 units)

Students must complete all requirements in one of the following concentrations:

Advanced Studies in Chemistry; Environmental Science; Secondary Chemistry Education; Pre-Medical Chemistry

##### Advanced Studies in Chemistry (15 units)

###### Upper Division Requirement

CHE 490	Senior Research in Chemistry
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###### Upper Division Elective Requirements

Complete twelve (12) units from the following:

CHE 341	Advanced Inorganic Chemistry with Lab
CHE 400	Special Topics in Chemistry
CHE 443	Biochemistry I with Lab
CHE 444	Biochemistry II with Lab

##### Environmental Science (16 units)

BIO 302	Ecology with Lab
ENV 110	Introduction to Environmental Science with Lab
ENV 360	Environmental Chemistry with lab

Four (4) additional units of upper division Environmental Science coursework, PSC 451, OR SCI 412.

##### Secondary Chemistry Education\* (20 units)

BIO 146	General Biology I with Lab
BIO 148	General Biology II with Lab
CHE 341	Advanced Inorganic Chemistry with Lab
PHY 301	Astronomy II
PHY 301L	Astronomy II Lab
PSC 451	Advanced Geoscience with Lab

##### Pre-Medical Chemistry (16 units)

BIO 146	General Biology I with Lab
BIO 148	General Biology II with Lab

Eight (8) additional units of upper-division Biology or Chemistry coursework

## Academic Programs

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### Chemistry Minor (24 units)

#### Lower Division Requirements

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

#### Upper Division Requirements

- CHE 351 Organic Chemistry I with Lab  
CHE 352 Organic Chemistry II with Lab  
Eight (8) additional upper division units in Chemistry

### Chemistry Course Descriptions

- CHE 101 Orientation to the Discipline (1)** Fall  
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. Pass/Fail.
- CHE 102 Fundamentals of Chemistry (3)** Fall, Spring  
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.
- CHE 112 Organic and Biochemistry for Health Sciences with Lab (4)** Fall, Spring  
A survey of Organic and Biochemistry topics with special emphasis on metabolic processes and applications to medicine and health. Lecture (3 units) and required laboratory (1 unit). Additional lab fee. Prerequisite: CHE 102.
- CHE 115 General Chemistry I with Lab (4)** Fall, Spring  
Structure and behavior of inorganic matter and a mathematical treatment of chemical systems. Lecture (3 units) and required laboratory (1 unit). Additional lab fee. Prerequisite: CHE 102 or high school chemistry.
- CHE 125 General Chemistry II with Lab (4)** Spring  
A continuation of Chemistry 115, including qualitative inorganic analysis. Lecture (3 units) and required laboratory (1 unit). Additional lab fee. Prerequisite: CHE 115.
- CHE 130 Introduction to Chemistry for Engineers (3)** Fall, Spring  
Introductory treatment of matter – its forms, transitions, and interactions; with a focus on chemical, civil, electrical, and mechanical engineering applications. Additional lab fee. Prerequisite: CHE 102 or high school chemistry.
- CHE 200 Special Topics in Chemistry (1–3)** As offered  
Various appropriate topics of different concentrations are offered each time. May be repeated once with different subject matter. Student involvement in selection of topics is strongly encouraged.
- CHE 230 Introduction to Molecular Modeling (1)** Spring  
The development of computer-generated models to investigate quantitative information about structures, reactivities, and stabilities of molecules. Prerequisite: CHE 115.
- CHE 321 Analytical Chemistry with Lab (4)** Fall  
A survey of separation and quantitation principles and methods. Lecture (3 units) and required laboratory (1 unit). Additional lab fee. Prerequisite: CHE 125.
- CHE 341 Advanced Inorganic Chemistry with Lab (4 units)** 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. Three hours lecture and four hours laboratory. Additional Lab Fee. Prerequisites: CHE 125 and MAT 245. Pre- or Co- requisite: CHE 230.
- CHE 351 Organic Chemistry I with Lab (4)** Fall  
An integrated mechanistic study of the nomenclature, chemical, and stereochemical properties of aliphatic hydrocarbons. Lecture (3 units) and required laboratory (1 unit). Additional lab fee. Prerequisite: CHE 125.
- CHE 352 Organic Chemistry II with Lab (4)** Spring  
A continuation of Chemistry 351 covering the major aliphatic and aromatic functional groups. Includes an introduction to spectroscopy. Lecture (3 units) and required laboratory (1 unit). Additional lab fee. Prerequisite: CHE 351.

CHE 399	<b>Independent Study (1–3)</b> This course of study is offered to afford the superior student an opportunity to explore independently subject matter not already offered in the catalog.	
CHE 400	<b>Special Topics in Chemistry (1–3)</b> Various appropriate topics of different concentrations are offered each time. May be repeated once with different subject matter. Student involvement in selection of topics is strongly encouraged.	
CHE 415	<b>Physical Chemistry I (3)</b> A study of thermodynamics, kinetic molecular theory, and kinetics of chemical systems. Prerequisite: CHE 125 and MAT 255.	Fall
CHE 416	<b>Physical Chemistry II with Lab (4)</b> A study of quantum mechanics, molecular structure, and spectroscopy. Three hours lecture and four hours laboratory. Additional lab fee. Prerequisites: CHE 125 and MAT 255. Pre- or Co- requisite: CHE 230.	Spring (odd years)
CHE 443	<b>Biochemistry I with Lab (4)</b> A survey of the chemical reactions in living systems. Attention given to enzymes. Lecture (3 units) and required laboratory (1 unit). Additional lab fee. Prerequisite: CHE 351.	Spring
CHE 444	<b>Biochemistry II with Lab (4)</b> A continuation of the study of Biochemistry I including a detailed look at DNA, transcription, translation, protein synthesis, lipid metabolism (e.g., cholesterol synthesis) and amino acid and nucleic acid metabolism. Additional lab fee. Prerequisite: CHE 443.	Fall
CHE 470	<b>Instrumental Analysis (4)</b> 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. Lecture (2 units) and required laboratory (2 units). Additional lab fee. Prerequisite: CHE 321.	Spring (even years)
CHE 480	<b>Chemistry Research Seminar (1)</b> 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. Prerequisite: Chemistry or Biochemistry and Molecular Biology major and junior or senior status.	Fall
CHE 490	<b>Senior Research in Chemistry (1-4)</b> 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. May be repeated for up to 4 total units. Prerequisite: CHE 125 and permission of the Department Chair.	As offered

## CHILDREN'S LITERATURE

### 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.

#### Certificate Requirements (12 units)

ENG 353 Introduction to Children's Literature

ENG 363 Introduction to Young Adult Literature

Complete six (6) units from the following: ENG 200\*, 354, 355, 400\*

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

## CHINESE

### Chinese Course Descriptions

- CHI 115**      **Mandarin Chinese I (3) M**      **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.
- CHI 125**      **Mandarin Chinese II (3) M**      **As offered**  
 A continuation of 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. Prerequisite: CHI 115.

## CHRISTIAN BEHAVIORAL SCIENCE

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 PROGRAM REQUIREMENTS

#### Christian Behavioral Science Major (51 units) BA

##### Lower Division Requirements\*

- BEH 100      Survey of Behavioral Science OR ANT 225 OR SOC 213  
 CST 110      Old Testament Survey  
 CST 130      New Testament Survey  
 PSY 213      General Psychology

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

##### Upper Division Introduction Requirements

- BEH 333      Epistemology and Worldview  
 CST 350      Biblical Interpretation  
 CST 370      Christian Doctrine  
 PSY 320      Life Span Development  
 PSY 322      Theories of Personality

##### Upper Division Christian Behavioral Science Requirements

- CBS 303      Marriage and Family in the Christian Community  
 CBS 350      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:

- CST 360      Church History  
 CST 425      Christian Social Ethics  
 ICS 305      Global Perspectives

##### Optional Concentrations\* (12 units)

Students can earn a concentration in the following areas by completing the certificate requirements\*\*: Anthropology, Cognitive Psychology, Counseling Ministry, Diversity, Industrial and Organizational Psychology, Life Span Development, Psychology, Religion and Behavior, or Social Work.

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

\*\*Certificate requirements are located in the Academic Program section of the catalog by certificate title.



**Christian Behavioral Science Minor (21 units)****General Prerequisites**

BEH 100	Survey of Behavioral Science OR SOC 213 OR ANT 225
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	Christian Doctrine
PSY 322	Theories of Personality

**Upper Division Christian Behavioral Science Requirements**

CBS 350	Development and Discipleship
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**Upper Division Elective Requirement**

Complete nine (9) additional units in Christian Behavioral Science

**Christian Behavioral Science Certificate**

The Christian Behavioral Science 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 Christian behavioral science designed for students with a major outside the School of Behavioral Sciences who wish to supplement their academic interest or goals.

**Certificate Requirements (12 units)**

BEH 333	Epistemology and Worldview
CBS 350	Development and Discipleship
Six (6) additional units in Christian Behavioral Science (excluding CBS 499)	

**Christian Behavioral Science Course Descriptions**

CBS 200	<b>Special Topics in Christian Behavioral Science (1-3)</b> An in-depth seminar on a selected topic within the Christian Behavioral Science. Course is repeatable for credit with a change in topic.	As offered
CBS 303	<b>Marriage and Family in the Christian Community (3) I</b> 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.	Fall, Spring
CBS 350	<b>Development and Discipleship (3) I</b> This course addresses the parallel processes of physical and cognitive development with spiritual development. Subjects include Biblical perspectives on faith development, discipleship, learning, maturity, and spiritual life-span. Prerequisite: BEH 333.	Spring
CBS 399	<b>Independent Study (1-3)</b> An opportunity for students who have demonstrated the ability to do independent work to pursue in depth a topic of particular interest.	
CBS 400	<b>Special Topics in Christian Behavioral Science (1-3)</b> An in-depth seminar on a selected topic within the Christian Behavioral Science. Course is repeatable for credit with a change in topic.	Fall, Spring
CBS 403	<b>Congregation and Community (3) I</b> 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.	Fall
CBS 415	<b>Biblical Wisdom and Human Behavior (3) I</b> Focuses on the wisdom literature of the Bible as a guide to living. It addresses the Biblical issue of foolishness and wisdom, and places it in proper relationship to pathology, deviance, and cultural norms.	Fall

## Academic Programs

CBS 420	<b>Behavioral Implications of Theology (3) I</b> 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.	Spring
CBS 423	<b>Models of Christian Counseling (3) I</b> An examination of current approaches to Christian-oriented and biblically based counseling toward the development of a personal integrated model. Prerequisite: BEH 333.	Spring
CBS 433	<b>Foundations of Pastoral Counseling (3)</b> 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.	Fall
CBS 499	<b>Senior Project: Christian Behavioral Science (3)</b> A special project paper to be researched and written during the senior year that addresses a specific focus of Christian Behavioral Science. This course cannot be taken if more than two other courses in major are not completed. The format is a guided-study under the direction at least two professors from the School of Behavioral Sciences. The final project will approximate a journal article and should be of such content and format to be submitted for publication. Prerequisite: Permission of the Dean of the School of Behavioral Sciences.	As offered

## CHRISTIAN STUDIES

The Christian Studies major prepares students for graduate seminary programs and for careers in churches and other ministry related vocations. Students select at least one concentration and are required to complete applied field experience.

### TRADITIONAL PROGRAM REQUIREMENTS

#### Christian Studies Major (45-51 units) BA

##### 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

\*Christian Studies majors should not take CST 110 and CST 130.

##### Upper Division Requirements

CST 300	History of Baptist Thought
CST 350	Biblical Interpretation
CST 360	Church History
APT 371	Christian Theology I
APT 372	Christian Theology II

##### Upper Division Biblical Studies Requirement

Complete three (3) units of upper division Biblical Studies coursework from the following: CST 310, 311, 315, 330, 331, 410, 411, 421, 440, 441, 442, 450.

##### Upper Division Elective Requirement

Complete three (3) additional units of upper division coursework, beyond other major or concentration requirements from the following: APT 352, 365, 482, CST 307, 310, 311, 315, 330, 331, 380, 382, 383, 410, 411, 421, 425, 440, 441, 442, 450, 451, 490, 491, ICS 305, 375, 405, 430, 435, PHI 303, 324, 343, 353, 433.

##### Concentration Courses (12-18 units)

Students must complete all requirements in one of the following concentrations:

Apologetics; Bible and Theology; Biblical Languages; Christian Ministry; Focus Leadership; Global Studies; Pastoral Leadership; Theology/Church History, Theology/Philosophy; Youth Ministry

##### Apologetics (12 units)

PHI 303	Apologetics OR PHI 403 Cultural Apologetics
PHI 343	Philosophy of Religion
PHI 433	Apologetics: Theory and Method

Three (3) units of additional upper division philosophy coursework from the following: PHI 353, 400, or 421.

**Bible and Theology\* (12 units)**

At least three (3) units of upper division biblical studies coursework

At least three (3) units of upper division theology coursework

Six (6) units of additional upper division biblical studies and/or theology coursework

\*Prerequisites for concentration: CST 210 and 220 for Old Testament coursework, CST 230 and 240 for New Testament coursework, CST 370 for theology coursework.

**Biblical Languages\* (12 units)**

GRK 313 Intermediate Greek

GRK 323 Intermediate Greek

HEB 213 Hebrew I

HEB 223 Hebrew II

\*Prerequisites to concentration: GRK 213 and 223.

**Christian Ministry (12 units)**

Complete twelve (12) units of upper division Christian Ministry coursework, including from the following: CST 307, 380, 381, 382, 383, 414, 425, 451, 480, 484, and 491, ICS 305, 375, 405, 415, 430, 431, 435.

**Faith and Culture (12 units)**

Complete six (6) units from the following: CST 354, 425, ICS 305, 375, PHI 303, 320, 324, 343, 353, 420, 433

Complete six (6) units from the following: ENG 365, 401, 433, 434, 440, 443, 460, FLM 303, 305, 350, 450, HIS 305, 315, 325, 343, 353, 360, 415, 430, 435, HON 300, 350, 400, 450, POL 330, 350, 395, 423, 425, 427, 429, 431

**Focus Leadership (12-16 units)**

Because of California Baptist University's status as a "sending institution" for the Focus Leadership Institute, students may study for one semester at the Institute in Colorado Springs, Colorado. Coursework will be determined by the Institute; application and acceptance into the Institute program is required. As a part of this program, students may also be able to complete the elective requirement of CST 490 Supervised Ministry in the Christian Studies Major or Minor.

**Global Justice (12 units)**

CST 425 Christian Social Ethics

ICS 305 Global Perspective

ICS 375 Current Events and Movements

PHI 353 Comparative Religions

**Global Studies \* (18 units)**

ICS 105 Introduction to Global Studies

ICS 205 Models of Discipleship

ICS 305 Global Perspectives

ICS 405 Marketplace Strategies for Global Advancement

ICS 430 Intercultural Communication

ICS 431 Cross-cultural Immersion

\*Recommended Courses: ANT 225 Cultural Anthropology and ANT 430 Culture and Personality

**Pastoral Leadership (12 units)**

APT 452 Advanced Biblical Preaching

APT 482 Pastoral Leadership

CST 382 Evangelism

CST 451 Biblical Preaching

**Theology/Church History (12 units)**

Three (3) units of upper division Theology coursework

Three (3) units of upper division Church History coursework

Six (6) additional units of upper division Theology and/or Church History coursework

Prerequisite for concentration: CST 360 for Church History coursework; CST 370 for Theology coursework

**Theology/Philosophy (12 units)**

Three (3) units of upper division Theology coursework

Three (3) units of upper division Philosophy coursework

Six (6) additional units of upper division Theology and/or Philosophy coursework

Prerequisite for concentration: CST 370 for Theology coursework

**Youth Ministry (12 units)**

CBS 403 Congregation and Community or CBS 303 Marriage and Family in the Christian Community

CST 380 Introduction to Christian Education

CST 383 Ministry with Youth

CST 484 Current Trends in Youth Ministry

## Academic Programs

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### Christian Studies Minor (18 units)

Students may earn a minor in Christian Studies by completing the Christian Studies core requirements.

#### 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	Christian Doctrine

#### Upper Division Elective Requirements

Complete three (3) additional units from the following: APT 352, 365, 482, CST 307, 380, 382, 383, 425, 451, 490, 491, ICS 305, 375, 405, 430, 435, PHI 303, 324, 343, 353, 433.

### Christian Studies Course Descriptions

CST 100	Overview of the Bible (4) 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. A Online and Professional Studies requirement for Online and Professional Studies degree programs only.	Online and Professional Studies
CST 104	Special Studies in Christian Studies (1) An examination of specific areas of Christian studies (biblical, theological, church-historical, ethical, missional, and/or practical). Course is repeatable for credit with a change in topic.	As offered
CST 110	Old Testament Survey (3) M A general survey of the Old Testament, with special emphasis given to the religious and national life of ancient Israel. Fulfills general education requirement for non-majors.	Fall, Spring
CST 130	New Testament Survey (3) M A general survey of the New Testament, focusing on the life of Jesus and the development of the early church in its historical/cultural settings. Fulfills general education requirement for non-majors.	Fall, Spring
CST 200	Special Topics in Christian Studies (3) An examination of specific areas of Christian studies (theology, Bible, missions, etc.). Course is repeatable for credit with a change in topic.	Fall, Spring (even years)
CST 210	Pentateuch and Former Prophets (3) M An introduction to the Pentateuch and Former Prophets sections of the Hebrew Bible and the ancient Near Eastern cultural and historical background of Israel's history and sacred literature. Special emphasis will be given to the ways in which the literary forms of the Old Testament express Israel's understanding of God's activity in the world and the history of the nation. Core requirement for Christian Studies majors.	Fall
CST 220	Latter Prophets and Writings (3) M An introduction to the Latter Prophets and Writings sections of the Hebrew Bible and the ancient Near Eastern cultural and historical background of Israel's history and sacred literature. Special emphasis will be given to the ways in which the literary forms of the Old Testament express Israel's understanding of God's activity in the world and in the history of the nation. Core requirement for Christian Studies majors.	Spring
CST 230	Jesus and the Gospels (3) M 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. Core requirement and prerequisite for upper division Gospel courses (CST 330, 331) for Christian Studies majors.	Fall
CST 240	Paul and the Early Church (3) M An introductory consideration of the incidents, individuals, and issues included in the historical, epistolary, and apocalyptic portions of the New Testament. Core requirement and prerequisite for upper division Pauline courses (CST 440, 441) for Christian Studies majors.	Spring

CST 300	<b>History of Baptist Thought (3) I</b> An introduction to Baptist history, Baptist doctrine, and the organizational structure of the Southern Baptist Convention. Core requirement for Christian Studies majors and minors.	Fall, Spring
CST 301	<b>The Christian Life (3)</b> A survey of basic Christian beliefs and how those beliefs inform and direct daily living in the modern context. Students will spend time examining a decidedly Christian worldview and how such a worldview is reflected in personal and community life.	Online and Professional Studies
CST 302	<b>Foundations of Christian Thought (3)</b> 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.	Online and Professional Studies
CST 304	<b>Special Studies in Christian Studies (1)</b> An examination of specific areas of Christian studies (biblical, theological, church-historical, ethical, missional, and/or practical). Course is repeatable for credit with a change in topic.	As offered
CST 307	<b>Deaf Ministry (3) I, M</b> Demographic and congregational studies suggest that only a fraction of the Deaf population in America and around the world has been effectively evangelized in their own primary language. In this course the student will learn practical methods for reversing this trend by adopting a cultural-linguistic model for Deaf ministry instead of the pathological model that often dominates religious perspectives on disability.	Fall, Spring
CST 310	<b>Old Testament Exegesis (3) M</b> A study of one or more Old Testament books emphasizing the development of skill in exegesis. Special emphasis will be given to the way literary form, structure, and vocabulary of texts should guide interpretation. Prerequisite: CST 110 or both CST 210 and 220.	Fall (odd years)
CST 311	<b>New Testament Exegesis (3) M</b> A study of one or more New Testament books emphasizing the development of skill in exegesis. Prerequisites: CST 130 or both CST 230 and 240.	As offered
CST 315	<b>Old Testament Ethics (3) I, M</b> This course provides the student an opportunity to investigate the ethics inside the Old Testament, as well as asking and answering the question of the place of Old Testament ethics in the life of a believer in God post New Testament. Prerequisite: Previous Old Testament Coursework.	Spring (even years)
CST 330	<b>The Gospel According to John (3) M</b> An intensive investigation of the Fourth Gospel, highlighting the significance of its literary structure and its rich theological and thematic texture. Prerequisite: CST 130 or 230.	As offered
CST 331	<b>The Parables of Jesus (3) M</b> An intensive study of the background and Jesus' use of the parabolic mode of teaching as a dynamic vehicle, then and now, for communicating truth about the kingdom of God. Prerequisite: CST 130 or 230.	As offered
CST 350	<b>Biblical Interpretation (3) I, M</b> 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. Prerequisite: Previous Biblical Studies coursework.	Fall, Spring
CST 354	<b>Comparative Worldviews (3)</b> An overview of several contemporary worldviews such as Christian Theism, Deism, Naturalism, Nihilism, Existentialism, Pantheism, New Age, and Postmodernism using contemporary film as case studies. Attention will be given to cultural expressions of the various worldviews, particularly as seen in modern American culture.	As offered
CST 360	<b>Church History (3) I, M</b> 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.	Fall, Spring

## Academic Programs

CST 370	<b>Christian Doctrine (3)</b> A study of the great doctrines of the Bible, with particular attention to the doctrines of God, humanity, sin, salvation, the person of Christ, the Church and last things. Core requirement for Christian Studies majors and minors. Prerequisite: Previous Christian Studies coursework.	Fall, Spring
CST 380	<b>Introduction to Christian Education (3) I</b> A study of the historical, philosophical, biblical, and theological foundations for the accomplishing of Christian education in a church setting, with particular emphasis on the planning, implementation, and administration of educational programs in the context of Southern Baptist life.	Fall (odd years)
CST 381	<b>Christian Missions (3) I, M</b> 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.	Online and Professional Studies
CST 382	<b>Evangelism (3)</b> A study of the principles of New Testament evangelism for the purpose of the development of students as lifestyle witnesses and of the equipping of students for the "equipping of saints for ministry" in local churches. Student involvement in evangelistic ministry is expected.	Spring
CST 383	<b>Ministry with Youth (3)</b> A study of foundational issues related to adolescents with application to the local church. Student involvement in youth ministry is expected.	Spring (odd years)
CST 399	<b>Independent Study (3)</b> 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.	
CST 400	<b>Special Topics in Christian Studies (3)</b> An examination of specific areas of Christian studies (theology, Bible, missions, etc.). Course is repeatable for credit with a change in topic.	Fall, Spring (even years)
CST 410	<b>Special Topics in Old Testament (3) M</b> An examination of specific area(s) of Old Testament study. Course is repeatable for credit with a change in topic. Prerequisite: Previous Old Testament coursework.	As offered
CST 411	<b>Special Topics in New Testament (3) M</b> An examination of specific area(s) of New Testament study. Course is repeatable for credit with a change in topic. Prerequisite: Previous New Testament coursework.	As offered
CST 412	<b>Special Topics in Theology (3) M</b> An examination of specific area(s) of Theology. Course is repeatable for credit with a change in topic. Prerequisite: Previous Theology coursework.	As offered
CST 413	<b>Special Topics in Church History (3) M</b> An examination of specific area(s) of Church History. Course is repeatable for credit with a change in topic. Prerequisite: Previous Church History coursework.	As offered
CST 414	<b>Special Topics in Christian Ministry (3) M</b> An examination of specific area(s) of Christian Ministry. Course is repeatable for credit with a change in topic. Prerequisite: Previous Christian Ministry coursework.	As offered
CST 420	<b>Topics in Archaeology and History (3) I, M</b> Topics may include surveys of archaeology and history of the lands of the Bible, travel seminars, or participation in an archaeological excavation and field school. Prerequisite: Previous Old Testament coursework.	As offered
CST 421	<b>Biblical History of Israel (3) I, M</b> This course is an introduction to the history, historiography, and scholarship surrounding the biblical portrait of Israel from their origin to their return from exile. Prerequisite: Previous Old Testament Coursework.	Fall (even years)

CST 425	<b>Christian Social Ethics (3) I</b> An introduction into the world of Christian Social Ethics. The course will explore particular and pressing social ethics issues and perennial themes related to Christian living and the interplay between biblical Christian faith and contemporary social issues. Topics include introduction of key social problems, the Church's historical responses to those issues, current Christian positions, and the biblical teachings and core Christian doctrines (e.g., creation fall, redemption, image of God, neighbor love) which relate to these issues. Standard models of Christian engagement in society and responsibilities of the individual believer, the local church, and the global Christian Church will be considered.	Fall, Spring
CST 440	<b>Romans (3) M</b> A study of Paul's most systematic and influential epistle, presenting his exposition of the "Righteousness of God" and its consequences for a Christian ethos. Prerequisite: CST 130 or 240.	As offered
CST 441	<b>The Corinthian Correspondence (3) M</b> An intensive investigation of the most "problem-oriented" of the Pauline letters. Special attention given to the cosmopolitan sociological environment of Corinth and to the resolution of church conflict. Prerequisite: CST 130 or CST 240.	As offered
CST 442	<b>Revelation (3) M</b> An exploration of the nature and message of the Apocalypse of John—a "crisis document" from the late first Christian century. Emphasis placed on the importance of understanding the variety of interpretive approaches given to this writing. Prerequisite: CST 130 or 240.	As offered
CST 450	<b>Old Testament Theology (3) M</b> An examination of the major theological concepts in the Old Testament, including a survey of the disciplines of biblical and Old Testament theology. Prerequisite: CST 110 or 210-220.	Spring (odd years)
CST 451	<b>Biblical Preaching (3)</b> A study of the basic principles for preparing and delivering biblical sermons, with an emphasis on the writing, delivery, and analysis of expository sermons. Prerequisite: Previous Biblical Studies coursework.	Spring
CST 460	<b>Biblical Theology (3)</b> 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.	Online and Professional Studies
CST 480	<b>Pastoral Ministry and Leadership (3)</b> 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.	Online and Professional Studies
CST 484	<b>Current Trends in Youth Ministry (3)</b> A research-oriented exploration of current youth trends and issues based on students' interests with objective of synthesizing their experiences.	Spring (even years)
CST 490	<b>Supervised Ministry (3)</b> 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. Prerequisite: Junior/Senior classification and permission of the Dean of School of Christian Ministries. Pass/Fail.	Fall, Spring, Summer
CST 491	<b>International Missions Practicum (3) I, M</b> 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. May be repeated once with a different missions context (no more than 3 units may apply to general education). Prerequisite: Permission of the Dean of School of Christian Ministries. Pass/Fail.	Spring, Summer

## CIVIL ENGINEERING

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 the Accreditation Board for Engineering and Technology (ABET), <http://abet.org>.

### TRADITIONAL PROGRAM REQUIREMENTS

#### Civil Engineering Degree (124-128 units) BSCE

##### 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.

##### Math and Science Unit Requirement

<sup>†</sup>A minimum of thirty two (32) units of Math or Science coursework is required for the degree. Courses in the degree designated with a ‘†’ meet this requirement.

##### Lower Division Core Engineering Requirements (15 units)

EGR 101	Engineering from a Christian Worldview OR EGR 301*
EGR 102	Introduction to Engineering Design
EGR 103	Engineering Service I OR EGR 303*
EGR 121	Introduction to Computer Programming in C++
EGR 122	Visualization Languages I
EGR 192	Engineering Seminar I OR EGR 392*
EGR 202	Worldview Reflection I**

\*Junior/Senior transfer students will complete EGR 301, 303, and 392. All other students will complete EGR 102, 103, and 192.

\*\* Successful completion of EGR 202 is required for entrance into the Engineering degree program

##### Upper Division Core Engineering Requirements (11 units)

EGR 304	Leadership Cohort
EGR 305	Engineering Statistics <sup>†</sup>
EGR 306	Internship Preparation
EGR 390	Internship
EGR 401	Capstone Design
EGR 402	Capstone Design Presentation
EGR 403	FE Exam
EGR 404	Worldview Reflection II
EGR 405	Internship Report and Presentation
EGR 406	Senior Portfolio

##### Math and Science Requirements (28-29 units)

CHE 130	Introduction to Chemistry for Engineers <sup>†</sup> or CHE 115 <sup>†</sup>
EGR 182	Introductory Mathematics for Engineering Applications <sup>†</sup>
BIO 204	Microbiology for Engineers <sup>†</sup>
MAT 245	Analytical Geometry and Calculus I <sup>†</sup>
MAT 255	Analytical Geometry and Calculus II <sup>†</sup>
MAT 343	Multivariable Calculus <sup>†</sup>
MAT/EGR	Upper Division Applied Math <sup>†</sup> OR Engineering <sup>†**</sup>
PHY 201	Physics for Engineers I with Lab <sup>†</sup>

\*\*Recommend MAT 403 or 413

##### 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 <sup>†</sup>



**Upper Division Civil Engineering Requirements (39 units)**

EGR 342	Fluid Mechanics
EGR 343	Dynamics
EGR 351	Structural Analysis
EGR 352	Structural Design I
EGR 353	Soil Mechanics
EGR 354	Soil and Foundation Engineering
EGR 356	Hydrology
EGR 451	Project and Construction Management
EGR 453	Environment 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.

## CLASSICS

**Classics Minor (24 units)****Lower Division Requirements**

GRK 213	Introduction to Koine Greek I
GRK 223	Introduction to Koine Greek II
LAT 115	Latin I
LAT 125	Latin II

**Upper Division Requirements**

ENG 323	Classical Literature
HIS 415	The Ancient World
PHI 301	History of Western Philosophy
POL 423	Classical Political Philosophy

## CLINICAL HEALTH SCIENCE

The Bachelor of Science in Clinical Health Science is designed to assist students seeking career advancement opportunities in healthcare. The program matriculates candidates holding Associate degrees in healthcare related fields into a relevant Bachelor's degree which expands the students understanding of the US healthcare and public health system. Students who have earned an Associate's degree in the following areas are eligible for entry into the program: Dental Assistant, Health Science, Medical Assistant, Nursing, Paramedic Science, Occupational Therapy Assistant, Pharmacy Technician, Physical Therapy Assistant, and Radiology Technologist. All other Associate degree majors must be reviewed and approved by the Chair of the Department of Health Sciences.

**TRADITIONAL PROGRAM REQUIREMENTS****Clinical Health Science Major (43 Units) BS****Lower Division Requirements**

ALH 101	Introduction to Allied Health Professions
BIO 173	Medical Terminology
HSC 104	Survey of U.S. Healthcare Delivery
HSC 210	Ethics in Healthcare
STA 144	Introduction to Statistics

**Upper Division Requirements**

ALH 495	Clinical Practicum
HCA 330	Health Information Systems
HCA 360	Finance and Reimbursement in Healthcare
HSC 300	Health Communication
HSC 305	Epidemiology
HSC 306	Pathophysiology for Public Health
HSC 316	Public Health Promotion, Disease Prevention, and Intervention
HSC 420	Healthcare Policy
HSC 480	Research Methods
KIN 302	Contemporary Health Issues

## COACHING

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.

### Coaching Minor\* (26 units)

#### Lower Division Requirement

BIO	153	Anatomy and Physiology I
KIN	212	First Aid and Safety
KIN	264	Movement Anatomy

#### Upper Division Requirement

KIN	301	Sports Coaching and Officiating
KIN	303	Foundations of Kinesiology
KIN	332	Lifelong Motor Development
KIN	353	Care and Prevention of Athletic Injuries
KIN	423	Organization and Administration of Physical Education
KIN	433	Sports and Activities Practicum

\*Not available for Kinesiology majors.

## COGNITIVE PSYCHOLOGY

### Cognitive Psychology Certificate

The Cognitive Psychology 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 cognitive psychology designed for students with a major outside the School of Behavioral Sciences who wish to supplement their academic interest or goals.

#### Certificate Requirements (12 units)

PSY	328	Cognitive Psychology
PSY	338	Sensation and Perception
PSY	448	Human Memory
PSY	458	Motivation and Emotion

## COMMUNICATION DISORDERS

The Communication Disorders Major is designed for students to acquire skills and competencies in the areas of speech, hearing, language, and swallowing. This program in Communication Disorders is designed to prepare students for registration as a Speech Language Pathology Assistant and for graduate work in Speech Language Pathology or Audiology.

Satisfactory completion of CDS 495 Clinical Practicum is intended to meet the requirement of the California Speech-Language Pathology and Audiology Board and the guideline of American Speech-Language-and Hearing Association for students to function as a Speech-Language Pathology Assistant following completion of a B.S. degree.

### TRADITIONAL PROGRAM REQUIREMENTS

#### Communication Disorders Major (71 units) BS

##### Lower Division Requirements

ALH	101	Introduction to Allied Health Professions
ANT	225	Cultural Anthropology OR SOC 213 Introduction to Sociology
BIO	153	Anatomy and Physiology I with 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	104	Survey of U.S. Healthcare Delivery
HSC	210	Ethics in Healthcare
PSY	120	Lifespan Development for the Health Professions
STA	144	Introduction to Statistics

**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
CDS 495	Speech Language Pathology Assistant Clinical Practicum
ECH 320	Cognitive Development In Infancy and Early Childhood
HSC 480	Research Methods

**Communication Disorders Course Descriptions**

CDS 101	<b>Introduction to Communication Disorders (3)</b> 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.	<b>As offered</b>
CDS 230	<b>Phonetics (3)</b> 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. Prerequisite: CDS 101.	<b>As offered</b>
CDS 240	<b>Speech and Hearing Anatomy and Physiology (3)</b> 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. Prerequisite: BIO 153.	<b>Fall, Spring</b>
CDS 250	<b>Typical and Atypical Language Development (3)</b> 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.	<b>Spring</b>
CDS 310	<b>Introduction to Audiology (3)</b> This course introduces students to the profession of audiology and provides an overview of auditory function and the basic principles of audiologic assessment.	<b>As offered</b>
CDS 320	<b>Aural Rehabilitation (3)</b> 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. Prerequisite: CDS 310.	<b>Spring</b>
CDS 330	<b>Speech Hearing Sciences (3)</b> 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. Prerequisites: CDS 230 and 240.	<b>Fall</b>

## Academic Programs

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CDS 340	<b>Clinical Methods and Procedures (3)</b> 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. Prerequisites: CDS 230 and 250.	Spring
CDS 400	<b>Special Topics in Communication Disorders (3)</b> 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. Course may be repeated four times with a change in topic. Prerequisites: CDS 101 and 230.	As offered
CDS 405	<b>Fluency Disorders (3)</b> 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. Prerequisites: CDS 230, 240, and 250.	Fall, Spring
CDS 410	<b>Language Disorders in Children (3)</b> 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. Prerequisite: CDS 250.	Fall
CDS 420	<b>Articulation and Phonological Disorders (3)</b> 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/physiology of articulation, characteristics of different kinds of speech production disorders, phonetic and phonemic assessment/treatment approaches. Prerequisites: CDS 230, 240 and 250.	Spring
CDS 430	<b>Neurogenic and Neurological Disorders (3)</b> 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. Prerequisites: CDS 230, 240 and 250.	Fall
CDS 440	<b>Voice and Craniofacial Disorders (3)</b> 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. Prerequisites: CDS 230, 240 and 250.	Fall, Spring
CDS 491	<b>Internship in Communication Disorders (1-4)</b> 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. Course may be repeated for a maximum of six (6) total units. Prerequisites: Communications Disorders Major and Junior/Senior status.	As offered
CDS 495	<b>Speech Language Pathology Assistant Clinical Practicum (3)</b> 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. Prerequisite: CDS 340, senior status, and either CDS 410 or 420.	Fall, Spring

## COMMUNICATION STUDIES

Students in the Communication Studies major will demonstrate proficiency in creating, developing and delivering presentations of communicative merit, utilizing critical thought, and the integration of a broad worldview. The Communication Studies major will further exhibit creativity, confidence, and competence via nationally accepted communicative principles and techniques.

### TRADITIONAL PROGRAM REQUIREMENTS

#### Communication Studies Major (36 units) BA

##### Lower Division Requirements

COM 110/210 Forensics Workshop (3 units)

COM 113 Oral Communication

##### Upper Division Requirements

COM 308 Interpersonal Communication

COM 333 Oral Interpretation

COM 340 Rhetoric and Persuasion

COM 401 Argumentation and Debate (3 units)

COM 403 Communication Theory

COM 405 Rhetorical Criticism

COM 425 Organizational Communication

##### Upper Division Elective Requirements

Complete nine (9) units from the following:

COM 306 Small Group Communication

COM 310 Forensics Workshop (3 units)

COM 400 Special Topics in Communication Studies

COM 410 Forensics Workshop (3 units)

COM 450 Speech Internship

ICS 430 Intercultural Communication

THE 312 Drama in the Classroom or THE 313 Advanced Makeup

THE 340 Drama in the Church

PRL 300 Public Relations

#### Communication Studies Minor (21 units)

##### Lower Division Requirements

COM 110/210 Forensics Workshop (3 units)

COM 113 Oral Communication

##### Upper Division Requirements

Complete fifteen (15) units from the following:

COM 306 Small Group Communication

COM 308 Interpersonal Communication

COM 310/410 Forensics Workshop (6 unit max)

COM 333 Oral Interpretation

COM 340 Rhetoric and Persuasion

COM 400 Special Topics in Oral Communications

COM 401 Argumentation and Debate

COM 403 Communication Theory

COM 405 Rhetorical Criticism

COM 425 Organizational Communication

COM 450 Speech Internship

PRL 300 Public Relations

### Communication Studies Course Descriptions

#### COM 110 Forensic Workshop (1-3) M

Fall

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.

## Academic Programs

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COM 113	<b>Oral Communications (3) M</b> This course is designed to introduce the process of public communication and to help develop and refine the skills of oral communication.	Fall, Spring
COM 200	<b>Special Topics in Communication Studies (3)</b> Concentration upon a specific topic in the field of communication arts. Topic varies for different semesters. May be taken multiple times with change in topic.	As offered
COM 210	<b>Forensic Workshop (1-3) M</b> 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.	Spring
COM 306	<b>Small Group Communication (3)</b> 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.	Fall
COM 308	<b>Interpersonal Communications (3) I, M</b> 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.	Spring
COM 310	<b>Forensic Workshop (1-3) M</b> 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. Prerequisite: COM 110 or 210.	Fall
COM 333	<b>Oral Interpretation and Readers Theatre (3) M</b> 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.	Fall, Spring
COM 340	<b>Rhetoric and Persuasion (3)</b> 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.	Spring
COM 399	<b>Independent Study (3)</b> An opportunity for students who have demonstrated the ability to do independent work to pursue in depth a topic of particular interest.	
COM 400	<b>Special Topics in Communication Studies (3)</b> Concentration upon a specific topic in the field of communication arts. Topic varies for different semesters. May be taken multiple times with change in topic.	Fall, Spring
COM 401	<b>Argumentation and Debate (1-3)</b> 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. May be repeated for a total of eight (8) units. Only three (3) units may be applied to the major.	Fall
COM 403	<b>Communication Theory (3) I, M</b> 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.	Fall
COM 405	<b>Rhetorical Criticism (3) I, M</b> 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.	Spring

COM 410	<b>Forensic Workshop (1-3) M</b> 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. Prerequisite: COM 110 or 210.	Spring
COM 420	<b>Global Digital Engagement (3)</b> 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.	Online and Professional Studies
COM 425	<b>Organizational Communication (3) I, M</b> 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.	Spring
COM 430	<b>Communication Research and Methods (3)</b> 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.	Online and Professional Studies
COM 450	<b>Internship in Communication Studies (1-3)</b> 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. Prerequisite: Permission of the Department Chair.	Fall, Spring
COM 451	<b>Internship in Communication Studies (1-3)</b> 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. Prerequisite: COM 450 and permission of the Department Chair.	Fall, Spring

## COMPUTER INFORMATION SYSTEMS

### Computer Information Systems Course Descriptions

CIS 265	<b>Information Systems Essentials (3)</b> This is an introduction to the essential computer tools used in a modern information society. Students will examine the historical development of information tools and demonstrate understanding of these information tools by completing a series of projects on the computer. Students will be introduced to five of the Microsoft Office suite application packages: Word, Excel, PowerPoint, Outlook and Access. In addition, they will receive an introduction to WebPages design. Students will be expected to demonstrate integration of these packages by the end of the course.	Fall, Spring
CIS 268	<b>Computer Programming Languages (3)</b> 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.	Spring
CIS 270	<b>Business IT Application (3) I</b> This course will develop essential math and computer skills necessary to support the student's integration into the business program. Students will be introduced to the Microsoft Office suite application packages: Word, Excel, PowerPoint, and Outlook. In addition, they will reinforce essential math skills that support upper division requirements and integrate with computer software applications. Students will be expected to demonstrate integration of the math and software skills by the end of the course. Prerequisite: MAT 115 or STA 144.	Fall, Spring
CIS 369	<b>Intermediate Computing (3)</b> This is a hands-on computer lab and lecture course covering the current office productivity software Advanced Microsoft Office applications. This course will give students knowledge of the practical business applications of the spreadsheets, word processing, database management and presentation software. Prerequisite: CIS 265.	Fall (odd years)

# COMPUTER INFORMATION TECHNOLOGY

## Computer Information Technology Course Descriptions

CIT 320	<p><b>Enterprise Architecture (3)</b></p> <p>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/it solutions development.</p>	<p><b>Online and Professional Studies</b></p>
CIT 330	<p><b>Project Management (3)</b></p> <p>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.</p>	<p><b>Online and Professional Studies</b></p>
CIT 340	<p><b>System Analysis and Design (3)</b></p> <p>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).</p>	<p><b>Online and Professional Studies</b></p>
CIT 350	<p><b>Foundations of Information Systems (3)</b></p> <p>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.</p>	<p><b>Online and Professional Studies</b></p>
CIT 360	<p><b>Legal and Ethical Practices in Information Technology (3)</b></p> <p>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.</p>	<p><b>Online and Professional Studies</b></p>
CIT 370	<p><b>Database Design and Processing (3)</b></p> <p>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.</p>	<p><b>Online and Professional Studies</b></p>
CIT 380	<p><b>Computer and Network Security (3)</b></p> <p>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.</p>	<p><b>Online and Professional Studies</b></p>



CIT 440	<b>Web Application Development (3)</b>	<b>Online and Professional Studies</b>
	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/JDBC); object-relation mapping tools; security (including SSL); Ajax; web services (SOAP/WSDL/UDDI); frameworks; internationalization; scalability and performance issues.	
CIT 450	<b>E-Commerce Systems Development (3)</b>	<b>Online and Professional Studies</b>
	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. Prerequisite: CIT 440.	
CIT 460	<b>Business Networking (3)</b>	<b>Online and Professional Studies</b>
	Provides students with the ability to assess the it 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.	
CIT 465	<b>Advanced Business Networking (3)</b>	<b>Online and Professional Studies</b>
	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. Prerequisite: CIT 460.	
CIT 470	<b>Information Processing Systems (3)</b>	<b>Online and Professional Studies</b>
	Today's organizations are complex system 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.	

## COMPUTER SCIENCE

Computer scientists study computers: their design, their use for computation and control, and especially their software components. Computer scientists can perform roles ranging from systems design and architecture through software design, development and maintenance, through analysis and research. Often, software developers will have a degree in computer science. An essential element of computer science is the mathematical and theoretical foundation of computing and software. As one of the most rapidly developing and expanding fields, computer science offers a wide range of career choices.

### TRADITIONAL PROGRAM REQUIREMENTS

#### Computer Science Degree (124 units) BCS

##### 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.

##### Math and Science Unit Requirement

<sup>†</sup>A minimum of thirty two (32) units of Math or Science coursework is required for the degree. Courses in the degree designated with a ‘†’ meet this requirement.

##### Lower Division Core Engineering Requirements (15 units)

EGR 101	Engineering from a Christian Worldview OR EGR 301*
EGR 102	Introduction to Engineering Design
EGR 103	Engineering Service I OR EGR 303*
EGR 121	Introduction to Computer Programming in C++
EGR 122	Visualization Languages I
EGR 192	Engineering Seminar I OR EGR 392*
EGR 202	Worldview Reflection I**

\*Junior/Senior transfer students will complete EGR 301, 303, and 392. All other students will complete EGR 102, 103, and 192.

\*\*Successful completion of EGR 202 is required for entrance into the Computer Science degree program

##### Upper Division Core Engineering Requirements (14 units)

EGR 302	Engineering Design and Documentation
EGR 304	Leadership Cohort
EGR 305	Engineering Statistics <sup>†</sup>
EGR 306	Internship Preparation
EGR 390	Internship
EGR 401	Capstone Design
EGR 402	Capstone Design and Presentation
EGR 403	FE Exam
EGR 404	Worldview Reflection II
EGR 405	Internship Report and Presentation
EGR 405	Senior Portfolio

##### Math and Science Requirements (30 units)

CSC 312	Algorithms <sup>†</sup>
EGR 182	Introductory Mathematics for Engineering Applications <sup>†</sup>
EGR 225	Discrete Structures I <sup>†</sup>
MAT 245	Analytical Geometry and Calculus I <sup>†</sup>
MAT 255	Analytical Geometry and Calculus II <sup>†</sup>
PHY 201	Physics for Engineers I with Lab <sup>†</sup>
PHY 203	Physics for Engineers II with Lab <sup>†</sup>
Four (4) units of approved science <sup>†</sup>	

##### Lower Division Computing and Software Requirements (13 units)

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 Computing and Software Requirements (28 units)**

CSC 311	Compiler Design and Languages
CSC 313	Graphics and Visual Computing
CSC 411	Social and Professional Issues in Computing
CSC 412	Intelligent Systems
CSC 413	Information Security and Computer Forensics
CSC 414	Theory of Computation
EGR 324	Engineering Economics
EGR 325	Database Systems
EGR 329	Computer Architecture
EGR 425	Real Time and Embedded Development

**Computing and Software Elective Requirement (6 units)**

Complete a minimum of six (6) units from the following:

EGR 231	Circuit Theory I
EGR 232	Circuit Theory II and Design
EGR 234	Digital Logic Design
EGR 320	Software Quality Assurance and Testing
EGR 322	Microcontroller System Design
EGR 323	Software Requirements and Analysis
EGR 326	Software Design and Architecture
EGR 327	Software Construction
EGR 423	Mobile Applications Development
EGR 427	Software Project Management

**Cross Cultural Experience Requirement (0 units)**

Computer Science students are required to complete an approved cross cultural experience. Course credit is not required. A list of approved experiences are available in the College of Engineering.

**Computer Science Minor (22 units)**

**Lower Division Requirements**

EGR 121	Introduction to Computer Programming in C++ OR CIS 268 Computer Programming Languages
EGR 221	Data Structures
EGR 225	Discrete Structures I

**Upper Division Requirements**

CSC 312	Algorithms
CSC 411	Social and Professional Issues in Computing
EGR 329	Computer Architecture

**Upper Division Elective Requirement**

Complete six (6) units from the following: CSC 311, 313, 412, 413, 414, EGR 325, or 425.

**Computer Science Course Descriptions**

CSC 311	<b>Compiler Design and Languages (3)</b>	<b>Fall</b>
	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. Prerequisite: EGR 221.	
CSC 312	<b>Algorithms (3)</b>	<b>Spring</b>
	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. Prerequisite: EGR 221.	
CSC 313	<b>Graphics and Visual Computing (3)</b>	<b>Spring</b>
	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. Prerequisite: EGR 221.	
CSC 411	<b>Social and Professional Issues in Computing (1)</b>	<b>Spring</b>
	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.	

## Academic Programs

CSC 412	<b>Intelligent Systems (3)</b> Intelligent systems 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 Intelligent Systems will be presented and examined from a Christian perspective. Prerequisite: EGR 305.	Fall
CSC 413	<b>Information Security and Computer Forensics (3)</b> 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. Prerequisite: EGR 222.	Fall
CSC 414	<b>Theory of Computation (3)</b> 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. Prerequisite: EGR 225.	Spring

## CONSTRUCTION MANAGEMENT

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 PROGRAM REQUIREMENTS

#### Construction Management Major (96 units) BS

##### Lower Division Requirements

ACC 250	Accounting I
BUS 217	Microeconomics
BUS 218	Macroeconomics
BUS 237	Management Based on Biblical Principles
CON 102	Construction Management from a Christian Worldview
CON 205	Plan Reading and Estimating
CON 210	Evolving Technologies in Construction
EGR 102	Introduction to Engineering Design
EGR 103	Engineering Service I (1 unit)
EGR 121	Introduction to Computer Programming
EGR 122	Visualization Languages
EGR 182	Introductory Mathematics for Engineering Applications
EGR 202	Worldview Reflection I
EGR 241	Statics
EGR 251	Surveying
EGR 254	Materials Engineering
MAT 245	Analytical Geometry and Calculus I
PHY 201	Physics for Engineers I with Lab

##### Upper Division Requirements

BUS 357	Small Business Management
BUS 358	Business Law
CON 310	Construction Materials and Methods
CON 330	Construction Safety
CON 340	Building Structures
CON 350	Project Delivery, Law and Contracts
CON 410	Mechanical Systems for Buildings
CON 430	Advanced Estimating
CON 460	Construction Planning and Scheduling
EGR 302	Engineering Design and Documentation
EGR 304	Leadership Cohort
EGR 306	Internship Preparation
EGR 390	Internship
EGR 401	Capstone Design
EGR 402	Capstone Design and Presentation
EGR 405	Internship Report and Presentation
EGR 451	Project and Construction Management

**Construction Management Minor (18 units)****Lower Division Requirements**

- CON 205 Plan Reading and Estimating  
 CON 210 Evolving Technologies in Construction

**Upper Division Requirements**

- CON 310 Construction Materials and Methods  
 CON 330 Construction Safety  
 CON 350 Project Delivery, Law and Contracts  
 CON 410 Mechanical Systems for Buildings

**Construction Management Course Descriptions**

- CON 102 Construction Management from a Christian Worldview (3) Fall  
 Serves as an introduction to the exciting field and vocation of construction management and the value of construction management training. Guest lectures from construction, and introduction to teams through a group project will be included. Exploration of the concept of worldview from a Christian perspective is stressed. Emphasis will include Christian perspectives on purpose, integrity, discernment and service as they relate to construction. Assessment of one's learning style, temperament and potential strengths and weaknesses as part of self-discovery will also be included. This course is required of all students considering construction management as a major.
- CON 205 Plan Reading and Estimating (3) Spring  
 Plan Reading and Estimating introduces student to construction estimating through quantitative take-off and survey of materials and productivity standards applicable to construction projects.
- CON 210 Evolving Technologies in Construction (3) Fall  
 Leadership in Energy and Environmental (LEED) and Building Information Modeling (BIM) concepts are introduced. This course further emphasizes the principles, practices and applications of integrated project delivery systems, sustainable construction methods and current industry innovations as it relates to the built environment.
- CON 310 Construction Materials and Methods (3) 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.
- CON 315 Building Information Modeling (3) 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. Prerequisite: EGR 122.
- CON 330 Construction Safety (3) Spring  
 Introduces students to the various causes of construction accidents and adopted strategies to prevent work site injuries and illnesses with an emphasis on OSHA standards.
- CON 340 Building Structures (3) Spring  
 Building Structures introduces students to the types and nature of construction structural systems including material basics as it relates to: wood, steel and concrete. Prerequisite: CON 310.
- CON 350 Project Delivery, Law and Contracts (3) Spring  
 This course covers construction ethics and introduces students to the various aspects of construction contracts and documentation procedures.
- CON 410 Mechanical Systems for Buildings (3) Fall  
 Mechanical Systems for Buildings introduces students to the fundamentals of mechanical systems contained in and necessary for the construction, operation, and maintenance of commercial buildings. Systems of primary concern will be climate control, air quality, ventilation, water supply, waste, electrical, fire protection and sustainable initiatives.
- CON 430 Advanced Estimating (3) Spring  
 Advanced Estimating relates to construction project cost from the conceptual phase to full implementation. The course canvases the entire estimating sequence and introduce students to computer estimating software. Prerequisite: CON 205 and Senior status.

## Academic Programs

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- CON 460 Construction Planning and Scheduling (3)** **Fall**  
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). Prerequisite: CON 330 and 430.
- CON 490 Computer Based Capstone Design (3)** **Spring**  
This course explores professional practice as a constructor, requiring an understanding of the working and contractual relationship among all participants in any project process. Students will be required to participate in a “real” construction situation involving all aspects of managing a project; from initial planning to completion, including budgets, estimating, scheduling, financing and creating contracts and other construction forms as necessary. Case studies will be utilized to develop critical thinking skills. Prerequisite: CON 460. Pre- or Co- requisite: CON 430.

## COUNSELING MINISTRY

### Counseling Ministry Certificate

The Counseling Ministry 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 counseling ministry designed for students with a major outside the School of Behavioral Sciences who wish to supplement their academic interest or goals.

#### Certificate Requirements (12 units)

BEH 333	Epistemology and Worldview
CBS 423	Models of Christian Counseling
CBS 433	Foundations of Pastoral Counseling
CST 370	Christian Doctrine OR CBS 420 Behavioral Implications of Theology

## CREATIVE WRITING

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 PROGRAM REQUIREMENTS

### Creative Writing Major (50-51 units) BFA

#### Lower Division Requirements

ENG 201	Introduction to Literature
ENG 273	Introduction to Creative Writing

#### Lower Division Elective Requirements

Complete six (6) units from the following:

ENG 213	Survey of British Literature I
ENG 223	Survey of British Literature II
ENG 233	Survey of American Literature I
ENG 243	Survey of American Literature II
ENG 253	Survey of World Literature I
ENG 263	Survey of World Literature II

#### Upper Division Requirements

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

#### Upper Division Creative Writing Requirement

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 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 Requirements**

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

- ENG 384, 385, 386, 411, 484, 485, FLM 301, JRN 312, THE 424

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

Complete six (6) units from the following:

- COM 405 Rhetorical Criticism
- ENG 350 Research and Writing in Literature and Language
- ENG 401 Literary Theory and Criticism
- ENG 454 Writing in Context
- ENG 463 Language Structure and Acquisition
- JRN 349 Editing for Print and Online Media
- PHI 312 Aesthetics

**Upper Division Literature Elective Requirements)**

Complete six (6) units of literature from the following:

- ENG 303, 313, 323, 333, 343, 345, 355, 365, 400, 403, 413, 433, 434, 440, 443, 460

**Upper Division Literature and the Arts Elective Requirements)**

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

- ART 346, 385, COM 333, ENG 303, 313, 323, 333, 343, 345, 350, 353, 354, 355, 363, 365, 400, 401, 403, 413, 433, 434, 440, 443, 454, 460, 463, FLM 350, 470, MUS 332, THE 332, 342.

**Creative Writing Minor (18 Units)****Lower Division Requirements**

- 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 Requirements**

Complete three (3) additional units from the following:

- ENG 384, 385, 386, 411, 431, 484, 485, FLM 301, JRN 312, THE 424

## CRIMINAL JUSTICE

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

### TRADITIONAL PROGRAM REQUIREMENTS

#### Criminal Justice Major (42 units) BS

##### Lower Division Requirements

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

##### Upper Division Requirements

CJS	301	Fundamentals of Criminal Law
CJS	321	Courts and Criminal Procedure
CJS	331	Police Systems and Practices
CJS	341	Minorities in the Criminal Justice System
CJS	485	Methods of Research for Criminal Justice
CJS	496	Institutional and Community Corrections
CJS	499	Senior Project
POL	485	Constitutional Law II

##### Upper Division Elective Requirements

Complete nine (9) units from the following:

CJS	400	Special Topics in Criminal Justice
CJS	401	Crime and Delinquency
CJS	402	Hate Crime
CJS	421	Narcotics
CJS	441	Fundamentals of Criminal Investigation and Report Writing
CJS	497	Comparative Criminal Justice

#### Criminal Justice Minor (21 units)

##### Lower Division Requirements

CJS	113	Introduction to Criminal Justice
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##### 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 Procedure
CJS	341	Minorities in the Criminal Justice System
CJS	400	Special Topics in Criminal Justice
CJS	401	Crime and Delinquency
CJS	402	Hate 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
POL	493	Principles of Public Administration

### Criminal Justice Course Descriptions

CJS 113	Introduction to Criminal Justice (3) 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.	Fall, Spring
CJS 120	Firearms (1) 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 owner-ship, handgun shooting sports and activities, ballistics, and firearms cleaning and maintenance. Additional lab fee. Pass/Fail.	Fall, Spring



CJS 200	<b>Special Topics (1-3)</b> An examination of a specific issue in the field of Criminal Justice. Course is repeatable for credit with a change in topic.	As offered
CJS 301	<b>Fundamentals of Criminal Law (3)</b> 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; criminal responsibility.	Fall, Spring
CJS 304	<b>Ethics for Law Enforcement (3)</b> 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.	Online and Professional Studies
CJS 321	<b>Courts and Criminal Procedures (3)</b> A study of the judiciary in the criminal justice system; history and 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, sentencing.	Fall, Spring
CJS 331	<b>Police Systems and Practices (3)</b> 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.	Fall, Spring
CJS 341	<b>Minorities and the Criminal Justice System (3)</b> 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.	Fall, Spring
CJS 350	<b>Emergency Management (3)</b> 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.	Online and Professional Studies
CJS 355	<b>Information Management (3)</b> 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.	Online and Professional Studies
CJS 360	<b>Historical Perspectives of Criminal Justice (3)</b> 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.	Online and Professional Studies
CJS 400	<b>Special Topics (1-3)</b> An examination of a specific issue in the field of Criminal Justice. Course is repeatable for credit with a change in topic.	As offered
CJS 401	<b>Crime and Delinquency (3)</b> 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.	Fall
CJS 402	<b>Hate Crime (3)</b> 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.	Spring (odd years)
CJS 421	<b>Narcotics (3)</b> This course will examine the role of narcotics/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/regulatory, social and political context; patterns and drugs of abuse; and strategies of enforcement and rehabilitation.	Fall

## Academic Programs

CJS 441	<b>Fundamentals of Criminal Investigation and Report Writing (3)</b> 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; case and trial preparation.	Spring
CJS 472	<b>Terrorism and Homeland Security (3)</b> 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.	Online and Professional Studies
CJS 481	<b>Statistics for Criminal Justice Law Enforcement (3)</b> An introduction to elementary statistical methods commonly used in criminological and criminal justice research. Students will obtain sufficient statistical knowledge that they can use to read and understand the professional criminological literature that uses statistical methods. It will also prepare students to use elementary statistical methods in their own research in graduate school or in their professional careers, and it will help students build the statistical background necessary for the study of more advanced statistical topics. Prerequisite: Criminal Justice Administration major.	Online and Professional Studies
CJS 485	<b>Methods of Research for Criminal Justice (3)</b> 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.	Fall
CJS 496	<b>Institutional and Community Corrections (3)</b> 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.	Fall, Spring
CJS 497	<b>Comparative Criminal Justice (3)</b> 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.	Spring
CJS 499	<b>Senior Project (3)</b> 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. Prerequisite: CJS 485 and Senior status.	Spring

## DESIGN

### Design Course Descriptions

DES 110	<b>Design Thought Foundations I (3) I, M</b> The course will be an introduction to 2D design thinking, as applied to the interrelated, interdisciplinary fields of design and as understood from a biblical world-view. Basic design theories, principles, major movements and works will be covered. Basic creative approaches and design expressions are explored through projects, class discussions, field trips and lectures. This course is an introduction to the design paths available through the College of Architecture, Visual Arts, and Design, but also serves non-design majors interested in discovering design.	Fall, Spring
DES 112	<b>Design Thought Foundations II (3) I, M</b> The course continues the process of understanding and applying design thinking through an exploration of 3D design theories, principles and applications. Topics include developing a larger framework for design, design methods, human factors, and environmental factors, as well as application, integration and sharing of knowledge as related to Design Thought in the various disciplines of the College of Architecture, Visual Arts and Design. Prerequisites: DES 110.	Fall, Spring
DES 120	<b>2D Visual Expression (3) I</b> 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 two dimensional visual expression through graphic representation.	Fall

DES 122	<b>3D Visual Expression (4) I</b> 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 visual expression through graphic representation. Prerequisites: DES 110 and 120.	Spring
DES 491	<b>Design Internship (1-3)</b> 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. May be repeated for a maximum of three (3) units. Pass/Fail.	As offered
DES 498	<b>Portfolio (3) I</b> 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.	Fall, Spring

## DIVERSITY

### Diversity Certificate

The Diversity 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 diversity designed for students with a major outside the School of Behavioral Sciences who wish to supplement their academic interest or goals.

#### Certificate Requirements (12 units)

ANT 430	Psychological Anthropology
SOC 345	Race and Ethnicity
SOC 347	Sociology of Gender
SOC 348	Sociology of Aging

## EARLY CHILDHOOD STUDIES

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 PROGRAM REQUIREMENTS

#### Early Childhood Studies Major (55 units) BA

##### Upper Division Requirements

ECH 320	Cognitive Development in Infancy and Early Childhood
ECH 340	Perceptual Motor Development in Infancy and Early Childhood
ECH 350	Social and Emotional Development in Infancy and Early Childhood
ECH 365	Assessment of Young Children including Children with Disabilities
ECH 370	Spiritual Development in Young Children
ECH 395	Learning Environments for Young Children including Children with Disabilities
ECH 435	Cross Cultural Perspectives of Young Children including Children with Disabilities
ECH 440	STEM Curriculum Integrated with the Arts
ECH 460	Adult Supervision
ECH 461	Administration of Early Childhood Programs I
ECH 462	Administration of Early Childhood Program II
ECH 495	Practicum in Early Childhood and Intervention
ECH 498	Early Childhood Studies Portfolio

##### Early Childhood Intervention Concentration Requirements

ECH 375	Early Intervention: Early Childhood Special Education
ECH 385	Theories and Models of Understanding Behavior in Young Children with Disabilities
ECH 415	Consultation and Collaboration in Early Childhood Intervention
ECH 425	Low Incidence Disabilities in Young Children
ECH 455	Research Seminar in Early Childhood including Early Childhood Intervention
EDU 341	The Exceptional Child

##### Optional Courses for Credential

EDU 409	Educational Psychology
ENG 463	Language Structure and Acquisition
ETC 407	Technology and Learning

## Academic Programs

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### Early Childhood Studies Course Descriptions

- ECH 320**      **Cognitive Development in Infancy and Early Childhood (3)**      **Fall**  
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.
- ECH 340**      **Perceptual-Motor Development in Infancy and Early Childhood (3)**      **Fall**  
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.
- ECH 350**      **Social and Emotional Development in Infancy and Early Childhood (3)**      **Spring**  
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.
- ECH 360**      **Early Childhood Curriculum (3)**      **Online and Professional Studies**  
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.
- ECH 365**      **Assessment of Young Children including Children with Disabilities (3)**      **Spring**  
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.
- ECH 370**      **Spiritual Development in Young Children (3)**      **Spring**  
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.
- ECH 375**      **Early Intervention: Early Childhood Special Education (3)**      **Fall**  
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.
- ECH 385**      **Theories and Models for Understanding Behavior in Young Children with Disabilities (3)**      **Spring (odd years)**  
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.
- ECH 395**      **Learning Environments for Young Children including Children with Disabilities (3)**      **Fall (even years)**  
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.
- ECH 415**      **Consultation and Collaboration in Early Childhood Intervention (3)**      **Spring (even years)**  
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.
- ECH 425**      **Low Incidence Disabilities in Young Children (3)**      **Fall**  
Through fieldwork and interaction with professionals from the community, student will become familiar with the particular needs of young children with low incidence disabilities and their families.

ECH 435	<b>Cross Cultural Perspectives of Children including Children with Disabilities (3)</b> 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.	Fall (odd years)
ECH 440	<b>STEM Curriculum Integrated with the Arts (3)</b> 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. Prerequisite: ECH 320, 340, and 350.	Spring
ECH 455	<b>Research Seminar in Early Childhood including Early Childhood Intervention (3)</b> 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 student will write an integrative research review in an area of interest, and they will orally present their review to class members.	Spring
ECH 460	<b>Adult Supervision (3)</b> This course is a study of the methods and principles of supervising teachers, assistant teachers, student teachers, parents and volunteers in early childhood/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 2 units in adult supervision. Prerequisite: ECH 320, 340, and 350.	Fall
ECH 461	<b>Administration of Early Childhood Programs I (3)</b> 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/program development, adult supervision and management, family and community relationships, human resources development, business/fiscal management, and technological skill development. This course satisfies the Child Development Permit Requirement for Site Supervisor and Program Director Levels. Pre- or Co- requisite: ECH 460.	Fall
ECH 462	<b>Administration of Early Childhood Programs II (3)</b> 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, team work, 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. Prerequisite: ECH 461.	Spring
ECH 495	<b>Practicum in Early Childhood and Intervention (3)</b> 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. Prerequisite: Permission of the School of Education.	Fall, Spring
ECH 498	<b>Early Childhood Studies Portfolio (1)</b> 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. Pass/Fail.	Spring

## EDUCATION (also see Liberal Studies)

### Education Professional Methods for Credential Programs

Students with a cumulative GPA of 2.75 or higher who are pursuing the Professional Methods Program will need acceptance into the program. See the School of Education section of the catalog for acceptance requirements. Professional Methods for Multiple Subject Requirements can be found with the Liberal Studies Major (Elementary Subject Matter Program).

#### Professional Methods for Single Subject Requirements

EDU 315	Reading and Writing in the Content Area
EDU 409	Educational Psychology
EDU 411	Theories and Methods of Teaching Diverse Students
EDU 440	Classroom Management and Ethics
EDU 490	Subject Area Specialization
EDU 497	Secondary Methods
ETC 407	Technology and Learning

### Education Course Descriptions

EDU 200	<b>Special Topics in Education (3)</b> Concentration upon a specific topic in the field of education. Topic varies for different semesters. May be taken multiple times with change in topic.	As offered
EDU 300	<b>American Public School (3)</b> 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. Cultural Plunge plus ten hours of fieldwork are required. A certificate of clearance is required prior to engaging in fieldwork. Prerequisite for all other education courses.	Fall, Spring, Summer
EDU 302	<b>Growth, Development and Learning (3)</b> 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. Fifteen (15) hours of required fieldwork. A certificate of clearance is required prior to engaging in fieldwork. Prerequisite for all other education courses.	Fall, Spring, Summer
EDU 315	<b>Reading and Writing in the Content Areas (3)</b> 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. Twenty hours of fieldwork required. Prerequisite: Credential Program Acceptance.	As offered
EDU 341	<b>The Exceptional Child (3)</b> 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. Ten hours of fieldwork is required. A certificate of clearance is required prior to engaging in fieldwork.	Fall, Spring
EDU 399	<b>Independent Study (3)</b> An opportunity for students who have demonstrated the ability to do independent work to pursue in depth a topic of particular interest.	
EDU 400	<b>Special Topics in Education (3)</b> Concentration upon a specific topic in the field of education. Topic varies for different semesters. May be taken multiple times with change in topic.	As offered

EDU 405	<b>Teaching Math and Science (3)</b> 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. A minimum of 20 hours of observation and participation in Math and Science classrooms is required with the purpose of providing students with opportunities to apply methods learned in this course to public school settings. Prerequisite: Credential Program Acceptance.	As offered
EDU 409	<b>Educational Psychology (3)</b> This course will equip candidates to appraise the relationship between the theories and practices of human development and teaching/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. Four (4) hours of fieldwork is required.	Fall, Spring, Summer
EDU 411	<b>Theories and Methods of Teaching Diverse Students (3)</b> 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. Ten (10) hours of fieldwork is required.	Fall, Spring, Summer
EDU 412	<b>Teaching Language Arts and Social Studies (3)</b> 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. Twenty (20) hours of fieldwork is required. Prerequisite: Credential Program Acceptance.	As offered
EDU 416	<b>Teaching Reading and Phonics (3)</b> This course consists of the study of current best theories and practices in the teaching of listening, speaking, reading and writing for the production of a balanced literacy program in public/private schools. Cultural and linguistic differences will be examined as they pertain to literacy instruction and communication. Phonics skills for teaching and learning will be stressed. Students will be required to spend two hours per week (or 20 hours), at an approved elementary school site observing, participating and tutoring students in reading. Approved by the California Commission on Teacher Credentialing for teacher preparation in comprehensive, balanced literacy instruction. Prerequisite: Credential Program Acceptance.	As offered
EDU 440	<b>Classroom Management and Ethics (3)</b> This course is a study of the techniques, procedures and discipline models that can help make the difficult tasks of managing and disciplining much easier. Students will learn how to establish and maintain a classroom environment where positive behavior support is practiced. The classroom will be free from coercion and punishment. Interventions will be positive, proactive, and respectful of students. The course will also examine classroom discipline dimension: teacher responses to inappropriate behavior, the differences between emergency interventions, on-going positive behavioral support, and age-appropriate least intrusive strategies. Students will evaluate a variety of behavior management methods including functional analysis assessment. They will design their own behavior plan based on functional behavior analysis. The course will aid special education and mainstream education teachers in maximizing educational experiences for all students, including those with serious behavior disorders. Ten hours of fieldwork required. Required for both Multiple Subject and Single Subject Credentials. Prerequisite: Credential Program Acceptance.	As offered
EDU 450	<b>Bilingual Issues and Methods (3)</b> 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.	As offered
EDU 490	<b>Subject Area Specialization (3)</b> 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 30 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. Prerequisite: Credential Program Acceptance.	As offered

## Academic Programs

EDU 497	<b>Secondary Methods (3)</b> Various research-based instructional techniques, planning strategies, methods, and assessment practices for the secondary schools, both public and private, are examined. Thirty hours of structured observation is required, equally divided between the middle school and high school classroom. Prerequisite: Credential Program Acceptance.	As offered
EDU 498	<b>Student Teaching and Seminar (15)</b> Teaching experience in the public school under the guidance of a university supervisor with cooperation of a master credentialed teacher in the public school. Open to Multiple Subject credential candidates who have been accepted by the Teacher Education Committee and who have been cleared for student teaching. Pass/Fail.	As offered
ETC 305	<b>Educational Computing – Level I (3) I</b> A study of a variety of applications of computers within the curriculum to improve learning and educational opportunities. Includes software evaluation, selection, and use of various computer-based applications. Approved by the California Commission on Teacher Credentialing to meet Level I requirements for a Preliminary Credential.	Fall, Spring, Summer
ETC 407	<b>Technology and Learning (3)</b> 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.	Fall, Spring, Summer

## ELECTRICAL AND COMPUTER ENGINEERING

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 Electrical and Computer Engineering degree program is accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET), <http://abet.org>.

### TRADITIONAL PROGRAM REQUIREMENTS

#### Electrical and Computer Engineering Degree (124-125 units) BSECE

##### 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.

##### Math and Science Unit Requirement

<sup>†</sup>A minimum of thirty two (32) units of Math or Science coursework is required for the degree. Courses in the degree designated with a ‘†’ meet this requirement.

##### Lower Division Core Engineering Requirements (15 units)

EGR 101	Engineering from a Christian Worldview OR EGR 301*
EGR 102	Introduction to Engineering Design
EGR 103	Engineering Service I OR EGR 303*
EGR 121	Introduction to Computer Programming in C++
EGR 122	Visualization Languages I
EGR 192	Engineering Seminar I OR EGR 392*
EGR 202	Worldview Reflection I

\*Junior/Senior transfer students will complete EGR 301, 303, and 392. All other students will complete EGR 102, 103, and 192.

##### Upper Division Core Engineering Requirements (14 units)

EGR 302	Engineering Design and Documentation
EGR 304	Leadership Cohort
EGR 305	Engineering Statistics <sup>†</sup>
EGR 306	Internship Preparation
EGR 390	Internship
EGR 401	Capstone Design
EGR 402	Capstone Design Presentation
EGR 403	FE Exam
EGR 404	Worldview Reflection II
EGR 405	Internship Report and Presentation
EGR 406	Senior Portfolio



**Math and Science Requirements (30-31 units)**

EGR 182	Introductory Mathematics for Engineering Applications <sup>†</sup>
EGR 382	Applied Differential Equations and Linear Algebra <sup>†</sup>
MAT 245	Analytical Geometry and Calculus I <sup>†</sup>
MAT 255	Analytical Geometry and Calculus II <sup>†</sup>
MAT 343	Multivariable Calculus <sup>†</sup>
PHY 201	Physics for Engineers I with Lab <sup>†</sup>
PHY 203	Physics for Engineers II with Lab <sup>†</sup>

Complete three (3) additional units in Science<sup>†</sup> \*

\*Recommend BIO 146, 153, CHE 115 or 130

**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 332	Communication Systems
EGR 333	Electronics I
EGR 334	Electronics II
EGR 335	Data Acquisition, Design and Visualization
EGR 431	Control Systems
EGR 432	Applied Electromagnetics

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.

## ENGINEERING (also see Biomedical, Chemical, Civil, Electrical and Computer, Industrial and Systems, Mechanical, and Software Engineering)

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 PROGRAM REQUIREMENTS

#### Engineering Degree (124-130 units) BSE

**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 (15 units)**

EGR 101	Engineering from a Christian Worldview OR EGR 301*
EGR 102	Introduction to Engineering Design
EGR 103	Engineering Service I OR EGR 303*
EGR 121	Introduction to Computer Programming in C++
EGR 122	Visualization Languages I
EGR 192	Engineering Seminar I OR EGR 392**
EGR 202	Worldview Reflection I*

\*Junior/Senior transfer students will complete EGR 301, 303, and 392. All other students will complete EGR 102, 103, and 192.

\*\*Successful completion of EGR 202 is required for entrance into the Engineering degree program

## Academic Programs

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### 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 390	Engineering
EGR 401	Capstone Design
EGR 402	Capstone Design Presentation
EGR 403	FE Exam
EGR 404	Worldview Reflection II
EGR 405	Internship Report and Presentation
EGR 406	Senior Portfolio

### Math and Science Requirements (16 units)

EGR 182	Introductory Mathematics for Engineering Applications
MAT 245	Analytical Geometry and Calculus I
PHY 201	Physics for Engineers I with Lab
PHY 203	Physics for Engineers II with Lab

### Upper Division General Engineering Elective Requirements (9 units)

Complete nine (9) additional upper division engineering elective units\*

\*Recommendations include EGR 332, 341, 345, 432, 453

### 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.

### Concentration Requirements (43-60 units)

Students must complete all requirements in one of the following concentrations:

Agricultural; Business; Global Applications; Pre-Law

#### Agricultural Concentration (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
NFS 480	Agriculture, Nutrition, and International Development

#### Business Concentration (49-51 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 130	Introduction to Chemistry for Engineers or CHE 115
CIS 265	Information Systems Essentials

**Lower Division Engineering Elective Requirements**

Complete one of the following courses:

EGR 231	Circuit Theory
EGR 234	Digital Logic Design
EGR 241	Statics

**Upper Division Requirements**

BUS 358	Business Law
BUS 334	International Business
BUS 463	Business and Organizational Management
MKT 333	Principles of Marketing

**Upper Division Engineering Elective Requirements**

Nine (9) additional upper division approved engineering elective units

**Global Applications Concentration (43-45 units)****Lower Division Requirements**

BIO 146	General Biology I with Lab
CST 105	Introduction to Global Studies
CST 205	Models of Discipleship
CHE 130	Introduction to Chemistry for Engineers or CHE 115
SOC 213	Introduction to Sociology

**Lower Division Engineering Elective Requirements**

Complete one of the following courses:

EGR 231	Circuit Theory
EGR 234	Digital Logic Design
EGR 241	Statics

**Upper Division Requirements**

CST 305	Global Perspectives
CST 405	Marketplace Strategies for Global Advancement
ICS 430	Intercultural Communications
PHI 353	Comparative Religions
POL 415	World Geography

**Upper Division Engineering Elective Requirements**

Nine (9) additional upper division approved engineering elective units

**Pre-Law Concentration (58-60 units)****Lower Division Requirements**

BIO 146	General Biology I with Lab
CHE 130	Introduction to Chemistry for Engineers or CHE 115
COM 113	Communication Arts
POL 213	American Government
POL 223	State and Local Government

**Lower Division Engineering Elective Requirements**

Complete one of the following courses:

EGR 231	Circuit Theory
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
PHI 300	Logic
PHI 323	Ethics
PHI 324	Applied Ethics
POL 330	Law and Literature
POL 440	Pre-Law Internship (3 units)
POL 453	Administrative Law and Bureaucracy
POL 484	Constitutional Law I

**Upper Division Engineering Elective Requirements**

Nine (9) additional upper division approved engineering elective units

## Academic Programs

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### Engineering Course Descriptions

- EGR 101**      **Engineering from a Christian Worldview (3) I, M**      **Fall**  
Serves as an introduction to the exciting field and vocation of engineering and the value of engineering training. Guest lectures from engineers, and introduction to teams through a group project will be included. Exploration of the concept of worldview from a Christian perspective is stressed. Emphasis will include Christian perspectives on purpose, integrity, discernment and service as they relate to the vocation of engineering. An assessment of one's learning style, temperament and potential strengths and weaknesses as part of self discovery will be included. The first course required of all students considering engineering as a major.
- EGR 102**      **Introduction to Engineering Design (4) I**      **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.
- EGR 103**      **Engineering Service I (1-3)**      **Fall**  
Taking engineering out into the community through service. Activities important to the community will be addressed by teams of engineering students. Sample possibilities include: 1) designing a booth for a engineering firm for the fall STEP event in Riverside, 2) judging local science fairs, 3) working on a Habitat for Humanity house, 4) assisting local high school engineering clubs, 5) addressing a local community issue like transportation, energy usage, after school activities for youth etc. Intended to stimulate ideas of engineering design classes. Reflection paper and final report evaluated for acceptance into the major in the spring of the sophomore year. May be repeated for credit. Pre- or Co- requisite: CON 102 or EGR 101.
- EGR 121**      **Introduction to Computer Programming in C++ (3) I**      **Fall, Spring**  
Introduction to computer science. Covers problem solving methods and algorithm development; modern programming methodologies; and fundamentals of high-level block structured language using C++. Prerequisite: EGR 181 or MAT 115.
- EGR 122**      **Visualization Languages I (3) I**      **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.
- EGR 181**      **Elementary Mathematics for Engineering Applications with Lab (4)**      **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, and matrices and determinants, and finally, sequences and series.
- EGR 182**      **Introductory Mathematics for Engineering Applications (4)**      **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 and differential equations within the context of an engineering application, and reinforce through extensive examples of their use in the core engineering courses. Students may only earn credit for either EGR 182 or EGR 182L. Prerequisite: EGR 181 or MAT 115.
- EGR 182L**      **Introductory Mathematics for Engineering Applications Lab (1)**      **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. Prerequisite: Permission of the Dean or Department Chair.
- EGR 192**      **Engineering Seminar I (1)**      **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. Reflections should be included in the EGR 202 response. May be repeated for credit.

EGR 202	<b>Worldview Reflection I (0)</b> A reflection paper will be submitted including your understanding of the college of engineering's mission statement. The paper will document and draw upon the materials from EGR 101,102, 103, 122 and 192 . Upon completion and acceptance a party in your honor including a book signed by your professors and given to you will occur. Required for acceptance into the major.	Spring
EGR 221	<b>Data Structures (3)</b> Develops discipline in program design, style, debugging, testing. Examines linked data structures, trees, introduction to graphs, and recursion. Prerequisite: CIS 268 or EGR 121.	Spring
EGR 222	<b>Software Engineering (3)</b> 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. Prerequisite: CIS 268 or EGR 121.	Fall
EGR 223	<b>Software Engineering Approach to Human Computer Interaction (3)</b> Design, implementation and evaluation of user interfaces. Usability engineering. Task analysis, user-centered design, and prototyping. Conceptual models and metaphors for user interfaces. Prerequisite: EGR 222.	Spring
EGR 225	<b>Discrete Structures I (3)</b> 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.	Fall
EGR 226	<b>Operating Systems and Networking (3)</b> Introduces the fundamentals of operating systems including processes, memory, scheduling, input/output together with the basics of networking protocols. Prerequisite: EGR 222.	Spring
EGR 231	<b>Circuit Theory I (4)</b> 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. Pre- or Co-requisites: EGR 102 and either EGR 182 or MAT 245.	Fall
EGR 232	<b>Circuit Theory II and Design (4)</b> 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. Prerequisite: EGR 231.	Spring
EGR 234	<b>Digital Logic Design (4)</b> 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. Prerequisite: MAT 115 or above.	Fall
EGR 241	<b>Statics (3)</b> 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. Prerequisites: EGR 182 or MAT 245.	Fall
EGR 242	<b>Strength of Materials (3)</b> Introduction of stress and strain, stress transformations, analysis of stresses, strain, and deflections in axial members, beams, and torsional shafts. Analysis of pressure vessels. Prerequisites: EGR 241 and either EGR 182 or MAT 245.	Spring
EGR 251	<b>Surveying (4)</b> 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.	Fall
EGR 252	<b>Transportation (3)</b> 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. Prerequisites: EGR 251 and MAT 255.	As offered

## Academic Programs

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EGR 254	<b>Materials Engineering (3)</b> 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 to 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.	Spring
EGR 256	<b>Principles of Environmental Engineering and Science (3)</b> 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. Prerequisite: CHE 115 or 130.	Spring
EGR 261	<b>Fundamentals of Bioengineering I (3)</b> 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. Prerequisite: EGR 182 or MAT 245.	Fall
EGR 262	<b>Fundamentals of Bioengineering II (3)</b> 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. Prerequisite: EGR 261.	Spring
EGR 263	<b>Introduction to 3D Computer Aided Design (2)</b> 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.	Fall
EGR 271	<b>Basic Principles and Calculations in Chemical Engineering I (2)</b> An introduction to concepts used in chemical engineering calculations including chemical process variables and conservation principles of mass applied to various chemical systems. Prerequisite: MAT 245; Pre- or Co- requisite: CHE 115.	Fall
EGR 272	<b>Basic Principles and Calculations in Chemical Engineering II (2)</b> A continuation of EGR 271 including conservation principles of energy applied to various chemical systems and the application of basic thermodynamic principles. Prerequisite: EGR 271; Pre- or Co- requisite: CHE 125.	Spring
EGR 281	<b>Introduction to Industrial and Systems Engineering (3)</b> 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.	Fall
EGR 291	<b>Special Topics or Research Project (1-3)</b> 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. Prerequisites: EGR 101 and Permission of the Dean.	Fall
EGR 296	<b>Project or Research Experience (0-3)</b> 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. May be repeated for a maximum of six (6) units. Pass/Fail. Prerequisite: Permission of the Department Chair.	Summer
EGR 301	<b>Engineering from a Christian Worldview (3)</b> Fulfills the requirement of EGR 101 for transfers with upper division status. Serves as an introduction to the exciting field and vocation of engineering and the value of engineering training. Guest lectures from engineers, and introduction to teams through a group project will be included. Exploration of the concept of worldview from a Christian perspective is stressed. Emphasis will include Christian perspectives on purpose, integrity, discernment and service as they relate to the vocation of engineering. An assessment of one's learning style, temperament and potential strengths and weaknesses as part of self discovery will be included. The first course required of all students considering engineering as a major. Pre- or Co- requisite: EGR 303.	Fall

EGR 302	<b>Engineering Design and Documentation (3) I</b> 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. Prerequisite: EGR 202. Pre- or Co- requisite: CON 310 or EGR 305.	Spring
EGR 303	<b>Engineering Service II (1-3)</b> Taking engineering out into the community or a cross cultural setting through service. Could be taken in conjunction with the ISP or study abroad option. See sample possibilities in EGR 103. Fulfills the requirement of EGR 103 for upper division transfers. Reflection paper and final report are evaluated for EGR 404. May be repeated for credit. Prerequisite: Junior status.	Fall
EGR 304	<b>Leadership Cohort (1) I, M</b> 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. Prerequisite: Permission of the Department Chair.	Spring
EGR 305	<b>Engineering Statistics (2) I</b> 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, application of the Central Limit Theorem, confidence intervals, and recurrence intervals. Monte Carlo simulation techniques are used to estimate the failure likelihood of an engineering system. Prerequisite: MAT 245.	Fall, Spring
EGR 306	<b>Internship Preparation (1) I, M</b> Designed to prepare you for the official internship during your junior summer. Discussion and development of the individuals 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. Pre- or Co- requisite: EGR 202.	Fall
EGR 320	<b>Software Quality Assurance and Testing (3)</b> Quality assurance and verification along with the need for a culture of quality. Avoidance of errors and other quality problems. Inspections and reviews. Testing, verification and validation techniques. Process assurance versus Product assurance. Quality process standards. Product and process assurance. Problem analysis and reporting. Statistical approaches to quality control. Prerequisite: EGR 222.	Fall
EGR 321	<b>Computer Organization (3)</b> 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. Prerequisites: EGR 234.	Fall
EGR 322	<b>Microcontroller System Design (3)</b> 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. Prerequisites: EGR 321.	Spring
EGR 323	<b>Software Requirements and Analysis (3)</b> Techniques for discovering and eliciting requirements. Languages and models for representing requirements. Analysis and validation techniques, including need, goal, and use case analysis. Requirements in the context of system engineering. Requirements documentation standards. Traceability. Human factors. Requirements management: Handling requirements changes. Prerequisite: EGR 222.	Spring
EGR 324	<b>Engineering Economics (3)</b> 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.	Fall
EGR 325	<b>Database Systems (3)</b> 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. Prerequisite: EGR 222.	Spring

## Academic Programs

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EGR 326	<b>Software Design and Architecture (3)</b> 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. Prerequisite: EGR 327.	Spring
EGR 327	<b>Software Construction (3)</b> 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. Prerequisites: EGR 221 and 222.	Fall
EGR 329	<b>Computer Architecture (3)</b> 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. Prerequisites: EGR 121 and 225.	Fall
EGR 331	<b>Signals and Systems (3)</b> 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. Prerequisites: EGR 232 and MAT 255.	Fall
EGR 332	<b>Communication Systems (3)</b> 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. Prerequisite: EGR 331.	Fall
EGR 333	<b>Electronics I (3)</b> Study of electronic devices and basic circuit configurations. Topics covered include amplifier basics, diodes, field effect transistors, and bipolar junction transistors. Includes lab problems. Prerequisite: EGR 232.	Fall
EGR 334	<b>Electronics II (3)</b> 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. Prerequisite: EGR 333.	Spring
EGR 335	<b>Data Acquisition, Design and Visualization (3)</b> 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. Prerequisite: EGR 232.	Fall
EGR 341	<b>Thermodynamics (3)</b> Thermodynamic properties, heat and work, first and second laws, processes, ideal and nonideal cycles. Prerequisites: CHE 115 or 130 and either PHY 203 or 214.	Fall
EGR 342	<b>Fluid Mechanics (3)</b> 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. Pre- or Co- requisite: MAT 342 or 343.	Spring
EGR 343	<b>Dynamics (3)</b> Kinematics and kinetics of particles and rigid bodies including Newton's Second Law, work energy methods, impulse-momentum, central and oblique impact. Prerequisites: EGR 241, MAT 255, and PHY 201.	Fall
EGR 344	<b>Materials and Manufacturing Processes (3)</b> 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. Prerequisite: EGR 242.	Fall



EGR 346	<b>Machine Design (3)</b> 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. Prerequisite: EGR 242.	Fall
EGR 351	<b>Structural Analysis I (3)</b> 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. Prerequisite: EGR 242.	Fall
EGR 352	<b>Structural Design I (3)</b> 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. Replaces EGR 302 core for Civil Engineers. Prerequisite: EGR 202 and 351.	Spring
EGR 353	<b>Soil Mechanics (3)</b> 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. Prerequisites: EGR 242 and 254.	Spring
EGR 354	<b>Soil and Foundation Engineering (3)</b> 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. Prerequisite: EGR 353.	Spring
EGR 356	<b>Hydrology (3)</b> 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. Prerequisite: MAT 245.	Spring
EGR 361	<b>Introduction to Biomechanics (3)</b> The course introduces the fundamental principles of mechanics applied to study the physiology of biological systems with emphasis of analyzing human movements. Primary topic areas will include kinematics, statics, and kinetics of human movement including joint and segment position (acceleration, velocity, force and torque; work and power; and inverse solution methods), and an overview of musculoskeletal anatomy and physiology. Prerequisites: BIO 153 and EGR 242.	Fall
EGR 362	<b>Engineering Physiology (2)</b> This course teaches students to model biological systems using engineering modeling techniques. Students will learn to model the systems and quantitatively analyze how a change in the biological system (such as disease) affects the output. The course will cover both cellular functions, such as sodium potassium pumps, and biological systems modeling, such as potential propagation, muscle dynamics, and disease-related phenomena. Prerequisites: BIO 153 and either EGR 231 or 262.	Fall
EGR 363	<b>Biofluid Mechanics and Relevant Technologies (3)</b> 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 and pulsatile flow in rigid tubes and how they relate to cardiovascular physiology, prosthetic heart valves and arteries, pulmonary physiology, and aqueous humor dynamics relevant to Glaucoma. Various mathematical modeling approaches will be included. Medical devices and sensors relating to fluid flow will be covered as well as a general overview of common medical device standards. Course includes a weekly laboratory session. Prerequisites: EGR 382 and either EGR 262 or PHY 203.	Fall
EGR 364	<b>Bioimaging (3)</b> 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. Prerequisite: EGR 382.	Spring
EGR 365	<b>Biomedical Engineering Research and Instrumentation (3)</b> 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. Prerequisite: EGR 262; Concurrent Requisite: EGR 305.	Spring

## Academic Programs

EGR 371	<b>Heat and Mass Transport (3)</b> 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. Prerequisites: EGR 272, 342, and MAT 342; Pre- or Co- requisite: CHE 415.	Fall
EGR 372	<b>Chemical Engineering Thermodynamics (3)</b> The fundamentals and applications of thermodynamic properties and processes with a focus on multi-component systems including phase equilibria, nonideal solution behavior, and chemical reaction equilibria. Turbines, compressors, power plants, refrigeration cycles. Prerequisites: EGR 272, MAT 342, and CHE 415.	Spring
EGR 373	<b>Material Engineering and Selection (2)</b> 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. Prerequisite: CHE 125.	Fall
EGR 374	<b>Separations (3)</b> 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. Prerequisite: EGR 371; Pre- or Co- requisite: EGR 372.	Spring
EGR 381	<b>Operations Research I: Deterministic Methods (3)</b> Introduction to linear programming; transportation and assignment problems; dynamic programming; integer programming; nonlinear programming. Prerequisite: EGR 382.	Fall
EGR 382	<b>Applied Differential Equations and Linear Algebra (3)</b> 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. Prerequisites: EGR 121 and MAT 255.	Spring
EGR 383	<b>Quality Control (3)</b> 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. Prerequisite: EGR 305.	Fall
EGR 384	<b>Human Factors and Ergonomics (3)</b> Physiological systems and psychological characteristics; ergonomics; anthropometry; effects of the physical environment on humans; occupational safety and health; work methods. Prerequisite: EGR 305.	Spring
EGR 386	<b>Operations Research II: Probabilistic Methods (3)</b> 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. Prerequisite: EGR 305.	Spring
EGR 390	<b>Internship (0)</b> 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.	As offered
EGR 392	<b>Engineering Seminar II (1)</b> 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. May be repeated for credit.	Spring
EGR 401	<b>Capstone Design (3) I</b> 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. 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. Prerequisite: EGR 302 or 352; Concurrent Requisite: EGR 403.	Fall

EGR 402	<b>Capstone Design and Presentation (3)</b> A continuation of EGR 401. 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. Prerequisite: EGR 401; Concurrent Requisite: EGR 404 and 406.	Spring
EGR 403	<b>FE Exam (0)</b> A review course for general portion of Fundamental Engineering Exam. This course reviews four topics in common to all engineering majors and computer science major for Fundamental Engineering Exam or any equivalent exams in the field: Mathematics, Statistics, Economics, and Engineering Ethics. The topics are covered by different instructors in college of engineering. Fundamental Engineering Exam policies and test taking strategies are also covered. Prerequisite: Senior status.	Fall
EGR 404	<b>Worldview Reflection II (0)</b> A final integrative reflection paper on what you have learned about engineering from a Christian worldview perspective will be written and included in your portfolio.	Spring
EGR 405	<b>Internship Report and Presentation (1) I, M</b> An executive summary of your summer intern experience, signed by your supervisor will be submitted the first day of class. A PowerPoint presentation to the entire class and evaluated by your professors and peers will be made. A video of your presentation will be made and feedback will be provided.	Fall
EGR 406	<b>Senior Portfolio (0)</b> An electronic portfolio suitable for archiving and showing to prospective employers will be submitted. A copy will remain with the department for use in future letters of reference. Items to be included will be an updated resume, seminar reflections, samples of your design and writing capabilities including EGR 302 and 402 documentation, a sample of your presentation capabilities from EGR 402 final presentation and a record of your service activities.	Spring
EGR 423	<b>Mobile Applications Development (3)</b> 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 a mobile application. Prerequisite: EGR 327.	Fall
EGR 424	<b>Web Application Development (3)</b> The design and development of data driven web applications. The integration and exploitation of HTML, JavaScript, server-side programming languages and database technology. Prerequisite: EGR 325.	Spring
EGR 425	<b>RealTime and Embedded Development (3)</b> 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. Prerequisites: EGR 222 and 327.	Spring
EGR 427	<b>Software Project Management (3)</b> 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. Prerequisite: EGR 222.	Fall
EGR 431	<b>Control Systems (3)</b> 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. Prerequisite: EGR 331.	Spring
EGR 432	<b>Applied Electromagnetics (3)</b> 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. Prerequisite: EGR 232.	Spring
EGR 433	<b>Power Electronics (3)</b> 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. Prerequisites: EGR 334 and 431.	Fall
EGR 441	<b>Heat Transfer (3)</b> Steady and unsteady heat conduction including numerical solutions, thermal boundary layer concepts and applications to free and forced convection. Thermal radiation concepts. Heat equipment design. Prerequisite: EGR 341. Pre- or Co-Requisite: EGR 342.	Spring

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EGR 442	<b>Computer-Aided Engineering Design and Visualization (3)</b> Design, analysis and visualization of engineering components and systems using interactive computer programs with emphasis on computer simulation. Prerequisite: EGR 242.	Spring
EGR 443	<b>Mechanical Vibrations (3)</b> The theory and analysis of vibrating systems including single and multi-degrees of freedom, free and forced, vibrations, with and without damping. Prerequisites: EGR 343 and 382.	Spring
EGR 444	<b>Mechanical Engineering Laboratory (3)</b> 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. Prerequisites: EGR 305 and 441; Pre- or Co- requisite: EGR 443.	Spring
EGR 451	<b>Project and Construction Management (3)</b> An introduction to professional construction management practice including contracts, addendums, bonds, design-build, bids, specifications, scheduling, and other legal issues. Prerequisite: Junior or Senior status.	Fall
EGR 452	<b>Structural Dynamics and Earthquake Engineering (3)</b> 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. Prerequisites: EGR 351 and 343.	Spring
EGR 453	<b>Environmental Engineering I (3)</b> 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. Prerequisite: EGR 342.	Fall
EGR 454	<b>Environmental Engineering II (3)</b> 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. Prerequisite: EGR 453.	Spring
EGR 455	<b>Structural Design II (3)</b> Principles of the design of reinforced concrete structures. Design includes flexural members, compression members, one-way slabs and footings. ACI Strength Design Method. Prerequisite: EGR 352.	Fall
EGR 456	<b>Sustainable Civil Engineering (3)</b> 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. Prerequisite: EGR 256	Spring
EGR 457	<b>Transportation Engineering (3)</b> 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 barriers. Prerequisite: Junior or Senior status.	Fall
EGR 458	<b>Water Resources Engineering (3)</b> A continuation and extension of Fluid Mechanics with civil engineering applications of hydraulic and hydrologic engineering. Applications of the concepts from Fluid Mechanics (hydrostatics, conservation laws), analyses of pipe flows, pipe networks, hydraulic machinery, hydroelectric power, pressure conduits, reservoirs and dams, and open channel flow are covered. Prerequisites: EGR 342 and 356.	Fall, Spring
EGR 459	<b>Advanced Transportation Engineering (3)</b> 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. Prerequisite: EGR 251.	Spring

EGR 461	<b>Rehabilitation Engineering (3)</b> The course provides a basic understanding of assistive technology research and application in: wheelchair technology, augmentative communication, computer access, transportation safety, home and work site modifications, environmental access, and prosthetics. Issues related to terminology, interdisciplinary communication, consumer empowerment, information resources and service delivery development are also stressed. Course includes a weekly laboratory session that incorporates in vivo non-invasive kinematics measurements and also includes a design project focusing on prosthetic devices. Prerequisite: EGR 242.	Fall
EGR 462	<b>Biomaterials (3)</b> 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 / shunts. Topics to be included are: the manufacturing process, performance characteristics, biocompatibility testing, and long-term biological response (tissue formation / fibrosis). Relevant design considerations will be discussed, including common medical device standards relating to biomaterials testing and performance. Prerequisites: EGR 242, 382, and CHE 115 or 130.	Spring
EGR 464	<b>Neural Engineering (3)</b> 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. Prerequisites: BIO 153 and EGR 262.	Spring
EGR 473	<b>Chemical Reaction Engineering (3)</b> 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. Prerequisites: CHE 415 and EGR 371.	Fall
EGR 474	<b>Chemical Process Control (3)</b> Control theory and practice, instrumentation, system responses, transfer functions, feed-back control, and stability as applied to chemical engineering processes. Prerequisites: EGR 272 and MAT 342.	Spring
EGR 475	<b>Process Safety (2)</b> Fundamentals of chemical process safety including toxicology, industrial hygiene, toxic release and dispersion models, fires and explosions, and designs to prevent fires and explosions. Pre- or Co- requisite: EGR 473.	Fall
EGR 477	<b>Chemical Engineering Laboratory (3)</b> 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. Prerequisites: EGR 302 and 374.	Fall
EGR 481	<b>Systems Simulation (3)</b> 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. Prerequisites EGR 305.	Fall
EGR 482	<b>Supply Chain and Logistics Management (3)</b> 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. Prerequisites: EGR 305 and 381.	Spring
EGR 483	<b>Production Systems (3)</b> Production planning, forecasting, scheduling, and inventory; computer integrated decision systems in analysis and control of production systems, facilities layout and design. Prerequisites: EGR 305 and 381.	Fall
EGR 490	<b>Independent Study (1-3)</b> 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. May be repeated for up to 3 units.	
EGR 491	<b>Research Project (1-3)</b> 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. Prerequisite: EGR 101 and Permission of the Dean.	Fall

## ENGLISH

The English major prepares students for careers in a wide range of professions and ministries including secondary education, journalism, and writing, and for graduate study. The major develops composition skills and provides exposure to diverse literary styles. Students may earn a single subject matter competency for teaching English at the secondary level. Students interested in the single subject matter competency program should see the English Subject Matter Competence advisor, Professor Jennifer Tronti, with questions regarding program requirements. (Also see Education section for the Professional Methods Program for Single Subject Credential Students.)

### TRADITIONAL PROGRAM REQUIREMENTS

#### English Major (39 units) BA

##### Lower Division Requirements

- ENG 201 Introduction to Literature for Majors and Minors
- ENG 213 British Literature I OR 223 British Literature II
- ENG 233 American Literature I OR 243 American Literature II
- ENG 253 World Literature I OR 263 World Literature II

##### Upper Division Requirements

- ENG 313 Multicultural Literature
- ENG 350 Research and Writing in Literature and Language
- ENG 401 Literary Theory and Criticism
- ENG 413 Shakespeare Studies
- ENG 463 Language Structure and Acquisition
- ENG 499 Capstone Project

Complete six (6) upper division units from the following\*: ENG 303, 333, 343, 345, 353, 354, 355, 363, 365, 399, 400, 403, 433, 434, 440, 443, 460

Complete three (3) additional upper division units from the following\*: ENG 303, 323, 333, 343, 345, 353, 354, 355, 363, 365, 399, 400, 403, 433, 434, 440, 443, 460, FLM 340, 350, POL 330, THE 342

\*Students completing the Creative Writing concentration must select courses not included in the concentration.

##### Optional Concentration in Creative Writing\* (12 units)

##### Upper Division Creative Writing Elective 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 484 Advanced Fiction Writing
- ENG 485 Advanced Poetry Writing

##### Upper Division Writing Elective Requirements

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

ENG 384, 385, 386, 411, 484, 485, FLM 301, JRN 312, THE 424

\*The creative writing concentration requires the completion of twelve (12) units beyond the major. Students completing a minor in creative writing are not eligible to complete the creative writing concentration.

#### English Minor (18 units)

##### Lower Division Requirements

- ENG 201 Introduction to Literature for Majors and Minors
- Complete three (3) units from the following: ENG 213, 223, 233, 243, 253, 263

##### Upper Division Requirements

Complete twelve (12) upper division units in English  
Recommended courses: ENG 313, 350, 401, 413

### English Course Descriptions

- |         |   |              |
|---------|---|--------------|
| ENG 103 | Writing for University Success (3)<br>An approach to grammar designed to correct common errors in the mechanics of writing. Includes punctuation and spelling; focuses on grammatical problems in the sentence and the paragraph. Does not count toward the English requirements for a bachelor's degree. Placement into this course is determined by ACT/SAT scores. Placement may be challenged by the Writing Placement Exam. Pass/Fail. | Fall, Spring |
|---------|---|--------------|

ENG 113	<b>Composition (3)</b> 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 to fulfill general competency requirements and to proceed to ENG 123. Prerequisite: ENG 103. Placement into this course is determined by ACT/SAT scores. Placement may be challenged by the Writing Placement Exam.	Fall, Spring
ENG 123	<b>Intermediate Composition (3) M</b> Continued practice in writing with emphasis on critical thinking, argument, analysis and interpretation of multicultural readings and other interdisciplinary expository materials. Includes the writing of a major research paper (or report) in addition to several shorter essays requiring various types of documentation. Fieldwork required. This course requires LiveText. Prerequisite: ENG 113 with a grade of C- or better unless the student has demonstrated writing competence through a written placement exam. Note: Students must successfully complete this course with a grade of C- or better to fulfill general education requirements and to begin any literature course.	Fall, Spring
ENG 200	<b>Special Topics in English (3)</b> 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.	As offered
ENG 201	<b>Introduction to Literature for Majors and Minors (3) M</b> An intensive 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 ways of writing about literature. Majors and minors should take this introduction course during their sophomore year as soon as they successfully complete ENG 123. Prerequisite: ENG 123.	Fall, Spring
ENG 213	<b>Survey of British Literature I (3) M</b> Literature of Great Britain from the Middle Ages through the eighteenth century. Prerequisite: ENG 123.	Fall
ENG 223	<b>Survey of British Literature II (3) M</b> Literature of Great Britain from the Romantic Period to the present. Prerequisite: ENG 123.	Spring
ENG 233	<b>Survey of American Literature I (3) M</b> American literature from the Colonial Period to 1870. Prerequisite: ENG 123.	Fall
ENG 243	<b>Survey of American Literature II (3) M</b> American literature from 1870 to present. Prerequisite: ENG 123.	Spring
ENG 253	<b>Survey of World Literature I (3) M</b> World literature (excluding British and American) through the Renaissance. Prerequisite: ENG 123.	Fall
ENG 263	<b>Survey of World Literature II (3) M</b> World literature (excluding British and American) from Neoclassicism to present. Prerequisite: ENG 123.	Spring
ENG 273	<b>Introduction to Creative Writing (3)</b> This college level writing course is designed to introduce the creative writer to the literary genres, to encourage creativity, individuality, spontaneity and boldness for students in search of the writer within. The lecture/discussion is designed to encourage students to develop a writing voice and work toward a final project in one of the major genres. Prerequisite: ENG 123.	Fall, Spring
ENG 303	<b>Topics in World Literature (3) I, M</b> 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. Prerequisite: ENG 123. At least one literature survey course (ENG 253 or 263) recommended.	Fall
ENG 313	<b>Multicultural Literature (3) I, M</b> The literature of women and ethnic minorities. Recommended for Liberal Studies majors. Prerequisite: ENG 123. At least one literature survey course recommended.	Spring
ENG 323	<b>Classical Literature (3) I, M</b> 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. Prerequisite: ENG 123.	Fall

## Academic Programs

ENG 333	<b>Seventeenth Century British Literature (3)</b> The Metaphysical and Cavalier Poets, and the prose and poetry of John Milton, in historical context. Prerequisite: ENG 123. At least one literature survey course (ENG 213) recommended.	Fall (odd years)
ENG 343	<b>Eighteenth and Nineteenth Century British Literature (3)</b> The Neoclassical, Romantic, and Victorian Poets in historical context. Prerequisite: ENG 123. At least one literature survey course (ENG 223) recommended.	Fall (even years)
ENG 345	<b>Nineteenth Century American Literature (3) M</b> American literature and thought, 1800-1914, with emphasis on Poe, Hawthorne, Emerson, Dickinson, Douglass, Whitman, Melville, Stowe, and Twain. Prerequisite: ENG 123. At least one literature survey course (ENG 233 or 243) recommended.	Spring (odd years)
ENG 350	<b>Research and Writing in Literature and Language (3) M</b> 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. Prerequisite: ENG 123.	Fall
ENG 353	<b>Introduction to Children's Literature (3) I, M</b> 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 responses to children's literature. Meets the Liberal Studies requirement for Children's literature. Fieldwork required. Prerequisite: ENG 123.	Fall, Spring
ENG 354	<b>Children's Classics (3) I</b> 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. Prerequisite: ENG 123.	Fall (odd years)
ENG 355	<b>Folklore and Fairy Tales (3) M</b> 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. Prerequisite: ENG 123.	Fall (even years)
ENG 360	<b>Detective Fiction (3) I, M</b> 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. Prerequisite: ENG 123.	Online and Professional Studies
ENG 363	<b>Introduction to Young Adult Literature (3) I</b> 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. Prerequisite: ENG 123.	Spring
ENG 365	<b>Christian Classics (3)</b> 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. Prerequisite: ENG 123	Spring (odd years)
ENG 384	<b>Writing Fiction (3)</b> An intensive writing workshop designed to permit the student to study and practice fiction in various forms: articles, short stories, novels, etc. Prerequisite: ENG 123.	Fall
ENG 385	<b>Writing Poetry (3)</b> 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. Prerequisite: ENG 123.	Spring
ENG 386	<b>Writing Creative Nonfiction (3)</b> 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. Prerequisite: ENG 123.	Fall (odd years)
ENG 399	<b>Independent Study (3)</b> 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.	



ENG 400	<b>Special Topics in English (3)</b> 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. Prerequisite: ENG 123.	As offered
ENG 401	<b>Literary Theory and Criticism (3) I, M</b> Advanced study in theories of imaginative literature and in the issues of interpreting literary texts. Prerequisites: ENG 123, 201, and at least one literature survey course are required.	Spring
ENG 403	<b>The British Novel until 1900 (3)</b> The rise and development of the novel as a genre in Britain. Prerequisite: ENG 123. At least one literature survey course (ENG 223) recommended.	Spring (odd years)
ENG 411	<b>Special Topics in Creative Writing (3)</b> 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. May be repeated once for credit with change in topic. Prerequisite: ENG 123.	Fall (even years)
ENG 413	<b>Shakespeare Studies (3) I</b> Selected poems and plays are studied in their historical contexts. A variety of critical approaches are incorporated. Includes comedies, history plays, and tragedies. May be repeated once for credit. Prerequisite: ENG 123. At least one literature survey course (ENG 213) recommended.	Spring
ENG 431	<b>Literary Journal Editing and Publishing (3)</b> 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. Prerequisite: ENG 123.	Spring
ENG 433	<b>Major Author (3)</b> Focuses on the development of a major author's style and themes. Explores an individual body of work in depth. The author featured varies as the course is offered in different semesters or terms. See instructor for the current author. Past authors have included such diverse writers as John Milton, Philip Sidney, and Chaucer. May also include authors who write in languages other than English and be offered as a dual language course. Prerequisite: ENG 123.	Spring (odd years)
ENG 434	<b>Major Christian Authors (3)</b> Focuses on the development of style, themes, and worldview in a body of work by concentrating on no more than three Christian authors per semester, such as C.S. Lewis, J.R.R. Tolkien, Flannery O'Connor, Li-Young Lee, or Shusaku Endo. Explores this body of work in depth from the British, American, or world traditions. See instructor for the current author(s). Prerequisite: ENG 123.	Spring (even years)
ENG 440	<b>Modern American Literature (3)</b> Major fiction and poetry from 1900 to World War II. Prerequisite: ENG 123. At least one literature survey course (ENG 263) recommended.	Fall (even years)
ENG 442	<b>Teaching Second Language Writing (3)</b> 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. Prerequisite: ENG 123.	Fall (even years)
ENG 443	<b>Contemporary American Literature (3)</b> Major fiction and poetry from World War II to the present. Prerequisite: ENG 123. At least one literature survey course (ENG 263) recommended.	Spring (even years)
ENG 446	<b>Teaching Second Language Reading (3)</b> 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. Prerequisite: ENG 123.	Spring (even years)

## Academic Programs

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- ENG 452**    **Second Language Curriculum Development and Assessment (3)**    **Spring (odd years)**  
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. Prerequisite: ENG 123.
- ENG 454**    **Writing in Context (3) I, M**    **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. Prerequisite: ENG 123.
- ENG 460**    **Modern and Contemporary British Literature (3)**    **Spring (even years)**  
Prose, fiction, poetry, and drama from 1890 to the present, with emphasis on the Modernist writers. Prerequisite: ENG 123. At least one literature survey course (ENG 223) recommended.
- ENG 463**    **Language Structure and Acquisition (3) I, M**    **Fall, Spring**  
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. Prerequisite: ENG 123.
- ENG 472**    **Theory and Methods of TESOL (3)**    **Fall (odd years)**  
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 ENG 463 but will focus more on second language learners both in ESL and EFL settings. Prerequisite: ENG 123.
- ENG 484**    **Advanced Fiction Writing (3)**    **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. Prerequisite: ENG 384.
- ENG 485**    **Advanced Poetry Writing (3)**    **Fall**  
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. Prerequisite: ENG 385.
- ENG 498**    **Capstone in Creative Writing (3)**    **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. Prerequisite: Permission of the Department Chair.
- ENG 499**    **Capstone Project (3) I**    **Fall, Spring**  
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.

## ENGLISH AS A SECOND LANGUAGE (INTENSIVE ENGLISH PROGRAM)

The Intensive English Program (IEP) is a full-time, pre-academic program which facilitates early entrance into CBU by offering four levels of study.

### INTENSIVE ENGLISH PROGRAM (IEP)

#### Intensive English Program Course Progression

##### Beginning Level 1

ESL 070	Novice OR ESL 008 Pronunciation I OR GST 010 Lifeline
ESL 010	Basic Reading and Academic Vocabulary
ESL 011	Basic Writing with Grammar Emphasis
ESL 012	Oral Communication I
ESL 014	Lifeskills

##### Low Intermediate Level 2

ESL 090	Pronunciation II OR GST 010 Lifeline
ESL 030	Low Intermediate Reading and Academic Vocabulary
ESL 031	Low Intermediate Writing with Grammar Emphasis
ESL 032	Oral Communication II
ESL 034	Historical and Cultural Foundations of America

##### High Intermediate Level 3

ESL 050	Cultivating Reading Effectiveness and Word Analysis
ESL 051	Grammar Application in Paragraphs and Essays
ESL 052	Enhancing Basic Academic Discourse
ESL 053	Business English OR GST 010 Lifeline
ESL 054	Preparation for University Academic Culture

##### Advanced Level 4

ESL 070	Expanding Reading and Academic Vocabulary
ESL 071	Essay Construction and Basic Research Skills
ESL 072	Communicative Competency in the Classroom
ESL 073	Introduction to Research Composition OR GST 010 Lifeline
ESL 074	Developing Presentation Skills

#### English as a Second Language (IEP) Course Descriptions

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	<b>Novice (1)</b> This course is intended for the low beginning ESL student. Students develop reading, writing, listening and speaking skills necessary for participation in classroom discussions and to be able to successfully matriculate into the CBU ESL ACCESS program. Pass/Fail. Class hours: 3 Lecture/week.
ESL 008	<b>Pronunciation I (1)</b> Students will learn the rhythm and intonation of English which will help them to make significant strides in their ability to understand and communicate with others. Pass/Fail. Class hours: 2 Lecture/week; 1 Lab/week.
ESL 009	<b>Pronunciation II (1)</b> 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 examine the English spelling system to identify the discrepancy between spelling and sounds. Pass/Fail. Class hours: 2 Lecture/week; 1 Lab/week.
ESL 010	<b>Basic Reading and Academic Vocabulary (3)</b> Students will learn strategies that will help them become more proficient readers of English. These skills include previewing, finding the main idea, outlining, scanning, and detecting sequence. Reading selections will be both academic and of general interest. Students will strengthen comprehension skills through various exercises. Attention will be given to building vocabulary and dictionary usage. Pass/Fail. Class hours: 4 Lecture/week.
ESL 011	<b>Basic Writing with Grammar Emphasis (3)</b> This beginning ESL course emphasizes elementary competency in standard written English with a focus on basic grammar and writing skills. Emphasis will be given to organization and the writing process as well as paragraph development. Pass/Fail. Class hours: 4 Lecture/week.

## Academic Programs

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- ESL 012 Oral Communication I (3)**  
Students will develop spoken fluency and listening skills through short social and academic listening, guided class discussions, and presentations. Students will learn both to distinguish and to produce the sounds in English pronunciation as well as proper intonation and word groupings. Pass/Fail. Class hours: 6 Lecture/week.
- ESL 014 Life Skills (2)**  
This is a four-skills course that integrates language instructions into meaningful, real-life contexts. Students at the beginning level will learn mastery of the English language related to civics, the workplace, the community, and academics. Lessons will cover vocabulary, life stories, grammar, everyday conversation, and real-life reading, carefully developing learners' understanding through the use of all four skills. Pass/Fail. Class hours: 3 Lecture/week.
- ESL 030 Low Intermediate Reading and Academic Vocabulary (3)**  
Students continue to develop academic reading abilities and English vocabulary. In this course, students will read a variety of texts on contemporary academic and literary topics. Text are both academic and of general interest. Vocabulary exercises will relate to reading themes and will reinforce understanding of the passage. Pass/Fail. Prerequisite: ESL 010 or appropriate placement score. Class hours: 4 Lecture/week.
- ESL 031 Low Intermediate Writing with Grammar Emphasis (3)**  
This course increases competency in standard written English with a focus on low intermediate grammar and writing skills. Writing exercises are primarily academic in nature and include practice in the targeted grammar structure. Pass/Fail. Prerequisite: ESL 011 or appropriate placement score. Class hours: 4 Lecture/week.
- ESL 032 Oral Communication II (3)**  
This course will include instruction in and practice of intermediate level listening and speaking activities. Listening tasks will include listening to academic lectures, note-taking skills, and organizing information from the notes. Students also practice speech appropriate to both social and academic settings, with emphasis placed on message delivery and content as well as language usage and pronunciation. Pass/Fail. Prerequisite: ESL 012 or appropriate placement score. Class hours: 6 Lecture/week.
- ESL 034 Historical and Cultural Foundations of America (2)**  
This course will provide students with a historical foundation of American culture and experience essential to academic success in American college classes. Students will become familiar with major periods in American history along with related authors, literature, and important personalities of the period leading to a knowledge base common among American college students. Students will understand the historical background behind American holidays and as well as the culture of the American classroom environment. Pass/Fail. Prerequisite: ESL 014 or appropriate placement score. Class hours: 3 Lecture/week.
- ESL 050 Cultivating Reading Effectiveness and Word Analysis (3)**  
A concentrated reading of textbook-based materials used in American college degree courses; for example, social sciences, hard sciences, education, business, and humanities. Development of comprehension skills to enhance their reading effectiveness and efficiency; may include identification of main ideas and supports, application of personal schema, and analysis of fact-based reading, speaking, listening, and writing is stressed; its use of textual clues, dictionary, and word analysis for learning word meaning. Pass/Fail. Prerequisite: ESL 030 or appropriate placement score and departmental approval. Class hours: 4 Lecture/week.
- ESL 051 Grammar Application in Paragraphs and Essays (3)**  
Introduction to the techniques and practice of common modes of essay writing: explanatory, persuasive, and argumentative essays. Particular emphasis will be placed on developing academic writing skills that prepare students for college level writing. Logical analysis of components of the essay, integration of evidence from sources, and intensive application of major grammatical systems of English will be emphasized. Lectures will focus on developing high levels of competence in detecting and remedying common ESL writing problems to improve essay clarity and effectiveness. Pass/Fail. Prerequisite: ESL 031 or appropriate placement score and departmental approval. Class hours: 4 Lecture/week.
- ESL 052 Enhancing Basic Academic Discourse (3)**  
This course enhances the students' ability to understand basic academic discourse in lectures and to participate meaningfully in group discussions and give oral presentations with correct grammar usage and understandable pronunciation. Pass/Fail. Prerequisite: ESL 032 or appropriate placement score and departmental approval. Class hours: 4 ½ Lecture/week.
- ESL 053 Business English (1)**  
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. Pass/Fail. Prerequisite: ESL 034 or appropriate placement score and departmental approval. Class hours: 3 Lecture/week; 1 Lab/week.

- ESL 054 Preparation for University Academic Culture (2)**  
This course is designed to provide High Intermediate ESL students with the perspectives and strategies common to the American university setting. Refining listening skills, extracting content from lectures, practice with successful participation in classroom discussions, formal writing format styles, and academic usage of internet tools such as e-mail and discussion forums will be reviewed in the context of American university requirements, while exploring related cultural similarities and differences. Pass/Fail. Prerequisite: ESL 034 or appropriate placement score and departmental approval. Class hours: 4 Lecture/week.
- ESL 070 Expanding Reading Proficiency and Academic Vocabulary (3)**  
Students will gain academic reading proficiency in preparation for the undergraduate level through weekly reading assignments at the advanced level. Students will expand their academic English vocabulary, while learning to integrate meaning and personal analysis of the text. Students will be exposed to various fields of study through weekly readings and learn to engage in intellectual discussion. Students will learn to complete longer reading assignments, complete weekly journal entries, and integrate learned words in classroom discussion. Pass/Fail. Prerequisite: ESL 050 or appropriate placement score and departmental approval. Class hours: 4 Lecture/week.
- ESL 071 Essay Construction and Basic Research Skills (3)**  
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 skills and editing skills, learning to do basic research and citation. The course is designed to push students to excel at a higher level of writing in English, incorporating essential grammar concepts. The course encourages daily interaction, various activities and tactile learning opportunities. The students will complete at least five English essays, increasing in page number and research components. Pass/Fail. Prerequisite: ESL 051 or appropriate placement score and departmental approval. Class hours: 4 Lecture/week.
- ESL 072 Communicative Competency in the Classroom (3)**  
Students will practice oral/aural skills within the context of academic content at an advanced level, by listening and responding to recorded lectures, guest speakers, field trips, and video recordings. Students will learn to how to respond in both formal and informal academic settings. Students will be able to give extensive oral presentations and participate on panel discussions. Pronunciation skills and techniques will be taught as needed. Pass/Fail. Prerequisite: ESL 052 or appropriate placement score and departmental approval. Class hours: 4 ½ Lecture/week.
- ESL 073 Introduction to Research Composition (1)**  
This is an advanced level ESL course designed to enhance students' research composition skills in four areas of learning: independent research of thematically organized college level articles using library and web-based sources; critical reading of sources concentrating on thorough comprehension and ability to respond to material in written forms, including responses, paraphrases, summaries, and critiques; academic writing of research paper, incorporating evidence from sources, using a five-step process: explore, focus, organize, create, and refine. Oral presentation of research will be given to prepare students for undergraduate courses in English and in other disciplines. Pass/Fail. Prerequisite: ESL 050/051 or appropriate placement score and departmental approval. Class hours: 3 Lecture/week.
- ESL 074 Developing Presentation Skills (2)**  
This course is intended for advanced ESL students to help them speak more confidently and effectively. Concentration will be on presentational skills such as individual and group oral topic presentations, panel discussions, debates and 4-7 minute individual topic presentations before the class. Pass/Fail. Prerequisite: ESL 052 or appropriate placement score and departmental approval. Class hours: 4 ½ Lecture/week.
- ESL 090 Advanced Integration of Academic English Skills (1)**  
This course is designed to provide focused instruction in academic English for prospective graduate students. Specific skills will be taught in the areas of listening, vocabulary, grammatical structures and reading comprehension according to the needs of the student. These skills will aid the student in developing a stronger ability to comprehend lectures, edit their own work, verbalize their opinions and expand their vocabulary in preparation for entering a graduate level program. Pass/Fail.
- ESL 094 Academic Research for Graduate Students (3)**  
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. Pass/Fail. Prerequisite: ESL 071.

## ENTREPRENEURSHIP

The Entrepreneurship Minor 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 PROGRAM REQUIREMENTS

#### Entrepreneurship Minor (21 units)

##### Upper Division Requirements

BUS 357	Small Business Management
BUS 361	Entrepreneurial Opportunity Analysis
BUS 366	The Entrepreneur
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 323	Family Financial Management
BUS 359	Intellectual Property Law
BUS 362	Social Entrepreneurship
BUS 435	Leadership in Organizations
BUS 464	Family Business Management
BUS 491	Internship in Business

## ENVIRONMENTAL SCIENCE

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 PROGRAM REQUIREMENTS

#### Environmental Science Major (63 units) BS

##### 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 with Lab
CHE 125	General Chemistry II with Lab
ENV 110	Introduction to Environmental Science with Lab
MAT 145	Mathematical Methods in the Natural Sciences
STA 144	Introduction to Statistics

##### Upper Division Requirements

BIO 302	Ecology with Lab
ENV 360	Environmental Chemistry with Lab
ENV 380	Environmental Science Seminar
ENV 390	Stewardship of the Environment
ENV 450	Environmental Organic Chemistry with Lab
ENV 470	Advanced Environmental Sciences with Lab

##### Upper Division Elective Requirements

Complete twelve (12) additional upper division units of ENV, BIO 305, BIO 313, CHE 321, CHE 470, PSC 451, OR SCI 412.

**Environmental Science Minor (24 units)****Lower Division Requirements**

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

**Upper Division Elective Requirements**

Complete twelve (12) units from the following:

BIO	302	Ecology with Lab
ENV	360	Environmental Chemistry with Lab
ENV	380	Environmental Science Seminar
ENV	390	Stewardship of the Environment
ENV	400	Special Topics in Environmental Science
ENV	400L	Special Topics in Environmental Science Lab
ENV	450	Environmental Organic Chemistry with Lab
ENV	470	Advanced Environmental Sciences with Lab
SCI	412	Topics in Marine Science

**Environmental Science Course Descriptions**

ENV 110	Introduction to Environmental Science with Lab (4) I	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. Lecture (3 units) and required laboratory (1 unit). Additional lab fee.		
ENV 360	Environmental Chemistry with Lab (4)	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. Lecture (3 units) and required laboratory (1 unit): Additional lab fee. Prerequisite: CHE 125 and either BIO 146 or 148.		
ENV 370	Soil and Water (3)	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. Prerequisite: ENV 110.		
ENV 380	Environmental Science Seminar (1) I	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.		
ENV 390	Stewardship of the Environment (3)	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. Lecture (3 units). Prerequisite: ENV 110.		
ENV 400	Special Topics in Environmental Science (1-4)	As offered
Concentration upon a specific topic in the field of Environmental Science. Topic varies for different semesters. May be repeated for credit with change in topic for a maximum of eight (8) units.		
ENV 400L	Special Topics in Environmental Science Lab (1)	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. May be repeated once for credit with change in topic.		
ENV 450	Environmental Organic Chemistry with Lab (4)	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. Lecture (3 units) and required laboratory (1 unit). Additional lab fee. Prerequisites: CHE 125 and ENV 360.		

## Academic Programs

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- ENV 470**     **Advanced Environmental Science with Lab (4)**     **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. Lecture (3 units) and required laboratory (1 unit). Additional lab fee. Prerequisites: CHE 115 and ENV 110.
- ENV 490**     **Research in Environmental Science (1-4)**     **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. May be repeated for credit for a maximum of eight (8) units with a change in content. Prerequisites: ENV 470 and permission of the Department Chair.

## EXERCISE SCIENCE

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 PROGRAM REQUIREMENTS

### Exercise Science Major (68-73 units) BS

#### Lower Division Requirements

- ALH 101     Introduction to Allied Health Professions
- BIO 153     Anatomy and Physiology I with Lab
- BIO 163     Anatomy and Physiology II with Lab
- CHE 115     General Chemistry I with Lab
- KIN 264     Movement Anatomy
- KIN 274     Applied Movement Anatomy
- PSY 213     General Psychology
- STA 144     Introduction to Statistics

#### Elective Requirements

Complete a minimum of four (4) courses and twelve (12) units from the following:

- BIO 146     General Biology I with Lab
- CHE 125     General Chemistry II with Lab\*
- KIN 200     Special Topics in Kinesiology
- KIN 304     Introduction to Athletic Training
- KIN 312     Emergencies in Sports Medicine
- KIN 400     Special Topics in Kinesiology
- MAT 145     Mathematical Methods in the Natural Sciences\*
- PHY 114     General Physics I with Lab\*
- PHY 124     General Physics II with Lab\*

\*Recommended Pre-Physical Therapy courses

#### Upper Division Requirements

- BIO 305     Microbiology with Lab
- BIO 313     Genetics OR KIN 393 Applied Exercise Physiology
- HSC 480     Research Methods
- KIN 300     Nutrition Science
- KIN 332     Lifelong Motor Development
- KIN 353     Care and Prevention of Athletic Injuries
- KIN 383     Exercise Physiology
- KIN 433     Sports and Activities Practicum
- KIN 480     Fitness Assessment and Exercise Prescription OR KIN 490 Principles of Conditioning Athletes
- PSY 346     Abnormal Psychology



# FILM PRODUCTION

## Film Production Course Descriptions

FLP 306	<b>Basic Production: Line Producing (3)</b>	<b>Fall</b>
	This class will approach film production from prep to post from the perspective of the independent film producer. This will include introductory workshops on all the different departments, including technical areas such as grip, electric, and camera. The students will learn how to break down and budget a script, schedule a shoot, create and fill out paper work such as deal memos, call sheets, contracts, location scouting, and holding auditions. Prerequisite: FLM 105; Pre- or Co-requisite: FLM 301.	
FLP 360	<b>Cinematography (3)</b>	<b>Spring</b>
	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. Prerequisite: FLP 306.	
FLP 406	<b>Film Directing (3)</b>	<b>Fall</b>
	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. Prerequisite: FLP 360.	

# FILM STUDIES

The film studies major equips students both to understand film as a culture-shaping force and to use it as a way to pursue the cultural mandate. Film studies majors learn to read and write effectively and look at the work with a critical eye, but most importantly, the student develops a socially applicable and culturally significant audio-visual literacy. Film studies majors practice the vital activities of analysis and synthesis that prepare them for positions within film companies, film archives, festivals, work as art managers, critics, journalists, independent artists, and teachers.

## TRADITIONAL PROGRAM REQUIREMENTS

### Film Studies Major (45-46 units) BA

#### Lower Division Requirements

DES 110	Design Thought Foundations I
FLM 105	Introduction to Film Studies
FLM 150	Film History
FLM 250	Film Theory and Criticism

#### Upper Division Requirements

FLM 305	Christianity and Film
FLM 350	Film and Literature
FLM 450	World Cinema
FLM 499	Senior Capstone Project

#### Upper Division Elective Requirements

Complete three (3) units from the following:

FLM 430	Film and Sound
FLM 470	Adaptation and Intertextuality

#### Concentration Courses (18-19 units)

Students must complete all requirements in one of the following concentrations:

Film Analysis; Film Production; Screenwriting

## Academic Programs

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### Film Analysis (18 units)

Complete eighteen (18) additional units, of which twelve (12) must be upper division, from the following:

ART	385	Film as Visual Art
DES	112	Design Thought Foundation II
DES	498	Portfolio
FLM	200	Special Topics in Film Studies
FLM	210	Film Genre
FLM	300	National Cinema
FLM	301	Basic Screenwriting
FLM	302	Writing Short Screenplays
FLM	303	Asian Cinema
FLM	340	Major Directors
FLM	400	Special Topics in Film Studies
FLM	403	Writing Adapted Screenplays
FLM	420	Independent Film and Counter-Cinema
FLM	491	Film Practicum (1-15 units)
FLP	306	Basic Production: Line Producing
FLP	360	Cinematography
FLP	406	Film Directing
GDM	341	Video Fundamentals
PHY	112	The Physics of Hollywood with Lab

### Film Production (18 units)

DES	112	Design Thought Foundation II
FLM	301	Basic Screenwriting
FLP	306	Basic Production: Line Producing
FLP	360	Cinematography
FLP	406	Film Directing
GDM	341	Video Fundamentals

### Film Production: LAFSC (19 units)

As a participant in the Coalition for Christian Colleges and Universities and a “sending institution” for the Los Angeles Film Studies Center (LAFSC), CBU affords students the opportunity to study for one semester through the Center in Los Angeles, California. Completion of this concentration is contingent upon admittance to the Los Angeles Film Studies Center (LAFSC) program.

#### Core Requirement

DES	112	Design Thought Foundation II
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#### Film Studies Center Requirements

Hollywood Production Workshop (4 units)

Faith and Artistic Development (3 units)

Internship: Inside Hollywood (6 units)

Narrative Storytelling (3 units)

### Screenwriting (18 units)

DES	112	Design Thought Foundation II
ENG	201	Introduction to Literature for Majors and Minors OR ENG 273 Introduction to Creative Writing
FLM	301	Basic Screenwriting
FLM	302	Writing Short Screenplays*
FLM	403	Writing Adapted Screenplays*

Complete three (3) additional upper division units from the following: ART 385, DES 498, FLM 300, 303, 340, 400, 420, 491, FLP 306, 360, 406, GDM 341.

\*Students who attend the Los Angeles Film Studies Center (LAFSC) program may variance the Professional Screenwriting course at LAFSC for either FLM 302 or 403 if not also pursuing the Film Production concentration.

**Film Studies Minor (21 units)****Lower Division Requirements**

- FLM 105 Introduction to Film Studies  
 FLM 150 Film History  
 FLM 250 Film Theory and Criticism

**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 400 Special Topics in Film Studies  
 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 Basic Production: Line Producing  
 FLP 360 Cinematography  
 FLP 406 Film Directing

\*Courses Recommended for completion of the minor

**Film Studies Course Descriptions**

- FLM 105** Introduction to Film Studies (3) M 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.
- FLM 150** Film History (3) I, M 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. Pre- or Co- requisite: ENG 123. Recommended: FLM 105.
- FLM 200** Special Topics in Film Studies (3) 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. May be taken multiple times with change in topic. Prerequisite: FLM 250.
- FLM 210** Film Genre (3) 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. Prerequisite: FLM 105 or 150.
- FLM 250** Film Theory and Criticism (3) I, M 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. Prerequisites: FLM 105 and 150.
- FLM 300** National Cinema (3) I, M 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. May be taken multiple times with change in topic. Prerequisite: FLM 150.

## Academic Programs

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FLM 301	<b>Basic Screenwriting (3)</b> 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. Prerequisite: ENG 113 and FLM 105.	Fall
FLM 302	<b>Writing Short Screenplays (3)</b> This course is an intermediate level treatment of the principles of writing for the screen. It expands on the concepts covered in 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 1-hour film. Prerequisite: FLM 301.	Spring
FLM 303	<b>Asian Cinema (3) I, M</b> 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. Prerequisites: FLM 105 and 150.	Spring (odd years)
FLM 305	<b>Christianity and Film (3) I, M</b> 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. Prerequisite: ENG 123.	Fall
FLM 340	<b>Major Directors (3)</b> 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 as Oscar Micheaux, Ida Lupino, or Sam Fuller. Prerequisite: FLM 250.	Fall (odd years)
FLM 350	<b>Film and Literature (3) I, M</b> 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. Prerequisite: ENG 123.	Spring
FLM 399	<b>Independent Study (3)</b> 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. Prerequisite: Permission of the Dean of the College of Architecture, Visual Arts, and Design.	
FLM 400	<b>Special Topics in Film Studies (3)</b> 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. May be taken multiple times with change in topic. Prerequisite: FLM 250.	As offered
FLM 403	<b>Writing Adapted Screenplays (3)</b> 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. Prerequisite: FLM 301.	Fall
FLM 420	<b>Independent Film and Counter-Cinema (3)</b> 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. Prerequisite: FLM 250.	Fall (even years)
FLM 430	<b>Film and Sound (3) I, M</b> 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. Prerequisite: FLM 250.	Spring (even years)

FLM 450	<b>World Cinema (3) M</b> 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. May be taken multiple times with change in topic. Prerequisite: FLM 250.	Fall
FLM 470	<b>Adaptation and Intertextuality (3) I, M</b> 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. Prerequisite: FLM 250.	Spring (odd years)
FLM 491	<b>Film Practicum (1-15 units)</b> 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. Prerequisite: FLM 250 and junior status.	As offered
FLM 499	<b>Senior Capstone Project (3)</b> 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. Prerequisite: Permission of the Dean of the College of Architecture, Visual Arts, and Design.	Fall, Spring

## FLIGHT (see Aviation)

## FOUNDATIONAL MATHEMATICS

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. (See the Education section for the Professional Methods Program for Single Subject Credential Students.)

### TRADITIONAL PROGRAM REQUIREMENTS

#### Foundational Mathematics Major (58-59 units) BS

##### Lower Division Requirements

MAT 101	Orientation to the Discipline
MAT 125	Mathematics Concepts and Applications I
MAT 127	Mathematics 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	Methods of Teaching Diverse Students
ETC 407	Technology and Learning
MAT 313	Mathematical Proofs 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 two courses from the following:

MAT 343	Multivariable Calculus
MAT 443	Advanced Calculus
	OR
PHY 214	Physics for Scientists I with Lab and
PHY 224	Physics for Scientists II with Lab

## FRENCH

### French Course Descriptions

- FRE 115**      **Elementary French I (3) M**      **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.
- FRE 125**      **Elementary French II (3) M**      **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. Prerequisite: FRE 115.
- FRE 215**      **Intermediate French I (3) M**      **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. Prerequisite: FRE 125.
- FRE 225**      **Intermediate French II (3) M**      **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. Prerequisite: FRE 215.

## GENERAL STUDIES

### General Studies Course Descriptions

- GST 010**      **Lifeline (1)**      **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. Pass/Fail.
- GST 050**      **Chapel/Convocation (0)**      **Fall, Spring**  
The California Baptist University community gathers regularly for worship, communication, fellowship, personal development, and spiritual formulation. 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.)
- GST 060**      **Academic Success Seminar (0)**      **Fall, Spring**  
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. (This seminar does not count toward the number of units required for graduation. A failing grade in the academic success seminar will have a 1 unit negative effect on a student's semester and cumulative grade point average.) Course Fee equivalent to one (1) unit of tuition. Pass/Fail.

<b>GST 071</b>	<b>Nursing Learning Community (0)</b> The purpose of this course is to promote the academic success of pre-nursing students and to prepare them for the nursing program by building the necessary competencies for the Testing Essential Academic Skills (TEAS) test, nursing coursework, and the natural sciences courses in which these students will be enrolled. May be repeated four (4) times. Pass/Fail.	<b>Fall, Spring</b>
<b>GST 099</b>	<b>The Teaching Assistant (0)</b> 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. Prerequisite: Permission of the Provost Office.	<b>Fall, Spring, Summer</b>
<b>GST 100</b>	<b>FOCUS (1)</b> The FOCUS (First-Year Orientation and Christian University Success) program 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 CBU. 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, FOCUS provides a well-rounded introduction to the California Baptist University experience. Pass/Fail.	<b>Fall, Spring</b>
<b>GST 101</b>	<b>Essentials for Online and Professional Studies (0)</b> The course is designed to prepare students for a successful transition to college coursework, including online studies. Students are introduced to the resources CBU has in place to ensure the success of its student body including an introduction to the Blackboard learning management system. Pass/Fail.	<b>Online and Professional Studies</b>
<b>GST 199</b>	<b>Portfolio Seminar (1)</b> 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.) Pass/Fail.	<b>Online and Professional Studies</b>

## GLOBAL COMMUNITY SCIENCE

The Global Community Science degree program is designed for students who wish to receive a comprehensive education bridging the disciplines of sustainability science and global community development. The major prepares students for further study in sustainability science or to pursue careers with environmental agencies or governmental or non-governmental organizations for community development throughout the world.

### TRADITIONAL PROGRAM REQUIREMENTS

#### Global Community Science Major (63 units) BS

##### Lower Division Requirements

BIO 205	Human Microbiology with Lab
BUS 218	Macroeconomics OR BUS 362 Social Entrepreneurship
CHE 102	Fundamentals of Chemistry
CHE 112	Organic and Biochemistry for the Health Sciences with Lab
ENV 110	Introduction to Environmental Science with Lab
GSC 101	Introduction to Global Community Science
ICS 105	Introduction to Global Studies
STA 144	Introduction to Statistics

##### Lower Division Elective Requirements

Complete eight (8) units from the following:

BIO 114	General Botany with Lab
BIO 143	Principles of Biology
BIO 143L	Principles of Biology Lab
BIO 146	General Biology I with Lab
BIO 148	General Biology II with Lab
BIO 153	Anatomy and Physiology I with Lab
BIO 163	Anatomy and Physiology II with Lab
PSC 151	Introduction to the Geosciences
PSC 151L	Introduction to the Geosciences Lab
SCI 120	Marine Science with Lab

Complete six (6) units from the following:

ANT 255	Cultural Anthropology
COM 113	Oral Communications
PSY 120	Lifespan Development for the Health Professions
SOC 213	Introduction to Sociology

##### Upper Division Requirements

ENV 390	Stewardship of the Environment
ENV 370	Soil and Water
GSC 310	Sustainable Agriculture and Population Dynamics
GSC 410	Social Issues and Sustainable Development
GSC 495	Field Practicum
ICS 305	Global Perspectives
ICS 375	Current Events and Movements OR POL 415, 437, or 454
STA 305	Sampling and Survey Methodology

### Global Community Science Course Descriptions

GSC 101	Introduction to Global Community Science (1)	Fall
This course is designed to introduce the students to the basic skills necessary for academic success in the discipline of Global Community Science, 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, and to explore the students' calling and vocation.		
GSC 310	Sustainable Agriculture and Population Dynamics (3)	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.		
GSC 400	Special Topics (1-4)	As offered
Concentration upon a specific topic in the field of Global Community Science. Topic varies for different semesters. May be taken multiple times with change in topic.		



GSC 400L	Special Topics Lab (1) This laboratory course may be offered in conjunction with the special topics course, or on its own, to provide instruction with hands on experience. Topic varies for different semesters. May be taken multiple times with change in topic. Additional lab fee.	As offered
GSC 410	Social Issues and Sustainable Development (3) This course will review the major social issues of the four “underdeveloped” continents (Africa, Asia, Latin America and the Middle East), and examine sustainable development practices and principles which impact those issues. Students will be introduced to the United Nations Sustainable Development Framework of 1) Social and Economic Development, 2) Natural Resources Management, 3)Stakeholders, and 4) Means of Implementation, and various other conceptual models of development. Among the pressing social issues considered include poverty due to land degradation and desertification, infrastructure in slums and refugee conditions, access to clean water, low-cost-high-safety housing, and disease prevention.	Fall (odd years)
GSC 495	Field Practicum (3) This course is designed to allow students to participate in an extended discipline specific experience through approved programs in the area of community 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.	Fall, Spring, Summer

## GLOBAL INTEGRATION STUDIES

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.

### Global Integration Studies Minor (21 units)

#### Core Requirements

ICS	305	Global Perspectives
ICS	325	Spiritual Formations for Global Engagement
ICS	375	Current Events and Movements
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: Practicum

##### Political Science

ICS	431	Cross-cultural Immersion
POL	415	World Geography
POL	454	International Organizations

## GLOBAL JUSTICE

The Global Justice minor is designed to compliment a variety of professional degrees taken by students who wish to serve in non-profit relief and development work, either domestically or internationally. The integrated curriculum will provide an introduction to the theological and theoretical foundations of social justice, the major social problems and movements, international organizations, and models of integrating their major and professional discipline with global service.

### Global Justice Minor (21 units)

#### Core Requirements

BUS 218	Macroeconomics OR BUS 362 Social Entrepreneurship OR BUS 363 Microfinance
ICS 105	Introduction to Global Studies OR ICS 305 Global Perspectives
ICS 375	Current Events and Movements

#### Elective Requirements

Complete twelve (12) units from the following:

CST 315	Old Testament Ethics
CST 425	Christian Social Ethics
ICS 415	Special Topics in Intercultural Studies
PHI 353	Comparative Religions
POL 454	International Organizations

## GLOBAL STUDIES

The Global Studies minor is designed to compliment a broad range of majors, and to prepare students for international ministry and cross-cultural professional opportunities. The minor includes a study abroad requirement.

### Global Studies Minor (21 units)

#### General Education Recommendation

ANT 225	Cultural Anthropology
ANT 430	Culture and Personality

#### Lower Division Requirements

ICS 105	Introduction to Global Studies
ICS 205	Models of Discipleship

#### Upper Division Requirements

ICS 305	Global Perspectives
ICS 405	Marketplace Strategies for Global Advancement
ICS 430	Intercultural Communications
ICS 431	Cross-cultural Immersion*
PHI 353	Comparative Religions

\*International/Intercultural experience required.

## GRAPHIC DESIGN AND DIGITAL MEDIA

The Graphic Design and Digital Media major prepares students for careers in professions including graphic design, photography, web design and video/animation. The students will learn the technologies, trends and principles employed by professionals in these fields. The program is based around hands-on projects and portfolio building.

### TRADITIONAL PROGRAM REQUIREMENTS

#### Graphic Design and Digital Media Major (48 units) BA

##### Lower Division Requirements

DES 110	Design Thought Foundations I
DES 112	Design Thought Foundations II
GDM 110	Fundamental Design
GDM 120	Fundamental Typography
GDM 130	Fundamental Image
GDM 140	Fundamental Web
GDM 240	Design Movements of the 20th Century

**Upper Division Requirements**

ART 430	Art and the Bible
DES 498	Portfolio
GDM 310	Intermediate Design
GDM 320	Intermediate Typography
GDM 330	Intermediate Image
GDM 499	Senior Project

**Concentration Courses (12 units)**

Students must complete all requirements in one of the following concentrations:

Graphic Design; Mobile Design; Photography; Video and Animation; Web Design

**Graphic Design**

GDM 410	Advanced Design (6 units)
GDM 420	Advanced Typography
GDM 430	Advanced Image

**Mobile Design**

GDM 370	User Interface Design
GDM 375	Fundamental Mobile Design
GDM 470	Advanced Mobile Design (6 units)

**Photography**

GDM 360	Studio Photography
PHO 410	Studio Lighting
PHO 432	On-Location Photography
PHO 433	Assignment Photography

**Video and Animation**

GDM 331	Animation Design
GDM 341	Video Fundamentals
GDM 441	Advanced Video (6 units)

**Web Design**

GDM 328	Wordpress and Advanced Blog Design
GDM 340	Intermediate Web
GDM 440	Advanced Web (6 units)

**Graphic Design and Digital Media Minor (21 units)****Lower Division Requirements**

GDM 110	Fundamental Design
GDM 120	Fundamental Typography
GDM 130	Fundamental Image

**Upper Division Requirements**

ART 430	Art and the Bible
GDM 310	Intermediate Design
GDM 320	Intermediate Typography
GDM 330	Intermediate Image

**Graphic Design and Digital Media Course Descriptions**

GDM 110	Fundamental Design (3)	Fall, Spring
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.		
GDM 120	Fundamental Typography (3)	Fall, Spring
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.		
GDM 130	Fundamental Image (3)	Fall, Spring
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.		

## Academic Programs

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GDM 140	<b>Fundamental Web (3)</b> 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.	Fall
GDM 200	<b>Special Topics in Graphic Design (3)</b> 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. May be repeated multiple times with change in topic.	As offered
GDM 240	<b>Design Movements of the 20th Century (3)</b> This course surveys of design movements of the 20th century and the influences found today. Movements such as Futurism, Modernism, Postmodernism and the Information Age will be studied.	Fall, Spring
GDM 305	<b>History of Graphic Design (3)</b> 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.	Online and Professional Studies
GDM 310	<b>Intermediate Design (3)</b> 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. Prerequisite: GDM 110, 120, and 130.	Fall, Spring
GDM 320	<b>Intermediate Typography (3)</b> This course is an intermediate typography course in which more complex typography concepts, best practice type generation and project work challenge the student. Prerequisite: GDM 110, 120, and 130.	Fall, Spring
GDM 321	<b>The Art and Design of Professional Presentations (3)</b> This course introduces students to the knowledge and skills necessary to develop professional interactive multimedia productions. Classroom activities include how to identify the design and communication issues from pre through post production of an interactive presentation. In this multimedia design and production course, students integrate research, writing, creative visual layout, and interface design to develop high impact professional presentations. Additionally, students will learn how to define and identify project goals, purpose, audience, timeline milestones, budget constraints and other multimedia project parameters.	Online and Professional Studies
GDM 328	<b>Wordpress and Advanced Blog Design (3)</b> This course explores the process of using Wordpress, a power engine, to build professional blog sites upon. The students will design and build blogs using Wordpress and other programs needed to build graphic assets. Prerequisite: GDM 310.	As offered
GDM 330	<b>Intermediate Image (3)</b> 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. Prerequisite: GDM 130.	Fall, Spring
GDM 331	<b>Animation Design (3)</b> This course explores the tools and implementations of Adobe After Effects 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 After Effects. Prerequisite: GDM 310.	Spring
GDM 340	<b>Intermediate Web (3)</b> 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. Prerequisite: GDM 140.	As offered
GDM 341	<b>Video Fundamentals (3)</b> 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.	Fall, Spring

GDM 360	<b>Studio Photography (3)</b> This course explores techniques and the tools implemented by a photography studio. Projects and exercises will teach the students how to use a camera, use lighting and workflows. Photoshop post-camera techniques will also be taught in conjunction with image processing. Prerequisite: GDM 330.	Spring
GDM 370	<b>User Interface Design (3)</b> This course explores design principles, methodology and best practices through assigned projects and exercises. Techniques and ideas will be explored and explained. The goal of this course is to introduce the student to the emerging world of mobile application and explore concepts of user interface design. Prerequisite: GDM 110 or 130.	As offered
GDM 375	<b>Fundamental Mobile Design (3)</b> This course introduces the concepts and methodologies of mobile application design. The building blocks for the programming and design of the language and code will be introduced. The student will build a basic application from scratch to presentation and then launch. Pre- or Co- requisite: GDM 370.	As offered
GDM 400	<b>Special Topics in Graphic Design (3)</b> 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. May be repeated multiple times with change in topic.	As offered
GDM 410	<b>Advanced Design (3)</b> 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. May be repeated one time for credit. Prerequisite: GDM 310.	Fall, Spring
GDM 420	<b>Advanced Typography (3)</b> 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. Prerequisite: GDM 320.	Fall, Spring
GDM 430	<b>Advanced Image (3)</b> 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. Prerequisite: GDM 330.	Fall, Spring
GDM 440	<b>Advanced Web (3)</b> 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. May be repeated one time for credit. Prerequisite: GDM 340.	As Offered
GDM 441	<b>Advanced Video (3)</b> This course is an advanced video course in which project work is used to study complex concepts of story, editing and publishing. Projects in this course are designed to build a student's portfolio of professional work for presentation for employment and advanced studies. May be repeated one time for credit. Prerequisite: GDM 310.	Spring
GDM 450	<b>Internship in Graphic Design and Digital Media (1-3)</b> The internship will consist of an off-campus work opportunity in the field of design at a minimum of 3 hours a week. Prerequisite: Senior status and permission of the Department Chair.	Fall, Spring
GDM 451	<b>Internship in Graphic Design and Digital Media (1-3)</b> The internship will consist of an off-campus work opportunity in the field of design at a minimum of 3 hours a week. Prerequisite: GDM 450 and permission of the Department Chair.	Fall, Spring
GDM 470	<b>Advanced Mobile Design (3)</b> The advanced mobile design course will further develop the students understanding of the principles and methodologies application design. The course will task the students to build application from their inception to launch. The students will work within the confines of application API and other standards within the industry. May be repeated one time for credit. Prerequisites: GDM 370 and 375.	As offered
GDM 499	<b>Senior Project (3)</b> 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. Prerequisite: Senior status and permission of the Department Chair.	Fall, Spring

## GREEK

### Greek Course Descriptions

GRK 213	Introduction to Koiné Greek I (3) M An introduction to Koiné Greek emphasizing basic grammar and vocabulary preparatory for translation of the Greek New Testament.	Fall
GRK 223	Introduction to Koiné Greek II (3) M Continuation of GRK 213 with beginning translation from the First Epistle of John. Prerequisite: GRK 213.	Spring
GRK 313	Intermediate Greek (3) M A “literary laboratory” in which to observe the function of Greek syntax through the translation and exegetical study of specific New Testament materials. Prerequisite: GRK 223.	As offered
GRK 323	Intermediate Greek (3) M A “literary laboratory” in which to observe the function of Greek syntax through the translation and exegetical study of specific New Testament materials. Prerequisite: GRK 223.	As offered
GRK 413	Greek Exegesis (3) M A careful exegetical study of a Greek text of specific New Testament text(s) presenting the opportunity to further develop translation, analytical, and interpretive skills. May be repeated with change in text. Prerequisite: GRK 313 and 323.	As offered

## HEALTH SCIENCE

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 PROGRAM REQUIREMENTS

#### Health Science Major (66-93 units) BS

##### Lower Division Requirements

ALH	101	Introduction to Allied Health Professions
BIO	146	General Biology I with Lab
BIO	173	Medical Terminology
CHE	115	General Chemistry I with Lab
CHE	125	General Chemistry II with Lab
HSC	104	Survey of U.S. Healthcare Delivery
HSC	210	Ethics in Healthcare
MAT	145	Mathematical Methods in Natural Sciences
PSY	213	General Psychology
STA	144	Introduction to Statistics

##### Upper Division Requirements

BIO	305	Microbiology with Lab
BIO	313	Genetics OR BIO 330 Cell and Molecular Biology with Lab
HSC	305	Epidemiology
HSC	420	Healthcare Policy
HSC	480	Research Methods
HSC	499	Health Science Capstone
ICS	430	Intercultural Communication

##### Concentration Courses (12-39 units)

Students must complete all requirements in one of the following concentrations:  
General Studies; Pre-Dental; Pre-Medicine; Pre-Pharmacy; Pre-Physician Assistant

**General Studies (12 units)**

Complete twelve (12) units from courses in any of the below concentrations or from the following approved health science electives.

BIO	316	Comparative Anatomy
BIO	324	Developmental Biology
BIO	344	Vertebrate Physiology
CHE	351	Organic Chemistry I with Lab
CHE	352	Organic Chemistry II with Lab
CHE	443	Biochemistry I with Lab
KIN	300	Nutrition Science
KIN	302	Contemporary Health Issues
KIN	332	Lifelong Motor Development
KIN	353	Care and Prevention of Athletic Injuries
KIN	383	Exercise Physiology
KIN	393	Applied Exercise Physiology
NFS	310	Community Nutrition
PSY	305	Developmental Psychology: Child

**Pre-Dental (35 units)**

BIO	148	General Biology II with Lab
BIO	153	Anatomy and Physiology I with Lab
BIO	163	Anatomy and Physiology II with Lab
CDS	240	Speech and Hearing Science Anatomy and Physiology
CHE	351	Organic Chemistry I with Lab
CHE	352	Organic Chemistry II with Lab
CHE	443	Biochemistry I with Lab

Complete a two-semester sequence from the following:

PHY	114	General Physics I with Lab and
PHY	124	General Physics II with Lab
		OR
PHY	214	Physics for Scientists I with Lab and
PHY	224	Physics for Scientists II with 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

Complete a two-semester sequence from the following:

PHY	114	General Physics I with Lab and
PHY	124	General Physics II with Lab
		OR
PHY	214	Physics for Scientists I with Lab and
PHY	224	Physics for Scientists II with Lab

**Pre-Pharmacy (39 units\*)**

BIO	148	General Biology II with Lab
BIO	153	Anatomy and Physiology I with Lab
BIO	163	Anatomy and Physiology II with Lab
BIO	489	Immunology and Molecular Pathogenesis with 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

Complete a two-semester sequence from the following:

PHY	114	General Physics I with Lab and
PHY	124	General Physics II with Lab
		OR
PHY	214	Physics for Scientists I with Lab and
PHY	224	Physics for Scientists II with Lab

## Academic Programs

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### Pre-Physician Assistant (23 units\*)

BIO	153	Anatomy and Physiology I with Lab and
BIO	163	Anatomy and Physiology II with Lab
HSC	300	Health Communication
HSC	410	Health Behavior Change
NFS	310	Community Nutrition
PSY	346	Abnormal Psychology
SPA	110	Spanish for Health Care Professionals I

### Health Science Minor (22 units)

#### Lower Division Requirements

ALH	101	Introduction to Allied Health Professions
BIO	173	Medical Terminology
HSC	104	Survey of U.S. Healthcare Delivery

#### Upper Division Requirements

HSC	305	Epidemiology
HSC	306	Pathophysiology for Public Health
HSC	316	Public Health, Disease Prevention, and Intervention
HSC	420	Healthcare Policy
KIN	302	Contemporary Health Issues

### Health Science Course Descriptions

HSC 101	<b>Introduction to Public Health (3)</b> 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.	<b>As offered</b>
HSC 104	<b>Survey of U.S. Healthcare Delivery (3)</b> 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.	<b>As offered</b>
HSC 200	<b>Special Topics in Health Science (3)</b> Concentration upon a specific topic in the field of health science. Topic varies for different semesters. May be taken multiple times with change in topic.	<b>As offered</b>
HSC 210	<b>Ethics in Healthcare (3) I</b> 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.	<b>As offered</b>
HSC 300	<b>Health Communication (3)</b> 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.	<b>As offered</b>
HSC 301	<b>Principles of Health Education (3)</b> 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.	<b>As offered</b>



HSC 305	<b>Epidemiology (3)</b> 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.	Fall
HSC 306	<b>Pathophysiology for Public Health (3)</b> 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.	As offered
HSC 312	<b>Environmental and Occupational Health (3)</b> This course introduces students to 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. Prerequisites: HSC 305 and STA 144.	As offered
HSC 316	<b>Public Health Promotion, Disease Prevention and Intervention (3)</b> This course will discuss approaches to health promotion and disease prevention intervention in different setting, 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. Prerequisite: HSC 306.	As offered
HSC 320	<b>Public Health Nutrition and Physical Activity (3)</b> 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.	Online and Profesional Studies
HSC 380	<b>Health Science Seminar (1)</b> This course will introduce and reinforce the skills necessary to perform research within the health sciences including discussions of the scientific method, literature research, reading scientific journal articles, analyzing scientific data, reporting research findings in both written and oral formats, critiquing original research and science ethics. It will be required to present a research proposal and or locate and prepare all necessary documents for entering an internship, fieldwork, or research opportunity. Prerequisite: Health Science Major.	As offered
HSC 400	<b>Special Topics in Health Science (3)</b> Concentration upon a specific topic in the field of health science. Topic varies for different semesters. May be taken multiple times with change in topic.	As offered
HSC 410	<b>Health Behavior Change (3)</b> 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.	As offered
HSC 420	<b>Healthcare Policy (3)</b> 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. Prerequisite: HSC 104.	As offered
HSC 450	<b>Curriculum Design in Health Education (3)</b> This course introduces the theories and skills necessary to develop health education curricula based on analysis of individual, community, and societal needs and interests. Prerequisites: HSC 301 and Junior status.	Online and Professional Studies
HSC 460	<b>Planning and Evaluating Health Education Programs (3)</b> 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, worksite, 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.	As offered

## Academic Programs

HSC 480	<b>Research Methods (3)</b> 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. Prerequisite: STA 144; Junior or Senior status.	As offered
HSC 491	<b>Internship in Health Science (1-4)</b> 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. Course may be repeated for a maximum of six (6) total units of credit. Prerequisite: Health Science major and junior or senior standing.	As offered
HSC 499	<b>Health Science Capstone (2)</b> 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. Pre- or Co- requisite: HSC 480 and Senior status.	As offered

## HEALTHCARE ADMINISTRATION

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. Graduates are also prepared for further education in Master level programs in Business Administration, Health/Hospital Administration, and Public Health.

### TRADITIONAL PROGRAM REQUIREMENTS

#### Healthcare Administration Major (48 units) BS

##### Lower Division Requirements

ALH 101	Introduction to Allied Health Professions
BIO 173	Medical Terminology
BUS 217	Microeconomics
BUS 218	Macroeconomics
HSC 104	Survey of U.S. Healthcare 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
HSC 300	Health Communication
HSC 305	Epidemiology
HSC 420	Healthcare Policy
POL 451	Executive Leadership and Management in the Public Sector

##### Minor Requirement

Students must declare and complete all requirements for the Business Administration minor.

### Healthcare Administration Course Descriptions

HCA 330	<b>Health Information Systems (3)</b> 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.	Fall
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HCA 360	<b>Finance and Reimbursement in Healthcare (3)</b> 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.	Fall
HCA 410	<b>Quality Improvement in Healthcare (3)</b> 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. Prerequisites: HCA 330, 360, and STA 144. Pre- or Co-requisite: HCA 490.	Fall
HCA 450	<b>Healthcare Legal Issues and Ethics (3)</b> 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.	Spring
HCA 490	<b>Current Issues in Healthcare Administration (2)</b> 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. Prerequisites: HCA 330, 360, and STA 144.	Fall
HCA 499	<b>Healthcare Administration Capstone (3)</b> 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.	Spring

## HEBREW

### Hebrew Course Descriptions

HEB 213	<b>Biblical Hebrew I (3) M</b> A study of the fundamentals of biblical Hebrew, including pronunciation, vocabulary, verbs, nouns, parts of speech as well as elements of Hebrew syntax.	Fall
HEB 223	<b>Biblical Hebrew II (3) M</b> 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. Prerequisite: HEB 213.	Spring
HEB 313	<b>Intermediate Biblical Hebrew I (3) M</b> Continuing study of the writing, grammar, vocabulary, syntax, and literature of Biblical Hebrew II. Prerequisite: HEB 223.	As offered
HEB 323	<b>Intermediate Biblical Hebrew II (3) M</b> Continuing study of the writing, grammar, vocabulary, syntax, and literature of Intermediate Biblical Hebrew I. Prerequisite: HEB 313.	As offered
HEB 400	<b>Advanced Hebrew (3) M</b> A careful exegesis study of a specific section of the Hebrew Bible, presenting the opportunity to further develop translational, analytical, and interpretive skills. May be repeated with change in text. Prerequisite: HEB 323.	As offered

## HISTORY

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

### TRADITIONAL PROGRAM REQUIREMENTS

#### History Major (36 units) BA

##### Lower Division Requirements

HIS	213	History of the United States I
HIS	223	History of the United States II
HUM	213	Humanities I
HUM	223	Humanities II

##### Upper Division Requirements

HIS	490	Historiography
HIS	499	Senior Project

##### American History Elective Requirement

Complete three (3) units from the following:

HIS	311	Minorities in America
HIS	383	The West in American History
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

##### European History Elective Requirement

Complete three (3) units from the following:

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	435	The Holocaust: Historiographic, Philosophic, and Religious Perspectives
HIS	436	Ethics after the Holocaust
HIS	437	Studies in the Holocaust: Perpetrators and Victims, Rescuers and Bystanders

##### World History Elective Requirement

Complete three (3) units from the following:

HIS	305	History of China
HIS	315	Latin American History
HIS	325	Non-Western Culture and History
HIS	404	Special Topics in World History*
HIS	415	The Ancient World
HIS	423	Medieval Civilization
HIS	430	Cross and the Crescent

##### Upper Division Elective Requirements\*\*

Complete nine (9) additional upper division units in History\*

\*Students may also apply CST 360, PHI 301, PHI 302, POL 423, POL 425, POL 427, POL 429, and POL 443 to the upper division history elective requirement.

##### Optional Concentration in Holocaust Studies\* (12 units)

HIS	343	Twentieth Century Europe
HIS	435	The Holocaust: Historiographic, Philosophic, and Religious Perspectives
HIS	436	Ethics after the Holocaust
HIS	437	Studies in the Holocaust: Perpetrators and Victims, Rescuers, and Bystanders

\*The Holocaust studies concentration requires the completion of twelve (12) units beyond the major.

**History Minor (24 units)****Lower Division Requirements**

HIS 213	History of the United States I
HIS 223	History of the United States II
HUM 213	Humanities I
HUM 223	Humanities II

**Upper Division Requirements**

HIS 490	Historiography
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**Upper Division Elective Requirements**

Nine (9) additional upper division units in History\*

\*Students may also apply PHI 301, PHI 302, POL 423, POL 425, POL 427, POL 429, and POL 443 to the upper division history elective requirement.

**History Course Descriptions**

HIS 201	<b>Special Topics in U.S. History (3)</b> Concentrates on a different topic of U.S. History each time offered. May be repeated with change in subject matter. Student involvement in selection of topics is encouraged.	As offered
HIS 202	<b>Special Topics in Non-U.S. History (3)</b> Concentrates on a different topic in Non-U.S. History each time offered. May be repeated with change in subject matter. Student involvement in selection of topics is encouraged.	As offered
HIS 213	<b>History of the United States to Reconstruction (3) M</b> A general survey of the social, political, economic, cultural, and religious developments from 1492 through Reconstruction.	Fall, Spring
HIS 223	<b>History of the United States since the Civil War (3) M</b> A continuation of HIS 213. May be taken before HIS 213.	Fall, Spring
HIS 305	<b>History of China (3) M</b> 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.	Spring (even years)
HIS 311	<b>Minorities in America (3) I, M</b> 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.	Fall, Spring
HIS 315	<b>Latin American History (3) I, M</b> 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.	Fall, Spring
HIS 325	<b>Non-Western Culture and History (3) I,M</b> 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.	Fall, Spring
HIS 333	<b>Nineteenth Century Europe (3) M</b> 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.	Fall (even years)
HIS 343	<b>Twentieth Century Europe (3)</b> 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.	Spring (odd years)
HIS 353	<b>Renaissance and Reformation Europe (3)</b> 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.	Fall (odd years)

## Academic Programs

HIS 360	<b>Enlightenment Europe (3)</b> 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.	Spring (even years)
HIS 363	<b>History of England to 1688 (3)</b> 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.	Fall (odd years)
HIS 373	<b>History of England since 1688 (3)</b> 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.	Spring (even years)
HIS 383	<b>The West in American History (3) M</b> A study of the westward movement of the American frontier from the colonies to the Pacific with emphasis on the significant role of the frontier in the development of American ideals and institutions.	As offered
HIS 393	<b>History of California (3) I, M</b> 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.).	Fall, Spring
HIS 399	<b>Independent Study (1-3)</b> 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.	
HIS 401	<b>Special Topics in U.S. History (3)</b> Course concentrates on a specific topic in U.S. History. May be repeated once with change in topic.	As offered
HIS 402	<b>Special Topics in Non-U.S. History (3)</b> Concentrates on a different topic in Non-U.S. History each time offered. May be repeated with change in topic. Student involvement in selection of topics is encouraged.	As offered
HIS 403	<b>Special Topics in European History (3)</b> Course concentrates on a specific topic in European History. May be repeated once with change in topic.	As offered
HIS 404	<b>Special Topics in World History (3)</b> Course concentrates on a specific topic in World History. May be repeated once with change in topic.	As offered
HIS 415	<b>The Ancient World (3) I</b> Four great ancient civilizations are surveyed: Mesopotamian, Egyptian, Greek, and Roman. Special attention is given to the Christian and Greco-Roman origins of Western culture.	Fall (even years)
HIS 423	<b>Medieval Civilization (3)</b> 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.	Spring (odd years)
HIS 430	<b>Cross and the Crescent (3) I, M</b> 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.	Fall (odd years)
HIS 435	<b>The Holocaust: Historiographic, Philosophic and Religious Perspectives (3) I, M</b> The course introduces the student to the extensive historiography covering the period of recent history and associated events cumulatively nominated the Holocaust/Shoah. It will provide opportunity for personal and in-depth analysis of some of the causes and consequences of this “war against the Jews.” Items for study and reflection will include dramatic literary and film narratives, along with traditional historical analysis and documents.	Spring (even years)

HIS 436	<b>Ethics After the Holocaust (3)</b> This course aims to introduce and explore the philosophical, social, historical, and theological aspects of ethical theory since the Holocaust. Specifically, after a brief historical introduction to contemporary philosophical and theological ethics, students will read and discuss a range of historical, philosophical and theological materials that deal with ethics during and after the Holocaust. The course will also address the contentious claim that the Holocaust actually seldom directly enters into such normative discourse, and so the class will then investigate the historical bases for that absence, with the aim of understanding and critiquing that claim. The course concludes with an investigation and discussion of forgiveness in the face of radical evil.	Fall (even years)
HIS 437	<b>Studies in the Holocaust: Perpetrators and Victims, Rescuers, and Bystanders (3)</b> The Holocaust was not only an event involving nations and groups, and the focus on six million who were murdered is not merely a passing statistic. This course takes a finer-grained look at individuals who were involved in these atrocities. Some were perpetrators, ordering and obeying orders to kill; others were victims, the targets of these attacks. Others were bystanders, those who did not directly participate, but stood by and allowed the killing to take place, and in some instances directly or indirectly benefited from the killing. Still others, much fewer in number, risked their status, their property, their liberty and even their lives and the lives of their loved-ones, to rescue those who were targeted for killing. Why and how did people decide to occupy these roles? We will take a close look at representative figures in all these categories, seeking to understand their positions, and what those figures and their lives teach us about ourselves and our options in the midst of contemporary troubles.	Fall (odd years)
HIS 472	<b>Colonial America, 1607-1787 (3) M</b> 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.	As offered
HIS 474	<b>Early American Republic, 1787-1848 (3) M</b> 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.	As offered
HIS 475	<b>The Civil War and Its Political Crises, 1848-1865 (3)</b> 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.	As offered
HIS 476	<b>The Emergence of Modern America, 1865-1919 (3) M</b> 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.	As offered
HIS 478	<b>Modern America, 1920-1989 (3) M</b> 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.	As offered
HIS 490	<b>Historiography (3)</b> 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.	Fall
HIS 491	<b>Internship in History (1-3)</b> 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.	Fall, Spring
HIS 499	<b>Senior Project (3)</b> 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. Prerequisite: HIS 490 and Senior status.	Spring

## HONORS PROGRAM

The University Honors Program offers students from all major areas of study the opportunity to participate in rigorous study through 18 units of intensive seminars. These seminars, interdisciplinary in nature and incorporating serious consideration of the implications of Christian worldview, require diligent reading of primary sources and writing of original essays. Taught by leading faculty from across the university, these seminars lead students in careful study of and reflection on important themes in (primarily) Western Civilization that are key to understanding contemporary culture. [See full program description in the Colleges, Schools, and University Programs section.]

### TRADITIONAL PROGRAM REQUIREMENTS

#### Honors Program Requirements (18 units)

##### Lower Division Requirements

Complete ten (10) units from the following:

HON 100	Honors Seminar
HON 102	Honors Seminar
HON 150	Honors Seminar
HON 152	Honors Seminar
HON 200	Honors Seminar
HON 250	Honors Seminar

##### Upper Division Requirements

Complete at least eight (8) units at the upper division level from the following:

HON 300	Honors Seminar
HON 350	Honors Seminar
HON 352	Honors Seminar
HON 400	Honors Seminar
HON 402	Honors Seminar
HON 450	Honors Seminar
HON 452	Honors Seminar

\*Transfer students who matriculate with junior status and are accepted into the honors program may be eligible to complete HON 399 to fulfill lower division requirements.

### Honors Course Descriptions

HON 100	Honors Seminar (3) I	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.		
HON 102	Honors Seminar (2) I	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.		
HON 150	Honors Seminar (3) I	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.		



HON 152	<b>Honors Seminar (2) I</b>	<b>As offered</b>
	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.	
HON 200	<b>Honors Seminar (3) I</b>	<b>As offered</b>
	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.	
HON 250	<b>Honors Seminar (3) I</b>	<b>As offered</b>
	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.	
HON 300	<b>Honors Seminar (3) I</b>	<b>As offered</b>
	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.	
HON 350	<b>Honors Seminar (3) I</b>	<b>As offered</b>
	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.	
HON 352	<b>Honors Seminar (2) I</b>	<b>As offered</b>
	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.	
HON 399	<b>Independent Study (3) I</b>	
	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.	
HON 400	<b>Honors Seminar (3) I</b>	<b>As offered</b>
	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.	

## Academic Programs

HON 402	<b>Honors Seminar (2) I</b> 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.	<b>As offered</b>
HON 450	<b>Honors Seminar (3) I</b> 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.	<b>As offered</b>
HON 452	<b>Honors Seminar (1) I</b> 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.	<b>As offered</b>

## HUMANITIES

### Humanities Minor (18 units)

#### Lower Division Requirements

HUM 213 Humanities I

HUM 223 Humanities II

#### Upper Division Requirements

HIS 325 Non-Western Cultures and History

HUM 325 Culture and the Museum

HUM 335 The Holocaust and the Humanities

HUM 400 Special Topics in Humanities

### Humanities Course Descriptions

HUM 213	<b>Humanities I (3) I, M</b> 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. (Meets the Non-US History general education requirement.)	<b>Fall, Spring</b>
HUM 223	<b>Humanities II (3) I, M</b> The course consists of interrelations of history, art, literature, music, and philosophy. It covers the culture-epochs from the Renaissance to contemporary times. (Meets the Non-US History general education requirement.)	<b>Fall, Spring</b>
HUM 325	<b>Culture and the Museum (3) I, M</b> The course explores critically the ways in which at least two of the five areas of the Humanities (Philosophy; Literature; Art; Music; General Culture [History]) are related to the experience of the museum, with specific attention given to the 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 instructor.	<b>Fall</b>
HUM 335	<b>The Holocaust and the Humanities (3) I</b> The course explores critically the ways in which at least two of the five areas of the Humanities (Philosophy; Literature; Art; Music; General Culture [History]) are impacted and interact with the experience of the Holocaust. The focus of this course will be on the Philosophy, Literature, and Art.	<b>Spring</b>
HUM 400	<b>Special Topics in Humanities (3) I</b> This course examines special topics in humanities. Topics are announced each time the course is offered. May be repeated with change in topic.	<b>As offered</b>
HUM 401	<b>Special Studies in Humanities (1)</b> This course examines special topics in humanities. Topics are announced each time the course is offered. May be repeated with change in topic.	<b>As offered</b>

# INDUSTRIAL AND ORGANIZATIONAL PSYCHOLOGY

## Industrial and Organizational Psychology Certificate

The Industrial and Organizational Psychology 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 industrial and organizational psychology designed for students with a major outside the School of Behavioral Sciences who wish to supplement their academic interest or goals.

### Certificate Requirements (18 units)

BUS 435	Leadership in Organizations OR LDR 310 Leadership Theory
BUS 463	Business and Organizational Management
PSY 213	General Psychology*
PSY 388	Industrial and Organizational Psychology
SWK 320	Human Behavior and the Social Environment I

Complete one of the following courses in research methods/statistics: BEH 383\*, BUS 315, CJS 485, POL 450, HSC 480

\*Course may be applied to both the major core requirements and concentration.

# INDUSTRIAL AND SYSTEMS ENGINEERING

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 Electrical and Computer Engineering degree program is accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET), <http://abet.org>.

## TRADITIONAL PROGRAM REQUIREMENTS

### Industrial and Systems Engineering Degree (124 units) BSISE

#### 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 industrial and systems engineering requirements. Approximately eighteen (18) units of general education are not met in the specific core and industrial and systems engineering requirements.

#### Math and Science Unit Requirement

†A minimum of thirty two (32) units of Math or Science coursework is required for the degree. Courses in the degree designated with a † meet this requirement.

#### Lower Division Core Engineering Requirements (15 units)

EGR 101	Engineering from a Christian Worldview OR EGR 301*
EGR 102	Introduction to Engineering Design
EGR 103	Engineering Service I OR EGR 303*
EGR 121	Introduction to Computer Programming in C++
EGR 122	Visualization Languages I
EGR 192	Engineering Seminar I OR EGR 392*
EGR 202	Worldview Reflection I**

\*Junior/Senior transfer students will complete EGR 301, 303, and 392. All other students will complete EGR 102, 103, and 192.

\*\*Successful completion of EGR 202 is required for entrance into the Engineering degree program.

#### 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 Presentation
EGR 403	FE Exam
EGR 404	Worldview Reflection II
EGR 405	Internship Report and Presentation

## Academic Programs

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### Math and Science Requirements (30 units)

EGR 182	Introductory Mathematics for Engineering Applications <sup>†</sup>
EGR 382	Applied Differential Equations and Linear Algebra <sup>†</sup>
MAT 245	Analytical Geometry and Calculus I <sup>†</sup>
MAT 255	Analytical Geometry and Calculus II <sup>†</sup>
MAT 343	Multivariable Calculus <sup>†</sup>
PHY 201	Physics for Engineers I with Lab <sup>†</sup>
PHY 203	Physics for Engineers II with Lab <sup>†</sup>
CHE 130	Introduction to Chemistry for Engineers <sup>†</sup> or CHE 115 <sup>†</sup>

### Lower Division Industrial and Systems Engineering Requirements (7 units)

EGR 231	Circuit Theory I
EGR 281	Introduction to Industrial and Systems Engineering

### Upper Division Industrial and Systems Engineering Requirements (39 units)

EGR 324	Engineering Economics
EGR 344	Materials and Manufacturing Process
EGR 381	Operations Research: Deterministic Methods
EGR 383	Quality Control
EGR 384	Human Factor and Ergonomics
EGR 386	Operations Research: Probabilistic Methods
EGR 481	Systems Simulations
EGR 482	Supply Chain and Logistics Management
EGR 483	Production Systems

Complete six (6) additional upper division units from the following: EGR 341, 342, or 361.

Complete six (6) additional upper division approved Industrial and Systems 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 are available in the College of Engineering.

## INTERCOLLEGIATE ATHLETICS

Students must obtain consent of the team coach to register for intercollegiate athletics. Courses are graded as pass/fail.

KIN 201	(Men) or (Women) Varsity Basketball (1)
KIN 202	(Men) Varsity Baseball(1)
KIN 203	(Men) or (Women) Varsity Swimming(1)
KIN 204	(Men) or (Women) Varsity Waterpolo (1)
KIN 205	(Men) or (Women) Varsity Wrestling(1)
KIN 206	(Men) or (Women) Varsity Soccer(1)
KIN 207	(Women) Varsity Softball(1)
KIN 208	(Men) or (Women) Varsity Volleyball(1)
KIN 209	(Men) or (Women) Varsity Cheerleading(1)
KIN 213	(Men) or (Women) Varsity Cross Country(1)
KIN 215	(Men) or (Women) Varsity Golf(1)

# INTERCULTURAL STUDIES

## TRADITIONAL PROGRAM REQUIREMENTS

### Intercultural Studies Major (48 units) BA

#### General Education Recommendation

ANT	225	Cultural Anthropology
SCI	200	Environmental Science*
STA	144	Introduction to Statistics*

\*Recommended for students completing the Global Justice concentration.

#### Lower Division Requirements

ICS	105	Introduction to Global Studies
ICS	205	Models of Discipleship

#### Old Testament Elective Requirements

Complete six (6) units from the following:

CST	210	Pentateuch and Former Prophets
CST	220	Latter Prophets and Writings
CST	315	Old Testament Ethics

#### New Testament Elective Requirements

Complete six (6) units from the following:

CST	230	Jesus and the Gospels
CST	240	Paul and the Early Church
CST	411	Special Topics in New Testament

#### Upper Division Requirements

CST	370	Christian Doctrine
ICS	305	Global Perspective
ICS	375	Studies in World Movements and Events
ICS	430	Intercultural Communications
PHI	353	Comparative Religions

\*International/Intercultural experience required.

#### Practicum Requirement

ICS	494	Field Practicum Preparation
ICS	495	Field Practicum (3 units) OR CST 491 Supervised Ministry

#### Concentration Courses (12 units)

Students must complete all requirements in one of the following concentrations:

Global Justice; Global Ministries, TESOL

##### Global Justice

BUS	362	Social Entrepreneurship OR BUS 363 Microfinance
CST	425	Christian Social Ethics
ICS	415	Special Topics in Intercultural Studies
POL	454	International Organizations

##### Global Ministries

CST	350	Biblical Interpretation
ICS	435	Church Planting
ICS	495	Field Practicum (6 units)

##### TESOL

ENG	463	Language Structure and Acquisition
ENG	472	Theory and Methods of TESOL

Complete six (6) additional upper division units from the following: ENG 442, 446, 452

## Academic Programs

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### Intercultural Studies Course Descriptions

ICS 105	<b>Introduction to Global Studies (3) I, M</b> This course contrasts basic western egocentric Christianity with the God-centered global perspective of biblical Christianity. The course addresses the basic elements of the Christian faith in the context of God's global agenda. Topics include worldview, God's global purpose, the Kingdom of God, prayer, the Holy Spirit, the mission of the Church.	Fall, Spring
ICS 130	<b>Intercultural Communications for International Students (3) I, M</b> 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. Prerequisite: International Student or Dean Approval.	As offered
ICS 205	<b>Models of Discipleship (3) I</b> An advanced course related to the biblical principle of discipleship, including both what a disciple of Jesus is and how disciples are made. Focus on models of discipleship and a student's development of a personal strategy of discipleship.	Fall
ICS 305	<b>Global Perspectives (3) I, M</b> 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.	Spring
ICS 325	<b>Spiritual Formations for Global Engagement (3)</b> This course will explore the pursuit of intimacy with Christ as the basis for fullness of life and effective engagement in the mission of Christ. The foundation of our participation in the mission of God flows through our dynamic relationship with Christ. The course will analyze the Biblical principles that develop and maintain one's relationship with God as we participate in the work of God's grace of being conformed to the image of his son.	As Offered
ICS 375	<b>Current Events and Movements (3) I, M</b> This course will examine the current political, social, economic, and human events in selected areas of the world, deliberate their global impact and consider the events impact on the mission of the church.	Fall, Spring
ICS 405	<b>Marketplace Strategies for Global Advancement (3) I, M</b> This course focuses on the strategic nature of the marketplace as it relates to the advancement of Christ's Kingdom among the nations. This course will define God's global agenda, investigate the biblical and historical role of the marketplace in God's global strategy, guide the students to think strategically in the context of their majors, and how God will use that marketable skill to disciple the nations.	Fall
ICS 415	<b>Special Topics in Intercultural Studies (3) M</b> An examination of specific area(s) of Intercultural Studies. May be repeated with change in subject matter. Prerequisite: Previous Intercultural Studies coursework.	As offered
ICS 430	<b>Intercultural Communications (3) M</b> The purpose of this course is to explore the principles of intercultural communications. This course will address principles and processes of communication from one culture to another. The course will also focus on different perceptions, ways of thinking, values, non-verbal expression, language expression and sub-groups within a culture as they relate to the media and the message.	Spring
ICS 431	<b>Cross-cultural Immersion (3) M</b> The course provides students the opportunity for supervised cross-cultural immersion and study abroad. The course also gives students the opportunity to experience, study and explore firsthand the challenges of living, communicating and 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. The material will be presented through lectures, small group discussions, reading assignments and cultural immersions with an emphasis relational development and service. Prerequisite: Permission of the Dean of School of Christian Ministries.	Spring, Summer
ICS 435	<b>Church Planting (3) M</b> This course examines the biblical principles of churches and will conduct research and analysis of various church planting strategies. Attention will be given to church planting principles that are cross-culturally transferable and models of postmodern church planting.	Fall

ICS 494	Field Practicum Preparation (0) Perspective field practicum students are required to take this course the semester prior to participation in the Field Practicum program. The course covers topics that will prepare the student spiritually, emotionally, culturally and intellectually for a successful practicum experience. Successful completion with a grade of “pass” is required for field practicum enrollment. Prerequisite: Permission of the Dean of School of Christian Ministries.	Fall, Spring
ICS 495	Field Practicum (3-15) M An extended cross-cultural experience through either study abroad or study in an approved domestic program. Students will spend a semester working with and supervised by resident field personnel around the world, taking part in imaginative and meaningful service. The field practicum provides an opportunity to develop cross-cultural experience and competence in a field environment while exploring specific geographical, cultural and career areas of interest. The course may be repeated for a maximum of fifteen (15) units of credit. Prerequisite: ANT 225, ICS 105, 205, 305, 494 and Permission of the Dean of School of Christian Ministries.	Fall, Spring, Summer

## INTERDISCIPLINARY STUDIES

### Interdisciplinary Studies Course Descriptions

IDS 499	Capstone Portfolio (1) 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 development a personal development plan. Students will demonstrate critical self-reflection and ability to make judicious, relevant and insightful applicants and professional judgement from their cumulative undergraduate experience. Pass/Fail.	Online and Professional Studies
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## INTERNATIONAL HEALTH

### International Health Course Descriptions

INH 101	Introduction to International Health (3) 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.	As offered
INH 305	Maternal and Child Health in Developing Countries (3) 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.	As offered
INH 300	Outbreak and Emergency Preparation and Response (3) 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.	As offered
INH 320	Population Health and Family Planning (3) 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).	As offered

## INTERNATIONAL STUDIES

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 PROGRAM REQUIREMENTS

#### International Studies Major (54 units) BA

##### 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 Development
HIS	325	Non-Western Culture and History
ICS	430	Intercultural Communications
POL	395	Political Economy
POL	415	World Geography
POL	437	Globalization
POL	450	Research Methods in Political Science
POL	499	Capstone Course

##### 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	444	International Marketing
BUS	454	International Management
MKT	333	Principles of 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 Perspectives
ICS	375	Studies in World Movements and Events
ICS	405	Marketplace Strategies for Global Advancement
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.

##### General Education Requirement

Complete the foreign language competency requirement with a modern foreign language.



# JOURNALISM AND NEW MEDIA

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 PROGRAM REQUIREMENTS

### Journalism and New Media Major (45 units) BA

#### Lower Division Requirements

JRN 150	Media and Society
JRN 170	Writing for Mass Media
JRN 210	Digital Photography
JRN 216	Digital Storytelling
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 397	Publication Seminar
JRN 430	Multimedia Reporting, Editing and Producing

#### Concentration Courses (12 units)

Students must complete all requirements in one of the following concentrations:

Broadcast Journalism; Global Journalism; Media Photography; Public Relations; Sports Journalism; Writing and Publishing

#### Broadcast Journalism

JRN 360	Audio Newsgathering
JRN 380	Video Newsgathering
JRN 400	Special Topics in Journalism OR JRN 450 Internship in Journalism
JRN 470	Reporting and Producing for Broadcast Media

#### Global Journalism

ICS 305	Global Perspectives
ICS 430	Intercultural Communications
JRN 400	Special Topics in Journalism OR JRN 450 Internship in Journalism
PHI 353	Comparative Religions

#### Media Photography

JRN 310	Advanced Digital Photography
JRN 410	Photo Editing
JRN 400	Special Topics in Journalism OR JRN 450 Internship in Journalism
JRN 414	Social Documentary

#### Public Relations

JRN 370	Social Media Strategies
JRN 400	Special Topics in Journalism OR JRN 450 Internship in Journalism
JRN 420	Public Relations Writing, Campaigns and Strategies
PRL 300	Public Relations

#### Sports Journalism

JRN 340	Sports Writing
JRN 370	Social Media Strategies
JRN 400	Special Topics in Journalism OR JRN 450 Internship in Journalism
JRN 440	Writing Columns and Blogs

#### Writing and Publishing

JRN 370	Social Media Strategies
JRN 400	Special Topics in Journalism OR JRN 450 Internship in Journalism
JRN 440	Writing Columns and Blogs
JRN 460	Investigative Reporting

## Academic Programs

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### Journalism and New Media Minor (24 units)

#### Lower Division Requirement

JRN 150	Media and Society
JRN 170	Writing for Mass Media
JRN 210	Digital Photography
JRN 216	Digital Storytelling

#### 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 Digital Photography
JRN 320	Media Law, Ethics and Copyright
JRN 340	Sports Writing
JRN 349	Editing for Print and Online Media
JRN 360	Audio Newsgathering
JRN 370	Social Media Strategies
JRN 380	Video Newsgathering
JRN 400	Special Topics in Journalism
JRN 440	Writing Columns and Blogs
JRN 460	Investigative Reporting
JRN 470	Reporting and Producing for Broadcast Media

### Journalism Course Descriptions

JRN 150	<b>Media and Society (3) I, M</b> 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.	Fall, Spring
JRN 170	<b>Writing for Mass Media (3)</b> 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. Prerequisite: ENG 113.	Fall, Spring
JRN 200	<b>Special Topics in Journalism (3)</b> Concentration upon a specific topic in the field of Journalism. Topic varies for different semesters. May be taken multiple times with change in topic.	As offered
JRN 210	<b>Digital Photography (3) I, M</b> This course introduces students to the equipment, techniques, and practicalities of photography. Students learn that photography strikes a balance between craft, form, content/concept, emotion and expression as they become active and critically informed image-makers. Basic aesthetic concerns will be examined, including the exploration of image-making and presentation techniques.	Fall, Spring
JRN 216	<b>Digital Storytelling (3)</b> 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 broadcast journalism elements and skills; to introduce an understanding of ethics, standards and legalities of producing and publishing broadcast pieces; and to provide knowledge and skills necessary to develop audio and video components of multimedia journalism.	Fall, Spring
JRN 220	<b>Podcasting and Broadcasting Principles (3)</b> This course is a study on the field of broadcasting within the form of a pod cast. The evolution of this new form of media and the impact it has had in the field of journalism will be explored. Instructional goals are to enhance awareness of new broadcast journalism-pod cast; to increase the ability to identify effective pod cast episodes and demonstrate an understanding of the ethics, standards and legalities of producing and publishing pod cast episodes; to enhance the ability to employ reason and logic as tools for discerning the evolution of the field of broadcast journalism; and to provide knowledge and skills necessary to work on a pod cast team.	Fall, Spring

JRN 253	<b>News Editing and Design (3) I, M</b> Principles and practice of newspaper editing, copy improvement, headline writing, news photos and cutlines, wire services, typography, copy schedules and control, page design and layout. Prerequisite: ENG 113.	Fall
JRN 254	<b>Publication Layout and Design (3) I, M</b> 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.	Fall, Spring
JRN 310	<b>Advanced Digital Photography (3)</b> Journalistic examination of elements of excellent photographic principles. Attention will be given to the development of artistic and technical skills such as composition, focus, lighting techniques, and photo editing, as well as personal skills, such as relating to subjects, reporters, and editors. An excellent photograph provides insight into written stories, and many times the stories are told more effectively with pictures. This course will teach the art of telling a story with pictures. Prerequisite: JRN 210.	Fall
JRN 312	<b>Magazine and Feature Writing (3) I, M</b> 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. Prerequisite: JRN 170.	Fall, Spring
JRN 315	<b>News Reporting (3) I, M</b> 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. Prerequisite: JRN 170.	Fall, Spring
JRN 320	<b>Media Law, Ethics and Copyright (3)</b> 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.	Fall, Spring
JRN 340	<b>Sports Writing (3)</b> 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. Prerequisites: JRN 170.	Fall
JRN 349	<b>Editing for Print and Online Media (3) I</b> 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. Prerequisites: ENG 113 or JRN 170.	Fall, Spring
JRN 350	<b>Magazine Writing (3) I, M</b> 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.	Fall, Spring
JRN 360	<b>Audio Newsgathering (3)</b> This course provides students opportunities to participate in the production of radio news stories and newscasts, using professional principles, aesthetics, ethics, and practices of journalistic audio reporting, producing in-field and project assignments. Prerequisite: JRN 216.	Fall
JRN 370	<b>Social Media Strategies (3)</b> 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.	Fall
JRN 371	<b>Applied Journalism Production (3)</b> 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.	Fall, Spring
JRN 380	<b>Video Newsgathering (3)</b> 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. Prerequisite: JRN 216.	Spring

## Academic Programs

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JRN 397	<b>Publication Seminar (3)</b> Prepares students to produce high-quality publications. Students will learn to work within the guidelines of the university, the publisher of the campus publications, to produce the Angelos yearbook, Banner newspaper or Pursuit magazine. Creating and publishing student-run campus publications will provide an opportunity for students to learn production skills, including editing, interviewing, writing, layout and design, photography, audio, videography, and management skills that will be vital tools for careers in media. Laboratory and field work. May be repeated once for credit.	Fall, Spring
JRN 399	<b>Independent Study (3)</b> An opportunity for students who have demonstrated the ability to do independent work to pursue in depth a topic of particular interest.	As offered
JRN 400	<b>Special Topics in Journalism (3)</b> Concentration upon a specific topic in the field of journalism. Topic varies for different semesters. May be taken multiple times with change in topic.	Fall, Spring
JRN 410	<b>Photo Editing (3)</b> Advanced journalistic still and video photography emphasizing photo editing, including specialized techniques in lighting, flash and related skills to teach students how to capture a journalistic story in digital formats. Prerequisite: JRN 310.	Spring
JRN 414	<b>Social Documentary (3 units)</b> A social documentary is photos and video with a purpose - used to train, teach, motivate, shock, inspire, and raise awareness, consciousness and funds. As the Internet provides more opportunities for the independent journalist and activist groups form global alliances, the social documentary becomes an increasingly powerful tool for social change. Primary concern will be portfolio-quality, single storytelling pictures and multiple picture packages, including picture stories. Deadline pressure is emphasized, as well as trends, social implications, and portfolio preparations. Prerequisite: JRN 310.	Spring
JRN 420	<b>Public Relations Writing, Campaigns and Strategies (3)</b> 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.	Spring
JRN 430	<b>Multimedia Reporting, Editing and Producing (3)</b> 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. Prerequisite: JRN 216.	Fall
JRN 440	<b>Writing Columns and Blogs (3)</b> 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. Prerequisite: JRN 170.	Fall
JRN 450	<b>Internship in Journalism (1-3)</b> 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. Prerequisite: Permission of the Department Chair.	Fall, Spring
JRN 451	<b>Internship in Journalism (1-3)</b> 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. Prerequisite: JRN 450 and permission of the Department Chair.	Fall, Spring
JRN 460	<b>Investigative Reporting (3)</b> 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. Prerequisite: JRN 170.	Spring
JRN 470	<b>Reporting and Producing for Broadcast Media (3)</b> 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. Prerequisites: JRN 360 or 380.	Spring

## KINESIOLOGY

The Kinesiology major prepares students for graduate studies and careers in fitness-related industries, teaching, coaching, and health science related fields such as physical therapy, public health, and chiropractic care. The concentration in Physical Education is designed for those interested in teaching physical education. (See the Education section for the Professional Methods Program for Single Subject Credential Students.) The concentration in Sports Medicine is designed for those interested in pursuing athletic training or other rehabilitation-specific careers. The Sport Management concentration prepares sport professionals for a variety of management-related careers in sport, recreation, and leisure programs. The curriculum is designed to prepare students for American College of Sports Medicine and National Strength and Conditioning Association certification examinations.

### TRADITIONAL PROGRAM REQUIREMENTS

#### Kinesiology Major (52-62 units) BS

##### Lower Division Requirements

- ALH 101 Introduction to Allied Health Professions
- BIO 153 Anatomy and Physiology I with Lab
- KIN 108 Swimming OR KIN 109 Lifesaving (1 unit minimum excluding varsity sport participation)
- KIN 110-122 Physical Activity\* (3 units total)
- KIN 264 Movement Anatomy
- KIN 274 Applied Movement Anatomy

\* Must complete three (3) different forms of activity not including aquatics or varsity sport participation.

##### 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 Measurement and Evaluation in Kinesiology

##### Concentration Courses (16 units)

Students must complete all requirements in one of the following concentrations:

Physical Education; Sports Management; Sports Medicine

##### Physical Education\*

- KIN 212 First Aid and Safety
  - KIN 363 Movement Experiences for Children
  - KIN 404 Movement Experiences for Middle School Students
  - KIN 414 Methods of Teaching Sport Activities
  - KIN 423 Organization and Administration of Physical Education
- Three (3) additional upper division units in Kinesiology

##### Sport Management

- KIN 212 First Aid and Safety
  - KIN 305 Applied Sport Management
  - KIN 315 Sport Governance
  - KIN 423 Organization and Administration of Physical Education
  - KIN 433 Sport and Activities Practicum
- Three (3) additional upper division units in Kinesiology

##### Sports Medicine

- BIO 163 Anatomy and Physiology II
- KIN 304 Introduction to Athletic Training
- KIN 312 Emergencies in Sports Medicine
- KIN 433 Sports and Activities Practicum
- KIN 490 Principles of Conditioning Athletes

## Academic Programs

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### Recommended Courses for students interested in further study in Physical Therapy or Health Sciences

The following courses are in addition to the exercise science emphasis and do not constitute their own emphasis:

BIO	153	Anatomy and Physiology I
BIO	163	Anatomy and Physiology II
CHE	115	General Chemistry I
CHE	125	General Chemistry II
PHY	214	Physics for Scientists I with Lab
PHY	224	Physics for Scientists II with Lab
PSY	213	General Psychology
STA	144	Introduction to Statistics

The student should check with specific physical therapy or health science schools for further course requirements.

### Kinesiology Minor (25 units)

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.

#### Lower Division Requirements

KIN	212	First Aid
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 Sports Activities

### Kinesiology Course Descriptions

See Intercollegiate Athletics for varsity sports.

KIN 101	Orientation to the Discipline (1) 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. Pass/Fail.	As offered
KIN 106	Volleyball (1) Instruction in the basic rules, skills and equipment related to lifelong participation in volleyball. This course is not repeatable for credit.	Fall, Spring
KIN 107	Cross Training (1) Instruction in multiple and varied activities intended to improve the five components of personal health related fitness. This course is not repeatable for credit.	Fall, Spring
KIN 108	Swimming (1) A general swimming course designed to teach basic water safety and beginning to intermediate level swimming strokes. This course is not repeatable for credit.	Fall, Spring
KIN 109	Lifesaving (1) A lifesaving course designed to meet American Red Cross life guarding certification requirements. This course is not repeatable for credit.	Fall, Spring
KIN 110	Physical Activity (1) 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. This course is not repeatable for credit.	Fall, Spring
KIN 112	Tennis (1) Instruction in the basic rules, skills, and equipment related to lifelong participation in tennis. This course is not repeatable for credit.	Fall, Spring

KIN 113	<b>Golf (1)</b> Instruction in the basic rules, skills, equipment, and etiquette related to lifelong participation in golf. This course is not repeatable for credit.	Fall, Spring
KIN 114	<b>Walking and Running for Fitness (1)</b> Instruction in exercise program development related to improvement cardio respiratory fitness. This course is not repeatable for credit.	Fall, Spring
KIN 115	<b>Weight Training (1)</b> Instruction in introductory strength training principles and techniques, as well as fitness-related nutritional topics. This course is not repeatable for credit.	Fall, Spring
KIN 116	<b>Bowling (1)</b> Instruction and practice in the basic skills related to lifelong participation in bowling. This course is not repeatable for credit.	Fall, Spring
KIN 117	<b>Self Defense I (1)</b> 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. This course is not repeatable for credit.	Fall, Spring
KIN 118	<b>Self Defense II (1)</b> Designed for the student wishing to review basic self defense skills and begin work on intermediate skills in unarmed self defense. Prerequisite: KIN 117. This course may not be repeated for credit.	Fall, Spring
KIN 119	<b>Bicycling (1)</b> Instruction in bicycling safety, maintenance and repair, and cycling techniques related to lifelong participation in cycling. This course is not repeatable for credit.	Fall, Spring
KIN 121	<b>Outdoor Adventure (1)</b> Instruction in the design, implementation, and leadership of adventure activities and programs. A field trip is required. This course is not repeatable for credit.	Fall, Spring
KIN 122	<b>Aerobics (1)</b> 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.	Fall, Spring
KIN 200	<b>Special Topics in Kinesiology (3)</b> Concentration upon a specific topic in the field of Kinesiology. Topic varies for different semesters. May be taken multiple times with change in topic.	As offered
KIN 210	<b>Applied Physical Activity (2)</b> 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.	As offered
KIN 212	<b>First Aid and Safety (1)</b> 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.	Fall, Spring
KIN 213	<b>Community Emergency Response Team Training (1)</b> The purpose of Community Emergency Response Team (CERT) training is to provide students who complete the course with the basic skills they will need to respond to their community's immediate needs in the aftermath of a disaster, when emergency services are not immediately available. By working together, CERTs can assist in saving lives and protecting property using the basic techniques in the course.	Spring
KIN 253	<b>Functional Movement Anatomy</b> 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.	Online and Professional Studies

## Academic Programs

KIN 264	<b>Movement Anatomy (3) I</b> 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. Prerequisite: BIO 153.	Spring
KIN 274	<b>Applied Movement Anatomy (3) I</b> Continued study of the muscle and bone structure of the human body. Heavy emphasis is placed on the biomechanical laws of movement. Prerequisites: KIN 264.	Fall
KIN 298	<b>Extended Field Experience in Kinesiology (12)</b> 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. Prerequisite: Approval of the Department Chair.	As offered
KIN 300	<b>Nutrition Science (3)</b> 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.	Fall, Spring
KIN 301	<b>Sport Coaching and Officiating (3)</b> 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).	As offered
KIN 302	<b>Contemporary Health Issues (3) I</b> 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.	Fall, Spring
KIN 303	<b>Foundations of Kinesiology (3)</b> A study of the historical, philosophical, and scientific foundations of Kinesiology. Emphasized is a critical view of the nature and spectrum of the discipline.	Fall, Spring
KIN 304	<b>Introduction to Athletic Training (3)</b> 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.	As offered
KIN 305	<b>Applied Sport Management (3) I</b> A study of basic management principles and their application to the field of sport.	Fall
KIN 312	<b>Emergencies in Sports Medicine (3)</b> 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 KIN 312.	As offered
KIN 315	<b>Sport Governance (3)</b> 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.	Spring
KIN 332	<b>Lifelong Motor Development (3) I</b> A study of the physical growth and development of humans and how it interacts with and influences motor learning and performance.	Fall, Spring
KIN 353	<b>Care and Prevention of Athletic Injuries (3)</b> 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. Prerequisite: KIN 253 or 264.	Fall, Spring



KIN 363	<b>Movement Experiences for Children (3) I, M</b> 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.	Fall, Spring
KIN 383	<b>Exercise Physiology (3)</b> Physiological principles of exercise. Topics include the responses and adaptations of the neuromuscular system, bioenergetics, and the endocrine, cardiovascular and pulmonary systems to exercise. Prerequisite: BIO 153.	Fall, Spring
KIN 393	<b>Applied Exercise Physiology (3) I</b> A continuation of Exercise Physiology. Topics include applied exercise physiology, gender considerations, environmental exercise physiology, and ergogenic aids. Prerequisite: KIN 383.	Spring
KIN 399	<b>Independent Study (3)</b> An opportunity for students who have demonstrated the ability to do independent work to pursue in depth a topic of particular interest.	
KIN 400	<b>Special Topics in Kinesiology (3)</b> Concentration upon a specific topic in the field of Kinesiology. Topic varies for different semesters. May be taken multiple times with change in topic.	As offered
KIN 402	<b>Diversity in Sport and Physical Activity (3) M</b> A historical analysis and introduction to physical activity, games, and cultural activities from around the world. Students will be active in the participation and implementation of activities.	Fall
KIN 404	<b>Movement Experiences for Middle School Students (3)</b> 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.	Fall
KIN 414	<b>Methods of Teaching Sport Activities (3)</b> 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.	Spring
KIN 423	<b>Organizations and Administration of Physical Education (3)</b> A study of possible administrative challenges in departments of physical education as well as departmental organization and facilities use.	Spring
KIN 433	<b>Sports and Activities Practicum (3)</b> Practical field experience in a professional Kinesiology setting. Prerequisite: Open to juniors and senior or graduate students by permission of the department. Students must arrange the field experience under the guidance and approval of the Kinesiology Department Chair.	As offered
KIN 454	<b>Behavioral Aspects of Sport (3) I</b> 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.	Spring
KIN 473	<b>Measurements and Evaluation in Kinesiology (3)</b> A study of elementary statistics and tests relating to measurement in physical education with emphasis on test administration and application of results. Prerequisite: KIN 383.	Spring
KIN 480	<b>Fitness Assessments and Exercise Prescription (3)</b> 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. Prerequisite: KIN 383.	Fall, Spring
KIN 490	<b>Principles of Conditioning Athletes (3)</b> 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. Prerequisite: KIN 274 and 383.	Fall, Spring

## LATIN

### Latin Course Descriptions

LAT 115	Latin I (3)	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.		
LAT 125	Latin II (3)	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. Prerequisite: LAT 115.		
LAT 215	Latin Literature I (3) M	As offered
This course is the first half of the advanced Latin literature sequence. In this course the student masters the more complex points of Latin grammar and prosody and learns to identify the distinctive styles, syntax, and diction of major classical and Medieval Latin authors. Prerequisite: LAT 125.		
LAT 225	Latin Literature II (3) M	As offered
This course is the second half of the advanced Latin literature sequence. In this course the student masters the ability to sight translate classical and post-classical Latin into fluent English and to identify and assess the divergent purposes, beliefs, and ideas of major classical, Medieval, and Renaissance Latin authors. Prerequisite: LAT 215.		

## LEADERSHIP STUDIES

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 PROGRAM REQUIREMENTS

#### Leadership Studies Major (24 units) BA

##### 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	Group and Leadership
LDR 491	Internship

##### Upper Division Elective Requirements

Complete twelve (12) additional upper division units

#### Leadership Studies Minor (18 units)

The 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.

##### 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 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	Group and Leadership

## 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.

### Certificate Requirements (12 units)

LDR 310 Leadership Theory

LDR 330 Personal Leadership

Complete six (6) additional units from the following:

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 Group and Leadership

## Leadership Studies Course Descriptions

LDR 305	<b>Leadership Seminar (1)</b>	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. May be repeated for credit with change in topic.	
LDR 310	<b>Leadership Theory (3)</b>	As offered
	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.	
LDR 330	<b>Personal Leadership (3)</b>	As offered
	This course introduces the student to the concepts of personal leadership and helps identifies the skills and strategies that the student may employ to effectively lead.	
LDR 350	<b>Communication Principles for Leadership (3)</b>	As offered
	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.	
LDR 410	<b>Ethical and Biblical Principles for Leadership (3)</b>	As offered
	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.	
LDR 430	<b>Decision Making and Leadership (3)</b>	As offered
	This course explores various biases, common heuristics, and social dynamics that often lead to faulty decisions and evaluates strategies and tactics to safe guard the decision making process so has 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.	
LDR 450	<b>Culture and Leadership (3)</b>	As offered
	This course deepens the student's understanding of principles of collaboration, modeling positive behavior, and mentorship in relation to diverse groups, communities, and individuals. Students will evaluate various effective strategies for fostering and nurturing diversity best practices. The course will also have students appreciate the differences of individuals and how to capitalize on those differences as strengths.	

## Academic Programs

LDR 470	<b>Group and Leadership (3)</b> 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 a 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.	As offered
LDR 491	<b>Internship (3)</b> 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.	As offered

## LIBERAL STUDIES

### Liberal Studies / Elementary Subject Matter Program

Candidates for the Preliminary Multiple Subject Credential will complete the state-approved Elementary Subject Matter Program, which meets the general education requirements and the liberal studies major requirements. This program also prepares candidates for graduate study in education. As a state-approved teacher preparation program, the requirements for the Elementary Subject Matter Program are subject to revision at any time by state or federal law. Students are required to pass the California Subject Examination for Teachers (CSET) or an approved state test to establish Subject Matter Competence for the Preliminary Multiple Subject Credential.

## TRADITIONAL PROGRAM REQUIREMENTS

### Liberal Studies Major, BA

#### Option 1: Elementary Subject Matter Program

Students will complete all major requirements, all Elementary Subject Matter Program requirements listed below, including EDU 341, 409, and ETC 407 for the professional methods courses and earn the B.A. They do not complete professional methods courses or student teaching.

#### Reading, Language, and Literature/Communication (24 units)

ENG 113	Composition OR SAT II score of 600 or higher
ENG 123	Intermediate Composition
ENG 2—	Survey of Literature 213-263
ENG 353	Introduction to Children's Literature OR ENG 363 Introduction to Young Adult Literature
ENG 463	Language Structure and Acquisition
	Language I*
	Language II* (must be same language)
COM 113	Oral Communications

\*Language requirement may be met by 2 years of high school language study with grades of B- or higher.

#### Christian Studies (9 units)

CST	Coursework in Christian Studies (6)
CST/ISP	Coursework in Christian Studies OR International Service Project (3)

#### Math/Science/Technology - 2 lab sciences required (21 units)

BIO 143	Principles of Biology
ETC 407	Technology and Learning
MAT 125	Math Concepts and Applications I
MAT 127	Math Concepts and Applications II
PSC 133	Survey of Physical Science
PSC 151	Introduction to the Geosciences
Two of the following three science labs: BIO 143L, PSC 133L, PSC 151L	

#### Social Science and History (24 units)

ANT 225	Cultural Anthropology
BUS 218	Macroeconomics OR POL 395 Political Economy
HIS 213	History of US to 1877
HIS 311	Minorities in America
HIS 393	History of California
POL 213	American Government
POL 415	World Geography
PSY 213	General Psychology

**Humanities (9 units)**

HUM 213	Integrated Humanities I
HUM 223	Integrated Humanities II
PHI 213	Introduction to Philosophy OR PHI 233 Basic Reasoning

**Visual and Performing Arts (8 units)**

ART	Applied Visual Art from the following: ART 201, 204, 232, 315, 353, 383, 401 or 415
COM/THE	Communication Arts from one of the following: THE 133, 142, 311, 312, 313, 411 or COM 333
MUS 205	Music Development for the Classroom Teacher

**Health and Physical Education (6 units)**

KIN 302	Contemporary Health Issues
KIN 363	Movement Experiences for Children

**Human Development/Professional Development (6 units)**

EDU 409	Educational Psychology
EDU 341	The Exceptional Child or Elective

**Liberal Studies (1 unit)**

LBS 499	ESM Capstone Portfolio
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**Concentration (12 units minimum)**

A minimum of twelve (12) units must be completed in one of the following areas: Anthropology, Astronomy, English, Environmental Science, European History, Global Studies, Graphic Design, Human Development and Diversity, Human Development/Early Childhood, Human Development: Life-Span, Kinesiology, Mathematics, Music, Political Science, Science in Society, Spanish, Speech, Theatre, United States History, Visual Arts, and others as approved. Three units from the major core courses may be applied to the concentration.

**Optional Professional Methods Courses for Multiple Subject Requirements\***

EDU 405	Teaching Math and Science
EDU 411	Theories and Methods of Teaching Diverse Students
EDU 412	Teaching Language Arts and Social Studies
EDU 416	Teaching Reading and Phonics
EDU 440	Classroom Management and Ethics

\*Students participating in the Optional Professional Methods Program may be eligible to apply for post-baccalaureate credit for the professional methods courses. See the post-baccalaureate policy in the academic information section of the catalog.

**Option 2: Liberal Studies Major, B.A. (Non Credential Program)**

Students with a GPA of 2.74 or lower or who elect not to complete requirements for the Elementary Subject Matter Program. Students are required to pass the California Subject Examination for Teachers (CSET) or an approved state test to establish Subject Matter Competence for the Preliminary Multiple Subject Credential.

The Elementary Subject Matter Program is specifically designed to prepare students for the CSET and to meet the demands for teaching in a multiple subject classroom.

**Language and Literature (27 units)**

CST 110	Old Testament Survey
CST 130	New Testament Survey
ENG 113	Composition
ENG 123	Intermediate Composition
ENG 2—	Literature (ENG 213, 223, 233, 243, 253, or 263)
ENG —	Upper Division English
ENG 463	Language Structure and Acquisition OR Upper Division Composition
	Language I*
	Language II* (must be same language)

\*Language requirement may be met by 2 years of high school language study with grades of B- or higher.

**Mathematics and Science (17 units)**

BIO 143	Principles of Biology
BIO 143L	Principles of Biology Lab
CIS 265	Information Systems Essentials
MAT 115	Intermediate Algebra or higher OR Math SATII IC score of 550 or higher OR IIC score of 450 or higher
MAT —	Math higher than MAT 115
	Lab Science other than BIO 143/143L

## Academic Programs

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### Social Science and History (27 units)

ANT	225	Cultural Anthropology
BUS	218	Macroeconomics OR POL 395 Political Economy
HIS	213	U.S. History I
HIS	223	U.S. History II
HIS	—	Upper Division History
POL	213	American Government
POL	415	World Geography
PSY	213	General Psychology
SOC	—	Sociology course (Upper Division recommended)

### Humanities (12 units)

HUM	213	Humanities I
HUM	223	Humanities II
PHI	213	Introduction to Philosophy OR 233 Basic Reasoning
PHI	—	Upper Division Philosophy

### Visual and Performing Arts (8 units)

ART	—	Applied Visual Arts (3.0 units)
COM/THE	—	Communication Arts from one of the following: COM 113, THE 142, 311, 312, 313, 411 or 333.
MUS	—	Applied Music (2.0 units)

### Health and Physical Education (6 units)

KIN	302	Contemporary Health Issues
KIN	363	Movement Experiences for Children

### Professional Development (3 units)

PSY	320	Life-span Development OR EDU 409 Educational Psychology
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### Liberal Studies (1 unit)

LBS	498	Capstone Portfolio
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### Concentration (12 units)

Twelve (12) upper division units must be completed in one of the following areas: Anthropology, Astronomy, English, Environmental Science, European History, Global Studies, Graphic Design, Human Development and Diversity, Human Development/Early Childhood, Human Development: Life-Span, Kinesiology, Mathematics, Music, Political Science, Science in Society, Spanish, Speech, Theatre, United States History, Visual Arts, and others as approved.

Three units from the major core courses may be applied to the concentration.

### General Education (3 units)

3.0 units ISP/Christian Studies

## Concentration Requirements for all Liberal Studies Majors

\*Three (3) units from the major core courses may be applied to the concentration.

### Anthropology

ANT	225	Cultural Anthropology*
ANT	340	Theory in Anthropology

Six (6) additional upper division units in Anthropology

### Astronomy

PHY	213	Astronomy
PHY	213L	Astronomy with Lab
PHY	301	Astronomy II
PHY	301L	Astronomy II with Lab
PSC	133	Survey of Physical Science*
PSC	133L	Survey of Physical Science Lab

All sciences in the core major courses must be taken with lab.

### English

ENG	201	Introduction to Literature for Majors and Minors
ENG	313	Multicultural Literature
ENG	413	Shakespeare Studies

Complete three (3) additional upper division units in English\*

**Environmental Science**

BIO	143	Principles of Biology*
BIO	302	Ecology with Lab
BIO	412	Topics in Biology (3 units)
SCI	412	Topics in Marine Science (3-4 units)

**European History**

Complete twelve (12) units from the following:

HIS	333	Nineteenth Century Europe
HIS	343	Twentieth Century Europe
HIS	353	Renaissance and Reformation Europe
HIS	360	Enlightenment Europe
HIS	415	The Ancient World
HIS	423	Medieval Civilization

**Global Studies**

Complete twelve (12) units from the following:

ICS	105	Introduction to Global Studies*
ICS	205	Models of Discipleship*
ICS	305	Global Perspectives
ICS	405	Marketplace Strategies for Global Advancement
ICS	430	Intercultural Communications
ICS	431	Cross-cultural Immersion
PHI	353	Comparative Religions

\*A maximum of three (3) units may be lower division.

**Graphic Design**

Complete twelve (12) units from the following:

GDM	110	Fundamental Design*
GDM	120	Fundamental Typography*
GDM	130	Fundamental Image*
GDM	310	Intermediate Design
GDM	320	Intermediate Typography
GDM	330	Intermediate Image
GDM	450	Internship in Graphic Design and Digital Media
GDM	499	Senior Project

\*A maximum of three (3) units may be lower division.

**Honors**

HON	100	Honors Seminar I OR HON 150 OR HON 200 OR HON 250
HON	300	Honors Seminar V
HON	350	Honors Seminar VI
HON	400	Honors Seminar VII

**Human Development and Diversity**

ANT	225	Cultural Anthropology *
ANT	430	Culture and Personality
SOC	345	Sociology of Diversity
SOC	355	Social Stratification

**Human Development/Early Childhood**

ECH	320	Cognitive Development in Infancy and Early Childhood
ECH	340	Perceptual-Motor Development in Infancy and Early Childhood
ECH	350	Social and Emotional Development in Infancy and Early Childhood
EDU	341	The Exceptional Child*

**Human Development: Life-Span**

PSY	213	General Psychology*
PSY	305	Developmental Psychology: Child
PSY	315	Developmental Psychology: Adolescence and Adult
PSY	453	Psychology of Learning

## Academic Programs

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### Kinesiology

KIN 332	Lifelong Motor Development
KIN 363	Movement Experiences for Children*
KIN 402	Diversity in Sport and Physical Activity
KIN 454	Behavioral Aspects of Sport

### Mathematics

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 313	Proofs and Structures

### Music

#### Prerequisites Courses\*\*

MUS 114	Music Theory I
MUS 115	Musicianship Lab I
MUS 124	Music Theory II
MUS 125	Musicianship Lab II

\*\*Competency in prerequisites may be demonstrated through transfer work, AP Exam or CBU placement exam.

#### Concentration Courses

MUS 080	Private Instruction (3 units)
MUS 080	Private Instruction: Guitar (1 unit)
MUS 205	Music Development for the Classroom Teacher
MUS 282	Music Technology
MUS 202	Music in Global Cultures*
MUS 312	Conducting I
MUS 405	Introduction to Music Education

### Political Science

POL 223	State and Local Government
POL 390	Congress and the Presidency
POL 427	American Political Thought
POL 465	Policy Process and Analysis

### Science in Society

PSC 133	Survey of Physical Science*
PSC 400	Science and Technology
PSC 413	Lab Techniques for Physical Science Teachers
SCI 303	Science and Faith

### Spanish

SPA 213	Intermediate Spanish I**
SPA 223	Intermediate Spanish II**
SPA 315	Oral Traditions

Complete three (3) additional units in upper division Spanish.

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

### Speech

COM 113	Oral Communications*
COM 308	Interpersonal Communications
COM 333	Oral Interpretation and Reader's Theatre
THE 363	Production Practicum: Performance

\*\*Completion of THE 133, 311, 312, 313, or 411 in the core major required

### Theatre

Complete three (3) units from the following:

THE 133	Acting for Non-Majors*
THE 312	Drama in the Classroom*

Complete nine (9) additional units from the following:

THE 332	Theatre History I
THE 342	Theatre History II
THE 463	Production Practicum: Performance
THE 464	Production Practicum: Technique



**United States History**

HIS	213	United States History I* OR HIS 223 United States History II
HIS	474	Early American Republic, 1787-1848
HIS	476	The Emergence of Modern America, 1865-1919
HIS	478	Modern America, 1920-1989

**Visual Arts**

ART	283	Painting I
ART	383	Painting II OR ART 300 Advanced Art
ART	385	Film as Visual Art OR ART 346 History of Modern Painting OR ART 430 Art and the Bible
ART	415	Aesthetics and the Classroom

\* Three (3) units from the major core courses may be applied to the concentration.

**Liberal Studies Course Descriptions**

- LBS 498**      **Capstone Portfolio (1)** **As offered**  
 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 development a personal development plan. Students will demonstrate critical self-reflection and ability to make judicious, relevant and insightful applicants and professional judgment from their cumulative undergraduate experience. Pass/Fail.
- LBS 499**      **ESM Capstone Portfolio (1)** **As offered**  
 This capstone course serves to assess the subject matter competence of students completing the Elementary Subject Matter Program. Students will enroll in this course with the recommendation of their ESM advisor and/or with the approval of the Director of Liberal Studies during the semester in which they plan to present their Portfolio for assessment, usually the semester in which they complete their course work for the program. Pass/Fail.

**LIFE SPAN DEVELOPMENT****Life Span Development Certificate**

The Life Span Development 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 life span development designed for students with a major outside the School of Behavioral Sciences who wish to supplement their academic interest or goals.

**Certificate Requirements (12 units)**

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

**MANAGEMENT (see Business Administration)**

## MARKETING

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 PROGRAM REQUIREMENTS

#### Marketing Major (60 units) BS

##### 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	358	Business Law
BUS	463	Business and Organizational Management
BUS	485	Business Policy and Strategy
BUS	498	Senior Exit Exam
MKT	333	Principles of Marketing

##### Upper Division Marketing Requirements

MKT	323	Marketing Research
MKT	353	Integrated Marketing Communications
MKT	458	Consumer Behavior
MKT	463	Marketing Management

##### Upper Division Marketing Elective Requirements

Complete six (6) additional units in marketing from the following:

BUS	444	International Marketing
MKT	313	Retailing and Merchandising
MKT	363	Social Media and Content Marketing
MKT	443	Personal Selling and Sales Management
MKT	491	Marketing Internship

#### Marketing Minor (21 units)

##### Lower Division Requirement

BUS	101	Introduction to Business
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##### Upper Division Requirements

MKT	333	Principles of Marketing
MKT	353	Integrated Marketing Communications
MKT	458	Consumer Behavior
MKT	463	Marketing Management

##### Upper Division Marketing Electives

Complete six (6) additional units from the following:

MKT	313	Retailing and Merchandising
MKT	323	Marketing Research
MKT	363	Social Media and Content Marketing
MKT	443	Personal Selling and Sales Management
MKT	491	Marketing Internship

## Marketing Course Descriptions

MKT 313	<b>Retailing and Merchandising (3)</b> 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. Prerequisite: MKT 333.	Fall
MKT 323	<b>Marketing Research (3)</b> 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. Prerequisite: BUS 315 and MKT 333.	Spring
MKT 333	<b>Principles of Marketing (3)</b> A study of the marketing functions, channels of distribution, selling, advertising, distribution, and marketing management for both retail and industrial businesses.	Fall, Spring
MKT 353	<b>Integrated Marketing Communications (3)</b> 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. Prerequisite: MKT 333.	Fall, Spring
MKT 363	<b>Social Media and Content Marketing (3)</b> 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. Prerequisite: MKT 333.	Spring
MKT 443	<b>Personal Selling and Sales Management (3)</b> 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. Prerequisite: MKT 333.	Spring
MKT 458	<b>Consumer Behavior (3)</b> 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. Prerequisite: MKT 333.	Fall, Spring
MKT 463	<b>Marketing Management (3)</b> The formulation and implementation of effective marketing management strategies to achieve the creation of a viable marketing plan. Group presentations, case studies and experiential learning assignments will be performed in and out of class. Prerequisite: MKT 333 and senior status.	Fall, Spring
MKT 491	<b>Marketing Internship (3)</b> Under faculty supervision, the student will work with an outside organization in the field of marketing. Prerequisite: MKT 333 and permission of the Dean of the School of Business.	Fall, Spring, Summer
MKT 492	<b>Marketing Internship (3)</b> Under faculty supervision, the student will develop and apply their practical marketing knowledge by participating in a field experience. Prerequisite: MKT 491 and permission of the Dean of the School of Business.	Fall, Spring, Summer

## **MATHEMATICS (also see Foundational Mathematics)**

The Mathematics major prepares students for careers in teaching at the secondary level, research, industry, business and graduate study. Students interested in teaching at the secondary level should see the Education section for the Professional Methods Program for Single Subject Credential Students.

### **TRADITIONAL PROGRAM REQUIREMENTS**

#### **Mathematics Major (52-57 units) BS**

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

CIS 268	Computer Programming Languages
MAT 245	Analytical Geometry and Calculus I
MAT 250	Modeling and Applications of Calculus
MAT 255	Analytical Geometry and Calculus II
PHY 214	Physics for Scientists I with Lab
PHY 224	Physics for Scientists II with Lab

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

MAT 313	Mathematical Proof and Structures
MAT 323	Abstract Algebra
MAT 343	Multivariable Calculus
MAT 403	Linear Algebra I
MAT 413	Differential Equations
MAT 443	Advanced Calculus

##### **Concentration Courses (12-17 units)**

Students must complete all requirements in one of the following concentrations:

Advanced Studies in Mathematics; Secondary Mathematics Education; General Studies in Mathematics

##### **Advanced Studies in Mathematics (12 units)**

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

##### **General Studies in Mathematics (12 units)**

Complete twelve (12) additional upper division units in Mathematics.

\*A maximum of six units may be completed through enrollment in MAT 400

##### **Secondary Mathematics Education\* (17 units)**

MAT 101	Orientation to the Discipline
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

#### **Mathematics Minor (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

Recommended electives and general education courses: PHY 214 and PHY 224

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

MAT 313	Mathematical Proofs and Structures
MAT 333	Complex Variable OR MAT 443 Advanced Calculus
MAT 343	Multivariable Calculus
MAT 403	Linear Algebra OR MAT 413 Differential Equations

Three (3) additional upper-division units in mathematics

Requirements for the Mathematics Subject Matter Competency

See the Mathematics Subject Matter Competence advisor, Ms. Elizabeth Morris, for course requirement details.

## Mathematics Course Descriptions

MAT 095	Elementary Algebra (3)	Fall, Spring
	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 and math placement test scores. Pass/Fail.	
MAT 101	Orientation to the Discipline (1)	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. Pass/Fail.	
MAT 115	Intermediate Algebra (3)	Fall, Spring
	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. Prerequisite: MAT 095 or sufficient SAT, ACT or math placement exam scores.	
MAT 123	Survey of Mathematics (3)	Fall, Spring
	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. Prerequisite: MAT 095 or sufficient SAT, ACT or math placement exam scores.	
MAT 125	Mathematical Concepts and Applications I (3)	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. Prerequisite: MAT 115 or sufficient SAT, ACT or math placement exam scores and appropriate high school mathematics background.	
MAT 127	Mathematical Concepts and Applications II (3)	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. Prerequisite: MAT 125.	
MAT 135	Pre-Calculus (3)	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. Prerequisite: 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 (4)	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. Prerequisite: 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 (3)	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. Prerequisite: MAT 115 or RN-level nursing license.	
MAT 200	Special Topics in Mathematics (1-3)	Offered upon sufficient demand
	Various appropriate topics of different concentrations are offered each time. May be repeated with different subject matter. Student involvement in selection of topics is strongly encouraged.	
MAT 245	Analytical Geometry and Calculus I (4)	Fall, Spring
	Basic concepts of analytical geometry, limits and derivatives, differentials and rates, integration, definite and indefinite integrals, differentiation of logarithmic and exponential functions. Prerequisite: MAT 135, 145, EGR 182, or sufficient SAT, ACT or math placement exam scores and appropriate high school mathematics background.	

## Academic Programs

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MAT 250	<b>Modeling and Applications of Calculus (2)</b> The study of symbolic languages, such as Mathematics, Maple, and MatLAB, for the use and application in Calculus and modeling courses. Prerequisite: MAT 245.	Spring
MAT 255	<b>Analytical Geometry and Calculus II (4)</b> Continued study and applications of integration: volumes, lengths, surface of revolution; derivatives and integrals involving trigonometric functions, indefinite series, expansion of functions, hyperbolic functions, law of the mean, indeterminate forms, partial fractions, polar coordinates, and conic sections. Prerequisite: MAT 245.	Fall, Spring
MAT 303	<b>Linear Algebra with Applications to Differential Equations (3)</b> 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. Prerequisite: MAT 245.	Fall
MAT 313	<b>Mathematical Proof and Structures (3) I</b> 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. Prerequisite: MAT 245.	Fall, Spring
MAT 323	<b>Abstract Algebra I (3)</b> An introduction to the structure of algebraic systems such as groups, subgroups, cosets, homomorphisms, factor groups, rings and fields. Prerequisite: MAT 313.	Spring
MAT 333	<b>Complex Variables (3)</b> Structure of complex numbers and their functions, analytic, harmonic, and elementary functions, residue theory, and conformal mapping. Prerequisite: MAT 313.	Spring
MAT 342	<b>Fundamentals of Multivariable Calculus and Differential Equations for Engineers (3)</b> Students will learn basic concepts of Linear Algebra and multivariable calculus in the context of differential equations. Analytic and numerical methods of solving ordinary differential equations will be discussed. Furthermore, students will be briefly introduced to the qualitative theory of ordinary differential equations. Separation of Variables will be discussed as a method for solving partial differential equations as well as some other methods. Problems discussed in class will have applications in engineering, physics, biology, and chemistry. Prerequisite: MAT 255 and Chemical Engineering major.	Spring
MAT 343	<b>Multivariable Calculus (4)</b> Study and applications of vector analysis, partial differentiation, multiple integration, Jacobians, theorems of Green and Stokes, and divergence theorem. Prerequisite: MAT 255.	Fall, Spring
MAT 353	<b>Probability and Statistics (3)</b> 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. Prerequisite: MAT 245.	Fall
MAT 363	<b>History of Mathematics and Theory of Numbers (3) I, M</b> 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. Pre- or Co- requisite: MAT 313.	Fall
MAT 399	<b>Independent Study (1–3)</b> This course of study is offered to afford the superior student an opportunity to explore independently subject matter not already offered in the catalog.	
MAT 400	<b>Special Topics in Mathematics (1–3)</b> Various appropriate topics of different concentrations are offered each time. May be repeated with different subject matter. Student involvement in selection of topics is strongly encouraged.	Offered upon sufficient demand
MAT 403	<b>Linear Algebra (3)</b> Vector spaces; matrices, rank and systems of linear equations; linear transformation; similarity and diagonalization theorems; eigenvectors and eigenvalues. Prerequisite: MAT 313.	Spring

<b>MAT 413</b>	<b>Differential Equations (3)</b> Methods of solution of ordinary differential equations with some applications to geometry and physics. Prerequisite: MAT 255.	<b>Fall, Spring</b>
<b>MAT 423</b>	<b>Introduction to Topology (3)</b> 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. Prerequisite: MAT 313.	<b>Fall (even years)</b>
<b>MAT 443</b>	<b>Advanced Calculus (3)</b> 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. Prerequisite: MAT 313.	<b>Spring</b>
<b>MAT 453</b>	<b>Numerical Analysis (3)</b> Solutions of Equations of One Variable, Interpolations and Polynomial Approximation, Numerical Integration and Differentiation, Direct Methods for Solving Linear Systems and Approximation Theory. Prerequisite: MAT 255.	<b>Fall (odd years)</b>
<b>MAT 463</b>	<b>Fundamental Concepts of Geometry (3)</b> An advanced study of concepts of Euclidean geometry and an introduction to non-Euclidean geometry. Theorems and proofs are emphasized. Prerequisite: MAT 313.	<b>Spring</b>
<b>MAT 483</b>	<b>Abstract Algebra II</b> This course is a continuation of Abstract Algebra 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. Prerequisite: MAT 323.	<b>Fall (odd years)</b>
<b>MAT 490</b>	<b>Senior Research in Mathematics</b> 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. Prerequisites: MAT 313 and Permission of the Department Chair. May be repeated for credit for a maximum of eight (8) units.	<b>As offered</b>
<b>MAT 499</b>	<b>Capstone (4)</b> 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. Prerequisite: Permission of the Department Chair.	<b>Fall, Spring</b>

## MECHANICAL ENGINEERING

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 the Accreditation Board for Engineering and Technology (ABET), <http://abet.org>.

### TRADITIONAL PROGRAM REQUIREMENTS

#### Mechanical Engineering Degree (124-127 units) BSME

##### 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.

##### Math and Science Unit Requirement

<sup>†</sup>A minimum of thirty two (32) units of Math or Science coursework is required for the degree. Courses in the degree designated with a '†' meet this requirement.

##### Lower Division Core Engineering Requirements (15 units)

EGR 101	Engineering from a Christian Worldview OR EGR 301*
EGR 102	Introduction to Engineering Design
EGR 103	Engineering Service I OR EGR 303*
EGR 121	Introduction to Computer Programming in C++
EGR 122	Visualization Languages I
EGR 192	Engineering Seminar I OR EGR 392*
EGR 202	Worldview Reflection I**

\*Junior/Senior transfer students will complete EGR 301, 303, and 392. All other students will complete EGR 102, 103, and 192.

\*\*Successful completion of EGR 202 is required for entrance into the Engineering degree program.

##### Upper Division Core Engineering Requirements (14 units)

EGR 302	Engineering Design and Documentation
EGR 304	Leadership Cohort
EGR 305	Engineering Statistics <sup>†</sup>
EGR 306	Internship Preparation
EGR 390	Internship
EGR 401	Capstone Design
EGR 402	Capstone Design Presentation
EGR 403	FE Exam
EGR 404	Worldview Reflection II
EGR 405	Internship Report and Presentation
EGR 406	Senior Portfolio

##### Math and Science Requirements (30-31 units)

CHE 130	Introduction to Chemistry for Engineers <sup>†</sup> or CHE 115 <sup>†</sup>
EGR 182	Introductory Mathematics for Engineering Applications <sup>†</sup>
MAT 245	Analytical Geometry and Calculus I <sup>†</sup>
MAT 255	Analytical Geometry and Calculus II <sup>†</sup>
MAT 343	Multivariable Calculus <sup>†</sup>
EGR 382	Applied Differential Equations and Linear Algebra <sup>†</sup> or MAT 303 <sup>†</sup> or MAT 413 <sup>†</sup>
PHY 201	Physics for Engineers I with Lab <sup>†</sup>
PHY 203	Physics for Engineers II with Lab <sup>†</sup>

##### 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 (36 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 are available in the College of Engineering.

## MILITARY SCIENCE AND LEADERSHIP

### 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 (6 units)**

MSL 101	Leadership and Personal Development
MSL 102	Introduction to Tactical Leadership
MSL 201	Innovative Team Leadership
MSL 202	Foundations of Tactical Leadership

**Advanced Course of Study (12 units)**

Complete twelve (12) units from the following:

MSL 301	Leadership in Changing Environments I
MSL 302	Leadership in Changing Environments II
MSL 399	Independent Study*
MSL 401	Developing Adaptive Leaders
MSL 402	Developing Adaptive Leaders

A maximum of six (6) units may be applied from MSL 399.

**Leadership Laboratory (8 units)**

Students must be enrolled in the following course each semester they are enrolled in the ROTC Program for a total of eight (8) units:

MSL 100	Leadership Laboratory
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Note: A twenty nine-days advanced camp is required between the final two years of study.

**Additional Requirements (3 units)**

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**

MSL 451	Seminar in Modern Military History
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Other classes may be substituted for that listed above upon approval of the military science staff.

## Academic Programs

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### Option II: Two Year Program (21 units)

#### Basic Course Equivalent (2 units)

MSL 260 ROTC Basic Camp (2)

#### Advanced Course of Study (12 units)

Complete twelve (12) units from the following:

MSL 301 Leadership in Changing Environments I  
MSL 301 Leadership in Changing Environments II  
MSL 401 Developing Adaptive Leaders  
MSL 402 Developing Adaptive Leaders

#### Leadership Laboratory (4 units)

Students must be enrolled in the following course each semester they are enrolled in the ROTC program for a total of four (4) units.

MSL 100 Leadership Laboratory

Note: A twenty nine-days advanced camp is required between the final two years of study.

#### Additional Requirements (3 units)

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

MSL 451 Seminar in Modern Military History

Other classes may be substituted for that listed above upon approval of the military science staff.

### Military Science and Leadership Course Descriptions

MSL 100	<b>Leadership Laboratory (1)</b> 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.	Fall, Spring
MSL 101	<b>Leadership and Personal Development (1)</b> The course introduces cadets to the personal challenges and competencies that are critical for effective leadership. Cadets learn how the personal development of life skills such as time management, physical fitness, and stress management relate to leadership, officership, and Army operations. Focus is placed on developing basic knowledge and comprehension of Army Leadership Dimensions while gaining a big picture understanding of the ROTC program, its purpose in the Army, and its advantages for the student.	Fall
MSL 102	<b>Introduction to Tactical Leadership (1)</b> The course is an overview of leadership fundamentals such as setting direction, problem-solving, listening, presenting briefs, providing feedback and using effective writing skills. Cadets explore dimensions of leadership values, attributes, skills, and actions in the context of practical, hands-on, and interactive exercises.	Spring
MSL 201	<b>Innovative Team Leadership (2)</b> Students will explore the dimensions of creative and innovative tactical leadership strategies and styles by studying historical case studies and engaging in interactive student exercises. Cadets practice aspects of personal motivation and team building in the context of planning, executing, and assessing team exercises. Focus is on continued development of the knowledge of leadership values and attributes through an understanding of rank, uniform, customs, and courtesies. Leadership case studies provide tangible context for learning the Soldier's Creed and Warrior Ethos as they apply in the contemporary operating environment (COE).	Fall
MSL 202	<b>Foundations of Tactical Leadership (2)</b> The course examines the challenges of leading teams in the complex contemporary operating environment (COE). The course highlights dimensions of the cross-cultural challenges of leadership in a constantly changing world and applies these to practical Army leadership tasks and situations. The course also provides a smooth transition into MSL 301. Cadets develop greater self awareness as they practice communication and team building skills. COE case studies give insight into the importance and practice of teamwork and tactics in real-world scenarios.	Spring

MSL 301	<b>Leadership in Changing Environments I (3)</b> The course uses intense situational leadership challenges to build cadet awareness and skills in leading tactical operations at the platoon level. Cadets review aspects of combat, stability, and support operations. They also conduct tactical military briefings and develop proficiency in garrison operation orders. The focus is on exploring, evaluating, and developing skills in decision-making, influencing, and motivating team members in the contemporary operating environment (COE). MSL 301 cadets are evaluated on what they know and do as leaders as they prepare to attend the ROTC Cadet Summer Training (CST).	Fall
MSL 302	<b>Leadership in Changing Environments II (3)</b> The course uses increasingly intense situational leadership challenges to build cadet awareness and skills in leading tactical operations at the platoon level. Cadets review aspects of combat, stability, and support operations. They also conduct tactical military briefings and develop proficiency in garrison operation orders. The focus is on exploring, evaluating, and developing skills in decision-making, influencing, and motivating team members in the contemporary operating environment (COE). MSL 302 cadets are evaluated on what they know and do as leaders as they prepare to attend the ROTC Cadet Summer Training (CST).	Spring
MSL 401	<b>Developing Adaptive Leaders I (3)</b> The course develops cadet proficiency in planning, executing, and assessing complex operations, functioning as a member of a staff, and providing performance feedback to subordinates. Cadets assess risk management, make ethical decisions, and lead fellow ROTC cadets. Lessons on military justice and personnel processes prepare cadets to make the transition to Army officers. MSL IV cadets mentor, coach, teach, analyze, evaluate, and instruct cadets at lower levels. Both their classroom and battalion leadership experiences are designed to prepare MSL 402 cadets for their first unit of assignment. They identify responsibilities of key staff, coordinate staff roles, and use situational opportunities to teach, train, and develop subordinates.	Fall
MSL 402	<b>Developing Adaptive Leaders II (3)</b> The course develops cadet proficiency in planning, executing, and assessing complex operations, functioning as a member of a staff, and providing performance feedback to subordinates. Cadets assess risk management, make ethical decisions, and lead fellow ROTC cadets. Lessons on military justice and personnel processes prepare cadets to make the transition to Army officers. MSL IV cadets mentor, coach, teach, analyze, evaluate, and instruct cadets at lower levels. Both their classroom and battalion leadership experiences are designed to prepare MSL 401 cadets for their first unit of assignment. They identify responsibilities of key staff, coordinate staff roles, and use situational opportunities to teach, train, and develop subordinates.	Spring
MSL 451	<b>Seminar in Military History (3)</b> 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.	Spring

## MISSIONARY AVIATION

### Missionary Aviation Minor (21 Units)

#### Lower Division Requirements

CST 110	Old Testament Survey
CST 130	New Testament Survey

#### Upper Division Requirements

ICS 305	Global Perspectives
ICS 375	Current Events and Movements
FLT 421	Mission Aviation

Complete six (6) units from the following: CST 310, 311, 315, 330, 331, 350, 370, 410, 411, 421, 440, 441, 442, 450

## MUSIC

The Bachelor of Music program is a professional degree which will train musicians for work in various aspects of the field and graduate work in music. Coursework and performance requirements enable students to know, perform and teach diverse musical styles.

### TRADITIONAL PROGRAM REQUIREMENTS

#### Music Degree (124 units) BM

##### General Education Requirements

The general education requirements will follow the curriculum set forth for other university degree programs. Some general education requirements will be met through specific core music requirements.

##### Core Applied Music Requirements

MUS 012	Class Piano I*
MUS 022	Class Piano II*
MUS —	Private Instruction (8 units minimum**) <sup>1</sup>
MUS —	Major Ensemble (8 units minimum) <sup>2</sup>
MUS 098	Choral Union (4 units minimum) <sup>3</sup>

\*Enrollment in Functional Piano (MUS 032) or Private Instruction: Piano (MUS 082, MUS 462) or Class Piano (MUS 012, MUS 022) is required each semester until the piano proficiency requirements are met. An opportunity to attempt to pass the exam for first semester students will be offered during rehearsal camps. For returning students, an attempt to pass the exam or portions of the exam will be offered during finals week each semester.

\*\* Students must complete eight (8) units of private instruction in the same area. For Keyboard Accompanying Majors MUS 089 and MUS 469 will meet the MUS 082 and MUS 462 requirement.

<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 and Minors. A minimum of eight (8) units are required. Private Instruction for majors and minors includes 75% recital attendance of all School of Music-sponsored faculty and student recitals. Failure to meet this requirement will result in the requirement to complete an additional Concert Music requirement (See School of Music). Students may enroll in one semester of MUS 013 Class Voice in place of one (1) unit of MUS 081 Private Instruction: Voice with permission from the School of Music.

<sup>2</sup>Enrollment is required in at least one Major Ensemble (MUS 090, 091, 092, 094, 097) for full credit during each semester of enrollment at CBU. A minimum of eight (8) units are required. Additional ensembles may be taken for 0-1 units with permission from the School of Music.

<sup>3</sup>Enrollment in MUS 098 Choral Union is required for each semester of residence for all Music Majors and Minors. A minimum of four (4) units are required. Offered for 0 units in the Fall and 1 unit in the Spring.

##### 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 221	Music in Worship
MUS 224	Music Theory IV
MUS 225	Musicianship Lab IV
MUS 282	Music Technology

\*Meets general education requirement.

##### Core Upper Division Requirements

MUS 312	Conducting I
MUS 313	Music History I
MUS 323	Music History II
MUS 324	Music History III
MUS 325	Music History IV
MUS 431	Recital/Senior Project

\*Meets general education requirement.

## Major Requirements

In addition to the general education and core Bachelor of Music degree requirements, students must complete all of the prescribed courses listed in one of the following majors: Composition, Instrumental Performance, Keyboard Accompanying, Music Education, Piano Performance, or Vocal Performance.

### Composition Major (33 units) BM

#### Lower Division Requirements

- MUS 253 Introduction to Music Composition  
MUS 283 Electronic Music

#### Upper Division Requirements

- MUS 311 Form and Analysis  
MUS 354 Private Lessons in Composition (4 units)  
MUS 372 Counterpoint  
MUS 390 Projects in Musical Analysis  
MUS 412 Conducting II  
MUS 414 Interpretive Arranging  
MUS 472 Orchestration

Twelve (12) additional upper division electives.

### Instrumental Performance Major (31 units) BM

#### Private Instruction Requirements

- MUS 080-088 Private Instruction and MUS 460-468 Private Instruction (8 units\*)

\* Students must complete eight (8) units of private instruction in the same instrumental area.

#### Lower Division Performance Requirement

Complete six (6) units from the following:

- MUS 095 Chamber Ensemble  
MUS 096 Jazz Band  
MUS 097 Concert Band  
MUS 099 University Symphony Orchestra

#### Upper Division Requirements

- MUS 345 Choral, Orchestral, and Band Literature  
MUS 419 Instrumental Pedagogy

Twelve (12) additional upper division electives.

### Keyboard Accompanying Major (32 units) BM

#### Private Instruction Requirements

Complete eight (8) units from the following:

- MUS 089 Private Instruction: Accompanying  
MUS 469 Private Instruction: Accompanying

#### Lower Division Requirements

- MUS 083 Private Instruction: Organ  
MUS 095 Chamber Ensemble (2 units)  
MUS 256 Basics of Accompanying

#### Upper Division Requirements

- MUS 346 Repertoire for Accompanists  
MUS 376 Performance Styles for Accompanists  
MUS 420 Diction for Singers

Twelve (12) additional upper division electives.

## Academic Programs

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### Music Education Major\* (30-31 units) BM

#### Lower Division Requirements

- MUS 013 Class Voice
- MUS 014 Class Guitar

#### Lower Division Performance Requirements

Complete two (2) units from the following:

- MUS 093 Chamber Singers
- MUS 095 Chamber Ensemble
- MUS 096 Jazz Band
- MUS 099 University Symphony Orchestra

#### Upper Division Requirements

- MUS 311 Form and Analysis
- MUS 372 Counterpoint OR MUS 253 Introduction to Music Composition
- MUS 405 Introduction to Music Education
- MUS 412 Conducting II
- MUS 425 Survey of Music in Other Disciplines
- MUS 440-443 Instrumental Techniques (4 units)
- MUS 450 Observations in Teaching Methods
- MUS 472 Orchestration
- MUS 475 Introduction to Music in the Schools
- Six (6) additional upper division electives

### Piano Performance Major (31 units) BM

#### Private Instruction Requirements

Complete eight (8) units from the following:

- MUS 082 Private Instruction: Piano
- MUS 462 Private Instruction: Piano

#### Lower Division Requirements

- MUS 095 Chamber Ensemble (3 units)
- MUS 256 Basics of Accompanying

#### Upper Division Requirements

- MUS 334 Piano Literature I
- MUS 335 Piano Literature II
- MUS 418 Piano Pedagogy
- Twelve (12) additional upper division electives.

### Vocal Performance Major (31 units) BM

#### Private Instruction Requirements

Complete eight (8) units from the following:

- MUS 081 Private Instruction: Voice
- MUS 461 Private Instruction: Voice

#### Lower Division Requirements

- MUS 093 Chamber Singers (2 units)

#### Upper Division Requirements

- MUS 333 Song Literature
- MUS 417 Vocal Pedagogy
- MUS 420 Diction for Singers
- MUS 423 Vocal Repertory Lab
- Twelve (12) additional upper division electives.

### Concentration Courses

Optional Concentrations for all Bachelor of Music students include Digital Arts and Worship Leadership.

#### Digital Arts Concentration

- MUS 384 Survey of Recording Technology
- MUS 385 Digital Media Ethics
- MUS 386 Audio Engineering I
- MUS 387 Audio engineering II

**Worship Leadership Concentration**

MUS 386	Audio Engineering I
MUS 370	Worship Technology
MUS 374	The Programming and Practice of Worship
MUS 471	Worship Leadership and Performance Seminar

**Subject Matter Preparation Program in Music (16-17 units)**

For Single Subject Credential Teachers. Approved curriculum is designed for those students preparing to teach music within primary and secondary education. Students interested in teaching should contact their Faculty Advisor in the School of Music for advising. In addition to meeting the requirements for the Subject Matter Preparation Program in Music, 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 Single Subject Credential Students.

MUS 311	Form and Analysis
MUS 372	Counterpoint
MUS 405	Introduction to Music Education
MUS 440	Instrumental Techniques for Woodwind
MUS 441	Instrumental Techniques for Brass
MUS 442	Instrumental Techniques for Percussion
MUS 443	Instrumental Techniques for Strings
MUS 472	Orchestration
MUS 475	Music in the Schools
MUS 013	Class Voice*

\*Required for instrumentalists in the Subject Matter Preparation Program in Music.

**Music Minor (45-47 units)****Lower Division Requirements\***

MUS —	Private Instruction (8 units minimum) <sup>1</sup>
MUS —	Major Ensemble (8 units minimum) <sup>2</sup>
MUS 098	Choral Union (4 units minimum) <sup>3</sup>
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 221	Music in Worship
MUS 224	Music Theory IV
MUS 225	Musicianship Lab IV

**Upper Division Requirements**

MUS 312	Conducting I
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**Upper Division Electives**

Two of the following are required:

MUS 313	Music History I
MUS 323	Music History II
MUS 324	Music History III
MUS 325	Music History IV

\*Piano study is required until the piano proficiency exam has been passed. An opportunity to attempt to pass the exam for first semester students will be offered during rehearsal camps. For returning students, an attempt to pass the exam or portions of the exam will be offered during finals week each semester.

<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 and Minors. A minimum of eight (8) units are required. Private Instruction for majors and minors includes 75% recital attendance of all School of Music-sponsored faculty and student recitals. Failure to meet this requirement will result in the requirement to complete an additional Concert Music requirement (See School of Music). Students may enroll in one semester of MUS 013 Class Voice in place of one (1) unit of MUS 081 Private Instruction: Voice with permission from the School of Music.

<sup>2</sup>Enrollment is required in at least one Major Ensemble (MUS 090, 091, 092, 094, 097) for full credit during each semester of enrollment at CBU. A minimum of eight (8) units are required. Additional ensembles may be taken for 0-1 units with permission from the School of Music.

<sup>3</sup>Enrollment in MUS 098 Choral Union is required for each semester of residence for all Music Majors and Minors. A minimum of four (4) units are required. Offered for 0 units in the Fall and 1 unit in the Spring.

## Academic Programs

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### Music Course Descriptions

Recommended courses to fulfill general education music requirement: MUS 010, 013, 014, 020, 032, 071-079, 080-088, 090-097, 098, 108, 202, 221

- MUS 010**    **Beginning Piano for Non-Music Majors (1)**    **Fall, Spring**  
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. May be repeated one time for credit.
- MUS 012**    **Class Piano I (1)**    **Fall**  
A study of various piano skills and early-intermediate level piano literature. This class is geared towards the student with little or no keyboard experience, emphasizing note-reading, counting, keyboard orientation, scales, arpeggios, chord progressions, harmonization, and performance of easy pieces. May be repeated one time for credit. Prerequisite: Declared music degree.
- MUS 013**    **Class Voice (1)**    **Fall, Spring**  
Group instruction in the fundamentals of tone production, breathing, breath control, and posture. Opportunity for individual performance. Attention to individual problems. Students seeking a credential with an instrumental emphasis are required to take this course. May be repeated for credit.
- MUS 014**    **Class Guitar (1)**    **Fall, Spring**  
Group instruction in the fundamentals of guitar. May be repeated for credit.
- MUS 020**    **Intermediate Piano for Non-Music Majors (1)**    **Fall, Spring**  
A continuation of Beginning Piano for Non-Music Majors that develops skills gained the previous semester. Work with additional keys, harmonization, and performance of late elementary keyboard literature. May be repeated one time for credit. Prerequisite: MUS 010 or permission of the Dean of the School of Music.
- MUS 022**    **Class Piano II (1)**    **Fall, Spring**  
A continuation of Class Piano I that develops skills gained the previous semester while addressing the requirements of the Piano Proficiency Exam. May be repeated for credit. Prerequisites: MUS 012.
- MUS 032**    **Functional Piano (1)**    **Fall, Spring**  
Private piano instruction geared toward the Music Major or Minor who must enroll in piano lessons until passing the Piano Proficiency Exam. The course may be repeated until the requirement is fulfilled. No faculty jury is required.
- MUS 071**    **Voice Practicum (1-2)**    **Fall, Spring**  
Develop the ability to sing, especially in a vocal ensemble, by improving technique, musicianship, and expression. Repertoire will be selected from student's large ensemble music, including University Choir and Orchestra, Women's Choir, New Song, Male Chorale, and Choral Union. May be repeated for credit.
- MUS 079**    **Instrumental Practicum (1-2)**    **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. A minimum of 12 lessons are required. Enrollment not open to students seeking a Music degree, major, or minor. May be repeated for credit.
- MUS 080**    **Private Instruction (1-2)**    **As Offered**  
Private instruction 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. A minimum of 12 lessons and performance at a faculty jury exam are required. Students are expected to perform in a student recital once per semester. Music Majors and Minors must attend 75% of all faculty and student recitals sponsored by the School of Music. Students who fail to meet this requirement must complete an additional Concert Music requirement (see the School of Music). Service Playing does NOT fulfill the MUS 081-089, 461-469 requirement for the major or minor. May be repeated for credit.
- MUS 081**    **Private Instruction: Voice (1-2)**    **Fall, Spring**  
Private instruction in voice 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. A minimum of 12 lessons and performance at a faculty jury exam are required. Students are expected to perform in a student recital once per semester. Music Majors and Minors must attend 75% of all faculty and student recitals sponsored by the School of Music. Students who fail to meet this requirement must complete an additional Concert Music requirement (see the School of Music). May be repeated for credit.



MUS 082	<b>Private Instruction: Piano (1-2)</b> Private instruction in Piano 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. A minimum of 12 lessons and performance at a faculty jury exam are required. Students are expected to perform in a student recital once per semester. Music Majors and Minors must attend 75% of all faculty and student recitals sponsored by the School of Music. Students who fail to meet this requirement must complete an additional Concert Music requirement (see the School of Music). May be repeated for credit.	Fall, Spring
MUS 083	<b>Private Instruction: Organ (1-2)</b> Private instruction in organ 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. A minimum of 12 lessons and performance at a faculty jury exam are required. Students are expected to perform in a student recital once per semester. Music Majors and Minors must attend 75% of all faculty and student recitals sponsored by the School of Music. Students who fail to meet this requirement must complete an additional Concert Music requirement (see the School of Music). Prerequisite for organ: formal piano training and music reading ability. May be repeated for credit.	Fall, Spring
MUS 084	<b>Private Instruction: Woodwinds (1-2)</b> Private instruction in woodwinds 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. A minimum of 12 lessons and performance at a faculty jury exam are required. Students are expected to perform in a student recital once per semester. Music Majors and Minors must attend 75% of all faculty and student recitals sponsored by the School of Music. Students who fail to meet this requirement must complete an additional Concert Music requirement (see the School of Music). May be repeated for credit.	Fall, Spring
MUS 085	<b>Private Instruction: Brass (1-2)</b> Private instruction in brass 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. A minimum of 12 lessons and performance at a faculty jury exam are required. Students are expected to perform in a student recital once per semester. Music Majors and Minors must attend 75% of all faculty and student recitals sponsored by the School of Music. Students who fail to meet this requirement must complete an additional Concert Music requirement (see the School of Music). May be repeated for credit.	Fall, Spring
MUS 086	<b>Private Instruction: Strings (1-2)</b> Private instruction in strings 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. A minimum of 12 lessons and performance at a faculty jury exam are required. Students are expected to perform in a student recital once per semester. Music Majors and Minors must attend 75% of all faculty and student recitals sponsored by the School of Music. Students who fail to meet this requirement must complete an additional Concert Music requirement (see the School of Music). May be repeated for credit.	Fall, Spring
MUS 087	<b>Private Instruction: Percussion (1-2)</b> Private instruction in percussion 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. A minimum of 12 lessons and performance at a faculty jury exam are required. Students are expected to perform in a student recital once per semester. Music Majors and Minors must attend 75% of all faculty and student recitals sponsored by the School of Music. Students who fail to meet this requirement must complete an additional Concert Music requirement (see the School of Music). May be repeated for credit.	Fall, Spring
MUS 088	<b>Private Instruction: Guitar (1-2)</b> Private instruction in guitar 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. A minimum of 12 lessons and performance at a faculty jury exam are required. Students are expected to perform in a student recital once per semester. Music Majors and Minors must attend 75% of all faculty and student recitals sponsored by the School of Music. Students who fail to meet this requirement must complete an additional Concert Music requirement (see the School of Music). May be repeated for credit.	Fall, Spring
MUS 089	<b>Private Instruction: Accompanying (1)</b> Private instruction in accompanying 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. May be repeated for credit.	Fall, Spring

## Academic Programs

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MUS 090	<b>University Choir and Orchestra (1) M</b> University Choir and Orchestra is open by audition to all interested students. The group will rehearse and perform a variety of music. A choral uniform purchase is required. A major tour of two weeks at the end of the school year is required. May be repeated for credit. Concurrent Requisite: MUS 032, 071, 079, 080-089, or 460-469.	Fall, Spring
MUS 091	<b>Women's Choir (1) M</b> Women's Choir is open by audition to all interested students. The group will rehearse and perform a variety of music. A choral uniform purchase is required. A major tour of two weeks at the end of the school year is required. May be repeated for credit. Concurrent Requisite: MUS 032, 071, 079, 080-089, or 460-469.	Fall, Spring
MUS 092	<b>Male Chorale (1) M</b> Male Chorale is open by audition to all interested students. The group will rehearse and perform a variety of music. A choral uniform purchase is required. A major tour of two weeks at the end of the school year is required. May be repeated for credit. Concurrent Requisite: MUS 032, 071, 079, 080-089, or 460-469.	Fall, Spring
MUS 093	<b>Experiences in Chamber Singing (1)</b> 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. May be repeated three times for credit.	Fall, Spring
MUS 094	<b>New Song (1)</b> This women's ensemble is open by audition to all interested students. The group will rehearse and perform a variety of music. A choral uniform purchase is required. A major tour of two weeks at the end of the school year is required. May be repeated for credit. Concurrent Requisite: MUS 032, 071, 079, 080-089, or 460-469.	Fall, Spring
MUS 095	<b>Chamber Ensemble (1)</b> 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. May be repeated eight times for credit.	Fall, Spring
MUS 096	<b>Jazz Band (1)</b> Jazz Band 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. May be repeated for credit. Concurrent Requisite: MUS 032, 071, 079, 080-089, or 460-469.	Fall, Spring
MUS 097	<b>Concert Band (1)</b> This ensemble is designed to give instrumental experience through rehearsal and public performance, including a yearly tour. The ensemble is open to qualified students by audition or instructor's consent. A uniform fee is required. May be repeated for credit. Concurrent Requisite: MUS 032, 071, 079, 080-089, or 460-469.	Fall, Spring
MUS 098	<b>Choral Union (0-1)</b> This musical group is comprised of Music Majors, Minors, and scholarship recipients. A public performance of major choral works is given each semester. This course is offered for 0 units in the Fall and 1 unit in the Spring. May be repeated for credit. Enrollment is required for all music majors, minors, and scholarship recipients of greater than \$3,000.	Fall, Spring
MUS 099	<b>University Symphony Orchestra (1)</b> The University Symphony Orchestra is open by audition to all qualified students. The group will rehearse and perform the finest examples of symphonic orchestra literature, ranging from the 18th century to the present. A uniform fee is required. May be repeated for credit. Concurrent Requisite: MUS 032, 071, 080-089, or 460-469.	Fall, Spring
MUS 108	<b>Jazz History (3) M</b> 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.	Fall, Spring
MUS 114	<b>Music Theory I (3)</b> 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. Concurrent requisite: MUS 115.	Fall
MUS 115	<b>Musicianship Lab I (1)</b> Introductory experiences in sight-singing and ear-training. Concurrent requisite: MUS 114.	Fall
MUS 116	<b>Musical Theatre Production (1-3) I</b> Practical training in the presentation of musical dramas. Consists of regular rehearsals and final performance of musicals, music dramas, and operas. Course may be repeated for a total of twelve (12) units.	As offered

MUS 124	<b>MusicTheory II (3)</b> 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. Concurrent requisite: MUS 125. Prerequisite: MUS 114. Concert attendance requirement.	Spring
MUS 125	<b>Musicianship Lab II (1)</b> Continued development of aural skills and introduction to keyboard harmony and improvisation. Prerequisite: MUS 115; Concurrent requisite: MUS 124.	Spring
MUS 200	<b>SpecialTopics in Music (1-3)</b> An examination of specific areas of Music. Course is repeatable for credit with a change in topic.	As offered
MUS 202	<b>Music in Global Cultures (2) M</b> 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 ethnicity on the perception, interpretations and performance of music; forces of nationalism, acculturation, and westernization and their effect on musical traditions.	Fall, Spring
MUS 205	<b>Music Development for the Classroom Teacher (2) I</b> 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.	Fall, Spring
MUS 214	<b>MusicTheory III (3)</b> Advanced writing and analysis of music involving chromatic and extended harmonies. Examples are drawn from art, sacred and popular music. Prerequisite: MUS 124; Concurrent requisite: MUS 215. Concert attendance requirement.	Fall
MUS 215	<b>Musicianship Lab III (1)</b> Advanced training in ear-training, sight-singing and keyboard harmony involving chromatic exercises. Prerequisite: MUS 125; Concurrent requisite: MUS 214.	Fall
MUS 216	<b>MusicalTheatre Production (1-3) I</b> Practical training in the presentation of musical dramas. Consists of regular rehearsals and final performance of musicals, music dramas, and operas. Course may be repeated for a total of twelve (12) units.	As offered
MUS 221	<b>Music in Worship (3) I</b> 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.	Fall, Spring
MUS 224	<b>MusicTheory IV (3)</b> Writing and analysis of music since 1900. Focus on contemporary harmonic practice, influence of art and popular music. Prerequisite: MUS 214; Concurrent requisite: MUS 225. Concert attendance requirement.	Spring
MUS 225	<b>Musicianship Lab IV (1)</b> Advanced work in ear-training and sight-singing. Prerequisite: MUS 215; Concurrent requisite: MUS 224.	Spring
MUS 226	<b>Opera Workshop (1)</b> 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.	As Offered
MUS 230	<b>Service Playing (1)</b> Focus on keyboard skills which are essential for the church service. Techniques of hymn-playing, transposition, modulation, improvisation, sight-reading, and solo/anthem accompaniment will be addressed. Course offered as an Independent Study. Service Playing does NOT fulfill the MUS 080 requirement for the major or minor. Prerequisite: MUS 124 and 125. Students may repeat the course for credit.	Independent Study
MUS 253	<b>Introduction to Music Composition (3)</b> 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. Prerequisite: MUS 214 and 215.	Spring
MUS 256	<b>Basics of Accompanying (2)</b> Introduction to piano accompanying with emphasis on basic skills needed to accompany solo voice, choral singing, congregational singing, solo instruments, chamber music, and musicals. Prerequisites: MUS 022 and either MUS 082 or 462.	Spring (odd years)

## Academic Programs

MUS 282	<b>Music Technology (2) I</b> 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.	Fall, Spring
MUS 283	<b>Electronic Music (2)</b> 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. Prerequisite: MUS 282.	Spring (even years)
MUS 311	<b>Form and Analysis (2)</b> An exploration of the methods of organizing music. Study focuses on traditional homophonic forms such as variation, rondo, sonata, symphony, and popular song. Prerequisite: MUS 224 and 225.	Fall
MUS 312	<b>Conducting I (2)</b> Basic conducting patterns, practice in directing group singing, preparation and presentation of simple choral music. Prerequisite: MUS 224.	Fall
MUS 313	<b>Music History I (2) I, M</b> 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. Recommended for music/applied arts majors and minors only. Prerequisite: MUS 214 and 224.	Fall
MUS 316	<b>Musical Theatre Production (1-3) I</b> Practical training in the presentation of musical dramas. Consists of regular rehearsals and final performance of musicals, music dramas, and operas. Course may be repeated for a total of twelve (12) units.	As offered
MUS 323	<b>Music History II (3) I</b> Continuation of Music History I from Baroque through Classical. Prerequisite: MUS 214 and MUS 224.	Spring
MUS 324	<b>Music History III (3) I</b> Continuation of Music History II with emphasis on the Romantic period. Prerequisite: MUS 214 and MUS 224.	Fall
MUS 325	<b>Music History IV (2) I</b> 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. Prerequisite: MUS 114 and MUS 124.	Spring
MUS 332	<b>Psalms, Hymns, and Spiritual Songs (2)</b> A survey of music used for congregational singing studied from perspectives of text and music, history, culture, and practice.	As offered
MUS 333	<b>Song Literature (3)</b> A survey of literature for solo voice from the Baroque to the Twentieth Century. Analysis of scores through recordings and live performances. Prerequisite: MUS 323.	Spring (odd years)
MUS 334	<b>Piano Literature I (2)</b> 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. Prerequisite: MUS 323.	Fall (odd years)
MUS 335	<b>Piano Literature II (2)</b> A survey of the piano literature of the Romantic, Impressionistic, and Contemporary periods. Stylistic analysis of individual works through recordings and live performances. Prerequisite: MUS 334.	Spring (even years)
MUS 345	<b>Choral, Orchestral, and Band Literature (3)</b> A survey of choral, orchestral, and band literature from the Baroque period through the Twentieth Century.	Spring (even years)
MUS 346	<b>Repertoire for Accompanists (3)</b> 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.	Fall (odd years)

MUS 354	<b>Private Lessons in Composition (1-2)</b> 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. Private Instruction fee. Prerequisite: MUS 253. May be repeated for a maximum of eight (8) units.	Fall, Spring
MUS 370	<b>Worship Technology (3) I</b> 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.	As offered
MUS 372	<b>Counterpoint (2)</b> 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. Prerequisite: MUS 224 and 225.	Spring
MUS 374	<b>The Programming and Practice of Worship (3)</b> The Programming and Practice of Worship and practice is a comprehensive study of issues in the design and programming of worship services in Western Christian churches. The purpose of worship, its recent history in the west, its role in the Christian church, and the increasing emphasis of marketing worship as an evangelism tool to target groups are all issues that will be considered. Practical matters such as the primacy of congregational singing, musical styles, emotional flow, and seasonal services will also be presented.	As offered
MUS 376	<b>Performance Styles for Accompanists (2)</b> 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. Prerequisites: MUS 256.	Spring (even years)
MUS 384	<b>Survey of Recording Technology (3)</b> This course will introduce you to the technology of recording, including analog and digital recording, recording history, technical discoveries and the effect of recording on music at large. Prerequisite: MUS 224.	As Offered
MUS 385	<b>Digital Media Ethics (3)</b> This course provides a comprehensive study of intellectual property, including copyrights, trademarks, trade secrets, patents, and rights of privacy and publicity. Specific topics include exclusive rights, infringement claims and defenses, ownership, duration, and registration.	As Offered
MUS 386	<b>Audio Engineering I (3)</b> The course will begin instruction in Audio Engineering, focusing on the methods, technology and terminology used to engineer aspects of live audio production. The class will include both live venue audio and live recording. Students will spend time outside the classroom and likely off-campus. Prerequisite: MUS 384.	As Offered
MUS 387	<b>Audio Engineering II (3)</b> The course will continue instruction in Audio Engineering, focusing on the methods, technology, and terminology used to engineer studio recordings. The class will include time in the main campus studio, as well as other venues. Prerequisite: MUS 386.	As Offered
MUS 390	<b>Projects in Musical Analysis (1)</b> 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. Prerequisite: MUS 311.	As offered
MUS 399	<b>Independent Study (3)</b> An opportunity for students who have demonstrated the ability to do independent work to pursue in depth a topic of particular interest.	
MUS 400	<b>Special Topics in Music (1-3)</b> An examination of specific areas of Music. Course is repeatable for credit with a change in topic.	As offered
MUS 405	<b>Introduction to Music Education (2) I</b> An overview of music education in the public and private schools (K-12) including the philosophy, objective, scope, and content of a successful music program.	Fall

## Academic Programs

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MUS 412	<b>Conducting II (2)</b> Development of student's abilities to prepare, rehearse, and perform as conductors of instrumental and vocal ensembles of any size. Includes instrumental and choral score preparation; technical, practical and performance practice considerations; interpretive decisions; verbal and gestural communication skills; rehearsal and performance programming and evaluation; and group theory interpersonal dynamics. Prerequisite: MUS 312.	Spring
MUS 414	<b>Interpretive Arranging (2)</b> 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. Prerequisite: MUS 224 and 225.	Fall
MUS 416	<b>Musical Theatre Production (1-3) I</b> Practical training in the presentation of musical dramas. Consists of regular rehearsals and final performance of musicals, music dramas, and operas. Course may be repeated for a total of twelve (12) units.	As offered
MUS 417	<b>Vocal Pedagogy (2)</b> 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.	Spring (even years)
MUS 418	<b>Piano Pedagogy (2)</b> 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.	Spring (even years)
MUS 419	<b>Instrumental Pedagogy (2)</b> 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.	Spring (even years)
MUS 420	<b>Diction for Singers (2)</b> The proper diction and style of songs from the English, Italian, French, and German repertoire. Development of correct pronunciation methods through the use of language drills, listening to recordings, and writing phonetic transcriptions of musical literature.	Fall (even years)
MUS 422	<b>Seminar in Conducting (2)</b> 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. Prerequisite: MUS 312 and 412.	Spring
MUS 423	<b>Vocal Repertory Lab (2)</b> 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.	Fall
MUS 425	<b>Survey of Music in Other Disciplines (1)</b> 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.	Spring (odd years)
MUS 431	<b>Recital/Senior Project (0)</b> Students are required to enroll for recital for their final recital given during the senior year. Additionally, students are expected to write a supporting paper on a theoretical/historical aspect of recital repertoire. Permission to enroll will be given only after attaining the appropriate performance level (Level 5 for Performance majors and Level 4 for Music Education and Composition majors). Requirement for recital length is determined by major and/or concentration and outlined in the School of Music handbook. Junior recitals are options only to those with a declared Performance Major. No Credit	Fall, Spring
MUS 440	<b>Instrumental Techniques for Woodwinds (1)</b> 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.	Fall (even years)
MUS 441	<b>Instrumental Techniques for Brass (1)</b> 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.	Fall (odd years)

MUS 442	<b>Instrumental Techniques for Percussion (1)</b> 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.	Spring (even years)
MUS 443	<b>Instrumental Techniques for Strings (1)</b> 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.	Spring (odd years)
MUS 450	<b>Observations in Teaching Methods (1) I</b> Practical experience in teaching music in the classroom and studio under faculty supervision. Regularly scheduled conferences for evaluation and planning. Open to selected Music Majors only. Prerequisites: MUS 224, two years of applied music, and successful completion of piano proficiency examination.	As offered
MUS 460	<b>Private Instruction (1-2)</b> Private instruction 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. A minimum of 12 lessons and performance at a faculty jury exam are required. Students are expected to perform in a student recital once per semester. Music Majors and Minors must attend 75% of all faculty and student recitals sponsored by the School of Music. Students who fail to meet this requirement must complete an additional Concert Music requirement (see the School of Music). Service Playing does NOT fulfill the MUS 081-089, 461-469 requirement for the major or minor. May be repeated for credit. Prerequisite: MUS 080.	Fall, Spring
MUS 461	<b>Private Instruction: Voice (1-2)</b> Private instruction in voice 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. A minimum of 12 lessons and performance at a faculty jury exam are required. Students are expected to perform in a student recital once per semester. Music Majors and Minors must attend 75% of all faculty and student recitals sponsored by the School of Music. Students who fail to meet this requirement must complete an additional Concert Music requirement (see the School of Music). May be repeated for credit. Prerequisite: MUS 081.	Fall, Spring
MUS 462	<b>Private Instruction: Piano (1-2)</b> Private instruction in Piano 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. A minimum of 12 lessons and performance at a faculty jury exam are required. Students are expected to perform in a student recital once per semester. Music Majors and Minors must attend 75% of all faculty and student recitals sponsored by the School of Music. Students who fail to meet this requirement must complete an additional Concert Music requirement (see the School of Music). May be repeated for credit. Prerequisite: MUS 082.	Fall, Spring
MUS 463	<b>Private Instruction: Organ (1-2)</b> Private instruction in organ 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. A minimum of 12 lessons and performance at a faculty jury exam are required. Students are expected to perform in a student recital once per semester. Music Majors and Minors must attend 75% of all faculty and student recitals sponsored by the School of Music. Students who fail to meet this requirement must complete an additional Concert Music requirement (see the School of Music). May be repeated for credit. Prerequisite for organ: formal piano training and music reading ability. Prerequisite: MUS 083.	Fall, Spring
MUS 464	<b>Private Instruction: Woodwinds (1-2)</b> Private instruction in woodwinds 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. A minimum of 12 lessons and performance at a faculty jury exam are required. Students are expected to perform in a student recital once per semester. Music Majors and Minors must attend 75% of all faculty and student recitals sponsored by the School of Music. Students who fail to meet this requirement must complete an additional Concert Music requirement (see the School of Music). May be repeated for credit. Prerequisite: MUS 084.	Fall, Spring
MUS 465	<b>Private Instruction: Brass (1-2)</b> Private instruction in brass 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. A minimum of 12 lessons and performance at a faculty jury exam are required. Students are expected to perform in a student recital once per semester. Music Majors and Minors must attend 75% of all faculty and student recitals sponsored by the School of Music. Students who fail to meet this requirement must complete an additional Concert Music requirement (see the School of Music). May be repeated for credit. Prerequisite: MUS 085.	Fall, Spring

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- MUS 466 Private Instruction: Strings (1-2)** **Fall, Spring**  
Private instruction in strings 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. A minimum of 12 lessons and performance at a faculty jury exam are required. Students are expected to perform in a student recital once per semester. Music Majors and Minors must attend 75% of all faculty and student recitals sponsored by the School of Music. Students who fail to meet this requirement must complete an additional Concert Music requirement (see the School of Music). May be repeated for credit. Prerequisite: MUS 086.
- MUS 467 Private Instruction: Percussion (1-2)** **Fall, Spring**  
Private instruction in percussion 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. A minimum of 12 lessons and performance at a faculty jury exam are required. Students are expected to perform in a student recital once per semester. Music Majors and Minors must attend 75% of all faculty and student recitals sponsored by the School of Music. Students who fail to meet this requirement must complete an additional Concert Music requirement (see the School of Music). May be repeated for credit. Prerequisite: MUS 087.
- MUS 468 Private Instruction: Guitar (1-2)** **Fall, Spring**  
Private instruction in guitar 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. A minimum of 12 lessons and performance at a faculty jury exam are required. Students are expected to perform in a student recital once per semester. Music Majors and Minors must attend 75% of all faculty and student recitals sponsored by the School of Music. Students who fail to meet this requirement must complete an additional Concert Music requirement (see the School of Music). May be repeated for credit. Prerequisite: MUS 088.
- MUS 469 Private Instruction: Accompanying (1)** **Fall, Spring**  
Private instruction in accompanying is offered with material and performance of increasing difficulty, as the student. 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. May be repeated for credit. Prerequisite: MUS 089.
- MUS 471 Worship Leadership and Performance Seminar (3)** **As offered**  
Worship Leadership and Performance continues the material studied in The Programming and Practice of worship and provides hands-on experience in planning and leading worship. Several worship situations will be set up and assigned to students who will plan a worship service, adapting to the assigned context. The worship service will be led with class participants assisting in musical roles as needed, and other students participate as congregational members. Each worship experience will be analyzed and evaluated by fellow students and instructor, followed by constructive discussion addressing areas of strength and suggestions for improvement.
- MUS 472 Orchestration (3)** **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. Prerequisite: MUS 224.
- MUS 475 Music in the Schools (3) I** **Spring**  
A course designed to prepare students to be effective music teachers in the K-6 grades, junior-high, and senior-high school levels in both public and private schools as well as church settings. A wide variety of methods and resources will be introduced giving attention to the most important methodologies of today. In addition to the classroom instruction, time will be given to observing and assisting a master teacher. Pre- or Co- requisite: MUS 440-443, 412, and 013.



## NURSING

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.

### 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 once science course during the semester.

BIO 153	Human Anatomy and Physiology I with Lab
BIO 163	Human Anatomy and Physiology II with Lab
BIO 205	Human Microbiology with Lab
CHE 102	Fundamentals of Chemistry
CHE 112	Organic Chemistry and Biochemistry for Health Sciences with Lab
COM 113	Oral Communication
ENG 113	Composition
ENG 123	Intermediate Composition
MAT 115	Intermediate Algebra OR STA 144 Introduction to Statistics
PSY 120	Lifespan Development for the Health Professions

## TRADITIONAL PROGRAM REQUIREMENTS

### Nursing Degree (124 units) BSN

Students must submit an application to the School 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
NUR 201	Theoretical Foundations in Nursing
NUR 215	Fundamental Skills for Nursing Practice
NUR 235	Physical Assessment
NUR 255	Adult Health I
NUR 256	Adult Health I Practicum

#### Upper Division Major Requirements

NUR 301	Communication/Informatics in Nursing Practice
NUR 315	Pathophysiology
NUR 320	Pharmacology and Nutrition
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 the Childrearing Family 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/Public Health Nursing
NUR 421	Community/Public Health Practicum
NUR 430	Transcultural Patterns of Health
NUR 440	Adult Health II
NUR 441	Adult Health II Practicum
NUR 450	Nursing Services with the Older Adult/Family
NUR 451	Nursing Services with the Older Adult/Family Practicum
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

## Academic Programs

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### Nursing Course Descriptions

- NUR 201 Theoretical Foundations in Nursing (3)** **Fall, Spring, RN-BSN**  
This course provides an introduction to the paradigms, theories, concepts, and values of the discipline of nursing; an overview of the program mission, philosophy, goals, objectives, and conceptual framework and themes of the baccalaureate program in the California Baptist University School of Nursing. This course is designed to enhance understanding of the history of the discipline, the phenomenon of interest in nursing, the roles of the professional nurse, and the professional standards of nursing practice. Practice with communication/collaboration activities will include true presence in the nurse-person relationship and being with others as they live their health and quality of life. Prerequisite: Admission into the nursing major.
- NUR 215 Fundamental Skills for Nursing Practice (4)** **Fall, Spring**  
Prepares students to perform basic nursing skills based on mastery of core scientific principles. Two (2) hours/week theory; Six (6) hours/week skills lab. Prerequisite: Admission to the nursing major.
- NUR 235 Physical Assessment (4)** **Fall, Spring**  
The course includes two (2) credit hours theory, two (2) credit hours/laboratory practicum and 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. Two (2) hours/week theory; Six (6) hours/week practicum. Prerequisite: Admission into nursing major.
- NUR 236 Physical Assessment for the Licensed Registered Nurse (3)** **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. Prerequisite: Admission into the RN-BSN program.
- NUR 255 Adult Health I (4)** **Fall, Spring**  
Introduction to theory-based nursing services with the young, middle and older adult. Focus is on the core knowledge acquisition and medical collaboration activities with health promotion/disease prevention, illness and disease management of common acute and chronic illnesses. Pre- or Co- requisite: NUR 256.
- NUR 256 Adult Health Practicum (3)** **Fall, Spring**  
A Level II course in the nursing major where there is application of nursing theory-based services for young, middle, and older adults. Acute and chronic issues of health integration and themes of collaboration/communication, critical thinking, teaching-learning, change-persistence and leading-following in nursing services are emphasized. Focus is on collaborative services with health promotion/disease prevention as well as the medical management of common acute and chronic illnesses in a variety of settings. Nine (9) hours/week practicum. Pre- or Co- requisite: NUR 255.
- NUR 301 Communication/Informatics in Nursing Practice (3)** **Fall, Spring, RN-BSN**  
This course is designed to introduce applications of informatics systems to nursing practice, education, research, and administration. Utilizing nursing theory/collaboration communication methods in the nurse-person relationship for purposes of health information acquisition and teaching-learning opportunities will be explored. Integrating various theories, students will understand the importance of becoming knowledge workers, and develop skills for information literacy. Students are introduced to computer hardware, software, databases, and communications applications. Developments in computer technologies are discussed in the context of telehealth, e-health, distance education, and research utilization. Associated human-computer interaction and legal and ethical issues are addressed. Students learn how nurses can use nursing information systems to work more efficiently, allocate resources more effectively, and improve nursing services. Prerequisite: Admission into nursing major.
- NUR 315 Pathophysiology (3)** **Fall, Spring, RN-BSN**  
Emphasis on complementary knowledge development in life sciences, as they relate to global health. Understanding of basic pathophysiology including disease processes, prevention, clinical signs and symptoms, secondary effects and methods of treatment, will enable health professionals to collaborate and provide curative and rehabilitative services. Study of scientific principles assist in developing critical thinking and analytic methods of inquiry for nursing practice. This course builds upon the general principles of anatomy/physiology studied as a nursing prerequisite. Presentation of a pathophysiological problem through a research paper is required. The effects of psychosocial stimuli on disease will be discussed. A global approach to disease will be emphasized. Students are expected to look at vital statistics of disease and research results in a critical manner. Prerequisite: Admission into nursing major.

NUR 320	<b>Pharmacology and Nutrition (3)</b> An introduction to the basic principles of pharmacology and nutrition with a focus on pharmacokinetics, pharmacodynamics, and therapeutic implications for major drug categories as well as natural products. Emphasis also on nutritional health promotion as well as therapeutic nutrition related to selected illness states. Prerequisite: Admission into nursing major.	Fall, Spring, RN-BSN
NUR 325	<b>Nursing Services with the Childbearing Family (3)</b> Theoretical basis for professional nursing practice with childbearing families. Emphasis is on childbearing as a family experience, nurse-family processes, and changing health patterns with childbearing families. Nursing role, communication/collaboration activities and teaching-learning opportunities with health promotion, risk reduction, and disease prevention will be discussed. Pre- or Co- requisite: NUR 326.	Fall, Spring
NUR 326	<b>Nursing Services with the Childbearing Family Practicum (2)</b> Practicum focuses on the application of nursing theory and nurse-family processes in providing nursing services and collaborative activities in preventive, supportive and restorative services to members of the childbearing family. Six (6) hours/week practicum. Pre- or Co- requisite: NUR 325.	Fall, Spring
NUR 335	<b>Nursing Services with the Childrearing Family (3)</b> The study of nursing science with childrearing families and healthcare issues commonly associated with children and adolescents. Nursing theory focuses on the meaning of health from the perspective of the childrearing family members. The focus will be on theoretical knowledge acquisition, teaching-learning, change-persistence, and collaboration with other health care professionals in health promotion/disease prevention as well as the management of common acute and chronic illnesses in children and adolescents. Emphasis is on the child in the family and the nursing services provided as the family lives with health in many diverse settings. Pre- or Co- requisite: NUR 336.	Fall, Spring
NUR 336	<b>Nursing Services with Childrearing Families Practicum (2)</b> Practicum application of nursing theory and research-based nursing services of children and adolescents. Focus is on changing health, teaching-learning and collaborative nursing activities with promotion/disease prevention, as well as the management of common acute and chronic illnesses in a variety of healthcare settings. Six 6 hours/week practicum. Pre- or Co- requisite: NUR 335.	Fall, Spring
NUR 355	<b>Mental Health Nursing (3)</b> 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, as well as the management of common and acute and chronic medical diagnosis of mental health issues with individuals, families, and communities. A nursing theoretical perspective under girding nursing practice shall be emphasized. Various nursing services and treatment modalities are explored. Nursing services with special populations including the homeless and issues regarding abuse, neglect, and substance abuse are explored. Pre- or Co- requisite: NUR 356.	Fall, Spring
NUR 356	<b>Mental Health Nursing Practicum (2)</b> 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/disease prevention, as well as the nurse-person, nurse-group, nurse-community patterns of relating, and management of common acute and chronic mental health problems with individuals and families. Six (6) hours/week practicum. Pre- or Co- requisite: NUR 355.	Fall, Spring
NUR 375	<b>Research and Writing for the Health Care Professional (3) I</b> This course is designed to provide an introduction and overview of nursing research. The course will be devoted to a discussion of the development of nursing research and its utilization in the practice of nursing. Additionally, the course will introduce basic terminology, principles of research, methods and designs of qualitative and quantitative nursing research with the goal of aiding the student to critically evaluate and utilize nursing research. The "So What?" connections between nursing theory and healthcare research and the possible importance for nursing practice and the profession will be regularly discussed.	Fall, Spring, RN-BSN
NUR 420	<b>Community/Public Health Nursing (3) I</b> The course focuses on a theoretical understanding of nursing concepts which are utilized in nurse-community processes while providing nursing services to individuals, families, communities, and aggregates of populations. The student will explore the role of the community health /public health nurse as an interdisciplinary collaborator with other members of the healthcare team. Changing healthcare systems and policies from a global perspective will be explored. Pre- or Co- requisite: NUR 421.	Fall, Spring, RN-BSN

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NUR 421	<b>Community/Public Health Nursing Practicum (3)</b> Practicum experience in community/public health nursing focusing on collaborative policy development, change, teaching-learning processes, the role, application of public health principles and nursing processes in the provision of nursing services with individuals/families and populations in a variety of community-based settings. Pre- or Co- requisite: NUR 420.	Fall, Spring, RN-BSN
NUR 430	<b>Transcultural Patterns of Health (3) I</b> This course will examine patterns of health beliefs and values from a nursing theoretical perspective. Health beliefs determined by religion, culture, society, and history will be reviewed. The course will examine how views of health influences healthcare, the healthcare delivery system, and specific elements of health throughout the life span. An important component of the course will be examination of the professional nurse's role and implications for nursing services. Application of nursing research in health beliefs and values will also be included.	Fall, Spring, RN-BSN
NUR 431	<b>Global Service-Learning in Nursing: Core Concepts (3)</b> 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. Prerequisite: Previous ISP experience.	As offered
NUR 432	<b>Global Service-Learning in Nursing: Advanced Concepts (3)</b> 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. Prerequisite: NUR 431.	As offered
NUR 433	<b>Global Service-Learning in Nursing: Immersion Practicum (3)</b> 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. Prerequisite: NUR 431 and 432.	As offered
NUR 440	<b>Adult Health II (3)</b> Advanced study of theory and research-based nursing services of the young, middle and older adult. Focus is on the knowledge acquisition and management of complex acute and chronic illnesses and end of life processes. Prerequisites: NUR 255 and 256; Pre- or Co- requisite: NUR 441.	Fall, Spring
NUR 441	<b>Adult Health II Practicum (3)</b> Practicum course with focus on advanced application of theory and research-based nursing services for young, middle and older adults. Focus is on collaborative interdisciplinary management of complex adult health illnesses and situations in a variety of healthcare settings. Nine (9) hours/week practicum. Prerequisites: NUR 255 and 256; Pre- or Co- requisite: NUR 440.	Fall, Spring
NUR 450	<b>Nursing Services for the Older Adult/Family (2)</b> This course focuses on the health-related issues of older adults. Major content areas include viewing the unique needs of elders from a nursing theoretical perspective. An interdisciplinary and collaborative health care provider approach will be given in the discussion of knowledge concerning physical, psychological, economic and social age related changes. The course will explore personal, cultural, societal attitudes toward aging for the purpose of an enhanced understanding from the elder's perspective. Pre- or Co- requisite: NUR 451.	Fall, Spring
NUR 451	<b>Nursing Practicum with the Older Adult/Family (1)</b> This practicum course focuses on the application for nursing knowledge with elderly persons and families. Emphasis is given to the collaborative application of biological, social, behavioral disciplinary knowledge with the practice and role description of the professional nurse. Nursing services shall be provided in a variety of settings including the community, assisted living facilities, acute care facilities, rehabilitation centers, and long term care facilities. Three (3) hours/week in practicum setting. Pre- or Co- requisite: NUR 450.	Fall, Spring

NUR 460	<b>Ethics and Issues in Health Care (3)</b> The philosophical and ethical aspects of the roles of professional roles of provider, designed and member of profession are examined. Emphasis is placed on current issues of professional and legal accountability and responsibility, professional liability, advocacy, collective action, and the ethical responsibilities and decision making for the profession and changing healthcare systems.	Fall, Spring, RN-BSN
NUR 470	<b>Christian Leadership in Nursing (3) I</b> Concepts of management, leadership and followership, change-persistence and organizational structure as frameworks for managing policy development and delivery of nursing care to groups of clients in an acute care setting. The transition from student role to professional nursing role as provider, coordinator, and designer is emphasized. Pre- or Co- requisite: NUR 471.	Fall, Spring, RN-BSN
NUR 471	<b>Christian Leadership in Nursing Practicum (3)</b> Practicum hours are to equal hours 9 hours per week for the 15 weeks semester (135 hours total for the semester). This experience emphasizes the student experience of observing and assuming the role of nurse leader/manager. Implications for nursing theory-driven practice, teaching-learning processes, change-persistence, and collaboration with other health care providers shall be emphasized. Preceptors are selected and assigned to students by the course coordinator and/or nursing faculty. Pre- or Co- requisite: NUR 470.	Fall, Spring, RN-BSN
NUR 494	<b>NCLEX Review (1)</b> This NCLEX review course shall be scheduled by the School of Nursing for all graduating senior nursing students.	Fall, Spring
NUR 498	<b>Senior Capstone Practicum (2)</b> 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. Six (6) hours/ week of practicum.	
NUR 499	<b>Senior Capstone Practicum (3)</b> This practicum senior level course focuses on the roles and responsibilities of a new graduate BSN professional nurse. The course provides an opportunity for the student to further develop leadership and practice nursing skills necessary for the beginning practitioner role. It also facilitates synthesis of the nursing knowledge and skills acquired in previous program courses in the provision of nursing care to individuals, families, and aggregates. Faculty in collaboration with the nursing administrators in healthcare agencies identify agency nurses who will assist students to achieve course/individual objectives in the agency. A nursing clinical faculty member and the selected agency nurse, i.e., Clinical Faculty, who is matched with the student assist the student to develop a Personal Objective Plan. The Plan is a set of individualized specific measurable objectives, which guide the student's clinical learning experience while meeting course objectives. The Clinical Faculty, the student and Campus Faculty form a three person team which facilitates the implementation of the student's plan. Nine (9) hours/week practicum.	Fall, Spring, RN-BSN

## NUTRITION

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 Education, Nursing, Health Education, Business, and Kinesiology. The minor is intended to increase knowledge and understanding of basic nutrition science and nutrition-related issues.

### Nutrition Minor (21 units)

#### Lower Division Requirements

NFS 101	Introduction to Nutrition and Food Sciences
NFS 200	Lifecycle Nutrition
NFS 220	Food, Culture, and Society

#### Upper Division Requirements

Complete twelve (12) units from the following:

HSC 410	Health Behavior Change
NFS 310	Community Nutrition
NFS 320	Nutritional Biochemistry
NFS 330	Food Service Organization, Purchasing, and Management
NFS 460	Human Nutrition Assessment Lecture with Lab
NFS 480	Agriculture, Nutrition, and International Development

## NUTRITION AND FOOD SCIENCES

The Nutrition and Food Sciences major prepares students for careers in healthcare organizations, public health, and food, beverage and nutrition organizations. This program will also provide students with the necessary background to pursue advanced degrees in medicine, dentistry, public health nutrition, dietetics, nursing, or laboratory research in industry, government or academia.

### TRADITIONAL PROGRAM REQUIREMENTS

#### Nutrition and Food Sciences Major (96-97 units) BS

##### Lower Division Requirements

ALH 101	Introduction to Allied Health Professions
BIO 153	Anatomy and Physiology I with Lab
BIO 163	Anatomy and Physiology with Lab
BIO 173	Medical Terminology
BIO 205	Human Microbiology with Lab
CHE 112	Organic and Biochemistry with Lab
CHE 115	General Chemistry I with Lab
CHE 125	General Chemistry II with Lab
COM 113	Oral Communications
HSC 210	Ethics in Healthcare
NFS 101	Introduction to Nutrition and Food Sciences
NFS 104	Introduction to Foods and Preparation
NFS 200	Lifecycle Nutrition
NFS 210	Experimental Foods
NFS 220	Food, Culture and Society
PSY 213	General Psychology
SOC 213	Introduction to Sociology OR ANT 225 Cultural Anthropology
STA 144	Introduction to Statistics

##### Upper Division Requirements

ALH 495	Clinical Practicum
HSC 410	Health Behavior Change
HSC 480	Research Methods
NFS 310	Community Nutrition
NFS 330	Food Service Organization, Purchasing, and Management
NFS 400	Special Topics in Nutrition and Food Sciences
NFS 420	Quantity Food Management
NFS 480	Agriculture, Nutrition and International Development

##### Concentration Courses (14-15 units)

Students must complete all requirements in one of the following concentrations:

Nutrition Science; Food Science and Management

##### Nutrition Science (14 units)

NFS 320	Nutritional Biochemistry
NFS 340	Advanced Public Health Nutrition I OR NFS 440 Advanced Public Health Nutrition II
NFS 450	Medical Nutrition Therapy
NFS 460	Human Nutrition Assessment Lecture with Lab

##### Food Science and Management (15 units)

BUS 217	Microeconomics
BUS 334	International Business
BUS 358	Business Law
MKT 333	Principles of Marketing
POL 493	Principles of Public Administration

### Nutrition and Food Sciences Course Descriptions

NFS 100	Nutrition Basics for Sport Performance (1)	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. Pass/Fail.		

NFS 101	<b>Introduction to Nutrition and Food Sciences (3)</b> 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.	Fall, Spring
NFS 104	<b>Introduction to Foods and Preparation (3)</b> This class provides an introduction to foods as a profession. Students will learn principles and procedures of food preparation including selection, storage, food sanitation, product evaluation, and meal management in accordance with scientific principles of nutrition.	Fall, Spring
NFS 200	<b>Lifecycle Nutrition (3)</b> 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.	As offered
NFS 210	<b>Experimental Foods (3)</b> Scientific approach to the factors involved in the preparation of standard food products. Experimental methods and techniques are employed in planning, preparation, and evaluation of food products.	As offered
NFS 220	<b>Food, Culture, and Society (3)</b> Examination of how, what, when, where, and why people eat. Cultural differences related to food provision, production, and consumption will be evaluated. Relationships of history, geography, climate, customs, social status, health, economy, religion, and politics to food and society also explored.	As offered
NFS 310	<b>Community Nutrition (3)</b> 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. Prerequisite: NFS 101 or BIO 146 and CHE 112 or 115.	As offered
NFS 320	<b>Nutritional Biochemistry (4)</b> Introduction to biochemistry with particular emphasis on nutrition and its effect on metabolism. Prerequisite: CHE 115, 125 and NFS 101.	As offered
NFS 330	<b>Food Service, Organization, Purchasing, and Management (3)</b> Study of equipment, personnel, and cost in the management of large quantity food services. Includes guest professional lectures and site visits to local food service operations. Prerequisite: NFS 101.	As offered
NFS 340	<b>Advanced Public Health Nutrition I (3)</b> This course provides a scientific basis for nutritional needs of humans and factors involved in meeting such requirements in individuals and population groups. Macronutrients and their metabolism with an emphasis on regulation, structure, digestion, absorption, transport, distribution, and disease states will also be covered. Prerequisite: NFS 101, 200, and 320.	As offered
NFS 400	<b>Special Topics in Nutrition and Food Sciences (3)</b> 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. Prerequisite: NFS 101 and 200.	As offered
NFS 420	<b>Quantity Food Management (3)</b> 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. Prerequisite: NFS 330.	As offered
NFS 440	<b>Advanced Public Health Nutrition II (3)</b> Integration and regulation of metabolism, hormonal effects, water soluble vitamins as regulatory nutrients, fat soluble vitamins and minerals as regulatory nutrients, metabolism and excretion, and dietary reference intakes and recommended dietary allowances. Prerequisite: NFS 101, 200, and 320.	As offered
NFS 450	<b>Medical Nutrition Therapy (4)</b> Cardiovascular disease, diabetes, renal disease, cancer, metabolic disorders, obesity, anemias, food allergy and intolerance, and alternative medicine. Development of critical problem-solving skills, calculations, case study discussion and presentation. Prerequisite: NFS 320.	As offered

## Academic Programs

NFS 460	<b>Human Nutrition Assessment Lecture with Lab (3)</b> Lecture and laboratory experience in nutritional assessment using anthropometrics, dietary, biochemical, and clinical tests and criteria. Laboratory experience includes simulation, standardized patient, and outpatient. Prerequisite: NFS 101 and 320.	As offered
NFS 480	<b>Agriculture, Nutrition, and International Development (3)</b> Issues in technology, food policy, nutrition, political economy, and social welfare in developing societies. Integrates concerns about food and nutrient distribution and availability, malnutrition, scientific principles of nutrient utilization and metabolism, and human productivity and reproduction. Prerequisite: NFS 101.	As offered
NFS 491	<b>Internship in Nutrition and Food Sciences (1-4)</b> 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. The course may be repeated for credit for a maximum of six (6) units. Prerequisites: Nutrition and Food Sciences major and junior or senior standing.	Fall, Spring, Summer

## PHILOSOPHY

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 PROGRAM REQUIREMENTS

#### Philosophy Major (48 units) BA

##### Lower Division Requirements

CST	110	Old Testament Survey
CST	130	New Testament Survey
PHI	213	Introduction to Philosophy

##### Upper Division Requirements

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	320	Epistemology
PHI	323	Ethics
PHI	343	Philosophy of Religion
PHI	363	Metaphysics
PHI	499	Senior Project

##### Twentieth Century Philosophy Elective Requirements

Complete six (6) units from the following:

PHI	420	Readings in Twentieth Century Epistemology
PHI	421	Twentieth Century Ethics
PHI	422	Twentieth Century Philosophy
PHI	433	Apologetics: Theory and Method
POL	429	Critical Political Philosophy and Postmodernism

##### Special Interests in Philosophy Elective Requirements

Complete three (3) units from the following:

PHI	312	Aesthetics
PHI	324	Applied Ethics
PHI	353	Comparative Religions
PHI	400	Special Topics
PHI	403	Contemporary Culture and Apologetics

##### Political Philosophy Elective Requirements

Complete three (3) units from the following:

POL	423	Classical Political Philosophy
POL	425	Modern Political Philosophy



**Philosophy Minor (24 units)**

## Lower Division Requirements

PHI 213 Introduction to Philosophy

## Upper Division Requirements

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 400 Special Studies in Philosophy

Nine (9) additional units of upper-division philosophy

**Philosophy Course Descriptions**

PHI 104	<b>Special Studies in Philosophy (1)</b> An examination of specific areas of Philosophy. Course is repeatable for credit with a change in topic.	As offered
PHI 200	<b>Special Studies (3)</b> Concentration on specific philosophical areas as particular periods, traditional philosophical classifications, or individual philosophers. Course is repeatable for credit with a change in topic.	Fall, Spring
PHI 213	<b>Introduction to Philosophy (3)</b> 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 World-view and the role philosophy plays in life and culture.	Fall, Spring
PHI 233	<b>Basic Reasoning (3)</b> This course introduces students to the fundamental skills involved in critical thinking such as the ability to recognize an argument and discern formal and informal fallacies. Application is made to issues that occur in everyday life.	Fall, Spring
PHI 300	<b>Logic (3)</b> 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. Prerequisite: PHI 213.	Fall (even years)
PHI 301	<b>History of Western Philosophy I (3) I</b> This course is the first of a two-semester study introducing students to the history of Western philosophy. This first part begins with the origins of philosophy in ancient Greece and ends with the Late Middle Ages. Particular attention is given to Socrates, Plato, Aristotle, St. Augustine, and St. Thomas.	Fall
PHI 302	<b>History of Western Philosophy II (3) I</b> This course is the second of a two-semester study introducing students to the history of Western philosophy. This second part begins with the origins of modern philosophy in the seventeenth century and ends with the twentieth century. Particular attention is given to Descartes, Hume, and Kant.	Spring
PHI 303	<b>Apologetics (3) I</b> 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. Prerequisite: PHI 213.	Fall
PHI 304	<b>Special Studies in Philosophy (1)</b> An examination of specific areas of Philosophy. Course is repeatable for credit with a change in topic.	As offered
PHI 312	<b>Aesthetics (3)</b> 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 posted 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. Prerequisite: PHI 213.	Fall (odd years)
PHI 320	<b>Epistemology (3)</b> 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. Prerequisite: PHI 213.	Fall (even years)

## Academic Programs

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PHI 323	<b>Ethics (3) I</b> 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 World-view 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. Prerequisite: PHI 213.	<b>Fall (even years)</b>
PHI 324	<b>Applied Ethics (3) I</b> 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.	<b>Fall (odd years)</b>
PHI 343	<b>Philosophy of Religion (3) I, M</b> This course introduces students to the specific branch of philosophy known as philosophy of religion. This occurs through an examination of the major issues within the discipline such as the existence of God, the problem of evil, and the nature of religious language.	<b>Spring</b>
PHI 353	<b>Comparative Religions (3) I, M</b> This course is an introduction to the major religious traditions of the world, particularly Hinduism, Buddhism, Judaism, Christianity, and Islam. The historical development, key figures, as well as major doctrines and practices are explored.	<b>Fall, Spring</b>
PHI 363	<b>Metaphysics (3) M</b> 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, existence, and such movements as idealism, nominalism, realism, and materialism. Prerequisite: PHI 213.	<b>Spring (even years)</b>
PHI 399	<b>Independent Study (3) M</b> 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.	
PHI 400	<b>Special Studies (3)</b> Concentration on specific philosophical areas as particular periods, traditional philosophical classifications, or individual philosophers. Course is repeatable for credit with a change in topic.	<b>Fall</b>
PHI 403	<b>Cultural Apologetics (3)</b> A study of the ways in which the truth of the Gospel and of the Christian worldview are reflected in popular culture through art, literature, film, music, and television. Prerequisite: PHI 213.	<b>Spring (odd years)</b>
PHI 420	<b>Readings in 20th Century Epistemology (3)</b> This course is a study of 20th Century Epistemology. It provides an introduction to the major figures and movements of contemporary epistemology. Prerequisite: PHI 213.	<b>Spring (odd years)</b>
PHI 421	<b>Twentieth-century Ethics (3)</b> A study of 20th century meta-ethics. The course provides an introduction, rooted in primary texts, of the major figures and movements of the 20th thought and seeks to investigate and assess these figures and movements in light of the convictions of the Christian world view. Prerequisite: PHI 213.	<b>Fall (odd years)</b>
PHI 422	<b>Twentieth-century Philosophy (3)</b> A study of 20th century philosophy. The course provides an introduction, rooted in primary texts, of the major figures and movements of the 20th thought and seeks to investigate and assess these figures and movements in light of the convictions of the Christian world view. Prerequisite: PHI 213.	<b>Fall (even years)</b>
PHI 433	<b>Apologetics: Theory and Method (3)</b> An analysis of the various methods used, the logic employed, the philosophical assumptions utilized, and the potential effectiveness of the major approaches to the apologetic task currently debated by contemporary apologists. Prerequisite: PHI 213.	<b>Spring (even years)</b>
PHI 499	<b>Senior Project (3)</b> 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. Prerequisite: Senior status.	<b>Spring</b>

# PHOTOGRAPHY

The Photography Major program is designed to instruct the student in three major areas, or interests, in photography: Commercial, Fine Art, and Sports. Students will learn the integration of theory, best-practices, hands-on and assignment instruction.

## TRADITIONAL PROGRAM REQUIREMENTS

### Photography Major (52 units) BA

#### Lower Division Requirements

DES 110	Design Thought Foundations I
DES 112	Design Thought Foundations II
GDM 130	Fundamental Image
PHO 105	The Camera
PHO 110	Fundamental Commercial Photography
PHO 120	Fundamental Fine Art Photography
PHO 140	History of Photography

#### Upper Division Requirements

GDM 330	Intermediate Image
PHO 410	Studio Lighting
PHO 431	Sports Photography
PHO 432	On Location Photography
PHO 433	Assignment Photography
PHO 485	Photography Business
PHO 499	Senior Show

#### Concentration Courses (12 units)

Students must complete all requirements in one of the following concentrations:

Commercial Photography; Fine Art Photography

#### Commercial Photography

PHO 310	Intermediate Commercial Photography
PHO 411	Food/Product Photography
PHO 412	Portraiture
PHO 413	Wedding Photography

#### Fine Art Photography

PHO 320	Intermediate Fine Art Photography
PHO 420	Still Life
PHO 421	Alternative Process
PHO 422	Portfolio/Gallery

## Photography Course Descriptions

PHO 105	<b>The Camera (3)</b>	<b>Fall, Spring</b>
	This course is an introduction to photography where students are introduced to formal techniques and how to work a camera. Principles in exposure, time and composition will be explored.	
PHO 110	<b>Fundamental Commercial Photography (3)</b>	<b>Fall</b>
	This course explores the tools and technology of photography through assigned projects and exercises. Techniques will be explored and explained.	
PHO 120	<b>Fundamental Fine Art Photography (3)</b>	<b>Fall</b>
	Fine Art Photography is the greatest expression of the science of photography. This course explores the tools and technology of photography through assigned projects and exercises.	
PHO 140	<b>History of Photography (3)</b>	<b>Fall, Spring</b>
	This course is a survey of the 150 years of photography and the trends and technologies that have shaped its transformation into what it is today.	
PHO 310	<b>Intermediate Commercial Photography (3)</b>	<b>Spring</b>
	This course further explores the facets of commercial photography which include working with models, location acquisition and working in a collaborative environment. The student will be challenged to propose and execute creative solutions to problems set up by the instructor. Prerequisite: PHO 110.	

## Academic Programs

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PHO 320	<b>Intermediate Fine Art Photography (3)</b> This course further explores the facets of fine art photography which include working with models, location acquisition and working in a collaborative environment. The student will be challenged to propose and execute creative solutions to problems set up by the instructor. Prerequisite: PHO 120.	Spring
PHO 410	<b>Studio Lighting (3)</b> This course explores techniques and the tools implemented by a photography studio. Projects and exercises will teach the students how to use a camera, use lighting and work flows. Photoshop post-camera techniques will also be taught in conjunction with image processing.	Fall (even years)
PHO 411	<b>Food/Product Photography (3)</b> This course explores the techniques and methodology of photographing food and interior lifestyle. The course will challenge the student to produce work consistent with professional food photography	Spring (even years)
PHO 412	<b>Portraiture (3)</b> In this course the art of portraiture is considered and practiced. The student will be challenged to hone the fine art of portraiture and its impact on the model and the viewer. The student will be challenged with a wide range of subject and practice the art of controlling a portrait setting.	Fall (odd years)
PHO 413	<b>Wedding Photography (3)</b> This course will explore the wedding field and the process of shooting successful weddings. It is a lucrative market for photographers and there are opportunities for young photographers to working immediately. Prerequisite: PHO 310.	Spring (odd years)
PHO 420	<b>Still Life (3)</b> This is a course that challenges the students to see light, shadow and composition thru the lens and then to capture it. The student will work with settings and lighting to produce work consistent with professional fine art.	Fall (even years)
PHO 421	<b>Alternative Process (3)</b> This course challenges the student to produce art thru the use of print making and other processes outside the camera. There will be several techniques studied and different mediums used. Prerequisite: PHO 310.	Spring (even years)
PHO 422	<b>Portfolio/Gallery (3)</b> The photographer's ability to present themselves well is a crucial component of telling one's story within photography. In this course the student will challenged to consider how their work will be displayed in gallery settings and to produce their work to meet that end.	Spring (even years)
PHO 431	<b>Sports Photography (3)</b> This course will explore the world of sport photography and the special challenges it presents the photographer in equipment, timing and environment. The ability to tell a story in a fraction of second and position yourself to anticipate the shot is key.	Spring (even)
PHO 432	<b>On Location Photography (3)</b> This course will challenge the photography student to tell stories outside the controlled environment and to successfully navigate lighting and viewpoint obstacles. Prerequisite: GDM 330.	Fall
PHO 433	<b>Assignment Photography (3)</b> This course will offer the student the opportunity to develop photography skills independently in an online format with teaching and student online forums and content. The student and teacher will meet to discuss the student assignments and outcomes. Prerequisite: GDM 330.	Spring
PHO 485	<b>Photography Business (3)</b> This lecture course will introduce the students to principles of self-promotion, taxes, bidding, pricing, the procurement of work and agents.	Fall, Spring
PHO 499	<b>Senior Show (1)</b> This course prepares the students for their capstone show and the pending graduation into their post-undergraduate endeavors. Prerequisite: Senior status and Permission of the Department Chair.	Fall, Spring

## PHYSICAL EDUCATION (see Kinesiology)

## PHYSICAL SCIENCE

### Physical Science Course Descriptions

PSC 133	Survey of Physical Science (3)	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. Prerequisite: MAT 095 or sufficient SAT or ACT scores.	
PSC 133L	Survey of Physical Science Lab (1)	Fall
	A laboratory experience designed to illustrate and reinforce physical science principles and to introduce basic physical science laboratory techniques. Additional lab fee. Pre- or Co- requisite: PSC 133.	
PSC 151	Introduction to the Geosciences (3)	Fall, Spring
	A general study of the geosciences including the areas of astronomy, meteorology and climate, geology, and oceanography.	
PSC 151L	Introduction to the Geosciences Lab (1)	Fall, Spring
	A laboratory experience designed to illustrate and reinforce geosciences principles and to introduce basic geosciences laboratory techniques. Additional lab fee. Pre- or Co- requisite: PSC 151.	
PSC 201	Special Topics in Physical Science (3)	
	Concentration upon a specific topic in the field of physical science. Topic varies for different semesters. May be taken multiple times with change in topic.	
PSC 399	Independent Study (3)	
	An opportunity for students who have demonstrated the ability to do independent work to pursue in depth a topic of particular interest.	
PSC 401	Special Topics in Physical Science (3)	As offered
	Concentration upon a specific topic in the field of physical science. Topic varies for different semesters. May be taken multiple times with change in topic.	
PSC 413	Lab Techniques for Physical Science Teachers (3) I	As offered
	Development and practice of classical and modern lab procedures and philosophies including mathematical analysis. Practice, organization, and set up, to conduct various labs used throughout the physical sciences. Study of conformity to various lab situations, and how to improve and modernize existing or standard labs. Prerequisite: PSC 133. Additional lab fee.	
PSC 451	Advanced Geoscience with Lab (4)	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. Lecture (3 units) and required laboratory (1 unit). Additional lab fee.	

## PHYSICS

### Physics Minor (20 units)

#### Lower Division Requirement

PHY 201	Physics for Engineers I with Lab and
PHY 203	Physics for Engineers II with Lab
	OR
PHY 214	Physics for Scientists I with Lab and
PHY 224	Physics for Scientists II with Lab

#### Upper Division Requirement

PHY 310	Waves and Optics with Lab
PHY 320	Modern Physics

#### Upper Division Elective Requirement

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

## Academic Programs

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### Physics Course Descriptions

PHY 101	<b>Concepts in Physics with Lab (4)</b> This is primarily a general education conceptual class in physics for those interested in understanding the fundamental laws of nature, without the delving to deeply into mathematics or other previous scientific backgrounds. We will study topics such as: the classical laws of motion, force, momentum, energy, waves, heat, sound, electrostatics, electricity, magnetism, optics, the atom, and relativity. Additional lab fee. Prerequisite: MAT 115.	As offered
PHY 112	<b>The Physics of Hollywood with Lab (4) I</b> 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. Additional lab fee.	Spring
PHY 113	<b>Astronomy (3)</b> A study of the earth, time, moon, sky, celestial mechanics, solar system, and the sidereal universe.	Fall
PHY 113L	<b>Astronomy Lab (1)</b> A study of the laws of physics related to the optics of telescopes. Observational labs, including remotely operating telescopes on mountain tops. Additional lab fee(s). (Field trips may require additional lab fees). Pre- or Co- requisite: PHY 113.	Fall
PHY 114	<b>General Physics I with Lab (4)</b> This is an introductory course in physics covering the areas of mechanics, waves, fluids, and thermodynamics. It is predominately an algebra-based course with a minor amount of calculus introduced from a historical basis. Lecture (3 units) and required laboratory (1 unit). Additional lab fee. Prerequisites: MAT 145 with a minimum grade of B- or passing score on a math assessment exam.	Fall
PHY 115	<b>Physics for Architects with Lab (4)</b> 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. This class will be taught in an "Inquiry-Based" manner. Lecture and lab are integrated. Additional lab fee. Prerequisites: MAT 135, 145, or 245.	Fall
PHY 122	<b>The Physics of Photography (3) I</b> A study of the physical properties of the camera, predominantly optics. Emphasis placed on black and white, 35mm, exposing, developing and printing. Additional lab fee.	As offered
PHY 124	<b>General Physics II with Lab (4)</b> This is a continuation PHY 114 covering the areas of electromagnetism, optics, and topics in modern physics. It is predominately an algebra-base course with a minor amount of calculus introduced from a historical basis. Lecture (3 units) and required laboratory (1 unit). Additional lab fee. Prerequisites: PHY 114 and either MAT 145 with a minimum grade of B- or passing score on a math placement exam.	Spring
PHY 200	<b>Special Topics in Physics (1-3)</b> Various appropriate topics of different concentrations are offered each time. May be repeated once with different subject matter. Student involvement in selection of topics is strongly encouraged.	As offered
PHY 201	<b>Physics for Engineers I with Lab (4)</b> 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. 6 hours per week of inquiry-based instruction. Additional lab fee. Prerequisite: MAT 145, 245 or a B or better in EGR 182.	Fall, Spring
PHY 203	<b>Physics for Engineers II with Lab (4)</b> This course covers topics such as fluids, temperature and ideal gas, electric charge and field, Gauss's 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. 6 hours per week of inquiry-based instruction. Additional lab fee. Prerequisite: PHY 201.	Fall, Spring

PHY 214	<b>Physics for Scientists I with Lab (4)</b> A study of mechanics, heat and thermodynamics, waves, sound, and the mathematical methods of physics. Lecture (3 units) and required laboratory (1 unit). Additional lab fee. Prerequisite: MAT 145 or 245, and a passing score on a mathematics assessment exam.	Fall
PHY 224	<b>Physics for Scientists II with Lab (4)</b> A continuation of PHY 214, including a study of electricity, magnetism, electromagnetic waves, optics, and modern physics topics. Lecture (3 units) and required laboratory (1 unit). Additional lab fee. Prerequisite: PHY 214.	Spring
PHY 301	<b>Astronomy II (3)</b> 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. Prerequisites: PHY 113, 201, or 214.	As offered
PHY 301L	<b>Astronomy II Lab (1)</b> 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. Additional lab fee. Pre- or Co- requisite: PHY 301.	As offered
PHY 305	<b>Physics of Semiconductors (4)</b> 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 pn junction diodes, bipolar junction transistors, and metal-oxide-semiconductor capacitors and field-effect transistors. Additional lab fee. Prerequisites: MAT 343 and PHY 203 or 224.	As offered
PHY 310	<b>Waves and Optics with Lab (4)</b> 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; 3 hours lecture, 3 hours lab. Additional lab fee. Prerequisites: PHY 203 or 224.	Fall
PHY 320	<b>Modern Physics (4)</b> 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, Schrodinger's equation, nuclear models, decay and reactions, Rutherford scattering. 4 hours lecture. Prerequisites: PHY 203 or 224. PHY 310 Recommended.	Spring
PHY 399	<b>Independent Study (1-3)</b> This course of study is offered to afford the superior student an opportunity to explore independently subject matter not already offered in the catalog.	
PHY 400	<b>Special Topics in Physics (1-4)</b> Various appropriate topics of different concentrations are offered each time. May be repeated once with different subject matter. Student involvement in selection of topics is strongly encouraged.	As offered

## **POLITICAL SCIENCE**

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 Education section for the Professional Methods Program for Single Subject Credential Students.)

### **TRADITIONAL PROGRAM REQUIREMENTS**

#### **Political Science Major (39 units) BA**

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

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\*:

POL 323 Political Parties and Interest Groups

POL 390 Congress and the Presidency

POL 395 Political Economy

POL 435 Campaigns and Elections

POL 465 Policy Process and Analysis

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 the Criminal Process

PHI 300 Logic OR PHI 324 Applied Ethics

POL 330 Law and Literature

POL 444 International Law

POL 453 Administrative Law and Bureaucracy

POL 484 Constitutional Law I

POL 485 Constitutional Law II



**Public Administration Elective Requirement**

Complete three (3) units from the following\*:

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

**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:

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 465	Policy Process and Analysis
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:

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

\*Recommend completion of POL 484 and POL 485

**Public Administration**

Complete nine (9) units from the following:

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

## Academic Programs

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### Political Science Major with Pre-Law Emphasis (42 units) 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.

#### 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 Requirement

- PHI 300 Logic
- PHI 323 Ethics
- PHI 324 Applied Ethics
- POL 330 Law and Literature
- POL 440 Pre-Law Internship (3 units)
- POL 453 Administrative Law and Bureaucracy
- 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 Minor (21 units)

#### Lower Division Requirements

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

#### Upper Division Requirements

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

### Pre-Law Program

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. Daniel Skubik and Dr. Troy Hinrichs serve as the pre-law program advisors.

#### Certificate Requirements (33 units)

##### Lower Division Requirements

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

**Upper Division Requirements**

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

Six (6) units selected from the following: PHI 363, POL 423, 425, or 429

One of the following not included in the student's general education core curriculum: ENG 303, ENG 313, ENG 333, ENG 343, ENG 345, ENG 403, ENG 413, ENG 440, ENG 443, ENG 460.

**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.

**Certificate Requirements (18 units)**

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

**Political Science Course Descriptions**

POL 200	<b>Special Topics in Political Science (3)</b> This course examines special topics in political science. Topics are announced each time the course is offered. It may be taken twice if different content is offered.	<b>As offered</b>
POL 213	<b>American Government (3)</b> 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.)	<b>Fall, Spring</b>
POL 223	<b>State and Local Government (3)</b> 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.	<b>Fall, Spring</b>
POL 250	<b>Introduction to International Politics (3)</b> 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.	<b>Spring</b>
POL 255	<b>Introduction to Comparative Politics (3)</b> 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.	<b>Fall</b>
POL 323	<b>Political Parties and Interest Groups (3)</b> 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.	<b>Spring (odd years)</b>

## Academic Programs

POL 330	<b>Law and Literature (3) I</b> 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.	<b>Fall (odd years)</b>
POL 350	<b>International Relations Theory (3)</b> 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.	<b>Fall (even years)</b>
POL 390	<b>Congress and the Presidency (3)</b> 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.	<b>Spring (even years)</b>
POL 395	<b>Political Economy (3) I</b> 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.	<b>Fall (odd years)</b>
POL 399	<b>Independent Studies (3)</b> 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. (This course does not meet the POL general education requirement.)	
POL 400	<b>Special Topics in Political Science (3)</b> This course examines special topics in political science. Topics are announced each time the course is offered. It may be taken twice if different content is offered.	<b>As offered</b>
POL 401	<b>Special Topics in Government (3)</b> This course examines special topics in government. Topics are announced each time that the course is offered. It may be taken twice if different content is offered. Prerequisite: POL 213.	<b>As offered</b>
POL 415	<b>World Geography (3) M</b> 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. (This course does not meet the POL general education requirement.)	<b>Fall, Spring</b>
POL 423	<b>Classical Political Philosophy (3) I</b> 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.	<b>Fall (odd years)</b>
POL 425	<b>Modern Political Philosophy (3) I</b> 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.	<b>Spring (even years)</b>
POL 427	<b>American Political Theory (3) I</b> 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.	<b>Fall (even years)</b>

POL 429	<b>Critical Political Philosophy and Postmodernism (3) I</b> 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.	Spring (odd years)
POL 431	<b>Christianity and Citizenship (3)</b> 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. Prerequisite: Political Science Major and Junior/Senior status.	Spring
POL 435	<b>Campaigns and Elections (3)</b> 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.	Fall (even years)
POL 437	<b>Globalization (3)</b> 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.	Fall (even years)
POL 439	<b>International Conflict (3)</b> 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.	Fall (odd years)
POL 440	<b>Pre-Law Internship (1-3)</b> 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. (This course does not meet the POL general education requirement.) Prerequisite: Permission of the Department Chair and Junior/Senior status.	Fall, Spring, Summer
POL 443	<b>Diplomatic History of the United States (3)</b> 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.	Spring (odd years)
POL 444	<b>International Law (3)</b> 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.	Fall (odd years)
POL 445	<b>American Institutions and Processes Internship (1-3)</b> 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. (This course does not meet the POL general education requirement.) Prerequisite: Permission of the Department Chair and Junior/Senior status.	Fall, Spring, Summer
POL 446	<b>International Relations Internship (1-3)</b> 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. (This course does not meet the POL general education requirement.) Prerequisite: Permission of the Department Chair and Junior/Senior status.	Fall, Spring, Summer

## Academic Programs

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POL 447	<b>Public Administration Internship (1-3)</b> 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. (This course does not meet the POL general education requirement.) Prerequisite: Permission of the Department Chair and Junior/Senior status.	Fall, Spring, Summer
POL 450	<b>Research Methods in Political Science (3)</b> 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.	Fall
POL 451	<b>Executive Leadership and Management in the Public Sector (3)</b> 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).	Fall (odd years)
POL 452	<b>Organizational Theory and Design (3)</b> 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.	Online and Professional Studies
POL 453	<b>Administrative Law and Bureaucracy (3)</b> 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.	Spring (even years)
POL 454	<b>International Organizations (3)</b> 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 organization 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).	Spring (even years)
POL 456	<b>Contemporary Legal Issues (3)</b> This course is an examination of the ever-changing legal climate of law enforcement with special emphasis upon constitutional issues.	As offered
POL 465	<b>Policy Process and Analysis (3)</b> 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.	Spring (even years)
POL 471	<b>Terrorism (3)</b> 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.	Spring (odd years)
POL 484	<b>Constitutional Law I (3)</b> 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.	Fall (even years)

POL 485	<b>Constitutional Law II (3)</b> 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.	Fall, Spring
POL 490	<b>Contemporary Issues in Public Administration (3)</b> 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.	Online and Professional Studies
POL 491	<b>Public Personnel Management (3) I</b> 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).	Fall (even years)
POL 493	<b>Principles of Public Administration (3) I</b> 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.	Spring (odd years)
POL 499	<b>Senior Project (3)</b> 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. Prerequisite: POL 450 and Senior status.	Spring

## PRE-PHYSICAL THERAPY (see Exercise Science)

## PROFESSIONAL STUDIES

### Professional Studies Course Descriptions

PST 100	<b>Strategies for Success (2)</b> The course is designed to prepare students for a successful transition to college coursework. Strategies, practical skills and resources for addressing anticipated personal and academic challenges will be identified. Students will be introduced to skills for proper research paper writing requirements, formatting and personal laptop computer use. Connections between students' goals and campus/program offerings will be reinforced.	Online and Professional Studies
PST 300	<b>Career and Professional Development (3)</b> 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.	Online and Professional Studies
PST 317	<b>Ethical and Biblical Principles for Leadership (3)</b> 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.	Online and Professional Studies
PST 320	<b>Leadership Theory and Practice (3)</b> 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.	Online and Professional Studies
PST 405	<b>Cross-Cultural Leadership (3)</b> 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.	Online and Professional Studies

## Academic Programs

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PST 410	<b>Organizational Development (3)</b> 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.	<b>Online and Professional Studies</b>
PST 420	<b>Decision-Making (3)</b> 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.	<b>Online and Professional Studies</b>
PST 430	<b>Conflict Resolution and Negotiations (3)</b> 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.	<b>Online and Professional Studies</b>

## PSYCHOLOGY

The Psychology major prepares students for graduate school in psychology and other related fields and employment in public and private agencies. Students are encouraged to pursue a complimentary minor. Students may complete a double major in Psychology and Sociology by substituting overlapping courses. Psychology majors may also complete a Sociology or Christian Behavioral Science minor.

### TRADITIONAL PROGRAM REQUIREMENTS

#### Psychology Major (44 units) BA

##### Lower Division Requirements

PSY 213 General Psychology

##### Methodology Requirements

BEH 255 Foundational Skills in Behavioral Sciences I  
BEH 256 Foundational Skills in Behavioral Sciences II  
BEH 333 Epistemology and Worldview  
BEH 383 Statistical Techniques in Behavioral Science with SPSS  
BEH 385 Methods of Research with SPSS

##### 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

##### Optional Concentrations\* (12 units)

Students can earn a concentration in the following areas by completing the certificate requirements\*\*: Anthropology, Christian Behavioral Science, Cognitive Psychology, Diversity, Industrial and Organizational Psychology, Life Span Development, Religion and Behavior, or Social Work.

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

\*\*Certificate requirements are located in the Academic Program section of the catalog by certificate title.

#### Psychology Minor (21 units)

##### General Prerequisites

PSY 213 General Psychology

##### Upper Division Requirements

PSY 320 Life-Span Development  
PSY 322 Theories of Personality  
PSY 473 Psychophysiology

Twelve (12) units of Upper Division Psychology\*

\*Minor students may use elective units toward a Departmental Concentration.



## Psychology Certificate

The Psychology 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 psychology designed for students with a major outside the School of Behavioral Sciences who wish to supplement their academic interest or goals.

### Certificate Requirements (12 units)

BEH 383	Statistical Techniques in Behavioral Science with SPSS
PSY 320	Life Span Development
PSY 322	Theories of Personality
PSY 346	Abnormal Psychology

## Psychology Course Descriptions

PSY 120	<b>Lifespan Development for the Health Professions (3)</b> A survey course of Lifespan Development in terms of Biological, Psychological, Cognitive, and Spiritual perception of the individual. Lecture only. Prerequisite: Declared Communication Disorders, Health Education, Nursing, or Pre-Nursing major.	Fall, Spring, Summer
PSY 201	<b>Special Topics in Psychology (3)</b> An in-depth seminar on a selected topic within Psychology. Prerequisite: PSY 213.	As offered
PSY 213	<b>General Psychology (3)</b> This introductory course is a survey of the process of adjustment, growth, learning, remembering, perceiving, thinking, sensation, and emotions. It is meant to better equip the student to predict and control his life, and to understand the behavior of others as well as influence their lives. This course is a prerequisite to all other courses in Psychology.	Fall, Spring
PSY 301	<b>History and Systems of Psychology (3)</b> An overview of the major schools of thought in psychology presented in historical context. Primary focus will include Psychoanalytical, Behavioral, Humanistic, and Cognitive approaches to understanding human psychology. Prerequisite: PSY 213.	Fall, Spring
PSY 305	<b>Developmental Psychology: Child (3)</b> Principles of psychological development from birth to adolescence. Prerequisite: PSY 213.	Fall
PSY 315	<b>Developmental Psychology: Adolescence and Adult (3)</b> Principles of psychological development from adolescence to senescence. Prerequisite: PSY 213.	Spring
PSY 320	<b>Life-Span Development (3)</b> Principles of psychological development from birth to senescence. Prerequisite: PSY 213.	Fall, Spring
PSY 322	<b>Theories of Personality (3)</b> Survey of theories of personality emphasizing structure, dynamics, functions, and development of basic attitudes that influence behavior and develop constructive behavior. Prerequisite: PSY 213.	Fall, Spring
PSY 325	<b>Tests and Measurements (3)</b> The construction, application, interpretation and evaluation of psychological tests. Tests used to measure general mental abilities, specific abilities and aptitudes, personality, interests and attitudes are surveyed. Prerequisite: PSY 213 and BEH 383.	Fall, Spring
PSY 328	<b>Cognitive Psychology (3)</b> This course provides an introduction into the structure and functions of the mind from the viewpoint of computation, neuroscience, and philosophy. Students will examine the historical significance of this subject, how the field has changed over time, and the current important issues of thought and memory. Topics include attention processing, memory, mental imagery, decision making process, consciousness, creativity, and methods for measuring informational processing. Prerequisite: PSY 213.	Fall, Spring
PSY 335	<b>Group Dynamics (3) M</b> A study in which personal experience in a group is used to aid individuals in becoming more aware of themselves and the manner in which they affect others and in turn are affected by others. There is some consideration of the various types of groups and group processes. Prerequisite: PSY 213.	As offered
PSY 338	<b>Sensation and Perception (3)</b> A general introduction to the scientific study of sensory processes and perceptual phenomena. This course focuses on the link between the brain and sensory structures of human physiology and the mind with its memory, interpretive and linguistic aspects of personal and shared meaning. Prerequisite: PSY 213.	Fall (even years)

## Academic Programs

PSY 345	<b>Abnormal Psychology for Nurses</b> 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. Prerequisite: Nursing.	Fall, Spring
PSY 346	<b>Abnormal Psychology (3)</b> 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. Prerequisite: PSY 213.	Fall, Spring
PSY 388	<b>Industrial and Organizational Psychology (3)</b> This course is designed to provide an introduction to the field of Industrial and Organizational Psychology. Building upon introductory psychology and statistics, special emphasis is placed on understanding people and systems within the context of industry. Employee health, development, and management, organizational culture, 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 germane to employment and the workplace. Prerequisites: BEH 383 and PSY 213.	As offered
PSY 399	<b>Independent Study (3)</b> An opportunity for students who have demonstrated the ability to do independent work to pursue in depth a topic of particular interest. Prerequisite: PSY 213.	
PSY 401	<b>Special Topics in Psychology (3)</b> An in-depth seminar on a selected topic within Psychology. Prerequisite: PSY 213.	As offered
PSY 404	<b>Psychopathic Mind (3)</b> The professional seminar introduces students to the process and techniques of investigation and psychological profiling of serial murderers, serial rapists, and terrorists. Prerequisite: PSY 213, SOC 213, or ANT 225; senior status; permission of the Dean of the School of Behavioral Sciences.	Spring
PSY 422	<b>Theories of Counseling (3)</b> A survey of modern theories of therapeutic counseling with emphasis on gaining an understanding of the psychological principles underlying these methods. Prerequisite: PSY 213.	Fall, Spring
PSY 440	<b>Internship in Human Services (3)</b> A practical application of basic psychological principles in community or campus responsibilities under professional supervision. Pass/Fail. Prerequisites: PSY 213 and permission of the Dean of the School of Behavioral Sciences.	As offered
PSY 443	<b>Social Psychology (3) M</b> Deals with the psychological impact of the customs, norms, institutions, and groups upon the individual and his behavior as influenced by social interaction. Prerequisite: PSY 213.	Fall
PSY 448	<b>Human Memory (3)</b> An introduction to the theories, research techniques, and empirical evidence regarding human memory. Topics to be included are short-term and long-term memory, theoretical models for remembering and forgetting, amnesia, autobiographical memory, repression, storing knowledge, eyewitness testimony, childhood memory, memory and aging. Emphasis on how these aspects of memory influence human behavior. Prerequisite: PSY 213.	As offered
PSY 453	<b>Psychology of Learning (3)</b> A study of the learning process in the light of the various systems of learning theory and major research evidence. Prerequisite: PSY 213.	Fall
PSY 458	<b>Motivation and Emotion (3)</b> An introduction to both theoretical and physiological aspects of emotion and motivation in humans. Topics will include the biological correlates of emotion and motivation, psychological influences, and social factors. Emphasis is on methods for studying motivation and emotion and their role in human behavior. Prerequisite: PSY 213.	Spring (odd years)
PSY 459	<b>Dynamics of Religious Experience (3) M</b> An examination of the social psychological significance of religious experiences and practices viewed from their personal, cultural, and institutional aspects. Prerequisite: PSY 213.	Fall (odd years)
PSY 473	<b>Psychophysiology (3)</b> Introduction to the neural and endocrine processes underlying brain function and behavior. Lecture only. Prerequisite: PSY 213.	Fall, Spring

PSY 495	Research Project I (4) Research proposal in topics of psychology. Prerequisite: PSY 213 and BEH 385.	(As requested)
PSY 496	Research Project II (4) Conducting of the research proposed in PSY 495. Prerequisite: PSY 213 and PSY 495.	(As requested)
PSY 498	Grief and Loss Counseling (1) A seminar presentation of approaches to grief and loss and its effect on individuals and families. Pass/Fail. Prerequisite: PSY 213.	Spring

## PUBLIC ADMINISTRATION (see Political Science)

## PUBLIC HEALTH

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, health behavior change, disease prevention, health education methods, research methods, ethics, management, and leadership. This major prepares students for relevant professional certifications through the National Commission on Health Education Credentialing (CHES) and the National Board of Public Health (CPH) as well as for further graduate study in public health, health management, social sciences, medicine, or other allied health professions.

### TRADITIONAL PROGRAM REQUIREMENTS

#### Public Health Major (69-87 units) BS

##### Lower Division Requirements

ALH 101	Introduction to Allied Health Professions
ANT 225	Cultural Anthropology
BIO 146	General Biology I with Lab
CHE 115	General Chemistry I with Lab
HSC 101	Introduction to Public Health
HSC 104	Survey of U.S. Healthcare Delivery
HSC 210	Ethics in Healthcare
INH 101	Introduction to International Health
KIN 212	First Aid and Safety
PSY 213	General Psychology
STA 144	Introduction to Statistics

##### Upper Division Requirements

HSC 300	Health Communication
HSC 305	Epidemiology
HSC 306	Pathophysiology for Public Health
HSC 312	Introduction to Environmental and Occupational Health
HSC 316	Public Health Promotion, Disease Prevention and Intervention
HSC 420	Healthcare Policy
HSC 460	Planning and Evaluating Health Education Programs
HSC 480	Research Methods
HSC 499	Health Science Capstone
ICS 430	Intercultural Communication
INH 300	Outbreak and Emergency Preparation and Response
KIN 302	Contemporary Health Issues
NFS 310	Community Nutrition

##### Optional Concentration Courses (15-18 units)

Students can choose to earn a concentration in the following areas: Global Health, Healthcare Administration, Health Education.

##### Global Health (18 units)

ALH 301	Global Health Engagement Seminar
ALH 401	Global Health Engagement Practicum
INH 305	Maternal and Child Health in Developing Countries
INH 320	Population health and Family Planning
NFS 220	Food, Culture and Society
POL 250	Introduction to International Politics

## Academic Programs

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### Healthcare Administration (18 units)

ACC	250	Principles of Accounting I
BUS	218	Macroeconomics
BUS	358	Business Law
BUS	463	Business and Organizational Management
HCA	330	Health Information Systems
HCA	360	Finance and Reimbursement in Healthcare

### Health Education (15 units)

ALH	495	Clinical Practicum
BUS	463	Business and Organizational Management
HSC	301	Principles of Health Education
HSC	410	Health Behavior Change
NFS	200	Lifecycle Nutrition with Lab

## PUBLIC RELATIONS

The Public Relations major seeks to develop students' skills in professional-level public relations work, including social media, event planning, media relations, campaigns for nonprofits and businesses, public relations strategies, and public relations writing.

### TRADITIONAL PROGRAM REQUIREMENTS

#### Public Relations Major (45 units) BA

##### 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
JRN	349	Editing for Print and Online Media
JRN	397	Publication Seminar
PRL	300	Public Relations
PRL	302	Public Relations Writing
PRL	402	Public Relations Research and Campaigns

##### Concentration Courses (12 units)

Students must complete all requirements in one of the following concentrations:

Integrated Marketing Communication; International Public Relations; Media Relations and Writing; New Media; Strategic Communication and Planning

##### Integrated Marketing Communication

COM	425	Organizational Communication
JRN	400	Special Topics in Journalism or JRN 450 Internship in Journalism
MKT	333	Principles of Marketing
MKT	353	Integrated Marketing Communication

##### International Public Relations

ICS	305	Global Perspectives
ICS	430	Intercultural Communication
JRN	400	Special Topics in Journalism or JRN 450 Internship in Journalism
PRL	430	International Public Relations

##### Media Relations and Writing

JRN	315	News Reporting
JRN	400	Special Topics in Journalism or JRN 450 Internship in Journalism
JRN	440	Writing Columns & Blogs
JRN	460	Investigative Reporting

### New Media

JRN 360	Audio Newsgathering
JRN 370	Social Media Strategies
JRN 380	Video Newsgathering
JRN 400	Special Topics in Journalism or JRN 450 Internship in Journalism

### Strategic Communication and Planning

COM 308	Interpersonal Communication
COM 425	Organizational Communication
JRN 370	Social Media Strategies
JRN 400	Special Topics in Journalism or JRN 450 Internship in Journalism

## Public Relations Minor (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 349	Editing for Print and Online Media
PRL 300	Public Relations
PRL 302	Public Relations Writing
PRL 402	Public Relations Research and Campaigns

## Public Relations Course Descriptions

PRL 202	Introduction to Public Relations (3)	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.		
PRL 205	Historical and Theoretical Foundations of Public Relations (3)	Online and Professional Studies
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.		
PRL 300	Public Relations (3) I, M	Fall, Spring
Principles, history and professional practice of public relations and the writing and production of materials for special events, newsletters, and brochures.		
PRL 302	Public Relations Writing (3)	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.		
PRL 310	Public Relations Issues and Crisis Management (3)	Online and Professional Studies
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.		
PRL 320	Business Literacy for Public Relations Professionals (3)	Online and Professional Studies
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.		
PRL 402	Public Relations Research and Campaigns (3)	Spring
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.		
PRL 430	Principles of International Public Relations (3)	Online and Professional Studies
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.		

## RELIGION AND BEHAVIOR

### Religion and Behavior Certificate

The Religion and Behavior 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 religion and behavior designed for students with a major outside the School of Behavioral Sciences who wish to supplement their academic interest or goals.

#### Certificate Requirements (12 units)

ANT 460	Religion and Culture
BEH 333	Epistemology and Worldview
PSY 459	Dynamics of Religious Experience
SOC 349	Sociology of Religion

## RUSSIAN

### Russian Course Descriptions

RUS 115	Russian I (3) M	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.		
RUS 125	Russian II (3) M	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. Prerequisite: RUS 115.		

## SCIENCE

### Science Course Descriptions

SCI 120	Marine Science with Lab (4)	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. Lecture (3 units) and required laboratory (1 unit). Lab fee: See the Financial Information Section.		
SCI 200	Special Topics (3)	As offered
Concentration upon a specific topic in the field of Science. Topic varies for different semesters. May be taken multiple times with change in topic.		
SCI 200L	Special Topics Lab (1)	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. May be taken multiple times with change in topic.		
SCI 303	Science and Faith (3) I	As offered
A study of the various different models of integrating science and religion. A study of the history and recent developments, philosophies, and concepts in both science and theology. Focus is placed in particular on Christian world views. Prerequisites: previous coursework in Science and Christian Studies.		
SCI 303L	Science and Faith Lab (1)	As offered
A laboratory experience designed to enhance the specific scientific discoveries discussed in lecture. Pre- or Co- requisite: SCI 303.		

SCI 311	<b>Genetic Engineering and Society (4 units) I</b> 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. Lecture (3 units) and required seminar (1 unit). Previous coursework in some of the following disciplines is recommended: science, religion, philosophy, ethics, and behavioral science. Prerequisite: sophomore status.	As offered
SCI 323	<b>History and Philosophy of Science (3) I, M</b> 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 world views. Emphasis is placed on the mathematical and physical sciences.	As offered
SCI 401	<b>Science and Technology: Its Impact Upon Society (3) I</b> 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.	As offered
SCI 412	<b>Topics Marine Science (1-4)</b> 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. Prerequisite: BIO 148.	As offered

## Social Science Course Descriptions

SSC 394	<b>Social Science in the Classroom (3) I,M</b> 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.	As offered
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## SINGLE SUBJECT MATTER PROGRAM (see Education)

## SOCIAL WORK

### Social Work Certificate

The Social Work 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 social work designed for students who wish to supplement their academic interest or goals.

#### Certificate Requirements (12 units)

SWK 300	Introduction to Social Work
SWK 320	Human Behavior and the Social Environment I
SWK 321	Human Behavior and the Social Environment II
SWK 330	Social Work Issues and Policy

## Social Work Course Descriptions

SWK 300	<b>Introduction to Social Work (3) M</b> An introduction to the knowledge, values, ethics, skills, systems, and settings of generalist social work practice. An historic overview of political, economical, and cultural factors that influence the profession. This course is a prerequisite for all other courses in Social Work.	Fall
SWK 320	<b>Human Behavior and the Social Environment I (3) M</b> A study from a systems perspective of how the interaction of cultural, biological, psychological, social, and environmental influences promote or deter the development of individuals from birth to adolescence. Attention is given to the range of social systems in which people live. The impact of social and economic forces, oppression, gender, and class on human adaptation will be examined as they relate to client situations.	Fall
SWK 321	<b>Human Behavior and the Social Environment II (3) M</b> A study from a systems perspective of how the interaction of cultural, biological, psychological, social, and environmental influences promote or deter the development of individuals from young adulthood through old age to death. Attention is given to the range of social systems in which people live. The impact of social and economic forces, oppression, gender, and class on human adaptation will be examined as they relate to client situations. Prerequisite: SWK 300.	Spring

## Academic Programs

SWK 330	<b>Social Work Issues and Policy (3)</b> A basic introduction to social policy, which will include historic and current trends of social welfare services. Emphasis will be given to the role of social policy in helping or deterring people in the maintenance or attainment of well-being, and the impact of social policy on social work practice. Policy formation and analysis in the context of American political process will be examined. Specific policy areas to be addressed include: income maintenance, housing, health, child welfare, aging, and economic and social justice. Prerequisite: SWK 300.	Spring
SWK 399	<b>Independent Study (1-3)</b> An opportunity for students who have demonstrated the ability to do independent work to pursue in depth a topic of particular interest.	
SWK 400	<b>Special Topics in Social Work (3)</b> An in-depth seminar on a selected topic within the Behavioral Sciences. Course is repeatable for credit with a change in topic.	As offered

## SOCIOLOGY

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 PROGRAM REQUIREMENTS

#### Sociology Major (47 units) BA

##### Lower Division Requirements

SOC 213 Introduction to Sociology

##### Methodology Requirements

BEH 255 Foundational Skills in Behavioral Sciences I

BEH 256 Foundational Skills in Behavioral Sciences II

BEH 333 Epistemology and Worldview

BEH 383 Statistical Techniques in Behavioral Science with SPSS

BEH 385 Methods of Research with SPSS

##### Upper Division Requirements

SOC 323 Marriage and the Family

SOC 335 Social Problems

SOC 337 Deviant Behavior

SOC 338 Group Dynamics and Social Movements

SOC 345 Sociology of Diversity

SOC 347 Sociology of Gender

SOC 348 Sociology of Aging

SOC 355 Social Stratification

SOC 381 Social Theory

##### Optional Concentrations\* (12 units)

Students can earn a concentration in the following areas by completing the certificate requirements\*\*: Anthropology, Christian Behavioral Science, Cognitive Psychology, Counseling Ministry, Diversity, Industrial and Organizational Psychology, Life Span Development, Psychology, Religion and Behavior, or Social Work.

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

\*\*Certificate requirements are located in the Academic Program section of the catalog by certificate title.

#### Sociology Minor (21 units)

##### General Prerequisites

SOC 213 Introduction to Sociology

##### Upper Division Requirements

SOC 323 Marriage and the Family

SOC 335 Social Problems

SOC 381 Social Theory

Twelve (12) units of Upper Division Sociology\*

\*Minor students may use elective units toward a Departmental Concentration.



## Sociology Course Descriptions

SOC 200	<b>Special Topics in Sociology (3)</b> An in-depth seminar on a selected topic within the Behavioral Sciences. Course is repeatable for credit with a change in topic. Prerequisite: BEH 100 or SOC 213.	As offered
SOC 213	<b>Introduction to Sociology (3) M</b> 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. This course or BEH 100 is a prerequisite for courses in Sociology.	Fall, Spring
SOC 301	<b>Self and Society (3)</b> 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. The will apply that perspective to a range of topics generally concerned with how we influence others and are, in turn, influenced by them.	Online and Professional Studies
SOC 323	<b>Marriage and the Family (3) I, M</b> A basic study of marital and family relationships, the social and psychological significance of the family, the family in transition, adjustments in marriage, and the divorce problem. Comparison of American cultural and religious marital forms are included.	Fall, Spring
SOC 335	<b>Social Problems (3)</b> 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. Prerequisite: BEH 100 or SOC 213.	Spring
SOC 337	<b>Deviant Behavior (3)</b> An overview of causes, implications and social patterns of deviant behavior. Included subjects are role conflict, normlessness, alienation, group deviance and social theory in understanding and correcting social problems that result from deviance. Prerequisite: BEH 100 or SOC 213.	Fall
SOC 338	<b>Group Dynamics and Social Movements (3)</b> This course is a basic study of group interaction and its effects on the individual. This course will also examine the influence of the individual on the group. It will explore the psychological and sociological interactions and relationships, power structures, and conformity in the context of social movements and sub-groups. Prerequisite: BEH 100 or SOC 213.	Spring
SOC 440	<b>Internship in Sociology (3)</b> This course is practical application of basic sociological principles in community or campus responsibilities under professional supervision. Pass/Fail. Prerequisites: SOC 213 and permission of the Dean of the School of Behavioral Science.	As offered
SOC 345	<b>Race and Ethnicity (3)</b> 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. Prerequisites BEH 100 or SOC 213.	Spring
SOC 347	<b>Sociology of Gender (3)</b> 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.	Spring
SOC 348	<b>Sociology of Aging (3)</b> 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.	Spring
SOC 349	<b>Sociology of Religion (3)</b> As social scientists we explore the separation of the cultural constructs of religion and theology. We will apply social science theories and perspectives to the understanding the human and social side of religion. Investigation of the social side of religion involves examining the organization of religious groups, their cultural settings, their political and economic correlates, and their capabilities as agents of social change. In general, we examine the interrelations between religions and other institutions in society. In addition, we will explore the intersections between the secular social construct of religion, the cultural-Christian expression of religion, and the Biblical model of kinship relations, community, inheritance, and the appropriate relationship of these elements.	Spring (even years)

## Academic Programs

SOC 352	<b>Sociology of Health and Illness</b> 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.	Online and Professional Studies
SOC 355	<b>Social Stratification (3)</b> 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. Prerequisites BEH 100 or SOC 213.	Fall
SOC 381	<b>Social Theory (3)</b> The theoretical constructs of Sociology are examined in light of the historical development of the discipline. Prerequisite: BEH 100 or SOC 213.	Fall
SOC 399	<b>Independent Study (3)</b> An opportunity for students who have demonstrated the ability to do independent work to pursue in depth a topic of particular interest. Prerequisite: BEH 100 or SOC 213.	
SOC 400	<b>Special Topics in Sociology (3)</b> An in-depth seminar on a selected topic within the Behavioral Sciences. Course is repeatable for credit with a change in topic. Prerequisite: BEH 100 or SOC 213.	As offered

## SOFTWARE ENGINEERING

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 PROGRAM REQUIREMENTS

#### Software Engineering Degree (124 units) BSSE

##### 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.

##### Math and Science Unit Requirement

<sup>†</sup>A minimum of thirty two (32) units of Math or Science coursework is required for the degree. Courses in the degree designated with a '†' meet this requirement.

##### Lower Division Core Engineering Requirements (15 units)

EGR 101	Engineering from a Christian Worldview OR EGR 301*
EGR 102	Introduction to Engineering Design
EGR 103	Engineering Service I OR EGR 303*
EGR 121	Introduction to Computer Programming in C++
EGR 122	Visualization Languages I
EGR 192	Engineering Seminar I OR EGR 392*
EGR 202	Worldview Reflection I**

\*Junior/Senior transfer students will complete EGR 301, 303, and 392. All other students will complete EGR 102, 103, and 192.

\*\* Successful completion of EGR 202 is required for entrance into the Engineering degree program

##### Upper Division Core Engineering Requirements (14 units)

EGR 302	Engineering Design and Documentation
EGR 304	Leadership Cohort
EGR 305	Engineering Statistics <sup>†</sup>
EGR 306	Internship Preparation
EGR 390	Internship
EGR 401	Capstone Design
EGR 402	Capstone Design Presentation
EGR 404	Worldview Reflection II
EGR 405	Internship Report and Presentation
EGR 406	Senior Portfolio

**Math and Science Requirements (30 units)**

CSC	312	Algorithms <sup>†</sup>
EGR	182	Introductory Mathematics for Engineering Applications <sup>†</sup>
EGR	225	Discrete Structures I <sup>†</sup>
MAT	245	Analytical Geometry and Calculus I <sup>†</sup>
MAT	255	Analytical Geometry and Calculus II <sup>†</sup>
PHY	201	Physics for Engineers I with Lab <sup>†</sup>
PHY	203	Physics for Engineers II with Lab <sup>†</sup>
Four (4) units of approved science <sup>†</sup>		

**Lower Division Software Engineering Requirements (12 units)**

EGR	222	Software Engineering
EGR	226	Operating Systems and Networking
EGR	221	Data Structures
EGR	223	Software Engineering Approach to Human Computer Interaction

**Upper Division Software Engineering Requirements (33 units)**

EGR	320	Software Quality Assurance and Testing
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	423	Mobile Application Development
EGR	424	Web Application Development
EGR	425	Real Time and Embedded Development
EGR	427	Software Project Management

**Cross Cultural Experience Requirement (0 units)**

Engineering students are required to complete an approved cross cultural experience. Course credit is not required. A list of approved experiences are available in the College of Engineering.

**Software Engineering Minor (20 units)****Prerequisite Course**

CIS	268	Computer Programming Languages or EGR 121
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**Lower Division Requirements**

EGR	221	Data Structures
EGR	222	Software Engineering

**Upper Division Requirements**

EGR	325	Database Systems
EGR	327	Software Construction
EGR	491	Research Project (1 unit)

**Upper Division Software Engineering Elective Requirement**

Complete one (1) of the following:

EGR	423	Mobile Application Development
EGR	424	Web Application Development
EGR	425	Real Time and Embedded Development

**Upper Division Elective Requirement**

Complete an additional three (3) units of upper division software engineering coursework from the following: EGR 320, 323, 324, 326, 329, 423, 424, 425, 427

## **SPANISH (also see Spanish for Healthcare Professions)**

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.

### **TRADITIONAL PROGRAM REQUIREMENTS**

#### **Spanish Major (36 units) BA**

##### **Prerequisites**

SPA 115	Elementary Spanish I
SPA 125	Elementary Spanish II

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

SPA 213	Intermediate Spanish I*
SPA 223	Intermediate Spanish II*
SPA 233	Intermediate Conversational Spanish*

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

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

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

Three (3) additional upper division units in Spanish

##### **Optional Concentration (12 units\*)**

Students can earn an optional concentration in Hispanic Literature and Film by completing the Hispanic Literature and Film certificate requirements.

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

#### **Spanish Minor (18 units)**

##### **Prerequisites**

SPA 115	Elementary Spanish I
SPA 125	Elementary Spanish II

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

SPA 213	Intermediate Spanish I*
SPA 223	Intermediate Spanish II*

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

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

SPA 315	Spanish Oral Traditions
SPA 325	Spanish Grammar in Context and Composition

Six (6) additional upper division units in Spanish

### **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.

##### **Certificate Requirements**

SPA 213	Intermediate Spanish I*
SPA 223	Intermediate Spanish II*
SPA 325	Spanish Grammar in Context and Composition

Three (3) additional upper division units in Spanish

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

## Hispanic Literature and Film Certificate

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

### Certificate Requirements

#### Upper Division Requirements (6 units)

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

#### Upper Division Elective Requirements (6 units)

Complete six (6) units from the following:

SPA 305	Conversational Spanish for the Professions
SPA 315	Spanish Oral Traditions
SPA 335	Spanish for the Professions
SPA 400	Special Topics
SPA 450	Research in Literature

## Spanish Course Descriptions

SPA 110	<b>Spanish for Health Care Professionals I (3) I,M</b> This course is designed to introduce the non-native Spanish speaking nursing student to basic vocabulary, phrases, and cultural considerations necessary to communicate effectively with Spanish speakers in a healthcare setting. The course will prepare nursing 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.	Fall, Spring
SPA 115	<b>Elementary Spanish I (3) M</b> 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.	Fall, Spring
SPA 120	<b>Spanish for Health Care Professionals II (3) I,M</b> This course is designed for students in the nursing program who have learned basic Spanish phrases and vocabulary relevant to healthcare professions. The course will afford nursing 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. Prerequisite: SPA 110 or 115.	Fall, Spring
SPA 125	<b>Elementary Spanish II (3) M</b> 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. Prerequisite: SPA 110 or 115.	Fall, Spring
SPA 213	<b>Intermediate Spanish I (3) M</b> A review of Spanish grammar with special emphasis upon idiomatic language and verb forms. Conversation, translation, composition, and collateral reading of modern Spanish prose. Prerequisite: SPA 120, 125, or equivalent.	Fall, Spring
SPA 223	<b>Intermediate Spanish II (3) M</b> 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. Prerequisite: SPA 120, 125 or equivalent.	Fall, Spring
SPA 233	<b>Intermediate Conversational Spanish (3) M</b> This course takes a functional, integrated skills approach for intermediate students of Spanish. The course is a two-skills communicative based program (oral /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. Prerequisite: SPA 120, 125 or equivalent.	Fall, Spring

## Academic Programs

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SPA 305	<b>Conversational Spanish for the Professions (3) M</b> 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. Prerequisite: SPA 120 or 125.	Spring (even years)
SPA 315	<b>Oral Traditions (3) M</b> This course explores the use of myths, folk tales, and fairy tales present in twentieth and twenty-first century Spanish literature, while 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 modern Spanish literary works within their socio-historical context. Prerequisite: SPA 213, 223, 233, or 305.	Fall, Spring
SPA 324	<b>Iberian Civilization and Culture (3) M</b> 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. Prerequisite: SPA 223 or 233.	Spring (even years)
SPA 325	<b>Spanish Grammar in Context and Composition (3) M</b> 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. Prerequisite: SPA 223 or 233.	Fall, Spring
SPA 330	<b>Hispanic Literature and Film (3)</b> 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. Prerequisite: SPA 213, 223, or 233.	Fall (even years)
SPA 335	<b>Spanish in the Professions (3) M</b> Study of the application of linguistic skills in a professional setting. Prerequisite: SPA 213, 223, 233, or 305.	Spring (odd years)
SPA 337	<b>Advanced Spanish for Healthcare Professions (3)</b> 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. Prerequisite: SPA 213, 223, or 233.	Fall (odd years)
SPA 339	<b>Modern Mexican Literature and Film (3)</b> 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. Prerequisite: SPA 213, 223, or 233.	Fall (odd years)
SPA 345	<b>Survey of Iberian Literature I (3) M</b> Covers multiple genres of literature produced in Spain from ancient times to the 16th century. Prerequisite: SPA 223 or 233.	Spring (odd years)
SPA 365	<b>Survey of Iberian Literature II (3) M</b> 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. Prerequisite: SPA 223 or 233.	Fall (odd years)
SPA 399	<b>Independent Study (1-3) M</b> An opportunity for students who have demonstrated the ability to do independent work to pursue in depth a topic of particular interest. Other	
SPA 400	<b>Special Topics (1-3) M</b> Focuses on a different topic each time offered. May be repeated with change in subject matter.	As offered

SPA 414	<b>Latin American Literature I (3) M</b> 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. Prerequisite: SPA 223 or 233.	Spring (even years)
SPA 424	<b>Latin American Literature II (3) M</b> 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. Prerequisite: SPA 223 or 233.	Fall (even years)
SPA 450	<b>Research in Literature (3) M</b> This course reviews and organizes the linguistic, literary, and cultural knowledge acquired by 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 research papers, essays, literary analysis and critical theories. Prerequisite: SPA 223.	Fall (odd years)
SPA 465	<b>Spanish-English Translation and Interpretation (3)</b> 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. Prerequisite: SPA 213, 223, or 233.	Spring (odd years)
SPA 499	<b>Capstone (3) M</b> 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. Prerequisite: Senior status.	Fall, Spring

## SPANISH FOR HEALTHCARE PROFESSIONS

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 PROGRAM REQUIREMENTS

#### Spanish for Healthcare Professions Minor (18 units)

##### Prerequisites

SPA 110	Spanish for Health Care Professionals I OR SPA 115 Elementary Spanish I
SPA 120	Spanish for Health Care Professionals II OR SPA 125 Elementary Spanish II

##### Lower Division Requirements

SPA 213	Intermediate Spanish I*
SPA 223	Intermediate Spanish II*

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

##### 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

## SPORT MANAGEMENT

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 CBU master's programs in business or in Kinesiology with an emphasis in sport management.

### Sport Management Minor (25 units)

ACC	250	Principles of Accounting
BUS	218	Macroeconomics
BUS	237	Management Based on Biblical Principles
KIN	212	First Aid and Safety
KIN	301	Sport Coaching and Officiating
KIN	303	Foundations of Kinesiology
KIN	423	Organization and Administration of Physical Education and Sport
KIN	454	Behavioral Aspects of Sport
MKT	333	Principles of Marketing

## STATISTICS (also see Applied Statistical Analysis; Applied Statistics)

### Statistics Course Descriptions

STA 144	Introduction to Statistics (3)	Fall, Spring
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. Prerequisite: MAT 115 or sufficient SAT, ACT or math placement exam scores and appropriate high school mathematics background.		
STA 205	Applied Linear Regression (3)	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. Prerequisite: STA 144.		
STA 210	Statistical Computing I (3)	Fall (odd years)
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. Prerequisites: CIS 268 and STA 144.		
STA 211	Statistical Computing II (3)	Spring (even years)
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. Prerequisites; STA 210, MAT 255 and 303.		
STA 303	Research and Experimental Design (3)	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. Prerequisite: STA 144.		
STA 305	Sampling and Survey Methodology (3)	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.		



STA 310	<b>Mathematical Statistics I (3)</b> 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. Prerequisite: MAT 353.	Fall (even years)
STA 311	<b>Mathematical Statistics II (3)</b> 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. Prerequisites: MAT 303, 343, and STA 310.	Spring (odd years)
STA 320	<b>Financial Mathematics I (3)</b> 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. Prerequisites: MAT 245 and STA 144.	Fall (even years)
STA 321	<b>Financial Mathematics II (3)</b> 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. Prerequisite: STA 320.	Spring (odd years)
STA 399	<b>Independent Study (1-3)</b> This course of study is offered to afford the superior student an opportunity to explore independently subject matter not already offered in the catalog. May be repeated for a maximum of three (3) units.	
STA 400	<b>Special Topics (1-3)</b> A seminar course offered upon sufficient demand covering appropriate of different concentrations each time. This course may be repeated with different subject matter. Student involvement in selection of topics is strongly encouraged. May be repeated for a maximum of six (6) units.	As offered
STA 470	<b>Seminar in Financial Mathematics (2)</b> An overview of topics from financial mathematics including interest theory and financial economics. May be repeated one time for credit. Prerequisite: STA 321.	Fall
STA 480	<b>Seminar in Probability and Statistics (3)</b> 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. Prerequisite: MAT 353.	Spring
STA 499	<b>Capstone (3) I</b> 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. Prerequisite: Permission of the Department Chair.	Spring

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

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

#### 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

## THEATRE

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 PROGRAM REQUIREMENTS

#### Theatre Major (51-54 units) BA

##### 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)

THE 221	Techniques in Pre-Visualization of Design
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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)

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

Complete three (3) additional units from the following: THE 313, 345, 431, 432, 433, 434, 435, 441

**Theatre Minor (27 units)****Lower Division Requirements**

- THE 111 Fundamentals of Stagecraft  
 THE 183 Acting I: Fundamentals of Acting  
 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 Requirement**

Twelve (12) upper division units in Theatre\*

\*A maximum of three (3) units from THE 363, 364, 463, and 464 may be applied to the minor

**Elective Requirements**

Three (3) additional lower or upper division units in Theatre\*

**Theatre Course Descriptions**

- |         |  |              |
|---------|--|--------------|
| THE 111 | Fundamentals of Stagecraft (3)<br>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.  | Fall, Spring |
| THE 113 | Makeup for Stage and Screen (2)<br>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. | Fall, Spring |
| THE 123 | Voice and Diction for the Stage (3)<br>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.   | Spring       |
| THE 133 | Acting for Non-Majors (3) M<br>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.   | Fall, Spring |
| THE 142 | Introduction to Theatre (3) I, M<br>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.  | Fall         |
| THE 163 | Production Practicum: Performance (1-3) I, M<br>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. May be taken for variable credit. Multiple sections will be offered, and students will enroll in the section assigned to their show.   | Fall         |
| THE 164 | Production Practicum: Technical (1-3) I, M<br>Practical hands-on training in the areas of scenic construction, stage lighting, and sound production, costume construction and backstage crew assignments. May be taken for variable credit.  | Fall         |

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THE 183	<b>Acting I: Fundamentals of Acting (3) M</b> 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. Prerequisite: Theatre Major or Minor.	Fall
THE 200	<b>Special Topics in Theatre (1-3)</b> Concentration upon a specific topic in the field of Theatre. Topic varies for different semesters. May be taken multiple times with change in topic.	As offered
THE 211	<b>Introduction to Stage Design and Management (3)</b> 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.	Spring
THE 221	<b>Techniques in Pre-Visualization of Design (3)</b> 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.	Fall (odd years)
THE 223	<b>Movement for the Stage (3) M</b> 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.	Fall
THE 232	<b>Play Structure and Analysis (3) I, M</b> 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.	Spring
THE 230	<b>Acting for the Camera (3)</b> 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.	As offered
THE 233	<b>Introduction to Musical Theatre Dance (3)</b> 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.	Fall (odd years)
THE 263	<b>Production Practicum: Performance (1-3) I, M</b> 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. May be taken for variable credit.	Spring
THE 264	<b>Production Practicum: Technical (1-3)</b> Practical hands-on training in the areas of scenic construction, stage lighting, and sound production, costume construction and backstage crew assignments. May be taken for variable credit.	Spring
THE 283	<b>Acting II: Scene Study (3) I, M</b> 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.	Fall

THE 312	<b>Drama in the Classroom (3) M</b> 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.	Fall, Spring
THE 313	<b>Advanced Makeup (3) M</b> 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.	As offered
THE 330	<b>Advanced Acting for the Camera (3)</b> 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. Prerequisite: THE 230.	As offered
THE 332	<b>Theatre History I (3) I, M</b> 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.	Fall
THE 333	<b>Advanced Musical Theatre Dance (3)</b> 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. Prerequisite THE 233.	As offered
THE 340	<b>Drama in the Church (3) I, M</b> Designed for pastors, teachers, youth leaders, and church workers, this class explores various ways that drama can be utilized in the church. Class work includes hands-on experience in using church drama with children and youth, drama for the worship service, and how to start a drama program at your local church.	Spring (odd years)
THE 342	<b>Theatre History II (3) I, M</b> 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. Prerequisite: THE 332.	Spring
THE 344	<b>Celebration Drama Team (1-3)</b> Practical experience in rehearsal and performance as part of Celebration! Drama Team. Students may represent the University, traveling to schools and churches presenting a variety of dramatic material, and participating in an International Service Project trip. The course is by audition only and requires application to ISP and participation in ISP training. May be repeated for a total of eight (8) units.	Fall, Spring
THE 345	<b>Applied Theatre (3) M</b> 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. May be repeated for a total of six (6) units. Prerequisite: THE 283.	As Offered
THE 353	<b>Directing I (3) I, M</b> 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. Prerequisites: THE 183 and 232.	Spring
THE 363	<b>Production Practicum: Performance (1-3) I, M</b> 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. May be taken for variable credit.	Fall
THE 364	<b>Production Practicum: Technical (1-3)</b> 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. May be taken for variable credit.	Fall

## Academic Programs

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THE 383	<b>Acting III: Acting Shakespeare (3) M</b> 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. Prerequisite: THE 183 and 283.	Spring
THE 399	<b>Independent Study (3)</b> An opportunity for students who have demonstrated the ability to do independent work to pursue in depth a topic of particular interest.	
THE 400	<b>Special Topics in Theatre (1-3)</b> Concentration upon a specific topic in the field of Theatre. Topic varies for different semesters. May be taken multiple times with change in topic.	As offered
THE 424	<b>Scriptwriting (3) I</b> 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. Prerequisite: THE 232.	Spring (even years)
THE 431	<b>Advanced Design: Lighting (3)</b> 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. Prerequisites: THE 111 and 211.	Fall (even years)
THE 432	<b>Advanced Design: Scenery (3)</b> 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. Prerequisites: THE 111 and 211.	Spring (odd years)
THE 433	<b>Advanced Design: Sound (3)</b> 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. Prerequisites: THE 111 and 211.	Fall (odd years)
THE 434	<b>Advanced Design: Costume (3)</b> This course will explore techniques of period fashion research, character analysis and costume construction methods in the creation of costume designs for the stage. Prerequisites: THE 111 and 211.	Spring (even years)
THE 435	<b>Moving Light Programming (3)</b> A practical study of intelligent fixtures, palette based control consoles, and design principles for employing moving lights in theatre, concert, worship, and entertainment events.	As Offered
THE 441	<b>Auditioning (3) M</b> 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. Prerequisite: THE 183, 283 and 383.	Fall (even years)
THE 450	<b>Internship in Theatre (1-3)</b> 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. Prerequisite: Permission of the Department Chair.	Fall, Spring
THE 451	<b>Internship in Theatre (1-3)</b> 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. Prerequisite: THE 450 and permission of the Department Chair.	Fall, Spring

THE 463	<b>Production Practicum: Performance (1-3) I, M</b> 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. May be taken for variable credit.	Spring
THE 464	<b>Production Practicum: Technical (1-3)</b> 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. May be taken for variable credit.	Spring
THE 483	<b>Styles Acting IV: Departures from Realism (3) M</b> 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. Prerequisites: THE 183, 283, and 383.	Fall
THE 498	<b>Capstone Portfolio (1)</b> 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. Pass/Fail.	Fall, Spring

## VISUAL ARTS

The Visual Arts major provides students with an understanding of and appreciation for traditional and modern expressions of the visual, and train in incorporating appropriate technologies. Students may seek careers in graphic design, education, and gallery supervision.

### TRADITIONAL PROGRAM REQUIREMENTS

#### Visual Arts Major (60-61 units) BA

##### Lower Division Requirements

ART 201	Principles of Design and Color
ART 204	Basic Drawing
ART 241	Global History of Art: Ancient to Medieval
ART 242	History of Art: Renaissance to Contemporary
DES 110	Design Thought Foundations I
DES 112	Design Thought Foundations II

##### Lower Division Studio Elective Requirement

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

ART 203	Beginning Printmaking
ART 207	Beginning Watercolor Painting
ART 225	Fundamentals of Sculpture
ART 232	Beginning Ceramics
ART 283	Beginning Painting

##### Upper Division Requirements

ART 300	Advanced Art
ART 301	Color, Theory and Application
ART 326	Contemporary Art Issues
ART 351	Museum Studies
ART 430	Art and the Bible
ART 499	Senior Exhibit

##### Upper Division Art History/Theory Elective Requirements

Complete six (6) units from the following: ART 345, 346, 347, 361, 371, 381, 385, 412, 415, 491

##### Upper Division Studio Art Elective Requirements

Complete twelve (12) units from the following: ART 302, 304, 305, 314, 315, 316, 323, 353, 383, 400, 405, 414, 432, 433, 450, 498

## Academic Programs

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### Visual Arts Minor (24 units)

#### Lower Division Requirements

- ART 201 Principles of Color and Design  
ART 204 Basic Drawing

#### Upper Division Requirement

- ART 351 Museum Studies

#### Upper Division Art History/Theory Elective Requirements

Complete six (6) units from the following: ART 345, 346, 347, 361, 371, 381, 385, 412, 415, 430, 491

#### Upper Division Studio Art Elective Requirements

Complete eight (8) units from the following: ART 300, 301, 302, 304, 305, 315, 316, 323, 353, 383, 400, 405, 414, 432, 433

### Visual Arts Course Descriptions

- |         |   |                     |
|---------|---|---------------------|
| ART 200 | <b>Special Problems in Art (1-3) M</b><br>Specialized instruction in various media. For the advanced art student capable of exploring a personal direction in his/her creative work. May be repeated twice for credit with change of topic.   | <b>As offered</b>   |
| ART 201 | <b>Principles of Design and Color (4) M</b><br>An introduction to the principles of two-dimensional design and color theory and their use as tools for effective visual communication.  | <b>Fall, Spring</b> |
| ART 202 | <b>Art Appreciation (3) M</b><br>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. | <b>Fall, Spring</b> |
| ART 203 | <b>Beginning Print Making (4)</b><br>This is a studio Course designed to facilitate the creation of original prints using a variety of printmaking techniques. Methods such as monotype, relief (woodcut, linoleum), and intaglio will be explored. Additional Lab Fee. Prerequisite: ART 201 and ART 204.  | <b>Fall</b>         |
| ART 204 | <b>Basic Drawing (3) M</b><br>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.  | <b>Fall, Spring</b> |
| ART 207 | <b>Beginning Watercolor (4)</b><br>This is a studio course designed to introduce the novice art student to the art of watercolor painting. The basic quality of transparency will be explored in tandem representational exercises.   | <b>Fall, Spring</b> |
| ART 225 | <b>Fundamentals of Sculpture (4) M</b><br>Basic elements of sculpture. Creating forms in clay, plaster, paper and multi-media techniques.   | <b>Fall</b>         |
| ART 226 | <b>Intermediate Sculpture (3)</b><br>Similar to 225. Emphasis on clay hand building and modeling. Some work in found objects and multi-media techniques.  | <b>Spring</b>       |
| ART 232 | <b>Beginning Ceramics (3) M</b><br>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.   | <b>Fall, Spring</b> |
| ART 241 | <b>Global History of Art: Ancient to Medieval (3) M</b><br>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.   | <b>Fall</b>         |
| ART 242 | <b>History of Art: Renaissance to Contemporary (3) M</b><br>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.   | <b>Spring</b>       |



ART 283	<b>Painting I (4) M</b> Projects introduce traditional painting methods in oils or acrylic paints. Applied studio work, slide lectures, group discussions, and field trips are possible. May be repeated one time for credit. Prerequisite: ART 201 or ART 204.	Fall
ART 300	<b>Advanced Art (4) M</b> An essential course for the serious art student. Projects in painting, drawing and digital media. Emphasis on developing skills and concepts. Section (a), emphasis in painting and drawing; section (b), emphasis in digital media using the Macintosh platform; section (c), Senior Exhibit preparation. Section (c) must be taken during student's graduating semester. Prerequisite: ART 201 or 204.	Fall, Spring
ART 301	<b>Color, Theory and Application (4)</b> This is a combination studio/lecture course that focuses exclusively on issues of color, it's aesthetic, symbolic and psychological dimensions, as related to visual expression. This content is applicable to both fine art and design-related fields. Prerequisite: ART 201.	Spring
ART 302	<b>Drawing: Portrait (4)</b> Portrait drawing is designed to introduce the art of representational drawing to the beginner. We will incorporate research of artists and artwork online, student models and photography referencing materials to learn more about the portrait process. Prerequisite: ART 204.	Fall
ART 304	<b>Drawing: Perspective (4)</b> This course concentrates on developing a mastery of the two principle means for creating the illusion of space on a two-dimensional surface: aerial and linear perspective. The formal expression of these will be enhanced by the introduction of wet media (wash) and charcoal. Prerequisite: ART 204.	Spring
ART 305	<b>Drawing: Figure I (4)</b> 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/expressive possibilities of the human form. Prerequisite: ART 204.	Fall
ART 314	<b>Intermediate Drawing (4)</b> 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. Prerequisite: ART 204.	As offered
ART 315	<b>Advanced Ceramics I (3)</b> 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. Prerequisite: ART 253.	Spring
ART 316	<b>Advanced Ceramics II (3)</b> 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. Prerequisite: ART 315.	As offered
ART 323	<b>New Genre (3)</b> This course is an introduction and exploration in inter-media art. It will encourage interface and comparison within art and other disciplines.	As offered
ART 326	<b>Contemporary Art Issues (3)</b> 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.	As offered
ART 345	<b>Nineteenth Century Art History (3) M</b> A study of the major developments in the visual arts in Europe from David to the first Impressionist show in 1874. Lecture and slides.	As offered

## Academic Programs

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ART 346	<b>History of Modern Painting (3) M</b> A study of the development of modern painting from the French Impressionist movement to the present day in the United States. Lecture and slides.	Fall
ART 347	<b>Contemporary Art History (3)</b> 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. Prerequisites: ART 241 or 242.	As offered
ART 351	<b>Museum Studies (3) M</b> 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. May be repeated one time for credit.	Fall, Spring
ART 353	<b>Intermediate Ceramics (3)</b> 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. Prerequisite: ART 232.	Spring
ART 361	<b>Art of Latin America (3)</b> As an introduction to the ancient Americas, this course will focus on seven major cultures in Mesoamerica (Olmec, Teotihuacan, Maya, 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. Prerequisite: ART 241 or 242.	As offered
ART 371	<b>Art of Southeast Asia (3)</b> 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. Prerequisite: ART 241 or 242.	As offered
ART 381	<b>Women in the Arts (3)</b> 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.	As offered
ART 383	<b>Painting II (4) M</b> Projects further develop skills learned in Painting I. Applied studio work, slide lectures, group discussions, and field trips are possible. Prerequisite: ART 283.	Spring
ART 385	<b>Film as Visual Art (3) M</b> 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 will be 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/creative tension with the visual culture of their national origin or context. Included in this would be fashion, art, politics and philosophy.	As offered
ART 387	<b>Contemporary Visual Arts and Culture (3) I, M</b> 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.	Online and Professional Studies
ART 391	<b>ArtTheory (3)</b> This course explores the major movements in the visual arts and design in the United States and Europe the years following the Second World War to the present day. Developing historically within the framework of industrialism and advanced capitalism, class conflict and political upheaval, globalization and the digital revolution, this course surveys the major movements of Modern- Contemporary art. Additional attention will be paid to international developments in the art world beyond the West, and the relationship between museums, the market, and artistic practice.	As offered

ART 399	<b>Independent Study (1-3)</b> An opportunity for students who have demonstrated the ability to do independent work to pursue in depth a topic of particular interest. May be repeated for a maximum of six (6) units.	
ART 400	<b>Special Problems in Art (1-3) M</b> Specialized instruction in various media. For the advanced art student capable of exploring a personal direction in his/her creative work. May be repeated twice for credit with change of topic.	As offered
ART 401	<b>Projects in Design and Color (3) M</b> A continuation of ART 201. Advanced study of the principles of two-dimensional design and color theory and their use as tools for effective visual communication. Prerequisite: ART 201.	As offered
ART 405	<b>Drawing: Figure II (4)</b> This is a studio course whose aim is to develop increased mastery of the perceptual, technical and compositional skills involved with figure drawing. Prerequisite: ART 305.	Spring
ART 411	<b>Topics in Art (1-4)</b> Projects in topics of current interest not normally covered by established courses. Content variable. May be repeated twice for credit with a change of topic.	As offered
ART 412	<b>Topics in Art History (1-4) M</b> Projects in Art History topics of current interest not normally covered by established courses. Content variable. May be repeated twice for credit with change of topic.	As offered
ART 414	<b>Advanced Drawing (4)</b> 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. Prerequisite: ART 314.	As offered
ART 415	<b>Aesthetics and the Classroom (3) M</b> 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.	Fall
ART 430	<b>Art and the Bible (3) M</b> 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.	Fall, Spring
ART 432	<b>Advanced Sculpture I (3)</b> Advanced problems in sculpture and individual problems in various media. For Art majors and those who wish to develop individual statements in a sculptural media. Prerequisite: ART 225 or 226.	As offered
ART 433	<b>Advanced Sculpture II (3)</b> Advanced problems in sculpture and individual problems in various media. For Art majors and those who wish to develop individual statements in a sculptural media. May be repeated one time for credit. Prerequisite: ART 432.	As offered
ART 450	<b>Internship in Visual Arts (1-3)</b> Under faculty supervision, the student will be assigned to a position, utilizing principles of visual arts 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 visual arts as a whole. Prerequisite: Permission of the Department Chair.	Fall, Spring
ART 451	<b>Internship in Visual Arts (1-3)</b> Under faculty supervision, the student will be assigned to a position, utilizing principles of visual arts 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 visual arts as a whole. Prerequisite: ART 450 and permission of the Department Chair.	Fall, Spring
ART 499	<b>Senior Exhibition (3)</b> Senior Exhibition, provides unit reward for the work art majors perform en route to the creation and mounting of their required thesis exhibit. Prerequisite: Senior status and permission of the Department Chair.	Fall, Spring

## WORLDVIEW

### Worldview Course Descriptions

- WLD 121**    **Science Technology, and Worldview (3)**    **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.
- WLD 161**    **American Founding and Experience (3)**    **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.
- WLD 181**    **Goodness, Truth and Beauty (3)**    **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.

2015 | 2016

# California Baptist University

## Online and Professional Studies

### UNDERGRADUATE CATALOG



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# Online and Professional Studies

## Academic Calendar 2015 – 2016

### FALL SEMESTER 2015

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#### Session 1

##### August

- 12 Semester Financial Clearance Deadline
- 31 Classes Begin - Session 1 and Session 3

##### September

- 7 Labor Day Holiday (no classes, offices open)
- 8 Last Day to Add a Course for Credit - Session 1 and Session 3
- 14 Last Day to Drop a Course with a Refund - Session 1 and Session 3
- 25 Board of Trustees Meeting
- 28 Last Day to Withdraw from a Course with a "W" (no refund) - Session 1

##### October

- 1 Graduation Application Deadline for December 2015 Graduation
- 25 Session 1 Closes

#### Session 2

##### October

- 26 Session 2 Begins
- 30 Last Day to Withdraw from a Course with a "W" (no refund) - Session 3

##### November

- 2 Last Day to Add a Course for Credit - Session 2
- 9 Last Day to Drop a Course with a Refund - Session 2
- 23 Last Day to Withdraw from a Course with a "W" (no refund) - Session 2
- 26-29 Thanksgiving Holiday (no classes, offices closed at 12:00 noon on the 24th)
- 30 Classes Resume, Offices Open

##### December

- 17 Commencement Exercises
- 20 Semester Closes - Session 2 and Session 3
- 21-Jan 3 Christmas and New Years Eve Holiday (no classes)
- 22 Offices Closed (December 22 - January 3)

# Online and Professional Studies

## Academic Calendar 2015 – 2016

### SPRING SEMESTER 2016

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#### Session 1

##### January

- 4 Offices Open
- 4 Semester Financial Clearance Deadline
- 4 Classes Begin - Session 1 and Session 3
- 8 Board of Trustees Meeting
- 11 Last Day to Add a Course for Credit - Session 1 and Session 3
- 18 Martin Luther King Jr. Holiday (no classes, offices closed)
- 19 Last Day to Drop a Course with a Refund - Session 1 and Session 3

##### February

- 1 Graduation Application Deadline for April and August 2016 Graduation
- 1 Last Day to Withdraw from a Course with a "W" (no refund) - Session 1
- 28 Session 1 Closes

#### Session 2

##### February

- 29 Session 2 Begins

##### March

- 2 Postmark Deadline for FAFSA and GPA Verification Form (Cal Grant)
- 4 Last Day to Withdraw from a Course with a "W" (no refund) - Session 3
- 7 Last Day to Add a Course for Credit - Session 2
- 14 Last Day to Drop a Course with a Refund - Session 2
- 25 Good Friday Holiday (classes in session, offices closed)
- 26-28 Easter Observance (classes in session, offices closed)
- 29 Offices Open
- 29 Last Day to Withdraw from a Course with a "W" (no refund) - Session 2

##### April

- 24 Semester Closes - Session 2 and Session 3
- 29 Board of Trustees Meeting
- 30 Commencement Exercises

# Online and Professional Studies

## Academic Calendar 2015 – 2016

### SUMMER SEMESTER 2016

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#### Session 1

##### May

- 2 Semester Financial Clearance Deadline
- 2 Classes Begin - Session 1 and Session 3
- 9 Last Day to Add a Course for Credit - Session 1 and Session 3
- 16 Last Day to Drop a Course with a Refund - Session 1 and Session 3
- 30 Memorial Day Holiday (no classes, offices closed)
- 31 Last Day to Withdraw from a Course with a "W" (no refund) - Session 1

##### June

- 26 Session 1 Closes

#### Session 2

##### June

- 27 Session 2 Begins

##### July

- 4 Independence Day Holiday (no classes, offices closed)
- 5 Last Day to Add a Course for Credit - Session 2
- 8 Last Day to Withdraw from a Course with a "W" (no refund) - Session 3
- 11 Last Day to Drop a Course with a Refund - Session 2
- 25 Last Day to Withdraw from a Course with a "W" (no refund) - Session 2

##### August

- 21 Semester Closes - Session 2 and Session 3



# Online and Professional Studies

## Academic Calendar 2016 – 2017 (Proposed)

### FALL SEMESTER 2016

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#### Session 1

##### August

10 Semester Financial Clearance Deadline

##### September

5 Labor Day Holiday (no classes, offices open)  
 6 Classes Begin - Session 1 and Session 3  
 13 Last Day to Add a Course for Credit - Session 1 and Session 3  
 20 Last Day to Drop a Course with a Refund - Session 1 and Session 3  
 30 Board of Trustees Meeting

##### October

3 Graduation Application Deadline for December 2016 Graduation  
 4 Last Day to Withdraw from a Course with a "W" (no refund) - Session 1  
 30 Session 1 Closes

#### Session 2

##### October

31 Session 2 Begins

##### November

4 Last Day to Withdraw from a Course with a "W" (no refund) - Session 3  
 7 Last Day to Add a Course for Credit - Session 2  
 14 Last Day to Drop a Course with a Refund - Session 2  
 24-27 Thanksgiving Holiday (no classes, offices closed at 12:00 noon on the 22nd)  
 28 Classes Resume, Offices Open  
 28 Last Day to Withdraw from a Course with a "W" (no refund) - Session 2

##### December

15 Commencement Exercises  
 21 Offices Closed (December 21 - January 2)  
 23 Semester Closes - Session 2 and Session 3  
 24-Jan 8 Christmas and New Years Eve Holiday (no classes)

# Online and Professional Studies

## Academic Calendar 2016 – 2017 (Proposed)

### SPRING SEMESTER 2017

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#### Session 1

##### January

- 3 Offices Open
- 5 Semester Financial Clearance Deadline
- 9 Classes Begin - Session 1 and Session 3
- 16 Martin Luther King Jr. Holiday (no classes, offices closed)
- 17 Last Day to Add a Course for Credit - Session 1 and Session 3
- 20 Board of Trustees Meeting
- 23 Last Day to Drop a Course with a Refund - Session 1 and Session 3

##### February

- 1 Graduation Application Deadline for May and August 2017 Graduation
- 6 Last Day to Withdraw from a Course with a "W" (no refund) - Session 1

##### March

- 2 Postmark Deadline for FAFSA and GPA Verification Form (Cal Grant)
- 5 Session 1 Closes

#### Session 2

##### March

- 6 Session 2 Begins
- 10 Last Day to Withdraw from a Course with a "W" (no refund) - Session 3
- 13 Last Day to Add a Course for Credit - Session 2
- 20 Last Day to Drop a Course with a Refund - Session 2

##### April

- 3 Last Day to Withdraw from a Course with a "W" (no refund) - Session 2
- 14 Good Friday Holiday (classes in session, offices closed)
- 14-17 Easter Observance (classes in session, offices closed)
- 18 Offices Open
- 30 Semester Closes - Session 2 and Session 3

##### May

- 5 Board of Trustees Meeting
- 6 Commencement Exercises

# Online and Professional Studies

## Academic Calendar 2016 – 2017 (Proposed)

### SUMMER SEMESTER 2017

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#### Session 1

##### May

- 8 Semester Financial Clearance Deadline
- 8 Classes Begin - Session 1 and Session 3
- 15 Last Day to Add a Course for Credit - Session 1 and Session 3
- 22 Last Day to Drop a Course with a Refund - Session 1 and Session 3
- 29 Memorial Day Holiday (no classes, offices closed)

##### June

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

##### July

- 2 Session 1 Closes

#### Session 2

##### July

- 3 Session 2 Begins
- 4 Independence Day Holiday (no classes, offices closed)
- 7 Last Day to Withdraw from a Course with a "W" (no refund) - Session 3
- 10 Last Day to Add a Course for Credit - Session 2
- 17 Last Day to Drop a Course with a Refund - Session 2
- 31 Last Day to Withdraw from a Course with a "W" (no refund) - Session 2

##### August

- 27 Semester Closes - Session 2 and Session 3

## ADMISSIONS

**Mr. Ted Meyer**

*Dean of Enrollment Services*

**Ms. Traci Williams**

*Enrollment Process Administrator*

Phone 951.343.3916

FAX 951.358.1181

tlwilliams@calbaptist.edu

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The Division of Online and Professional Studies was established for the specific purpose of serving the needs of an increasing number of adults and non-traditional students seeking higher education. Online and Professional Studies (OPS) develops degree programs in fully-online and hybrid formats at both the undergraduate and graduate levels. All programs incorporate a Christian perspective, and a year-round semester system speeds students toward graduation.

### Locations

**Tyler Plaza Administrative Offices**

10370 Hemet Street, Suite 200

Riverside, CA 92503

Phone 951.343.3900

Toll Free 877.236.1617

FAX 951.358.1181

**Riverside Campus**

8432 Magnolia Avenue

Riverside, CA 92504

**Brea Downtown**

330 W. Birch St.

Brea, CA 92821

**Rancho Cucamonga**

7369 Day Creek Blvd, Suite F101/F102

Rancho Cucamonga, CA 91739

**Temecula**

40764 Winchester Road, Suite 590

Temecula, CA 92591

### 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. Online and Professional Studies offers two eight week sessions ever semester, providing six 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.
- A \$45.00 non-refundable fee.
- Official transcripts from previously attended colleges and universities, submitted to OPS Admissions. An official high school transcript or the equivalent is required for applicants with fewer than 24 completed units.
- Applicants to the RN-BSN program should refer to program admission requirements set forth by the School of Nursing.

### Student Status

Applicants to Online and Professional Studies will be considered according to the following classifications:

#### Standard

Applicants who have submitted official high school transcripts showing a minimum cumulative grade point average of 2.5 and (if applicable) have submitted 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 Online and Professional Studies Admissions and Retention Committee.

**Special Student**

Applicants offered Special Student status are eligible to enroll for up to 6 units per session. To continue beyond a total of 18 units the student must meet regular admission requirements. (NOTE: Special Students are not eligible for financial aid).

**Denial**

Denial may occur when an applicant does not meet the qualifications for admission as stated in the categories stated above. California Baptist University and Online and Professional Studies Division 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 Online and Professional Studies Admission and Retention Committee in care of the University.

**Readmit**

Students who have attended California Baptist University, but have for any reason discontinued enrollment for one or more semesters will be required to submit a Readmit application, a \$25 re-application fee, and official copies of transcripts from all other institutions attended. Readmitted students who discontinued enrollment for more than one semester will enter under the catalog current at the time of re-admission, and will be subject to the admissions and degree requirements outlined in that catalog. The University is not responsible for providing courses or programs which have been discontinued. For more information contact Online and Professional Studies at (877) 236-1617.

**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.

## FINANCIAL AID

**Ms. Rebecca Sanchez**

*Director of Financial Aid*

**Office of Financial Aid**

Phone 951.343.3914

Toll free 877.228.8855

FAX 951.343.4518

finaid@calbaptist.edu

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The Financial Aid policies in this catalog apply to all eligible students enrolled in Online and Professional Studies programs. Students may be eligible to apply for a variety of federal, state, private, and/or institutional assistance. Eligibility requirements and procedures for applying for federal, state, or private aid are outlined in the Financial Aid section of this catalog or through the Financial Aid Office. Institutional Financial Aid Programs for Online and Professional Studies are outlined below.

### **Institutional Financial Aid Programs for Online and Professional Studies**

#### **Common Requirements for Institutional Programs**

With regard to institutional financial assistance, the following common requirements have been established for all students enrolled in Online and Professional Studies:

1. 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.
2. In order to maintain aid eligibility, students receiving any financial aid must maintain satisfactory academic progress, as stated in this catalog.
3. Institutional scholarships are limited and may not be awarded if all available funds have been appropriated.
4. Students must submit all requested documents two weeks prior to the end of each Fall semester, Spring semester, and Summer semester.
5. All awards are based on full-time enrollment of 12 units per semester or session. Students enrolled for less than 12 units are eligible to receive aid, prorated accordingly.
6. 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.

### **Satisfactory Academic Progress (SAP) – Online and Professional Studies**

Federal regulations require California Baptist University to establish, publish, and apply standards of Satisfactory Academic Progress 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 after the fall semester to insure 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 once checked at the end of the award 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 has submitted written appeal.

#### **Financial Aid Probation**

Status assigned to a student who received a Financial Aid Suspension but successfully appealed the suspension and regains financial aid eligibility for an additional term. They must complete their probationary term successfully or their financial aid will be terminated.

## 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 fall semester. 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 term GPA to continue making satisfactory progress toward a cumulative 2.0 GPA. 2.0 term GPA is the minimum standard measurement for continuing progress. The student will need to earn higher than 2.0 term GPA(s) to correct deficiency.

Students on Financial Aid Probation failing to earn the minimum 2.0 term 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 fall term annually.

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) of Satisfactory Academic Progress, but will not figure into 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

Students are expected to complete their degree within a reasonable time frame. Programs of study, must be no longer than 150 percent of published length of educational program. The measurement begins from the date of the initial enrollment in the student's program.

## Unusual Enrollment History

The 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. Students flagged with UEH indicate whether the student has an unusual enrollment history with regard 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.

## Readmitting Students

A readmit student that does not have the minimum GPA for their program will receive one (1) semester of aid probation to bring their GPA up to the required level before their aid is terminated.

## Withdrawals and Cancellations

Withdrawal from the semester after the first day of classes during a semester counts as a semester attended when determining overall maximum unit completion and minimum unit completion, unless the student does not attend any classes for the given semester and receives a 100% refund of all fees. 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. All students who borrow federal student loans and cease attendance at the University are required to complete an exit interview at [www.studentloans.gov](http://www.studentloans.gov).

## Repeated Courses

Financial aid for any class will be given only twice for the same class. The cost of the third attempt will not be covered by financial aid or be counted as part of the half-time minimum aid eligibility requirement.

## Online and Professional Studies

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### Concurrent Enrollment

Students attending California Baptist University and another college or university concurrently are eligible for aid based on the coursework and GPA acquired at CBU only. In addition, satisfactory academic progress will be determined exclusively by California Baptist University coursework and GPA.

### 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, students will go into repayment after six months or less than half time

### Appeal Process

Before filing an appeal for reinstatement of financial aid, it is important that students seek assistance from a One-Stop Student Service Advisor in order 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, make sure that a full explanation is provided, 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 One-Stop Student Service Advisor 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:

1. Continuing enrollment at CBU without any financial assistance
2. Continuing enrollment at CBU with the assistance of private loans. The Financial Aid Office can provide the student with information on these loans.
3. Taking a leave of absence from CBU 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 s/he has completed the required units and demonstrated the ability to continue at CBU without incurring any additional deficiencies. The Financial Aid Office recommends that the student speak with their One-Stop Student Service Advisor to ensure that any classes taken elsewhere will count towards the student's area of study.

See the Financial Aid section of this catalog for information on the following financial aid policies:

The Purpose of Financial Aid  
Applying for Financial Aid  
Requirements for Awarding  
Student Rights and Responsibilities  
Financial Aid Award Letter  
Disbursement  
Withdrawal from the University  
Concurrent Enrollment  
Appeal Process  
Federal Financial Aid Programs for Undergraduate Students  
Federal Pell Grant

Federal Supplemental Educational Opportunity Grant (FSEOG)  
Federal Work Study Program  
Federal Perkins Loan  
Federal Stafford Loan  
Federal Parent Loan for Undergraduate Students (PLUS)  
State Financial Aid Programs  
Cal Grant A  
Cal Grant B  
Assumption Program of Loan for Education (APLE)  
(For Credential Students)  
Private Financial Aid Programs



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## STUDENT ACCOUNTS

**Ms. Heidi Pendleton**

*Director of Student Accounts*

**Office of Student Accounts**

Phone 951.343.4371

FAX 951.343.4515

studentaccounts@calbaptist.edu

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The Student Account policies in this catalog apply to all eligible students enrolled in Online and Professional Studies Programs. The cost of education at California Baptist University is among the lowest to be found in accredited, private senior institutions. This is made possible with support from the Cooperative Program of the California Southern Baptist Convention and other gifts and grants. For Student Charges and Student Account policies, please see the Student Account section of this catalog.

***See the Student Account section of this catalog for information on the following Student Account policies:***

Student Charges  
Tuition  
Non-refundable Fees  
Policy for Student Accounts

Payment Options  
Financial Clearance  
Delinquent Accounts  
Policy for Refund of Tuition and Fees

## ACADEMIC INFORMATION

**Mr. Rich Simpson**

*Registrar for Online and Professional Studies*

Phone 951.343.3913

FAX 951.343.3956

opsregistrar@calbaptist.edu

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All Academic policies located in the Academic Information section of this catalog pertain to Online and Professional Studies students.

*See the Academic Information section of this catalog for information on the following Academic policies:*

Graduation Requirements	Credit/No Credit Course
Graduation Under a Particular Catalog	Pass/Fail
Scholastic Requirements	Incomplete Grade Policy
English Proficiency	Examinations/Make-up Tests
Work in Residence	Repeating Courses for Grade Replacement
General Education	Grade Changes
Majors and Minors	Quality of Work
Upper Division	Semester Honors
Double Major	Grade Reports
Second Major	Change of Address
Additional Major or Minor	Classification and Numbering of Courses
Second Degree	Course Cancellations and Format Changes
Electives	Directed and Independent Study
Approval for Graduation	Challenging a Course for Credit or Exemption
Graduation Honors	Auditing a Course
Graduation Checklist	Post Baccalaureate Credit
Degree Posting Dates	Privacy of Student Records
Academic Policies	Attendance and Withdrawal Policies
Student Placement	Adding a Course
Transfer Restrictions	Dropping a Course
Advance Placement Credit	Withdrawal from a Course
College Level Examination Program (CLEP) and DSST	Withdrawal from the University and Semester
Credit for Prior Learning	Leave of Absence
Enrollment at Other Institutions	Administrative Discretion
Course Load	Academic Computing
Classification of Students	Academic Resource Center
Scholastic Regulations	Annie Gabriel Library
Student Grievances	Office of the University Registrar
Academic Dishonesty	Veterans Information
	General Education Rationale

# ONLINE AND PROFESSIONAL STUDIES GENERAL EDUCATION REQUIREMENTS

## **Foundations 12-15 Units**

Composition (ENG 113, 123)	6
Mathematics (MAT 115, 123, or higher)	3
Technology coursework or approved high school technology course	0-3
Philosophy	3

## **Behavioral Science 6 Units**

Anthropology  
 Christian Behavioral Science  
 Leadership  
 Psychology  
 Social Work  
 Sociology

## **Biblical and Theological 6 Units**

Overview of the Bible (CST100)	3
Upper Division Christian Studies	3

## **Communication and Fine Arts 6 Units**

Art  
 Communication Arts  
 Foreign Language  
 Graphic Design  
 Journalism  
 Music  
 Public Relations  
 Theatre

## **Humanities 6 Units**

History  
 Humanities  
 Literature and Writing (higher than ENG123)  
 Political Science

## **Natural Sciences 4 Units**

Lab Science (required)  
 Health Science  
 Kinesiology  
 Science

## **Total General Education Units 40-43**

- 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 technology and composition requirements until successfully completed.
- General education requirements are waived, with the exception of the Biblical and Theological Core (CST) and two semesters of English composition (ENG 113, ENG 123) for individuals transferring to CBU with a CSU General Education Breadth or IGETC certified associate's degree

ONLINE AND PROFESSIONAL STUDIES

**Dr. Dirk Davis**  
*Associate Vice President for Academics*

**Dr. Elizabeth Morris**  
*Associate Dean for Assessment and Accreditation*

**Dr. Riste Simnjanovski**  
*Assistant Dean for Course and Program Development*

**Dr. Kathryn Norwood**  
*Assistant Dean for Student and Faculty Development*

**Ms. Rhonda Moll**  
*Director of Program Administration*

**Ms. Debbie Cram**  
*Administrative Assistant*  
Phone 951.343.3932  
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**Ms. Yvette Hale**  
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The Division of Online and Professional Studies was established for the specific purpose of serving the needs of an increasing number of adults and non-traditional students seeking higher education. Online and Professional Studies (OPS) develops degree programs in fully-online and hybrid formats at both the undergraduate and graduate levels. All programs incorporate a Christian perspective, and a year-round semester system speeds students toward graduation. Approximately twenty undergraduate majors are available.

The Online and Professional Studies faculty recommends students complete at least 49 units of study (preferably the types of courses required for general education) before entering upper division major courses. Students are required to complete at least 30 units, including 6 units of English composition (ENG 113, ENG 123), before starting the major.

Department Chairs

Allied Health. . . . . Dominick Sturz, Dr.PH.  
Arts and Sciences. . . . . Mary Ann Pearson, Ed.D.  
Behavioral Science. . . . . Joshua Knabb, Psy.D.  
Business. . . . . Julianna Browning, Ph.D.  
Education . . . . . Cammy Purper, Ph.D.  
History and Government. . . . . Elaine Ahumada, D.P.A.

Faculty

Elaine Ahumada, D.P.A. . . . . Public Administration  
Noemi Alexander, M.P.A. . . . . Political Science  
Richard Ardito, M.B.A.. . . . Accounting  
Matthew M. Barrett, Ph.D. . . . . Christian Ministries  
Gretchen C. Bartels, Ph.D. . . . . English  
Janet Bonome, Dr.P.H. . . . . Public Health

A. Greg Bowden, Ed.D.	Education
Julianna Browning, Ph.D.	Accounting
Mary Crist, Ed.D.	Education
Robert G. Crosby, Ph.D.	Education • Psychology
Dirk Davis, Ed.D.	Education
Scott Dunbar, M.B.A.	Business
Ruth Flores, M.A.	English
Thomas Frederick, Ph.D.	Psychology
Laura Freeman, Psy.D.	Psychology
Levi Garrett, M.S.	Kinesiology
Kenneth George, M.B.A.	Finance
John Gill, Ph.D.	Christian Ministries
Anna Grigorian-Routon, M.S.	Psychology
Beth A. Groves, M.P.A.	Political Science
Andrew Harveson, Ph.D.	Kinesiology
Robert Hayden, M.A.	Communication
Tran Hong, Ed.D.	Information Technology • Computer Science
Mitchell R. Hovey, Ed.D.	Education
Mark Kling, D.P.A.	Criminal Justice
Joshua Knabb, Psy.D.	Psychology
Patricia Kircher, D.P.A.	Political Science
Ogbochi McKinney, Dr.P.H.	Public Health
Jeff McNair, Ph.D.	Education
Kenneth Minesinger, J.D.	Law
Elizabeth Morris, Ph.D.	Mathematics • Education
Katheryn Norwood, Ed.D.	Education
Monica O'Rourke, Ph.D.	Kinesiology
Samuel Park, B.A.	Graphic Design and Digital Media
Mary Ann Pearson, Ed.D.	Communication • Education
David Poole, Ed.D.	Leadership • Management
Brett Provance, Ph.D.	Humanities
Cammy Purper, Ph.D.	Early Childhood Studies
Susan Purrington, Psy.D.	Psychology
Joseph Putulowski, M.B.A.	Business Administration
Tom Schneider, Ph.D.	English
Riste Simnjanovski, D.P.A.	Education
R. Lucas Stamps, Ph.D.	Christian Ministries
Dominick Sturz, Dr.P.H.	Public Health
Tae Sung, Ph.D.	English
Yvonne Thai, Ph.D.	Sociology
Kristin White, Psy.D.	Psychology
James Yoo, Ph.D.	Economics

## Online and Professional Studies

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*Majors: Accounting, Business Administration, Christian Ministries, Communication Studies, Computer Information Technology, Criminal Justice, Early Childhood Studies, English, Graphic Design and Digital Media, Interdisciplinary Studies, Kinesiology, Liberal Studies, Marketing, Nursing, Organizational Leadership, Political Science, Psychology, Public Administration, Public Health, Public Relations, Sociology.*

*Graduate Programs: Accounting, Business Administration, Communication, Counseling Psychology, Disability Studies, Education, Organizational Leadership, Public Administration, Public Health, Public Relations.*

### ESSENTIALS FOR ONLINE AND PROFESSIONAL STUDIES

The Essentials for Online and Professional Studies (GST 101) course is designed to assist new students with the transition to university coursework and online studies. Enrollment is required of all new Online and Professional Studies students. Students enroll for GST 101 Essentials for Online and Professional Studies during the first semester at CBU and will be continuously enrolled until a passing grade is earned. The course provides a well-rounded introduction to California Baptist University resources, the Division of Online and Professional Studies and the online learning experience.

### ONLINE AND PROFESSIONAL STUDIES REQUIREMENTS

Program requirements include coursework to complete the designated major, the Christian Studies general education requirement, and in some cases, upper division electives. To complete a degree students must complete all major, general education and overall degree requirements.

#### Bachelor of Science in Accounting Major Program (69 units)

##### Prerequisites to Program

ENG 113	Composition
ENG 123	Intermediate Composition
MAT 115	Intermediate Algebra

##### Lower Division Requirements (15 units)

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 (27 units)

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
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 (24 units)

ACC 310	Intermediate Accounting I
ACC 311	Intermediate Accounting II
ACC 320	Cost Accounting
ACC 330	Government and Non-Profit Accounting
ACC 410	Advanced Accounting
ACC 420	Accounting Information Systems
ACC 430	Federal Income Tax Accounting
ACC 470	Auditing

##### Additional Program Courses (3 units)

CST 100	Overview of the Bible
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**Bachelor of Arts in Business Administration Major Program (48 units)****Prerequisites to Program**

BUS	218	Macroeconomics
ENG	113	Composition
ENG	123	Intermediate Composition
MAT	115	Intermediate Algebra

**Lower Division Requirements (12 units)**

ACC	250	Principles of Accounting I
ACC	251	Principles of Accounting II
BUS	217	Microeconomics
CIS	270	Business IT Application

**Upper Division Requirements (33 units)**

BUS	303	Business Finance
BUS	315	Business Statistics
BUS	334	International Business
BUS	337	Management with Biblical Foundation (meets Upper Division CST requirement)
BUS	343	Human Resource Management
BUS	349	Communication Strategy in Management
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

**Additional Program Courses (3 units)**

CST	100	Overview of the Bible
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**Bachelor of Arts in Christian Ministries Major Program (48 units)****Prerequisites to Program**

ENG	113	Composition
ENG	123	Intermediate Composition

**Lower Division Requirements (15 units)**

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

**Upper Division Requirements (33 units)**

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

## Online and Professional Studies

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### Bachelor of Arts in Communication Studies Major Program (48 units)

#### Prerequisites to Program

ENG 113	Composition
ENG 123	Intermediate Composition

#### Lower Division Requirements (9 units)

JRN 150	Media and Society
JRN 170	Writing for Mass Media
COM 113	Oral Communication

#### Upper Division Requirements (33 units)

COM 306	Small Group Communication
COM 308	Interpersonal Communication
COM 340	Rhetoric and Persuasion
COM 403	Communication Theory
COM 405	Rhetorical Criticism
COM 420	Global Digital Engagement
COM 425	Organizational Communication
COM 430	Communication Research and Methods
JRN 320	Media Law, Ethics, and Copyright
LDR 350	Communication Principles for Leadership
PRL 300	Public Relations

#### Additional Program Courses (6 units)

CST 100	Overview of the Bible
CST 300-400	Upper Division Christian Studies

### Bachelor of Science in Computer Information Technology Major Program (48 units)

#### Prerequisites to Program

ENG 113	Composition
ENG 123	Intermediate Composition
MAT 115	Intermediate Algebra

#### Lower Division Requirements (6 units)

EGR 121	Introduction to Computer Programming in C++
EGR 221	Data Structures

#### Upper Division Requirements (36 units)

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 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 (6 units)

CST 100	Overview of the Bible
CST 301	The Christian Life



**Bachelor of Science in Criminal Justice Major Program (45-48 units)****Prerequisites to Program**

ENG 113	Composition
ENG 123	Intermediate Composition
MAT 115	Intermediate Algebra

**Lower Division Requirements (6-9 units)**

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

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

**Upper Division Requirements (33 units)**

CJS 304	Leadership and Ethics for Criminal Justice
CJS 341	Minorities in the Criminal Justice System
CJS 350	Emergency Management
CJS 355	Information Management
CJS 360	Historical Perspectives of Criminal Justice
CJS 401	Crime and Delinquency
CJS 472	Terrorism and Homeland Security
CJS 485	Methods of Research for Criminal Justice
CJS 497	Comparative Criminal Justice
POL 485	Constitutional Law II
POL 493	Principles of Public Administration

**Additional Program Courses (6 units)**

CST 100	Overview of the Bible
CST 300-400	Upper Division Christian Studies

**Bachelor of Arts in Early Childhood Studies Major Program (48 units)****Prerequisites to Program**

ENG 113	Composition
ENG 123	Intermediate Composition
Fingerprinting and Certificate of Clearance	

**Upper Division Requirements (33 units)**

ECH 320	Cognitive Development in Infancy and Early Childhood
ECH 340	Perceptual Motor Development in Infancy and Early Childhood
ECH 350	Social and Emotional Development in Infancy and Early Childhood
ECH 360	Early Childhood Curriculum
ECH 365	Assessment of Young Children including Children with Disabilities
ECH 385	Theories and Models of Understanding Behavior in Young Children with Disabilities
ECH 395	Learning Environments for Young Children including Children with Disabilities
ECH 415	Consultation and Collaboration in Early Childhood Intervention
ECH 435	Cross Cultural Perspectives of Young Children including Children with Disabilities
ECH 455	Research Seminar in Early Childhood including Early Childhood Intervention
EDU 341	The Exceptional Child

**Upper Division Elective Requirements (9 units)**

Complete nine (9) units from the following:

ECH 370	Spiritual Development of Young Children
ECH 375	Early Intervention: Early Childhood Special Education
ECH 440	STEM Curriculum Integrated with the Arts
ECH 460	Adult Supervision
ECH 461	Administration of Early Childhood Program I
ECH 462	Administration of Early Childhood Program II

**Additional Program Courses (6 units)**

CST 100	Overview of the Bible
CST 300-400	Upper Division Christian Studies

## Online and Professional Studies

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### Bachelor of Arts in English Major Program (48 units)

#### Prerequisites to Program

ENG 113	Composition
ENG 123	Intermediate Composition

#### Lower Division Requirements (12 units)

ENG 201	Introduction to Literature
ENG 213/223	British Literature
ENG 233/243	American Literature
ENG 273	Introduction to Creative Writing

#### Upper Division Requirements (30 units)

ENG 303	Topics in World Literature
ENG 313	Multicultural Literature
ENG 343	Eighteenth and Nineteenth Century British Literature
ENG 350	Research and Writing in Literature and Language
ENG 353	Introduction to Children's Literature OR ENG 360, 363, or 434
ENG 401	Literary Theory and Criticism
ENG 413	Shakespeare Studies
ENG 440	Modern American Literature
ENG 463	Language Structure and Acquisition
ENG 499	Capstone Project

#### Additional Program Courses (6 units)

CST 100	Overview of the Bible
CST 300-400	Upper Division Christian Studies

### Bachelor of Arts in Graphic Design and Digital Media Major Program (48 units)

#### Prerequisites to Program

ART 204	Basic Drawing
ENG 113	Composition
ENG 123	Intermediate Composition

#### Lower Division Requirements (12 units)

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

#### Upper Division Requirements (30 units)

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 (6 units)

CST 100	Overview of the Bible
CST 300-400	Upper Division Christian Studies

**Bachelor of Arts in Interdisciplinary Studies Major Program (49-52 units)****Prerequisites to Program**

ENG 113	Composition
ENG 123	Intermediate Composition

**Prerequisites to Concentrations**

Must be complete prior to beginning concentration courses

BEH 255	Foundational Skills in Behavioral Science I <sup>2</sup>
BEH 256	Foundational Skills in Behavioral Science II <sup>2</sup>
MAT 115	Intermediate Algebra <sup>2</sup>
PSY 213	General Psychology <sup>1,2</sup>
SOC 213	Introduction to Sociology <sup>1</sup>

<sup>1</sup>Behavioral Science

<sup>2</sup>Psychology

**Lower Division Requirements (6 units)**

HUM 213	Integrated Humanities I
HUM 223	Integrated Humanities II

**Upper Division Requirements (25-27 units)**

ART 387	Contemporary Visual Arts and Culture
COM 308	Interpersonal Communications
ENG 300-400	Upper Division Literature Course
HIS 311	Minorities in America
IDS 499	Portfolio Capstone OR PST 300 Career and Professional Development
KIN 302	Contemporary Health Issues
PHI 323	Ethics OR PHI 353 Comparative Religions
POL 395	Political Economy
POL 415	World Geography

**Concentration Courses (12-13 units)**

Students must complete one of the following concentrations:

**Behavioral Science**

PSY 322	Theories of Personality
PSY 346	Abnormal Psychology
SOC 335	Social Problems
SOC 337	Deviant Behavior

**Communication Arts**

COM 425	Organizational Communications
COM 405	Rhetorical Criticism
GDM 321	The Art and Design of Professional Presentations
PRL 300	Public Relations

**Organizational Leadership**

BUS 343	Human Resource Management
BUS 435	Leadership in Organizations
COM 425	Organizational Communications
POL 452	Organizational Theory and Design

**Psychology**

BEH 383	Statistical Techniques in Behavioral Science
PSY 320	Lifespan Development
PSY 322	Theories of Personality
PSY 346	Abnormal Psychology

**Public Administration**

POL 451	Executive Leadership and Management in the Public Sector
POL 465	Policy Process and Analysis
POL 491	Public Personnel Management
POL 493	Principles of Public Administration

**Additional Program Courses (6 units)**

CST 100	Overview of the Bible
CST 300-400	Upper Division Christian Studies

## Online and Professional Studies

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### Bachelor of Science in Kinesiology Major Program (50 units)

#### Prerequisites to Program

ENG 113	Composition
ENG 123	Intermediate Composition

#### Lower Division Requirements (11 units)

BIO 153	Anatomy and Physiology I with 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	Measurement 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	Organization 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

### Bachelor of Arts in Liberal Studies Major Program (49 units)

Students must select at least one area of concentration within the major. The Liberal Studies program does not meet Elementary Subject Matter Competence. The Elementary Subject Matter Program is specifically designed to prepare students for the CSET and to meet the demands for teaching in a multiple subject classroom. Candidates for the Preliminary Multiple Subject Credential must pass CSET or an approved state exam.

#### Prerequisites to Program

ENG 113	Composition
ENG 123	Intermediate Composition

Fingerprinting and Certificate of Clearance

#### Lower Division Requirements (3 units)

HUM 213	Humanities I OR HUM 223
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#### Upper Division Requirements (28 units)

COM 333	Oral Interpretation/Reader's Theatre OR THE 311, 312, 313, or 411
EDU 300	American Public Schools
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
ETC 305	Educational Computing – Level I OR KIN 302 OR KIN 363
HIS 311	Minorities in America
HIS 393	History of California
LBS 498	Capstone Portfolio
POL 415	World Geography

**Concentration Courses (12 units)**

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	Multicultural Literature
ENG 333	Seventeenth Century British Literature OR ENG 343 OR ENG 345
ENG 413	Shakespeare

**Human Development/Early Childhood**

ECH 320	Cognitive Development
ECH 340	Perceptual-Motor Development
ECH 350	Social and Emotional Development
EDU 341	The Exceptional Child

**Kinesiology**

Complete twelve (12) units from the following:

KIN 302	Contemporary Health Issues*
KIN 332	Lifelong Motor Development
KIN 363	Movement Experiences for Children*
KIN 402	Diversity in Sport and Physical Activity
KIN 454	Behavioral Aspects of Sport

\*Concentration requires completion of twelve (12) units beyond the core major requirements.

**Social Science**

HIS 315	Latin American History
HIS 325	Non-Western Culture and History
POL 443	Diplomatic History of the US

Three (3) additional upper division units in POL or HIS

**Additional Program Courses (6 units)**

CST 100	Overview of the Bible
CST 300-400	Upper Division Christian Studies

**Bachelor of Science in Marketing Major Program (48 units)****Prerequisites to Program**

BUS 218	Macroeconomics
ENG 113	Composition
ENG 123	Intermediate Composition
MAT 115	Intermediate Algebra

**Lower Division Requirements (12 units)**

ACC 250	Principles of Accounting I
ACC 251	Principles of Accounting II
BUS 217	Microeconomics
CIS 270	Business IT Application

**Upper Division Requirements (33 units)**

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 Management

**Additional Program Courses (3 units)**

CST 100	Overview of the Bible
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## Online and Professional Studies

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### Bachelor of Science in Nursing Degree Program (124 units) RN-BSN

The School of Nursing is responsible for the oversight of the RN-BSN degree program curriculum. \*Some general education requirements will be met through specific nursing major requirements.

#### Prerequisites to Program

ENG 113	Composition
ENG 123	Intermediate Composition
STA 144	Introduction to Statistics
Current United States Registered Nursing License	

#### Pre-Nursing Requirements

BIO 153	Human Anatomy and Physiology I with Lab
BIO 163	Human Anatomy and Physiology II with Lab
BIO 205	Human Microbiology with Lab
CHE 102	Fundamentals of Chemistry
CHE 112	Organic Chemistry and Biochemistry for Health Sciences with Lab
COM 113	Oral Communication
PSY 120	Lifespan Development for the Health Professions

#### Lower Division Requirements (6 units)

NUR 201	Theoretical Foundations in Nursing
NUR 236	Physical Assessment for the Licensed Registered Nurse

#### Upper Division Requirements (33 units)

NUR 301	Communication/Informatics in Nursing Practice (*Technology)
NUR 315	Pathophysiology
NUR 320	Pharmacology and Nutrition
NUR 375	Research and Writing for the Health Care Professional (*English)
NUR 420	Community Public Health Nursing (*Political Science)
NUR 421	Community Public Health Practicum
NUR 430	Transcultural Patterns of Health (*Non-US History)
NUR 460	Ethics and Issues in Healthcare (*Philosophy)
NUR 470	Christian Leadership in Nursing (*Christian Studies)
NUR 471	Christian Leadership in Nursing Practicum
NUR 499	Senior Capstone Practicum

### Bachelor of Arts in Organizational Leadership Major Program (48 units)

#### Prerequisites to Program

ENG 113	Composition
ENG 123	Intermediate Composition

#### Upper Division Requirements (42 units)

BUS 343	Human Resource Management
BUS 463	Business and Organizational Management
BUS 475	Project and Team Management
COM 308	Interpersonal Communications
COM 340	Rhetoric and Persuasion
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	Group and Leadership
POL 452	Organizational Theory and Design
PST 300	Career and Professional Development

#### Additional Program Courses (6 units)

CST 100	Overview of the Bible
CST 300-400	Upper Division Christian Studies

**Bachelor of Arts in Political Science Major Program (48 units)****Prerequisites to Program**

ENG 113	Composition
ENG 123	Intermediate Composition

**Lower Division Requirements (6 units)**

POL 213	American Government
POL 223	State and Local Government

**Upper Division Requirements (36 units)**

CJS 301	Fundamentals of Criminal Law
PHI 324	Applied Ethics
POL 390	Congress and the Presidency
POL 427	American Political Theory
POL 431	Christianity and Citizenship
POL 443	Diplomatic History of the United States
POL 444	International Law
POL 450	Research Methods in Political Science
POL 453	Administrative Law and Bureaucracy
POL 484	Constitutional Law I
POL 485	Constitutional Law II
POL 499	Senior Project

**Additional Program Courses (6 units)**

CST 100	Overview of the Bible
CST 300-400	Upper Division Christian Studies

**Bachelor of Arts in Psychology Major Program (47 units)****Prerequisites to Program**

ENG 113	Composition
ENG 123	Intermediate Composition
MAT 115	Intermediate Algebra
PSY 213	General Psychology

**Methodology Requirements (17 units)**

BEH 255	Foundational Skills in Behavioral Science I
BEH 256	Foundational Skills in Behavioral Science II
BEH 333	Epistemology and Worldview
BEH 383	Statistical Techniques in Behavioral Science with SPSS
BEH 385	Methods of Research with SPSS

**Upper Division Requirements (24 units)**

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 (6 units)**

CST 100	Overview of the Bible
CST 300-400	Christian Studies Upper Division Course

**Bachelor of Arts in Public Administration Major Program (48 units)**

**Prerequisites to Program**

ENG 113	Composition
ENG 123	Intermediate Composition

**Lower Division Requirements (9 units)**

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

**Upper Division Requirements (33 units)**

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

**Additional Program Courses (6 units)**

CST 100	Overview of the Bible
CST 300-400	Upper Division Christian Studies

**Bachelor of Science in Public Health Major Program (48 units)**

**Prerequisite Requirements for Major (19 units)**

ENG 113	Composition
ENG 123	Intermediate Composition
MAT 115	Intermediate Algebra or higher
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 (12 units)**

HSC 101	Introduction to Public Health
HSC 104	Survey of U.S. Healthcare Delivery
HSC 210	Ethics in Healthcare
STA 144	Introduction to Statistics

**Upper Division Requirements (30 units)**

HSC 301	Principles of Health Education
HSC 305	Epidemiology
HSC 306	Pathophysiology for Public Health
HSC 312	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 (6 units)**

CST 100	Overview of the Bible
CST 302	Foundations of Christian Thought



**Bachelor of Arts in Public Relations Major Program (48 units)****Prerequisites to Program**

ENG 113	Composition
ENG 123	Intermediate Composition
COM 113	Oral Communication

**Lower Division Requirements (6 units)**

JRN 170	Writing for Mass Media
PRL 205	Historical and Theoretical Foundations of Public Relations

**Upper Division Requirements (36 units)**

COM 420	Global Digital Engagement
COM 425	Organizational Communication
JRN 320	Media Law, Ethics and Copyright
JRN 349	Editing for Print and Online Media
JRN 350	Magazine Writing
JRN 371	Applied Journalism Production
JRN 420	Public Relations Campaigns and Strategies
MKT 333	Principles of Marketing
PRL 300	Public Relations
PRL 310	Public Relations Issues and Crisis Management
PRL 320	Business Literacy for Public Relations Professionals
PRL 430	Principles of International Public Relations

**Additional Program Courses (6 units)**

CST 100	Overview of the Bible
CST 300-400	Upper Division Christian Studies

**Bachelor of Arts In Sociology Program Major Program (50 units)****Prerequisites To Program**

ENG 113	Composition
ENG 123	Intermediate Composition
MAT 115	Intermediate Algebra OR MAT 144 Introduction to Statistics
SOC 213	Introduction to Sociology

**Methodology Requirements (17 units)**

BEH 255	Foundational Skills in Behavioral Science I
BEH 256	Foundational Skills in Behavioral Science II
BEH 333	Epistemology and Worldview
BEH 383	Statistical Techniques in Behavioral Science with SPSS
BEH 385	Methods of Research with SPSS

**Upper Division Requirements (27 units)**

SOC 301	Self and Society
SOC 323	Marriage and Family
SOC 335	Social Problems
SOC 337	Deviant Behavior
SOC 338	Group Dynamics and Social Movements
SOC 345	Race and Ethnicity
SOC 347	Sociology of Gender
SOC 352	Sociology of Health and Illness
SOC 381	Social Theory

**Additional Program Courses (6 units)**

CST 100	Overview of the Bible
CST 300-400	Christian Studies Upper Division Course



2015 | 2016

# California Baptist University

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January 8, 2016

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## Directory

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