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Undergraduate

EEO Statement

California Lutheran University admits qualified students of any race, color, gender, sexual orientation, religion, national or ethnic origin, marital status, disability, medical condition or veteran status to all of the rights, privileges, programs and activities generally accorded or made available to students at the university. It does not discriminate on the basis of race, color, gender, sexual orientation, religion, national and ethnic origin, marital status, disability, medical condition or veteran status in the administration of its educational policies, admissions policies, scholarship and loan programs, and athletic and other university administered programs. California Lutheran University will maintain a policy of nondiscrimination for students in compliance with all current and future federal regulations.

The information provided in this catalog reflects an accurate picture of California Lutheran University at the time of publication. The university reserves the right to make necessary changes in procedures, policies, calendar, curriculum and costs. Every effort has been made to ensure the accuracy of the information presented in this catalog. However, all courses, course descriptions, materials, schedules, sequences of courses in programs, instructor designations, curricular degree requirements, methods of instruction, locations of instruction, and fees described herein are subject to change or elimination without notice. This information is provided solely for the convenience of the reader and does not constitute or create a contract between prospective or current students and California Lutheran University. Students should consult the appropriate department, school or college for any special or temporary rules or requirements imposed by the department, school or college.

Admission Office

60 West Olsen Road #1350
Thousand Oaks, CA 91360-2700
805-493-3135
877-CLU-FORU (258-3678)
FAX 805-493-3114
E-mail: cluadm@callutheran.edu
www.callutheran.edu (http://www.callutheran.edu)

Student Grievance and Complaint Procedures

I. Definitions

A grievance arises when a student believes, based on established administrative policies and procedures, that he or she has been treated in an arbitrary or capricious manner by a university department or a representative of the university.

II. Grievances Covered by This Policy

A grievance against a university official arises when a student believes he or she has been treated unfairly by a department or university representative (faculty or staff) acting within their role and duty.

A grievance of personal misconduct by a faculty member or other university employee arises when a student believes he or she is the subject of inappropriate behavior outside of the employee's role and duties within the university.

III. Grievances Not Covered by This Policy Include:

- Grade disputes, academic evaluation disputes and other matters related to a faculty member's assigned duties. The grievance process for these disputes is found in the Academic Policies section of the University Catalog (p. 48).
- Sexual Harassment prohibited by Title IX. Title IX prohibits sexual harassment in education programs and activities at universities that receive federal financial assistance. Sexual harassment includes sexual assault, unwelcome conduct, stalking or dating/domestic violence. For reporting information, please contact (805) 493-3630 or titleix@CalLutheran.edu or visit callutheran.edu/titleix (https://www.callutheran.edu/title-ix/).

IV. Informal Grievance Resolution

Prior to bringing a grievance forward against a university office or representative acting within their role or duty, students are encouraged to attempt a good-faith resolution of the grievance. This attempt may be made with the party directly involved with the disputed matter, or with the head of the department or unit in which the grievance arises. Please note that there are cases when it is appropriate to go directly to the formal grievance resolution process.

Attempts at informal resolution should be initiated within 30 days of the incident in dispute.

V. Formal Grievance Resolution

Should a situation arise in which a student is unable to resolve his or her grievance informally, the university's formal grievance process may be employed. This process, outlined below, should also be initiated within 30 days of the failed informal resolution, if applicable.

Step I

A formal grievance is presented by the student in writing to the Office of the Provost. This written grievance must include the following:

- Name, address, phone number and email of the person making the grievance;
- Identification of the office or individual against whom the grievance is brought;
- A description of the specific university action or individual behavior resulting in this grievance;
- The date or period of time in which the behavior occurred and the location of the incident; and
- A listing of all individuals who witnessed any part of the incident in dispute.

If a grievance is against the provost or staff in the Office of the Provost, then the formal grievance is presented by the student in writing to the Vice President for Student Affairs.

Step II

Upon receipt of the formal grievance, a designee is appointed by the provost to investigate the dispute. Pertinent data (documents, interviews, etc.) will be gathered by the investigator and the matter will be handled in a timely manner.

If the grievance involves a university office or representative acting within their role or duty, the investigator will determine the involvement of pertinent supervisors, department chairs and deans, and present a report to the appropriate department for decision.

If the grievance is based on personal misconduct by a faculty member or other university employee, the investigator gathers pertinent information and presents it to either the pertinent dean (faculty complaint) or the assistant vice president for Human Resources (staff complaint).

Complaint Procedure

Students who have a complaint about their educational experience at California Lutheran University that is not resolved through the above outlined internal University procedures may contact the following California State agency for assistance. An individual may contact the Bureau for Private Postsecondary Education for review of a complaint. The bureau can be contacted at:

Address: 2535 Capitol Oaks Drive, Suite 400

Sacramento, CA 95833

Telephone: (916) 431-6924

FAX: (916) 263-1897

Website: http://www.bppe.ca.gov

President’s Message

Your college years are some of the most transformative in your life. They offer an opportunity to meet new people, reinforce some of your existing beliefs and question others, and engage in activities and programs you might not have experienced before.

While the journey you travel at Cal Lutheran extends far beyond your classroom learning, it is crucial for you to think creatively and proactively about the sequence of classes that will help you make timely progress to your degree. This 2020-2021 catalog can help you map out that journey — use it as a guidebook to set a clear direction that gets you to your goals.

Whether your classes are F2F, hybrid, or largely remote over the next year, you should know that Cal Lutheran remains as committed as ever to supporting your academic success and intellectual growth. In that vein, we have spent the bulk of the summer designing scenarios that will allow us to deliver academic programs and support services — in whichever format makes sense — that will help you reach your full potential. We are here to make sure that your student experience is productive and rewarding every step of the way.

I personally welcome you to our campus community and look forward to helping you reach your academic goals, thrive in your chosen career, and flourish in life.

Lori E. Varlotta, PhD

President

California Lutheran University is a diverse scholarly community dedicated to excellence in the liberal arts and professional studies. Rooted in the Lutheran tradition of Christian faith, the university encourages critical inquiry into matters of both faith and reason. The mission of the university is to educate leaders for a global society who are strong in character and judgment, confident in their identity and vocation, and committed to service and justice.

University Profile

Cal Lutheran is a selective, private liberal arts university based in Thousand Oaks with additional locations in Woodland Hills, Westlake Village, Oxnard, Santa Maria and Berkeley. Its 225-acre main campus sits on land donated by Richard Pederson, a son of Norwegian immigrants. Founded in 1959 as California Lutheran College, it welcomed its first students in 1961 and won accreditation from the Western Association of Schools and Colleges (WASC) during the first academic year. In 1986, the name was changed to California Lutheran University to better reflect the breadth of undergraduate, graduate and professional programs. Today, with an enrollment of 4,100 students, Cal Lutheran offers bachelor's, master's, doctoral, credential and certificate programs through its College of Arts and Sciences, School of Management, Graduate School of Education, Graduate School of Psychology and Pacific Lutheran Theological Seminary. Members of the Cal Lutheran student body come from across the nation and around the world and represent a diversity of faiths and cultures. For more information, visit www.CalLutheran.edu (https://www.callutheran.edu/about/).

Accreditations and Affiliations

California Lutheran University is accredited by the Western Association of Schools and Colleges Senior College and University Commission (WSCUC).

The Graduate School of Education is accredited by the California Commission on Teacher Credentialing (CCTC) to offer credentials. Pacific Lutheran Theological Seminary is accredited by the Commission on Accrediting of the Association of Theological Schools (ATS). The School of Management is accredited by the Accreditation Council for Business Schools and Programs (ACBSP). Cal Lutheran's program in Financial Planning has been registered with the Certified Financial Planner (CFP) Board of Standards Inc. The Graduate School of Psychology is accredited by the American Psychological Association (APA).

The university is a member of the Council of Independent Colleges (CIC), Association of American Colleges and Universities (AAC&U), New American Colleges and Universities (NAC&U), American Council on Education (ACE), Alliance for Hispanic Serving Institution Educators (AHSIE), Council for the Advancement and Support of Education (CASE), and the National Association of College and University Business Officers (NACUBO).

California Lutheran University is one of 26 colleges and universities affiliated with the Evangelical Lutheran Church in America (ELCA), and is a member of the Lutheran Educational Conference of North America (LECNA).

The University's intercollegiate athletic programs compete in the Southern California Intercollegiate Athletic Conference (SCIAC), NCAA Division III.

For information regarding WSCUC accreditation, contact:

WASC Senior College and University Commission
1001 Marina Village Parkway, Suite 402

Alameda, CA 94501
Phone: (510) 748-9001
Email: wascsr@wascsenior.org

Technology and the Quest for Knowledge

Information Technology and Services (ITS) delivers and supports high-quality research and information technology tools for the Cal Lutheran community. The MyCLU portal provides a single gateway to many of the online resources available to students.

The university supports a mixed platform of Mac and PC computers in several labs on campus. In addition to open computer labs, Cal Lutheran provides wired and wireless network access to students free of charge through CLUnet. All residence halls are equipped with WiFi and wired network connections for student use.

CLUWnet provides wireless coverage to all buildings on campus and some outdoor areas. Students can connect their personal computer devices to the wireless network using their personal CLUnet account and password. The Help Desk offers support for CLUnet accounts including scheduling and troubleshooting for wired and wireless hookups.

Pearson Library is an integral part of ITS. The professional staff provides reference assistance as well as information literary instruction for undergraduate and graduate-level courses. One-on-one appointments and virtual one-on-one assistance are available, as well as the usual walk-up research and technology usage assistance. Library reference services that include real-time chat service, email reference, and SMS messaging and mobile initiatives provide students with access to information wherever they are, whenever they need it.

Items not available in the library can be requested through Interlibrary Loan. The library's online catalog, OCLC's WMS, provides access to library collections via the internet, offers a powerful discovery and delivery tool, and student-initiated functions like self-renewal of books and placing holds on print resources.

For detailed information on ITS and Pearson Library, visit www.callutheran.edu/its (https://www.callutheran.edu/its/).

Admission

California Lutheran University seeks students who possess qualities of intellect and character, which will enable them to benefit from and contribute to the university community. Each applicant is judged on individual merit without regard for race, color, creed, gender, sexual orientation, age or national or ethnic origin.

Cal Lutheran maintains an admission office staffed with trained, professional admission counselors who are available to assist students with college planning. People seeking admission services should contact the Office of Undergraduate Admission.

Prospective students and their family members are invited and encouraged to visit the campus. Efforts are made to arrange a campus tour, class visitations and/or meetings with professors or coaches according to the interests of the visitor.

The Office of Undergraduate Admission is open, except during holidays, Monday through Friday from 8:00 a.m. to 5 p.m., and on most Saturdays from October to May by appointment only. Visitors should contact the Office of Undergraduate Admission at least two weeks prior to their visit so that appropriate arrangements can be made.

Application Procedures for Freshman and Transfer Students

International students should follow the procedures listed below. Any additional requirements are listed under the catalog section "Admission of International Students."

1. Application for Admission
Students should complete an application for admission (including essay) through the Common Application with the nonrefundable $25 application fee. Fall application deadlines are as follows.

For First-Year Applicants:

Deadline to apply for Early Action: November 1

Deadline to apply for spring: November 1

Deadline to apply for Regular Decision: January 1

For Transfer Applicants:
Priority Deadline for Fall semester admission: March 15
Regular Admission Deadline for Fall Semester: June 1

Spring Application Deadline: October 1

2. Transcripts
An official transcript from the high school issuing the diploma is required of freshman applicants. Freshman applicants must have their most recent high school transcript sent, followed by a final transcript upon graduation. In addition, if a freshman applicant attended a college or university, all official transcripts must be submitted for review.

Transfer applicants must have a transcript sent from each college/university attended. Transfer applicants with fewer than 30 semester hours or 45 quarter hours of transferable college credit must submit a high school transcript.

U.S. federal government regulations on financial aid awarding require that a transcript showing proof of high school graduation or the equivalent be sent to Cal Lutheran before enrolling.

3. Test Scores
Beginning with the cohort applying for Fall of 2021, California Lutheran University implemented a test-optional policy for all incoming First-Year students. Students seeking undergraduate admission are not required to submit standardized testing as a component of their application process.

When applying for admission, students will have the option to indicate if they wish for their test scores to be considered as part of their application.

Students that indicate "No. I am applying test-optional," will not will not have their ACT or SAT scores considered in the application review process, regardless of how they are reported. Once a student's application is under review, no further changes can be made to their application regarding their test optional status.

Transfer applicants with at least 30 semester hours or 45 quarter hours of transferable college credit need not submit scores from the SAT or ACT (TOEFL or IELTS scores may be required of international students — see "Admission of International Students").

Arrangements to take any of these tests or order additional score reports can be made by contacting:

SAT - www.collegeboard.org

(866) 630-9305

ACT - www.act.org
(319) 337-1000

TOEFL - www.toefl.org
IELTS - www.ielts.org (http://www.ielts.org)

4. Recommendations
Freshman applicants must submit one letter of recommendation from a high school teacher, principal or guidance counselor.
Transfer students must submit a recommendation from a college professor.

5. Additional Information
In addition to the required essay, personal information (excluding information pertaining to certified learning, physical or other disabilities protected under the Americans with Disabilities Act) that may have affected the applicant's previous academic performance may be included with the application or discussed personally with a Cal Lutheran admission counselor.

6. Notification of Admission Decisions
Freshman applicants: Cal Lutheran offers a nonbinding Early Action Plan whereby students completing applications by November 1 will be notified by mid-January. Students who have their application complete by the Regular Decision deadline of January 1 will be notified by April 1. Students who complete their files after January 1 are reviewed on a space-available basis.

Transfer applicants: Transfer applicants who submit all required application materials by the Priority Transfer Deadline of March 15, will be notified by April 30. Transfer applications received between March 16 and the June 1 Transfer deadline will be notified within four weeks of submitting all required application materials. Students who complete their files after June 1 are reviewed on a space-available basis.

An initial review of the file may result in a request for additional information to be sent prior to a final decision being made. Accepted students are asked to submit a nonrefundable $450 enrollment deposit no later than May 1 to secure their place in the class. Extensions may be granted upon request to the Director of Undergraduate Admission.

Right to Withdraw Offer of Admission

By applying for admission to California Lutheran University, applicants certify that the information they provide in their applications is their own work and, to the best of their knowledge, is complete and accurate. As also noted in the application materials, California Lutheran University reserves the right to withdraw an offer of admission under certain circumstances, including but not limited to:

1. If there is a significant drop in academic performance, a failure to graduate (in the applicant's current program), or a failure to satisfy a prerequisite or condition of admission;
2. If there has been a misrepresentation in or a violation of any of the terms of the application process; or
3. If the University learns that an applicant has engaged in behavior prior to the first day of California Lutheran University attendance that indicates a serious lack of judgment or integrity.

Admission of First-Year Students

Students accepted for admission to Cal Lutheran should have completed a college preparatory program with above-average achievement. The following high school course pattern is required as a minimum: four years of English, three of mathematics (through Algebra II), two of foreign language, two of social studies and two of lab science. Applications from promising students who have not completed such a college preparatory program will be reviewed on an individual basis by the Admission Committee.

In addition to the measurement of achievement and aptitude as indicated on transcripts and test scores, other factors considered in the admission process include: recommendations; excellence in co-curricular activities; high achievement in the visual or performing arts; and initiative and seriousness of purpose as evidenced through work, travel experiences or contributions to home, church, community and school.

Students who are denied admission as first-year students are encouraged to apply for transfer admission. To apply as a transfer applicant, refer to the catalog section "Admission of Transfer Students."

Admission of Transfer Students

Cal Lutheran welcomes students who wish to transfer after completing work at other accredited colleges or universities. Admission will be based upon the quality of previous work attempted. The transfer applicant must also be in good standing at their previous college.

Transfer applicants will be required to attend another accredited two- or four-year post-secondary college or university, and successfully complete a minimum of two semesters of full-time academic study (30 semester hours or 45 quarter hours) with a minimum of a 2.75 transferable GPA. In addition, students must complete Freshman English Composition with a grade of C or better and complete Intermediate Algebra or higher to be eligible for admission.

If the transfer applicant's record is deficient in meeting the admission requirements, the Admission Committee may require further evidence of the applicant's ability to complete a program successfully.

Transfer applicants with fewer than 30 semester hours or 45 quarter hours of credit will be evaluated under the requirements for freshman admission. Students interested in transferring with less than 30 semester hours or 45 quarter hours must provide final high school transcripts and course registration at their current college or university.

Admission of International Students

The credentials of an international undergraduate applicant — any student who *does not* hold a U.S. passport or a permanent resident visa (green card) for the United States — are evaluated in accordance with the general regulations governing admission.

Each student is required to submit to the Office of Undergraduate Admission an application, official English certified transcripts, personal essay, letter of recommendation and proof of English proficiency. SAT/ACT examination results are optional.

Applicants from countries whose *primary* language is not English are required to take any one of the following English language exams: Duolingo English Test with a minimum score of 105; Test of English as a Foreign Language (TOEFL) with a minimum Internet-based score of 79; the International English Language test (IELTS) with a minimum score of 6.5, or the Pearson Test of English (PTE) with a minimum score of 54.

Students who successfully complete the university's designated English language affiliate program, or students who have studied in a U.S. high school for four years or have completed two years of English composition at another accredited U.S. college or university may request a waiver of the proof of English proficiency requirement.

In addition, international students who have been admitted to Cal Lutheran must submit proof of sufficient funds to meet their educational expenses while studying at Cal Lutheran *before* a *Form I-20* can be issued. The *Certificate of Financial Support* should be submitted, with appropriate financial documents, to meet both Cal Lutheran and U.S. federal government requirements of proof of financial status for international students.

Deferral Policy

Students who have successfully gained admission to Cal Lutheran may defer their enrollment up to one year by submitting their enrollment deposit by May 1 and a written request to the Office of Undergraduate Admission. The request must include the reason for the deferral. If the reason for deferral is to attend another college or university, the request will not be granted.

Students who choose to attend another college or university on a full-time basis after their request for deferral is granted will forfeit admission and scholarship and will be required to be reconsidered for admission to the University.

All scholarships offered at the time of admission will be honored under this policy unless the student chooses to attend another college or university.

Readmission of Former Cal Lutheran Students

A current Cal Lutheran student who has not been enrolled in classes for two or more consecutive semesters and who wishes to return must apply for readmission through the Office of Undergraduate Admission.

If the student has attended any other colleges or universities during the absence from Cal Lutheran, an official transcript (showing good standing) must be submitted to the Office of Undergraduate Admission for review, along with the *Application for Readmission*. A student's financial aid package, including scholarships, is subject to review upon readmission to the university.

Students readmitted to the university after an absence of fewer than two years may complete requirements under the Cal Lutheran catalog in effect at the time of initial attendance. For separation of more than two years, the catalog in effect at the time of readmission will be applicable.

Minimum Age Requirement

Any student seeking admission to the institution must possess a high school diploma, or equivalent, and meet a minimum age of 16 by the time of enrollment at the institution.

In cases where an applicant is or will be age 16 at the time of enrollment, the Admission Committee reserves the right to require an admission interview, as well as request three (3) Letters of Recommendation in total from academic sources.

Consideration is based upon the judgment of the Admission Committee as to the likelihood of academic preparedness and success for undergraduate study at the institution.

Admission as a Non-degree Student

Individuals not interested in pursuing a degree may be admitted as non-degree-seeking students. This student is not a candidate for a degree from Cal Lutheran but may enroll in courses for credit. They may subsequently become a candidate for a degree by successfully completing the standard undergraduate admission process. Non-degree students are not eligible for Cal Lutheran financial assistance and must submit payment for the class (on

a per-credit basis) prior to registering for their class(es). A maximum of 12 units may be taken at Cal Lutheran under this status. Non-degree students may not enroll in an Independent Study or Internship.

(International non-degree students may not attend Cal Lutheran *for more than two semesters and must be full-time students.)*

An inquiry form for non-degree status is available on the Registrar website (https://www.callutheran.edu/students/registrar/).

Admission of High School Students

High school students of superior ability may apply for enrollment into selected courses. Students must submit an inquiry form for non-degree status along with consent and recommendation of the high school counselor or teacher. Course availability for high school students will be determined by the Registrar's Office through instructor approval.

Admission of Re-entry Students

Applicants who have not been enrolled in a college/university for five or more years may be considered for admission on a case by case basis. Each application will be reviewed by the Admission Committee and evaluated in light of the alternate supplementary material that is made available.

Admission of Homeschooled Students

The academic potential of homeschooled students is evaluated the same as applicants from public or private schools. Students who are homeschooled must complete the following requirements to be considered for admission:

- Students are encouraged to submit external assessments including, but not limited to, standardized testing, AP/IB scores, university level course work.
- Homeschooled students are encouraged to submit passing test scores on the GED (General Equivalency Diploma). The GED test results determine core course units. Exam results must be sent to the Office of Undergraduate Admission, directly from the GED test center.
- Homeschooled students are also encouraged to complete an interview with a Cal Lutheran admission counselor prior to submitting his or her application.
- The primary teacher/administrator of the home school may be asked to provide:
  - A typed transcript (semester format) of the courses the student completed in the home school environment. Grades or averages earned in each course must be included on the transcript. A curriculum synopsis of the courses that parallel Cal Lutheran’s core course requirements may be requested. The synopsis should include a brief description (paragraph) of each of these courses.
  - Textbook information listed by course (including titles and authors). Students who have taken courses in foreign language must include a description of how they learned the verbal component of the language (i.e., tutor, tapes). The home school administrator also should provide a detailed description of how the applicant fulfilled the natural science laboratory requirement.
  - Students who completed courses in a school other than their home school (traditional high school and/or college) must also submit an official copy of their academic transcript from this school.

Please note: Additional supporting documents may be requested by the university to assist officials in making an admission decision.

Placement and Advanced Credit Standing

Students may petition for placement or credit in subjects in which they may have established college-level competence. Methods of challenging include end-of-course examinations, College Level Examination Program (CLEP), standardized tests approved by individual departments, GCR A-Level Examinations, Advanced Placement or International Baccalaureate examinations.

Cal Lutheran recognizes the quality of A-Level courses and examinations. Transfer credits may be awarded based on a review of the student's official score report.

A maximum of 32 credits by exam may be applied to the degree; eight upper-division units can be included in this total.

International Baccalaureate (IB)

Cal Lutheran recognizes the quality of the International Baccalaureate program and awards up to four semester hours of credit for each Higher Level examination score of 4 or higher. Subsidiary Level examinations will not be considered for credit.

Advanced Placement (AP)

Students who have taken an advanced placement course of the College Entrance Examination Board (CEEB) in their secondary school and who have taken the Advanced Placement Examination of CEEB may receive credit. The credit awarded depends on the score a student receives and the subject in which the exam was taken. When official scores are received by the University directly from CEEB, credit is awarded as indicated in the shaded AP area.

Advanced Placement Credit

AP Examination	Grade	Units (credit in appropriate courses)	Course Equivalents
Art: Studio General	4,5	3	Art Elective
Art: Studio-Drawing	3,4,5	3	ART 160
Art: History of Art	3,4,5	3	ART 111
Biology	3	0	exempt from 1 Nat. Sci. persp.
Biology	4	4	BIOL 111 or BIOL 121
Biology	5	6	BIOL 120, BIOL 121
Chemistry	3	0	exempt from 1 Nat. Sci. persp.
Chemistry	4	4	CHEM 151, CHEM 151L
Chemistry	5	4	CHEM 151, CHEM 151L
Computer Science A	4,5	4	CSC 110
Computer Science AB	3	4	CSC 110
Computer Science AB	4,5	4	CSC 210
Economics: Mic	4,5	3	ECON 200
Economics: Mac.	4,5	3	ECON 201
English: Lang & Comp	3	0	ENGL 110
English: Lang & Comp	4,5	3	ENGL 111
English: Lit & Comp	3	0	ENGL 110
English: Lit & Comp	4	3	Lit. Perspective
English: Lit & Comp	5	4	Lit. Perspective
Environmental Science	4,5	4	GEOL 152, GEOL 152L
Foreign Language: French	3	0	Exempt from FREN 101
Foreign Language: French	4,5	4	FREN 101
Foreign Language: Spanish	3	0	Exempt from SPAN 101
Foreign Language: Spanish	4,5	4	SPAN 101
Foreign Language: German	3	0	Exempt from For. Lang. req.
Foreign Language: German	4	4	Exempt from For. Lang. req. & credit in 201
Foreign Language: German	5	8	GERM 101, GERM 102
Foreign Language: Other Lang.	3	0	Exempt from 1st semester
Foreign Language: Other Lang.	4,5	4	1st semester language
Government & Politics	4,5	4	POLS 102 or POLS 222 (major)
History: American	4	0	Exempt from History Perspective
History: American	5	3	HIST 121 or HIST 122
History: European	4	0	Exempt from History Perspective
History: European	5	3	HIST 102
Human Geography	3	0	exempt from 1 social science
Human Geography	4,5	3	One Social Science Course
Latin	4,5	4	Exempt from For. Lang. req.
Math	3	0	Exempt from Math proficiency
Math: Calculus AB	4,5	4	MATH 251
Math: Calculus BC	4,5	8	MATH 251, MATH 252
Math: Statistics	4,5	4	Elective credit only (does not satisfy Math prof.)
Music: Listening & Lit.	4,5	3	MUS 101
Physics: B (non-calc)	4,5	8	PHYS 201 & PHYS 201L, PHYS 202 & PHYS 202L
Physics: C (Mechanics)	4,5	4	PHYS 211 & PHYS 211L
Physics: C (E&M)	4,5	4	PHYS 212 & PHYS 212L

Psychology	3	0	Exempt from PSYC 200
Psychology	4,5	4	PSYC 200

Financial Aid

The Office of Financial Aid at California Lutheran University offers a variety of resources to help bridge the gap between the institution's cost of attendance and a family's ability to pay. Awards of financial assistance to Cal Lutheran students may include funds from the federal or state government, the institution and/or from outside organizations.

All Cal Lutheran students are encouraged to apply for financial aid. Cal Lutheran does not discriminate on the basis of race, color, national or ethnic origin, religious affiliation, age, gender, gender identity, sexual orientation, or disability in administering its financial aid programs.

For complete information on all available awards and financial aid policies please visit the Cal Lutheran Financial Aid website (https://www.callutheran.edu/financial-aid/).

Students need to complete the Free Application for Federal Student Aid (FAFSA) to apply for financial aid which is available online at **www.fafsa.gov.** The Title IV school code for California Lutheran University that students need to indicate on the FAFSA is **001133**.

Procedures

To be considered for all types of financial assistance, the applicant needs to do the following:

1. Apply for admission to California Lutheran University and be admitted or be a currently enrolled student who is continuing enrollment at Cal Lutheran for the following academic year.
2. Submit a Free Application for Federal Student Aid (FAFSA). The FAFSA may be completed and submitted online at www.fafsa.gov **(**http://www.fafsa.gov/**)**. The Title IV school code for California Lutheran University that students need to indicate on the FAFSA is **001133**
3. If selected for verification, students must submit all requested documentation to the Office of Financial Aid within 30 days of receipt of the letter from the Office of Financial Aid.

After a student is awarded financial aid, an email notification is sent to the student's callutheran.edu email address and the student can review the award through the Self-Service option in WebAdvisor. Incoming new students also receive a paper financial aid award letter. The student must accept the award(s) he or she wants and decline the award(s) he or she does not want. If the student chooses to borrow funds, he or she must follow the steps to complete the loan application and complete a Master Promissory Note and Entrance Counseling (if applicable).

To receive the full amount of federal and state grant aid and any institutional gift money awarded as part of an undergraduate student's Financial Aid Award, the student must be enrolled in at least 12 undergraduate units per semester. Students enrolled in less than 12 undergraduate units per semester will not be eligible for institutional gift aid and will most likely see a reduction in federal and state grant aid. Students must be enrolled in at least six undergraduate units per semester to be eligible for federal loans.

If a student is in his or her last semester prior to graduation and requires less than 12 units to complete his/her graduation requirements, he or she will only be eligible to receive a prorated amount of institutional gift assistance and federal loan funds. Please contact the Office of Financial Aid for more information.

New Students

For priority awarding, all of the above steps need to be completed between **October 1 and March 1**.

California residents who are applying for a Cal Grant must complete the FAFSA and the Cal Grant GPA Verification Form by March 2. The GPA Verification Form is available at www.csac.ca.gov **(**http://www.csac.ca.gov/**)** and is normally completed using the student's high school grade point average (GPA) or the GPA submitted by the student's community college of attendance.

Renewal Applicants

Financial aid awards are made for one year only. Renewing students must re-apply each year by resubmitting/renewing the FAFSA. Failure to submit the FAFSA may result in a reduction of federal and/or institutional aid. Please note that CLU will submit all renewing students' GPAs to the California Student Aid Commission (CSAC) for consideration for Cal Grant by March 2. CLU students who have not completed or transferred in at least 24 units must request the GPA Verification Form be submitted by the previous institution attended.

Academic Scholarships and Visual and Performing Arts Scholarships are renewable if the student maintains Satisfactory Academic Progress (SAP) requirements and meets all department requirements.

Dependency Status

Students are generally considered as dependent students for financial aid purposes unless one of the following criteria is met. A student is considered "independent" if he or she falls within one of the following categories at the time the FAFSA is filed:

1. Is 24 years of age or older.
2. Is a veteran of the U.S. Armed Forces.
3. Is currently serving on active duty in the U.S. Armed Forces for purposes other than training.
4. Is pursuing a master's or doctoral degree.
5. Is married.
6. At any time after age 13, both parents are deceased, were in foster care or were a dependent or ward of the court.
7. Has children he or she financially supports more than 50%.
8. Has legal dependents (other than children or a spouse) he or she financially supports more than 50%.
9. Is an emancipated minor as determined by a court in the student's state of legal residence.
10. In a legal guardianship as determined by a court in your state of legal residence.
11. Other categories as listed on the FAFSA regarding being an unaccompanied youth who was homeless or were self-supporting and at risk of being homeless.

If a student has special circumstances, a dependency override may be considered. Contact the Office of Financial Aid for the forms needed to appeal dependency status.

Cal Lutheran Academic Scholarship

Academic Scholarships are awarded to new freshman and transfer students who qualify. Scholarships are renewable for up to four years based upon the student's grade level at entrance, cumulative Grade Point Average (GPA), and Satisfactory Academic Progress (SAP). Students must maintain Satisfactory Academic Progress (SAP) to be eligible for financial aid, including Academic Scholarships. To meet SAP, a student must have a cumulative GPA of 2.0 or higher, must complete at least 67% of units attempted, and must not exceed the maximum time frame outlined in the SAP policy.

Cal Lutheran Presidential Scholarship

Presidential Scholarships recognize and reward graduating high school seniors in the top tier of Cal Lutheran's applicant pool who embody the University's educational and leadership goals. Students invited to come to campus for Honors Visit Day will interview for the top scholarships offered by the University. These scholarships are renewable for up to four years as long as the student maintains meets Satisfactory Academic Progress. The scholarships awarded through this program will replace any Academic Scholarship the student received at the time of admission and will also replace the Cal Lutheran Guarantee Scholarship in its entirety if it is higher.

Cal Lutheran Public Price Promise Scholarship

Cal Lutheran offers first-year and transfer students who are also admitted to UCLA, UCSB, UC Davis, UC Berkeley, UCSD or UC Irvine a renewable scholarship based on the Cost of Attendance (COA) at Cal Lutheran and the average COA of these six public institutions. The scholarship makes the cost of tuition at Cal Lutheran approximately the same as the average cost of attending these six state institutions. To receive the Cal Lutheran Guarantee Scholarship in subsequent years, the student must meet SAP standards. The scholarship is renewable for up to four years **based on the student's grade level at time of enrollment**. The Cal Lutheran Public Price Promise Scholarship will replace any Cal Lutheran Academic Scholarship the student received at the time of admission and will also replace the Presidential Scholarship in its entirety, if the Public Price Promise is higher.

Visual and Performing Arts Scholarship (VAPA)

Students with talent in the areas of visual arts, theatre arts, or vocal or instrumental music can audition for a VAPA scholarship prior to enrolling at Cal Lutheran. For students planning to enroll in fall semester the application information, deadlines and audition dates may be viewed on the VAPA webpage (https://www.callutheran.edu/financial-aid/scholarships-grants/details/vapa.html). For spring enrollment, students are considered on a case-by-case basis by the faculty if funds are available. For more information, please contact the Admission Office.

Congregational Partners in Education (CPE) Award

This renewable award allows congregations to assist outstanding young people who have demonstrated a commitment to the life and work of their church. Cal Lutheran will match gifts from the congregation in support of a student up to a maximum of $2,500 as long as the student is enrolled full time (12 units per semester).

Partners In Ministry Scholarship

The ELCA Pastor's Family Award of $4,000 per academic year is available to children of all ELCA clergy. To be eligible, students must be unmarried, under the age of 23, and enrolled full time at CLU (12 units per semester).

Cal Grant

Awards of up to $9,084* for Cal Grant A and up to $10,756* for Cal Grant B and Access are offered by the California Student Aid Commission to newly eligible students who are residents of California, have financial need as defined by the state, and who meet the academic and income/

asset requirements in effect at the time of application. A Cal Grant GPA Verification Form is required for first-time applicants. The Verification Form and the FAFSA must be submitted by March 2 to be considered for eligibility.

* These amounts are subject to change based on the annual amounts as determined by the California Student Aid Commission (http://www.csac.ca.gov/) and funding available from the state of California.

Federal Pell Grant

Federal Pell Grant is available to undergraduate students with exceptional financial need. To apply, students must complete the FAFSA form. For 2017-2018, eligible students received up to $5,920* if they meet eligibility requirements.

*This amount is subject to change each year depending on government regulations and the federal budget allocations. Please go to the Office of Financial Aid's website for the most up-to-date information.

Federal Supplemental Educational Opportunity Grant (FSEOG)

Federal SEOG is provided to eligible students with extremely high financial need. Unlike Federal Pell Grants, FSEOG funding is very limited. Cal Lutheran receives a specified amount of FSEOG funds each school year. Once those funds are depleted, no additional awards can be made to students.

Student Employment

The Student Employment Office coordinates part-time, opportunities for all on- and off-campus federal and campus work-study positions on the student employment website. Positions are posted as they become available. All Cal Lutheran students seeking employment information may contact the Student Employment Office (https://www.callutheran.edu/students/employment/) for further information.

Federal Work-Study

Federal Work-Study (FWS) is a part-time employment program which helps high-need students meet educational expenses. While FWS offers students the opportunity to apply for a job, there is no guarantee of obtaining a position as job availability is limited. FWS jobs are highly competitive and it is the student's responsibility to be proactive in applying and following up with prospective employers.

Students may still qualify for student employment jobs at Cal Lutheran even if they are not eligible for the Federal program.

Federal Perkins Loan

This low interest subsidized loan is made available to students who qualify on the basis of verified financial need. Based on available funds, undergraduate students may borrow up to $5,000 per year at Cal Lutheran. Students are awarded a Federal Perkins Loan by the Office of Financial Aid based on EFC, need, and grade level. If a student is offered a Perkins Loans, he or she must complete Entrance Counseling and an application in order to receive the loan.

Repayment begins nine months after graduation or at the time the student leaves the University or drops below half-time enrollment. Repayment may be extended for up to 10 years. Loan deferments are available for individuals who return to school for the purpose of furthering their education. Exit Counseling is required prior to leaving Cal Lutheran, graduating, or when the student is no longer eligible to receive a Perkins Loan.

For more information on the Perkins loan please see the CLU webpage on Perkins Loans (https://www.callutheran.edu/financial-aid/loans/loan-types/perkins-loan.html).

*The information above regarding the Federal Perkins Loan is accurate as of time of printing. Due to potential legislation from the government, the rules and regulations surrounding the Perkins Loan may change at any time. Please check with the Office of Financial Aid on the current state of this program.

Federal Direct Student Loan

The Federal Direct Loan program is divided into two types of loans – subsidized and unsubsidized. Both have fixed rates (please contact the Office of Financial Aid for the most current interest rate information) and are available to students who are fully admitted to an eligible program of study and are enrolled at least half time (for traditional undergraduate students this means being enrolled in at least six units per semester).

The U.S. Department of Education funds the loan. Students must apply and may need to complete Entrance Counseling. At the present time, the maximum amount that can be borrowed by a dependent student for an academic year is $5,500* for freshmen (up to $3,500 of this amount may be subsidized); $6,500* for sophomores (up to $4,500 of this amount may be subsidized); and $7,500* for juniors, seniors and teacher preparation students (up to $5,500 of this amount may be subsidized).

At the present time, the maximum amount that can be borrowed by an independent student for an academic year is $9,500* for freshmen (up to $3,500 of this amount may be subsidized); $10,500* for sophomores (up to $4,500 of this amount may be subsidized); and $12,500* for juniors, seniors and teacher preparation students (up to $5,500 of this amount may be subsidized).

The federal government pays the interest on the subsidized Direct Loan while the student is enrolled in school at least half time (at least six units per semester). Students who do not qualify for the subsidized Direct Loan may borrow the unsubsidized Direct Loan which does accrue interest. Students have the option of making interest-only payments or allowing interest to accrue. To apply, students must complete a FAFSA form, accept the loan as part of the Financial Aid Award, and submit an online loan application.

For more information on student loans visit the CLU webpage on Direct Loans (https://www.callutheran.edu/financial-aid/loans/loan-types/direct-loan.html).

*Amounts are subject to change based on government regulations and allocations. Please contact the Office of Financial Aid for the most up-to-date information.

**The information above regarding the Federal Direct Loan is accurate as of time of printing. Due to potential legislation from the government, the rules and regulations surrounding the Direct Loan may change at any time.

Direct Parent PLUS Loan

Direct Parent Loans for Undergraduate Students (PLUS) are available to biological parents or stepparents who are listed on the FAFSA of dependent undergraduate students. The interest rate is fixed at 6.41 percent*. The annual loan limit is the student's cost of attendance minus other financial aid the student is receiving.

If the Direct PLUS loan is denied, the dependent student will be eligible for additional unsubsidized Direct Loan money in the following annual amounts: for freshmen and sophomores $4,000, and for juniors and seniors $5,000.

For more information on parent loans visit the CLU webpage on PLUS Loans (https://www.callutheran.edu/financial-aid/loans/loan-types/parent-plus-loan.html).

*Interest rates are subject to change annually based on government regulations. Please contact the Office of Financial Aid for the most up-to-date information.

Private Loans

Alternative Student Loans are loans that are available to students who need additional assistance after exhausting any Direct Student Loan and/or Direct PLUS Loan options. These loans are borrowed by students for their educational related expenses, they are credit based and require a credit check and oftentimes a co-signer/endorser on the loan. Private loans are borrowed from banks, credit unions, or private education lending institutions. They can have variable or fixed interest rates and may have lending fees associated with the loan. For more information and to compare lenders and loan conditions please visit the CLU webpage on alternative loans (https://www.callutheran.edu/financial-aid/loans/loan-types/alternative-loans.html).

Resident Assistantships

Resident Assistantships are awarded with financial aid funds. Selection is made through the Residence Life Office. Students who are Resident Assistants cannot be Departmental Assistants or have another on-campus job through Federal or Campus Work-Study.

Departmental Assistantships

Departmental Assistantships are hourly paid positions. Students must adhere to student employment guidelines as outlined for Federal Work-Study (FWS) and Campus Work-Study (CWS) students. Students who are Departmental Assistants cannot be Resident Assistants or have another on-campus job through Federal or Campus Work-Study.

Veterans' Benefits and Responsibilities

Veteran's Benefits and Responsibilities

As students of California Lutheran University, veterans or their eligible dependents may be entitled to education benefits through Veterans Affairs. All newly admitted students shall submit an Intake Form, (Located atwww.callutheran.edu/veterans (http://www.callutheran.edu/veterans/)) and upload required documentation and attend a GI Bill Orientation. All students who wish to use their benefits shall submit a Certification Request Form (Located at www.callutheran.edu/veterans (http://www.callutheran.edu/veterans/)) each semester or term they wish to use GI Bill benefits. Students who receive VA benefits are responsible for promptly notifying the VA Certifying Official in the Ahmanson Veterans Resources Office of changes in academic program, course load, address, marital or dependent status, and of withdrawal from one or more classes. Questions about enrollment status should be directed to the VA Certifying Official in the Ahmanson Veterans Resources Office (805)493-3648. For information about benefits, contact the U.S. Department of Veterans Affairs (https://benefits.va.gov/benefits/) or the Ahmanson Veterans Resources Office.

Information for students Using Vocational Rehabilitation and Employment benefits (CH31) or Post-9/11 G.I. Bill® (CH33)

A student using Vocational Rehabilitation and Employment benefits (CH31) or Post-9/11 G.I. Bill® (CH33) will be allowed to enroll in and attend courses and access campus facilities while the campus awaits payment for tuition and fees from the VA. While awaiting receipt of funds from the VA, California Lutheran University will not impose any penalty, charge late fees or require an eligible student to borrow additional funds to cover tuition or fees. This

waiting period begins the date the student provides appropriate documentation and continues either until funds are received from the VA or until 90 days after the School Certifying Official has certified the student's enrollment for tuition and fees.

To demonstrate current eligibility and intent to use Chapter 31 or 33 benefits, a student must provide the following documents:

· VA Form 28-1905 (Authorization and Certification of Entrance or Reentrance into Rehabilitation and Certification of Status); **or**

· Certificate of Eligibility (COE) or Education Enrollment Status form (printed from the VA website).

· A written request to use either VA Vocational Rehabilitation or Post 9/11 G.I. Bill benefits; and

· All additional information requested by the School Certifying Official to properly certify enrollment to the VA.

- Intake Form
- Certification Request Form

The following forms can be submitted at https://www.callutheran.edu/veterans/forms.html

For more information regarding this policy, contact your School Certifying Official at (805) 493-3648

GI Bill® is a registered trademark of the U.S. Department of Veterans Affairs (VA). More information about education benefits offered by VA is available at the official U.S. government Web site at https://www.benefits.va.gov/gibill (https://gcc01.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.benefits.va.gov%2Fgibill&data=02%7C01%7CLindsay.Blomberg%40CalVet.ca.gov%7C138d1a39a6f148fec9ec08d724d8eac7%7C5b77b8ed547d427cbeb158a7d93b1f81%7C0%7C0%7C637018386394055292&sdata=VdSY0mthx8k%2F17YqlrGzY%2B67jlYr%2FxSseQU1DIW%2FNbg%3D&reserved=0).

ROTC Scholarship Program

Students who qualify may enroll UCLA's Army ROTC program and attend Cal Lutheran as a part of the Crosstown Partnership agreement. Cal Lutheran agrees to apply academic units earned in the ROTC programs to transfer in as elective credits toward graduation at Cal Lutheran. For further information on ROTC and possible scholarships, contact the Ahmanson Veterans Resources Office (805)493-3648.

Aid for Native Americans

Native American students who can prove membership of a federally recognized tribe may receive educational grants from the federal Bureau of Indian Affairs (https://www.bia.gov/) (BIA).

Additional Aid Opportunities

There are other scholarships and financial aid opportunities available through Cal Lutheran. Please refer to the Office of Financial Aid (https://www.callutheran.edu/financial-aid/) website for information on endowed Cal Lutheran Scholarships, private resources and other opportunities.

Student Responsibility of Reporting Changes

It is the student's responsibility to report any change in status or financial resources while receiving financial aid. Failure to do so may result in denial of further financial aid.

The Office of Financial Aid receives periodic reports from the Housing, Registrar, and Payroll offices listing student resources in the form of room and board awards, nontaxable income (VA, Social Security, private scholarships) and earnings other than Work-Study. These reports are checked against previously reported student resources to determine ongoing eligibility.

Financial aid awards will be adjusted if receipt of additional resources results in a reduction of financial eligibility. If funds in excess of the revised eligibility figure have already been received, the student is responsible for the immediate repayment of those funds.

If students have questions about the eligibility requirements of a specific award program he or she shoudl contact the Office of Financial Aid.

Similarly, if circumstances change to increase financial need, consideration will be given to an increased award if funds are available.

Satisfactory Academic Progress (SAP)

In accordance with Federal Financial Aid Regulations, financial aid recipients are required to meet SAP requirements toward graduation in order to continue to receive financial aid.*

In order to receive financial aid [which includes Cal Lutheran Academic Scholarships, Cal Lutheran Scholarships, Cal Lutheran Grants/Match Programs, Federal Pell Grants, Federal Supplemental Educational Opportunity Grants (FSEOG), Cal Grants, Federal Work-Study (FWS), Perkins Loans, Federal Direct Loans, Direct PLUS Loans, and Alternative Loans certified by Cal Lutheran], a student must be enrolled in an eligible program of study that leads to a Bachelor's Degree. In addition, there are three requirements that students must meet to be eligible to receive financial aid:

1. **Qualitative requirement:** 3.00 is the minimum grade point average (GPA) the student must maintain;

2. **Quantitative requirement:** maintain a 67% course completion rate or pace to graduate in a timely manner. Calculated through examining the number of units the student completes versus the number of units attempted;

3. **Maximum Timeframe:** Students must complete their program in 150% of credits/time it is projected to take. This is the maximum length of time for which the student may receive financial aid

*To learn more about the SAP policy and other academic progress policies that affect continued eligibility for federal, state, and/or institutional funding, please refer to the SAP policy (https://www.callutheran.edu/financial-aid/policies-eligibility/eligibility.html) on the Office of Financial Aid website.

Withdrawal Policy in Regards to Return of Title IV Funds

Students should refer to the official academic withdrawal policy described in the current course catalog (Undergraduate Catalog (p. 48), Graduate Catalog (http://catalog.callutheran.edu/grad/academicpolicies/)). Students are considered to be recipients of Title IV federal financial aid if they are eligible to receive or have received funds from one or more of the following programs for the academic term in questions: Federal Direct Unsubsidized Loan, Federal Direct Subsidized Loan, Federal Perkins Loan, Federal Direct Plus Loan, Federal Pell Grant, Federal Supplemental Educational Opportunity Grant, and TEACH Grant. Students should be aware that federal aid is earned on a pro-rata basis determined by the amount of time that they are enrolled in their courses for a given academic period. For students who are receiving federal aid who withdraw from all courses before attending at least 60 percent of the academic period, Cal Lutheran is required by federal regulations to calculate how much federal aid funds the student has earned and how much of the aid must be returned. The amount of the federal aid 'earned' is determined by the withdrawal date provided by the Registrar’s Office and is plugged into a federal formula.

The above is in accordance with 34 Code of Federal Regulation 668.16(g).

The portion of federal aid that was not earned by a student will be returned to the federal government. To satisfy federal regulations, Return to Title IV financial aid programs must be made in the following order: Federal Direct Unsubsidized Loan, Federal Direct Subsidized Loan, Federal Perkins Loan, Federal Direct Plus Loan, Federal Pell Grant, Federal Supplemental Educational Opportunity Grant, and TEACH Grant. Please contact the Student Accounts Office to determine the amount that the student will be charged for the time they were enrolled, students will also be charged for any amounts that must be returned due to the calculation and these balances must be paid by the student. Please note if you are a work-study employee, you are no longer eligible to receive payment from Federal Work-Study funds effective immediately when you withdraw.

If the calculation produces a credit to the students account (when the amount of aid earned is greater than the amount that has disbursed to the student's account) any grant funds will be applied to the account without notification. However, please note that if Direct or Plus Loan funds are eligible to disburse under these conditions the borrower will be notified via email informing them of their eligibility and the borrower must confirm in writing that they want the loan to be disbursed. If no confirmation is received by the Office of Financial Aid within 30 days, the loan will be cancelled.

Non-Title IV programs (such as scholarships, grants, Cal Grant, and Alternative Loans) are not part of the Return of Title IV aid calculation; however they may be subject to reduction in cases of withdrawal based on institutional policy.

Important Note: Separating from Cal Lutheran without officially withdrawing can cost you.

If you 'walk away' from your courses and /or fail all of the classes you were enrolled in you will be considered 'unofficially withdrawn'. Federal regulations require that the Office of Financial Aid complete a Return of Title IV calculation based on the midpoint of the term, which will significantly affect the amount of aid you will retain for the term. Please note it is VERY IMPORTANT to complete a Separation Form with the Registrar's Office.

Student Rights and Responsibilities

Student Rights

1. I have the right to know what student financial aid programs are available at Cal Lutheran.
2. I have the right to know the deadlines (if any) for submitting applications for each financial aid program.
3. I have the right to know how my financial need was determined, including how various expenses in my budget are considered.
4. I have the right to know what resources are considered in the calculation of my awards.
5. I have the right to request an explanation of the various programs in my financial aid package.
6. I have the right to consult with persons in the Financial Aid Office concerning my application for assistance, budgeting and/or financial problems which might arise.
7. I have the right to cancel any loan proceeds received via Electronic Funds Transfer up to fourteen days after the credit has been applied.

Student Responsibilities

1. I will check my Cal Lutheran e-mail on a regular basis.
2. I must complete all application forms accurately and submit them on time to the appropriate office.
3. I must provide correct information. In most instances, misreporting information on financial aid forms is a violation of federal law and may be a criminal offense, which could result in indictment under the U.S. Criminal Code.
4. I must provide any additional documentation, verification information, or corrections requested by the Financial Aid Office or the agency to which I submitted my application before any funds will be disbursed.
5. I am responsible for reading, understanding, and retaining copies of all forms I am asked to sign.
6. I must accept responsibility for all agreements I sign.
7. I am responsible for knowing the sources of financial aid, which I receive and whether the aid is a loan, grant, or scholarship. If the aid is a loan, I must know to whom repayment is to be made and the terms of repayment.
8. I must keep the Financial Aid Office informed of my correct address at all times - while I am in school and after graduation - while any loans are outstanding.
9. It is my responsibility to complete an exit interview online, prior to my separation from Cal Lutheran either by graduation or withdrawal.

Falsification of Financial Information

The types of information covered by this policy include all documentation and information submitted to the Office of Financial Aid. A school must report any credible information indicating that an applicant for Federal Student Aid may have engaged in fraud or other criminal misconduct in connection with his or her application. These documents and information include, but are not limited to the following:

- Free Application for Financial Aid (FAFSA)
- Student Aid Report (SAR)
- Student and/or Parent Federal Tax Forms
- Documentation of U.S. Citizenship or Eligible Non-Citizen Status
- Formal forms of identification (i.e. driver’s license, social security cards, etc.)
- Academic documents relating to high school diploma or college course work
- Loan applications, Promissory Notes
- Scholarship applications
- Work-Study authorization forms
- Work-Study timesheets
- Any university financial aid forms and related documentation
- Any written, electronic, or verbal statements sent to or made to a university employee regarding the student's financial aid application or financially related documents.

The integrity of the information presented in the financial aid process is of the utmost importance. Students should be aware that they will be held responsible for the validity of the information that is submitted by them or on their behalf to the Office of Financial Aid. If the University determines that a student or parent has provided false information, or has submitted forged documents or signatures, the following steps may be taken without prior notification to the student or parent.

The Office of Financial Aid will review the infraction and if a violation of this policy has occurred, the consequences may include but are not limited to:

- The student will be required to make full restitution of any and all federal, state, grant, and loan or work funds to which he or she was not entitled to.
- If the student is determined to be ineligible for financial aid because of a basic eligibility criterion, no further federal, state, or university funds will be awarded to the student for the academic period in question.
- The student may be ineligible for future participation in some or all financial aid programs for a minimum of one year or longer.
- The student will not be awarded funds to replace those lost because the student is considered to be ineligible due to dishonesty.

As required by federal and state law, the Cal Lutheran Office of Financial Aid will report any infraction to the appropriate office or agency. These include but are not limited to: the US Department of Education, Office of the Inspector General, state agencies, or other entities that may take whatever action is required by law.

University Costs

This section explains the financial responsibilities associated with enrollment at Cal Lutheran. Specific details regarding fees, payment methods, due dates, policies and procedures administered through the Student Accounts office are provided for your information.

Enrollment Deposit

A $450 non-refundable enrollment deposit is required of all new students.

Housing Damage Deposit

A $400 damage deposit must be submitted with the initial housing application. Refund will be made after graduation or withdrawal, provided there are no other financial obligations to the University.

Registration and Fee Payment Policy

- Complete the registration forms
- Review your online pre-bill in WebAdvisor
- Fill out the online Payment Contract located on the Cal Lutheran Student Accounts website
- Pay the required tuition, fees and housing charges prior to the deadline for fee payment, as noted on the statement of charges. Exceptions are those who have enrolled in the monthly payment plan.

Note: Students who have estimated financial aid (including loans) must confirm pending aid and make payment of any difference. Proceeds from Stafford loans are received on various disbursement dates throughout the semester. The lender may send correspondence indicating an earlier disbursement date, but refunds will not be released before the third week of the semester. Therefore, students must be prepared with other funds to purchase books and supplies. Average cost of books for one semester is $850.

Payment Methods

Paying in Full

The student account balance is paid in full prior to the beginning of the registered term or by the financial clearance deadline.

Pay by Check

Please include your student ID number on the check and mail to:

California Lutheran University
Business Office #1220
60 West Olsen Road
Thousand Oaks, CA 91360

Pay online through CLUpay

CLUpay allows students to:

- Make tuition and deposit payments online
- Receive email and text notifications when interest accrues on your account
- View and print your most recent monthly statements and billing history
- View e-payment history
- Create a unique login for authorized users, i.e., parents, etc.
- Enroll in an automatic monthly payment plan
- Set up eRefunds to get refunds faster
- Initiate international wire transfers

Electronic Statements and Payment Opportunities on CLUpay

1. Login to MyCLU
2. Open WebAdvisor
3. Click on CLUpay

Authorizing Users for Electronic Account Access

1. Login to MyCLU
2. Open WebAdvisor
3. Click on CLUpay
4. Create Authorized User PIN

Pay via ACH on an Automatic Monthly Payment Plan

1. Enrollment fees apply
2. Plans available for 15-week semesters and 11-week terms
3. Employer Reimbursement participants do not qualify
4. Contact us at stuaccts@callutheran.edu or call (805) 493-3180 to speak to a Cal Lutheran representative who will help you estimate your costs.

Finance Charge

A finance charge of 0.83 percent per month will be added to account balances at the end of each monthly billing cycle if arrangements have not been made to participate in the Monthly Payment Plan.

Online Service

Cal Lutheran provides students and parents the convenience of online billing and payment options through CLUpay. Email notifications are sent to students via their Cal Lutheran email accounts. CLUpay offers unique login PINs for authorized users, i.e., parents, employers, etc. Paper statements are only sent to the home address prior to the beginning of each semester. CLUpay accounts need to be checked monthly for new charges, credits, and/or assessed interest.

Financing Alternatives

Contact the Cal Lutheran Financial Aid Office at (805) 493-3115 for information on other financing options such as alternative loans. Students or parents may also want to contact their lending institutions for other possible sources of financing. Many commercial lenders will make private educational loans to families who meet their credit requirements. These loans are available in a variety of forms, including personal loans, credit lines, home equity loans, insurance policies and passbook savings loans.

Reduction of Charges

Withdrawal dates used by the Student Accounts Office for reduction of charges are not the same as withdrawal dates used by the Registrar's Office as the last date for dropping a class. To officially withdraw from a class and be eligible for a tuition adjustment, the student must:

1. Withdraw online through WebAdvisor. Upon completion of your online withdrawal, a confirmation will be emailed to you at your Cal Lutheran email address. If you do not receive this confirmation email, you must verify your withdrawal by looking at "My Schedule" through WebAdvisor. If, at any time, proof is required of a successful change to your enrollment, a copy of the email confirmation or a copy of "My Schedule" will be required.
2. Submit a Change of Program form to the Registrar's Office on the Thousand Oaks campus. Cal Lutheran does not automatically drop students from a class if they register but do not attend. Students remain financially responsible for a reduced portion of their charges according to the following schedule:

Tuition

1. Withdrawal during first and second weeks of semester: 80% refund of tuition charges
2. Withdrawal or course drops during third and fourth weeks of semester: 40% refund of tuition charges
3. Withdrawal or course drops during fifth week of semester: 20% refund of tuition charges
4. Withdrawal or course drops after the fifth week: no refund

Board

Board reductions are made on a proportional basis computed from the date the student officially withdraws and leaves campus.

Room

No reduction is made for room charges once classes have started. Returning students who cancel their housing contract between May 1 and August 1 will be charged a $200 cancellation fee. Cancellations after August 1 will be charged $400.

Student Vehicles

To assist Campus Security, all vehicles must display a current Cal Lutheran vehicle registration permit. Fines may be assessed if vehicles are not properly registered. For parking and vehicle registration information, visit the Campus Safety and Security website at http://www.callutheran.edu/safety_security/. (http://www.callutheran.edu/safety_security/)

Rights and Responsibilities

Upon registration, students and their parents (or legal guardian) agree to accept the responsibility and legal obligation to pay all tuition costs, room and board fees, and other special fees incurred or to be incurred for the students' education.

Students also agree to:

- Confirm registration within the first two weeks of the semester
- Promptly respond to all communication requests from any office on campus
- Submit all necessary forms and information to the Financial Aid and Student Account offices in a timely manner
- Apply any and all Federal Work-Study checks as payment to unpaid student account balances

The University, in turn, agrees to make available to students certain educational programs and the use of certain university facilities, as applicable and as described in university publications.

Some or all instruction for all or part of Academic Year 2020-2021 may be delivered remotely or via a hybrid model. Tuition and mandatory fees have been set regardless of the method of instruction and will not be refunded in the event instruction occurs remotely or via a hybrid model for any part of the Academic Year.

Failure by a student to pay all university bills shall release the University from any obligation to continue to provide the applicable educational benefits and services including, but not limited to, transcripts of records, diplomas or registrations. The student may also be denied admittance to classes and the use of university facilities. Under certain circumstances, student paychecks may be applied to unpaid balances.

Costs for the Academic Year 2021-2022

Tuition

Activity	Cost
Tuition - Full-time (12-18 credits per semester)	$45,500.00
Student Fees (per semester)	$131.25
Technology Fee (per semester)	$110.00

Room and Board

Note: The standard residence halls are closed during Christmas break. The apartment residence halls will be open to those residents during Christmas break. The dining hall is closed and no meals are served during Thanksgiving, Christmas, spring and/or Easter vacations.

Room (per semester) Undergraduate

Activity	Cost
Standard residence halls	$8,130.00
Kramer	$11,650.00
Mogen Hall	$11,650.00
Grace Hall/Trinity Hall	$13,010.00
Trinity Studio	$13,670.00

Room - Graduate Students

Activity	Cost
Grace Hall - Graduate	$16,470.00 (academic year)

Board (per semester)

(Residents of Kramer, Mogen, Grace, and Trinity halls and university-owned houses are not required to purchase a meal plan.)

Activity	Cost
19 Meal Plan (50 Points) per semester	$3,420.00
210 Block Plan (50 Points) per semester	$3,390.00

Additional Board Options for Mogen, Kramer, Grace, Trinity halls and houses per semester:

Activity	Cost
190 Block Meal Plan (50 Points)	$3,172.50
Combo 25 Meal + $200	$255.00
Combo 50 Meal + $200	$382.50

University Fees

Activity	Cost
Tuition each semester	$22,750.00

NOTE: Full-time students (those taking 12-18 hours per semester) will be charged $22,750.00 each semester plus $1,470.00 for each credit in excess of 18. Part-time students (1-11 credit hours) will be charged $1,470.00 per credit.

Activity	Cost
Application Fee (paid once, nonrefundable)	$45.00
Audit Fee (per credit if less than full time)	50% of the tuition rate
Credit by Examination (Fees are paid prior to taking exam; see Academic Services for forms)	Fees Vary
International Student Fee (per year) (Fall $750, Spring $800)	$1,550.00
Late Registration Fee	$50.00
Private Music Fees (excluding tuition)	$330 .00per credit
STAR Program	$500.00 to $750.00
Student Fee (per semester)	$131.25
Study Abroad Program	$200.00
Technology Fee	$125.00 (per semester)
Theatre Arts - Alexander Technique (excluding tuition) (per unit)	$330 per credit

Physical Education Fees (excluding tuition)

Activity	Cost
Golf ACTV-104	$220
Karate ACTV-182	$40
Outdoor Adv. Skills ACTV-144	$100
Alexander Technique ACTV 112 & ACTV 312	$240

* Fees are determined by outside contractors and are subject to change without notice.

Student Life

California Lutheran University provides a stimulating environment in which students learn and live as part of a community of scholars. Opportunities for individual growth are enhanced by campus involvement. Cal Lutheran offers a broad range of opportunities for students to pursue individual interests as well as dedicate themselves in service to others.

Within Cal Lutheran's community, there are opportunities for cultural, social, recreational, leadership, and service-oriented activities. Support services are also available to ensure students receive the assistance needed to have a successful and enriching experience. At Cal Lutheran, each student is expected to contribute to the common good, promote the welfare of the institution and strengthen the University's academic and spiritual life.

Campus Involvement

At Cal Lutheran, participation in co-curricular activities is encouraged as a way to enrich students' overall learning experiences. During this time of exploration and growth, there are a variety of involvement opportunities, clubs and activities for students to remain active in their established areas of interest or pursue new interests. For a list of activities and events, please visit the Student Events calendar at http://www.callutheran.edu/thehub (http://www.callutheran.edu/thehub/).

Theatre Arts

Cal Lutheran students have ample opportunity to be involved in theatre arts productions both as spectators and participants. The Theatre Arts Department annually stages several productions including Main Stage Theatre, Black Box Theatre Series, and film and video productions.

The Kingsmen Shakespeare Festival, held annually on the Cal Lutheran campus, provides students with professional theatre intern opportunities. Cal Lutheran's theatre faculty are working professionals who help students connect with the theatre and film industry.

Fine Arts

Student artists will want to join Cal Lutheran's Art Department faculty on field study trips to art exhibitions and museums. Students may also assist in preparing campus art exhibitions. Each spring, the Art Department sponsors a senior art exhibit to highlight student work. In addition to the Thousand Oaks Civic Arts Plaza, major museums, galleries and theaters are located in nearby Santa Barbara and Los Angeles counties.

Honor Societies

Honorary societies with active campus chapters include Alpha Kappa Delta (Sociology), Alpha Mu Gamma (Foreign Language), Alpha Phi Sigma (Criminal Justice), Omicron Delta Kappa (Leadership), Pi Sigma Alpha (Political Science), Phil Alpha Theta (History), Sigma Beta Delta (Business), Sigma Delta Pi (Spanish), Sigma Tau Delta (English) and Zeta Chi (Pi Delta Phi - French).

Journalistic and Literary Interests

Student writers are encouraged to submit their work to Cal Lutheran's literary magazine, *Morning Glory*; the weekly student newspaper, *The Echo*; and multicultural journal, *The Word*. Courses to hone writing skills are offered through the English and Communication departments.

Music

Cal Lutheran's Music Department offers vocalists and instrumentalists a variety of ensembles in which to participate including the University Choir (touring group), the Women's Chorale, the University Symphony, Wind Ensemble and Jazz Improvisational Band as well as other instrumental and vocal chamber ensembles. Musical stage productions give students further opportunity for musical expression.

Social Activities

Involvement Fair, Buh Bye Bash, and Safe Spring Break are examples of events and programs sponsored by the Office of Student Life. Additionally, the Programs Board of the Associated Students of California Lutheran University Government (ASCLUG) organizes a wide variety of events throughout the year. Both the Office of Student Life and the ASCLUG offices are currently housed on the lower level of the Student Union.

Community Service and Interfaith Center

The Community Service Center, which is part of Student Life, serves to engage students in sustainable service outside the classroom; to develop active citizens that will be knowledgeable of the difference an individual can make within their community. We strive to create a student body committed to lifelong service and justice in a global society. In keeping with Cal Lutheran's mission to educate leaders committed to service and justice, we create service opportunities that match community needs and student interests.

The CSC connects individuals and groups to volunteer opportunities relating to their interests. In addition, students can participate in a winter or spring Alternative Break trip. Past locations include: Florida, New Mexico, El Salvador, Costa Rica, and Cambodia. Whether you're an experienced volunteer or want to get involved for the first time, we have a variety of ways for you to explore service. Join us! Please visit our website at www.callutheran.edu/students/community-service/ (https://www.callutheran.edu/students/community-service/)

Center for Cultural Engagement and Inclusion

The Center for Cultural Engagement and Inclusion (CCEI), which is a part of the Student Life Office, is a space for students to engage, organize, socialize, and inquire about social justice issues and learn about identities beyond their own. The Center supports students from all backgrounds as they explore the intersections of their identities and transform into leaders for a diverse global society. The Center strives to cultivate and maintain an inclusive campus community and facilitate cross-cultural learning. The CCEI is located on the top floor of the Student Union and has an outdoor patio space located between the Student Union and Mt. Clef Hall.

Wellness Resources

Wellness Resources, which is a part of Student Life, is an open space for all students to gain access to information and resources about their well-being. Students can come to the Wellness Resources office looking for answers to questions or other resources related to staying active and fit, anxiety, mindfulness, sexual health, drug and alcohol use, or sexual violence and assault prevention. The Wellness Resources Office is part of Student life and is located in the Student Union adjacent to Student Life.

Visit our website for 24 hour a day resources and up to date information: http://www.callutheran.edu/students/wellness/ (http://www.callutheran.edu/student_life/wellness/)

Student Clubs and Organizations

Cal Lutheran has approximately 100 active student clubs and organizations. Examples include:

- Accounting Association
- Adventure Club
- Armenian Students' Association
- Black Student Union
- CLU Line Dance Club
- Dance Team
- Hillel
- iCLU Radio
- Knights Rugby
- Latin American Student Organization
- Lord of Life
- Math Club
- Philosophy Club
- Pokemon Club
- PRIDE
- Psi Chi Connection
- The Secular Student Alliance
- Ultimate Frisbee
- Young Life College

A full listing of currently active clubs and organizations can be found at www.callutheran.edu/students/clubs/directory.html (http://www.callutheran.edu/student_life/clubs/)

Associated Students of California Lutheran University (ASCLU)

Students are involved in campus life in a variety of ways, including clubs and organizations, student government, student/faculty committees, personnel searches and task forces on particular issues.

All traditional undergraduate students carrying 12 units or more are automatically members of the Associated Students of California Lutheran University. The representing governing body of the ASCLU is the ASCLU-Government (ASCLU-G), which is divided into three distinct bodies: the Executive Cabinet, Programs Board and Senate. The Executive Cabinet, consisting of the President, Senate Director, Programs Board Director, Director of Relations, and Director of Finance, oversees the two boards, facilitates the weekly meetings, and acts as the formal representatives of ASCLU. The

Programs Board is responsible for ASCLU-sponsored student events such as the Fall Carnival, competing for the Crown, Let It Snow, and several other campus favorites. The Senate develops legislation to make recommendations to the University for campus improvements, approves student clubs and organizations, and allocates student fee money to projects deemed important by undergraduate students.

Students are elected into the ASCLU-G Executive Cabinet, Programs Board and Senate during the spring semester for most offices and during the fall semester for selected offices, with terms lasting one academic year. Committee appointments within the boards are made through the ASCLU-G Executive Cabinet.

Cultural Opportunities

Cal Lutheran is an exciting place to be, with enthusiastic artists preparing for careers in drama, music and the visual arts. Each year, these students exhibit their fresh talents through plays, concerts, recitals and exhibitions. In addition to on-campus talent, visiting artists enrich CLUs array of cultural offerings. Most events on campus are free to Cal Lutheran students.

Cultural Events Series

Cal Lutheran's Cultural Events Series features a variety of talented guest lecturers and performers. Dance troupes, authors, poets and musicians are examples of the entertainment one can expect. Recent noted lecturers have included political activist Naomi Wolf; award-winning authors Tim O'Brien, Kao Kalia Yang and Lisa See; journalist Joe Klein and NPR host Scott Simon.

The Harold Stoner Clark Lecture Series is an annual fall event. Fascinated by a philosophical sense of wonder about what lies just beyond the reach of scientific research, the late Harold Stoner Clark endowed this lecture series. Ecologist Sandra Steingraber, theologian Nancey Murphy, theoretical physicist Brian Greene and philosopher David Chalmers are among recent featured speakers.

Festivals and Special Events

The dynamic campus community is host to colorful celebrations throughout the year. Diverse cultures are explored and celebrated through a variety of events including the Scandinavian Festival highlighting the University's Nordic heritage, Festival de Encuentros, the Asian Festival and national Black History Month.

Art Collections

Cal Lutheran's collections include the La Boyteaux Collection of New Guinea Art, the Lou Grubb Collection of Native American Art and European Paintings, the Rev. Patty Hundley Photographic Archive, the Brosius Collection of Philippine Island ethnic materials and other contemporary works. In addition to Cal Lutheran's own collection, the Kwan Fong Gallery of Art and Culture and Overton Hall regularly display art and special exhibits.

Recreation and Athletics

Intercollegiate

Cal Lutheran competes in the Southern California Intercollegiate Athletic Conference (SCIAC). Founded in 1915, the SCIAC was one of the first athletic conferences formed in the United States. Membership includes California Institute of Technology, Chapman University, Claremont-Mudd-Scripps Colleges, University of La Verne, Occidental College, Pomona-Pitzer Colleges, University of Redlands and Whittier College. Cal Lutheran is also a member of the National Collegiate Athletic Association (NCAA) Division III.

The men's intercollegiate program includes:

- Baseball
- Basketball
- Cross country
- Football
- Golf
- Soccer
- Swimming and diving
- Tennis
- Track and field
- Water polo

Women's intercollegiate sports include:

- Basketball
- Cross country
- Golf
- Soccer
- Softball
- Swimming and diving
- Tennis
- Track and field
- Volleyball
- Water polo

Recreational Sports

This program exists on campus to provide opportunities in recreational athletics for the Cal Lutheran campus community. Cal Lutheran's current intramural program offers multiple fall and spring leagues including basketball, volleyball, outdoor and indoor soccer. In addition, numerous tournaments are held annually including cosmic dodge ball, capture the flag, softball, and kickball. All intramural sports teams are coed, creating an inclusive environment for all participants.

In addition to intramural leagues and tournaments, Recreational Sports also coordinates outdoor recreation opportunities for students – from large-scale camping trips, snowboarding, kayaking in Channel Islands, hikes in the LA and Ventura counties, and surf trips to the local beaches.

The Recreational Sports office also provides a substantial inventory of rental equipment including surf boards, tents and other camping equipment. A full list of rental equipment can be found at https://www.callutheran.edu/students/outdoor-recreation/equipment-rentals.html

Forrest Fitness Center

The Forrest Fitness Center is located in the Gilbert Sports and Fitness Center. All students are welcome to use the facility while they are attending the University. Students must bring their current student I.D. card to gain access to the facility and must have completed the online liability waiver for entry. Equipment includes free weights, weight machines and cardio equipment. The department also offers various fitness classes such as Yoga, Zumba, Pilates, and boot-camp.

Recreational Opportunities

In addition to the formalized programs offered through Cal Lutheran's intercollegiate and intramural sports programs, there are a variety of campus recreational facilities available to students. They include the tennis courts, gymnasium, pool, and hiking/mountain biking trails. Most athletic facilities at Cal Lutheran are open for general use during specific hours only.

Campus Ministry

You are a seriously connected individual: electronically, emotionally, socially, academically, spiritually, and globally. Just like you, Campus Ministry is connected. In fact we are in the business of making connections. So let's make some connections - between classroom and life, between faith and research, between service to humanity and vocation, between identity and purpose, between you and the God that loves you.

By design, practicing one's faith causes connections. Worship is one way to connect with God. Worship opportunities include University Chapel on Thursdays, Lord of Life Student congregation worship on Sunday, Common Ground evening Worship on Wednesdays all held within Samuelson Chapel. Prayer and Reflection, a brief time to pause and remember the faith you have within and the God that knows you, is held on the Woodland Hills and Oxnard campuses midweek. Celebrating and remembering numerous Jewish holiday traditions are part of the regularly scheduled calendar of Campus Ministry events. Faith forming opportunities are offered through small groups, service learning projects, and educational offerings to further your growth in faith.

The Wennes Interfaith Meditation Chapel is open for prayer and contemplation. Prayer mats and resources from the world's major religions are available for your use. You are welcome to enter the Meditation Chapel through the outside door adjacent to the doors of Samuelson Chapel. Behind Samuelson Chapel is a Labyrinth. The Labyrinth is another means to encounter focused prayer for all faith traditions. You can also access the many Sabbath Hour resources provided by Campus Ministry on our website. Callutheran.edu/university_ministries/campus-ministry/ (http://www.callutheran.edu/mission-identity/campus-ministry/)

Campus Ministry endeavors to create a web of connections reminding us that we are connected to God and neighbor. ELCA Campus Pastors Scott and Melissa Maxwell-Doherty and Rabbi Belle Michael welcome all those who wish to share a common faith in God. Got faith, doubt, and hope? Bring it, regardless of your denominational, religious, or spiritual affiliation. You are invited and encouraged to express and explore your connection to a living God.

The Office of Campus Ministry is located in Samuelson Chapel.

Support Services

California Lutheran University provides students with the necessary support services to enhance their educational experience and create an environment which is encouraging, caring and conducive to their success.

Career Services

Career Services provides an array of individualized services and programs to students and alumni at no charge. We provide assistance in job and internship searches, including hundreds of weekly listings on internship, part-time, and full-time positions for all majors/programs at all career levels. Career Services works with more than 20,000 employer contacts and will help you target the employers you want to work for. We offer career assessments, counseling, resume/cover letter writing help, mock interviews, salary negotiations coaching. We offer formats in person and online. We also host the CLU Career & Intern Expo in the Spring Semester and a graduate school fair every Fall along with graduate school advising for general programs and Pre-Med/Health and Pre-Law students. Complete a profile at www.clupostings.com (http://www.clupostings.com) to get started. Call our office with any questions M-F 8:00 a.m.-5:00 p.m. at 805-493-3200.

Website: http://www.callutheran.edu/ (http://www.callutheran.edu/students/career-services/)career (http://www.callutheran.edu/career/)

Facebook: www.facebook.com/CLUcareer (http://www.facebook.com/CLUcareer/)

Twitter: www.twitter.com/CLUcareer (http://twitter.com/CLUCareer/)

Office of International Students and Scholars, Center for Global Engagement

The University recognizes the benefits of exchange between students of various cultures and backgrounds and encourages interaction among its diverse student body. The Office of International Students and Scholars (https://www.callutheran.edu/students/international/) is dedicated to providing the highest quality service possible for the support of all international students and faculty, while supporting the institution's mission. OISS provides support for immigration matters and global engagement through cultural exchange.

Immigration advisement includes a wide portfolio of regulatory compliance work to keep students, faculty and staff informed of U.S. government policies impacting the institution's eligibility to host international students. Programs offered to support international students include, but are not limited to: orientation, immigration advisement, online communication, travel advisement/signatures, immigration benefits/status application guidance, support letters (e.g., for visitors' visas, driver's licenses, social security numbers, etc.), tax compliance workshops, and visas beyond the H1-B workshops (with immigration attorney).

The OISS also provides campus-based engagement opportunities to strengthen intercultural competence and global awareness, with an emphasis on direct interactions between international and U.S. domestic students. Examples of programs offered include, but are not limited to: International Peer Mentors, International Education Week Activities, Country Cluster Socials, World Fair (international festival of food, trivia, & activities), International Women's Day Celebration, and International Student Advisory Council.

Academic Services

Academic Services at Cal Lutheran encompasses three main areas: Registrar Services, Student Success Services and Disability Support Services.

Registrar Services

Registrar Services supports all constituents of Cal Lutheran through the delivery of Class Scheduling, Classroom Scheduling, Student Registration, Federal and State Compliance Reporting, FERPA Compliance, Transfer Articulation, Academic Transcripts, University Catalogs, PLTS Support, and Parent Portal Access.

Student Success Services

Student Success Services serves the Cal Lutheran community by offering the Students Taking Academic Responsibility Program (STAR), Student Success Workshops, Academic Difficulty Notices, Undergraduate Advisor Changes, 4 to Finish Program. We also list tutoring schedules by department, facilitate academic planning, and support faculty advising and mentoring.

Additionally, every student is assigned a Student Success Counselor in Academic Services; each with their own alpha split listed on Academic Services website at callutheran.edu/academicservices.

- Work collaboratively with faculty in the advising and mentoring role
- Assist students with their academic records
- Provide academic support and resources

- Facilitate the academic planning process
- Answer questions about degree completion

Disability Support Services

California Lutheran University is committed to providing equal educational opportunities to students with various documented disabilities who choose to self-identify. Students must register with Disability Support Services (DSS) in order to formally request and receive disability-related aids and services.

The DSS staff works together with the student, administrators, and faculty to assure access to course materials, classrooms and other campus buildings as well as on-campus programs and events. Reasonable accommodations and services are determined based on disability information and individual need. These include but are not limited to note-taker services, extended test time, alternative test location, books in alternative formats, housing accommodations as well as resources and referrals to other campus services.

All services and accommodations are provided in a confidential manner that promotes independence, self-advocacy, and accountability. In addition, these services are provided in compliance with the Americans with Disabilities Act, Sections 504 and 508 of the Rehabilitation Act, University policies, and state requirements.

DSS is located in the Academic Services building. For more information, please visit our website at www.callutheran.edu/disabilities (http://www.callutheran.edu/disabilities/) or email dss@callutheran.edu

Student Support Services Program

Student Support Services (SSS) is a federally funded grant program that aims to increase the retention and graduation rates of eligible participants. CLU students whose parents do not have a bachelor's degree, students whose families meet specific income requirements, and students with a disability are eligible for SSS. Students who meet the eligibility requirements may apply to be a part of the program by visiting our website: www.callutherahttps://www.callutheran.edu/students/support-services/.
The program focuses on promoting academic excellence by providing holistic personalized services to students so they can make the most of their undergraduate education, graduate from a four-year university, and continue on to graduate or professional schools upon completing their degree. Program elements include: SOAR (Summer Orientation to Academic Resources) summer bridge program, Student Success Plans, academic planning, tutoring, student leadership program, cultural events, study skills seminars, graduate school workshops, FAFSA workshops, financial literacy workshops, and personal/social counseling.

Writing Center

The Writing Center, located in Pearson Library, helps students develop their writing abilities. Trained composition tutors are available to help students at all stages of the writing process. The staff at the center assists students in focusing, developing and organizing papers as well as polishing and editing the final draft.

Health Services

Health Services is available to all full-time or residential Cal Lutheran students. We provide treatment of injuries and illness, administer immunizations and preventive health services. For more complex medical issues, Health Services can help students access appropriate medical care in the community. Please call (805) 493-3225 for an appointment.

Professional Care

A physician, a psychiatrist,physician assistants, and nurses help students meet their health care needs. The physician assistants are in attendance at regularly scheduled hours and the psychiatrist by referral only. Consultation, physical exams, referrals, immunizations, and care of common ailments are available to full-time or residential Cal Lutheran students. Prescription medications and lab tests are available at low cost. The charge for most office visits is $10. We take cash, check, and most credit and debit cards. For more information and current hours please see our website at www.callutheran.edu/health_services (https://www.callutheran.edu/students/health-services/).

Required Forms

Prior to entering Cal Lutheran, all students (except online-only students) are required to submit proof of COVID-19 vaccination via the student health portal.

In addition, all undergraduate students are required to log on to the student health portal to submit a Medical History Form, Immunization Form, Meningitis Awareness Form, and a Tuberculosis Screening Form. All undergraduate students are required to have the following immunizations: 1) two immunizations for Measles, Mumps and Rubella, 2) Hepatitis B series (three shots), 3) a tetanus shot within 10 years (after completion of the primary childhood series), and 4) a Meningitis ACWY immunization at 16 years old or later (such as Menactra or Menvio). Students must upload an official copy of their Immunization Record to provide proof of these vaccinations.

A link to the student health portal will be emailed to you but you may also find more information and a link at www.callutheran.edu/students/health-services/policies/ (http://www.callutheran.edu/students/health-services/policies/). Students whose forms are not completed and immunization record not uploaded to Health Services on time will be unable to register for the following semester.

Counseling and Psychological Services (CAPS)

Counseling and Psychological Services (CAPS) (www.callutheran.edu/studentcounseling (http://www.callutheran.edu/studentcounseling/)) provides currently-enrolled students with confidential, short-term therapy. CAPS is located at 3222 Luther Avenue on the main Thousand Oaks campus. All services are free, confidential, solution-focused, and culturally-affirming. Services include individual therapy, relationship therapy (only for enrolled students), group therapy, and outreach and consultation. Students may call or come to CAPS to schedule an appointment. For students experiencing psychological crisis, services are available without an appointment during office hours. Counseling is provided by licensed psychologists, post-doctoral residents, and practicum trainees. All trainees work under the clinical supervision of licensed psychologists.

During the COVID-19 pandemic, teletherapy is available for students residing in California and in-person services are available for vaccinated students. Any students residing outside the state of California are welcome to schedule a consultation for assistance in identifying resources, as well as calling for a crisis appointment during a psychological emergency.

Students come to CAPS for various reasons. The pressures, demands, and life experiences students face can create stress that impairs academic performance and negatively impacts mental and emotional health. Some of the most common reasons students come to CAPS include anxiety, identity-based stress or discrimination, loneliness, post-traumatic stress, depression, academic challenges, interpersonal conflicts, relationship problems, behavioral concerns, suicidal feelings, and substance use difficulties. By request, CAPS also provides educational programming in classes and in residence halls regarding mental health issues.

To schedule an appointment or request a crisis appointment, please call 805-493-3727. CAPS is open M-F 8:00am - 5:00pm, closed for lunch from 12:00pm-1:00pm and Chapel Hour on

Standards of Conduct

The Standards of Conduct are part of the California Lutheran University commitment to holistic student development. It is the University's purpose to assist students in developing a personal set of values and ethics, managing emotions, making decisions and following through on commitments, becoming more independent, recognizing interdependence, and accepting the consequences of personal actions and decisions.

The Standards of Conduct were not established to be judgmental, but rather to ensure individual responsibility and an environment that contributes to a learning community.

The Cal Lutheran community assumes that each student who enters the University possesses an earnest purpose; the ability to exercise mature judgment; the ability to act in a responsible manner; a well-developed concept of, and commitment to, honor, morality and integrity; and a respect for law and the rights of others. This assumption prevails unless a student negates it through misconduct.

The Standards of Conduct shall apply to conduct that occurs on university premises, at university-sponsored activities, and to off-campus conduct that adversely affects the university community and/or the pursuit of its objectives.

Each student shall be responsible for his or her conduct from the time of application for admission through the actual awarding of a degree, even though conduct may occur before classes begin or after classes end, as well as during the academic year and between the terms of actual enrollment (even if conduct is not discovered until after a degree is awarded). The Standards of Conduct shall apply to a student's conduct even if the student withdraws from the University while a disciplinary matter is pending.

Public postings or displays of information pertaining to and/or in direct violation of university policy are subject to disciplinary action. This includes but is not limited to websites, Facebook, MySpace, blogs, online messaging, and other sources on or off line.

The Vice President for Student Affairs/Dean of Students shall decide whether the Standards of Conduct shall be applied to conduct occurring off campus on a case-by-case basis.

The University adopts only such policies and procedures that seem necessary for the welfare of the educational community. Each student associated with California Lutheran University is expected to be familiar with and to follow all policies and procedures promulgated by the University.

Failure to abide by the policies and procedures as outlined in the Standards of Conduct may result in disciplinary action and sanctions.

General University Policies

The following are prohibited:

1.1 Verbal abuse, harassment, intimidation, or in any way threatening the well-being of another individual.

1.2 The physical abuse of any person or conduct that threatens the health or safety of any person on or off university property.

1.3 Reckless, disorderly, rude, or lewd conduct on university property or at official university functions. Disorderly conduct includes but is not limited to: Any unauthorized use of electronic or other devices to make an audio or video record of any person while on university premises without his or her prior knowledge, or without his or her effective consent. This includes, but is not limited to, surreptitiously taking pictures or video of another person.

1.4 Attempted or actual theft or unauthorized possession of university property or other property on campus.

1.5 Attempted or actual burglary or attempted burglary of university property or other property on campus.

1.6 Attempted or actual theft or unauthorized possession of a university vehicle or other vehicles on campus.

1.7 Misusing, destroying, vandalizing, or attempting to destroy or vandalize university property or other property on campus.

1.8 Unauthorized entry or use of university facilities.

1.9 Failure to comply with the directions and/or requests of a university official (i.e., Campus Safety and Security, Area Residence Coordinator, Resident Assistant, or university employee or staff member) in the performance of his or her duty. This includes evasiveness, running, hiding and giving a false name.

1.10 Creating a fire, safety, or health hazard of any kind. This includes personal hygiene, cleanliness of shared living spaces and personal property, activating a fire alarm without the existence of a fire or a similar emergency situation, failing to evacuate the building during a fire alarm and/or abusing fire and safety equipment.

1.11 Creating excessive noise or disturbing the peace.

1.12 All forms of academic dishonesty. (See “Academic Policies”)

1.13 Knowingly furnishing false information to the University, forgery, alteration or misuse of university documents, or university instruments of identification.

1.14 Disruption or obstruction of teaching, research, administration, disciplinary proceedings, public functions or other activities of the University, including interference with the freedom of movement of any member or guest of the university community.

1.15 Actions violating university policies by a student’s guest.

1.16 Abuse of the Student Judicial System. (See “Student Judicial System”)

Alcohol and Other Drug Information

The specific guidelines governing the use of alcohol and other drugs on campus are included in the policy section of this handbook. However, it is important to understand the context within which those policies are created. The Drug-Free Schools and Communities Act of 1991 outlines clear expectations of universities in preventing the illegal use of drugs and alcohol on our campuses. In addition, the abuse of alcohol and other drugs continues to be a major problem on campuses across the country. The majority of traffic accidents, vandalism, suicides, physical abuse, fights and sexual assaults involve the use of alcohol or drugs by the individuals involved. Relevant sections of state and local statutes regarding alcohol and drugs are summarized below.

University Policy on Alcohol

2.1 Campus standards do not allow alcoholic beverages, including empty alcohol containers on campus.

2.2 All persons in the presence of alcohol confronted by a university official (e.g.), Resident Assistants, Graduate Assistants, Area Residence Coordinators, and Campus Safety and Security) will be documented for a policy violation. All alcohol and items containing alcohol will be disposed of and/or confiscated. Beer bongs and/or other paraphernalia used in the consumption of alcohol may be confiscated and/or destroyed.

2.3 Use or possession of alcohol by students off campus is subject to local laws and university discipline.

2.4 Undesirable behavior both on and off campus resulting from on- or off-campus use of alcohol is subject to university discipline.

2.5 Hosting groups or parties where large numbers of persons and/or large quantities of alcohol are present is a flagrant violation of the alcohol policy and is subject to increased sanctions.

2.6 Possession of a keg on campus is a flagrant violation of the alcohol policy and is subject to increased sanctions. The University reserves the right to confiscate and hold all kegs, party balls, taps and other alcohol paraphernalia.

2.7 No alcohol related, or similarly offensive posters, stickers, caps, lights, etc., may be displayed in residence hall windows or on the outside of doors. Bottle caps are not allowed on ceilings or walls.

2.8 Due to the risks involved to the health and safety of Cal Lutheran students, competitive drinking events and games are prohibited both on and off campus. Planning or participating in such events will result in university disciplinary action for organizers and participants.

The following are exceptions to this policy:

1. Faculty and professional staff members who live on campus are allowed to have alcohol in their residence, but may not serve alcohol to or in the presence of undergraduate students.
2. Graduate students who live in university-owned residences segregated from undergraduate student housing are allowed to have alcohol in their residence, but may not serve alcohol to or in the presence of undergraduate students.
3. Alcohol is allowed and may be served in the President's Residence to guests other than undergraduate students at his or her personal discretion.
4. Communion wine at on-campus worship services is allowed.
5. Alcohol is allowed on campus and may be served at special events where specific permission is sought and granted by the President of the University (or designee). These special events include, but are not limited to, wedding receptions, dinners for Regents or other guests of the University, and receptions held on campus by external organizations.

Distilled spirits are not permitted at approved special events and all non-distilled spirits provided must be served by catering services holding license to do so. On-campus university residential facilities will not be considered for this exception.

Alcohol Policy Violation Sanctions

Following is a list of the minimum sanctions for violations of the University Policy on Alcohol. The University reserves the right to impose further sanctions up to and including expulsion/dismissal from the University.

1st Violation Disciplinary warning, participation in an alcohol education program, students under 21 years of age are informed that parents/guardians will be notified if further violations occur

2nd Violation Residence hall probation, parents/guardians of students under 21 years of age notified

3rd Violation Residence hall suspension, university probation, parents/guardians of students under 21 years of age notified

4th Violation Suspension from the University, parents/guardians of students under 21 years of age notified

During each alcohol-related policy violation, the student is required to sign an Alcohol Policy Review Form acknowledging awareness of the university policy on alcohol, and acknowledging that future Alcohol Policy Violations will result in a minimum of the above outlined sanctions. Failure to sign a Policy Review Form in an alcohol-related incident may result in a Student Life fine and/or a disciplinary hold on the student's account.

University Policy on Drugs

3.1 The use, possession, manufacture, cultivation or trafficking of any controlled substance, including but not limited to amphetamines, barbiturates, narcotics, LSD, marijuana and/or other hallucinogenic agents is a violation of state and federal laws and is a violation of California Lutheran University policy. Violation of the California Lutheran University policy on drugs can result in suspension, dismissal or expulsion from the University. All drugs and paraphernalia will be confiscated in order to be destroyed.

3.2 The use or possession of prescription drugs without a valid and current authorized prescription is a violation of California Lutheran University policy.

3.3 Paraphernalia includes any object that contains the residue of a controlled substance and any object that is used in the cultivation, manufacture, consumption or distribution of a controlled substance. Examples of paraphernalia include, but are not limited to, a marijuana pipe, bong or blow tube, a scale used for measuring quantities of an illegal drug, rolling papers, hookahs and hookah components. While these items can be used for legal purposes, they are prohibited because of their common misuse.

3.4 Being under the influence of prescription drugs without a valid and current authorized prescription or being under the influence of controlled substances is considered a violation of this policy.

3.5 No drug-related or similarly offensive posters, stickers, caps, lights, etc., may be displayed in residence hall windows or on the outside of doors.

3.6 California Lutheran University will not tolerate drug sales and/or distribution. California Lutheran University reserves the right to expel any student for the sale and/or distribution of any controlled substances or prescription drugs.

University Policy on Smoking

4.1 In accordance with the City of Thousand Oaks Municipal Code and university standards, no smoking is allowed in any building on the Cal Lutheran campus or within 20 feet of any entrance to any building.

4.2 Hookah and hookah components are strictly prohibited on campus.

4.3 Specifically designated smoking areas will be determined by the Area Residence Coordinator of each residence hall complex.

University Policy on Student Harassment

The University seeks to create and maintain an academic environment in which all members of the community are free from harassment based on race, color, religion, age, national origin, disability, marital status, sexual orientation, or sex.

California Lutheran University espouses values that infuse the academic and residential life of its campus. Undergirding community life must be the awareness on the part of every member of the rights and human dignity of every member. Attitudes of condescension, hostility, role stereotyping and social or sexual innuendo weaken the health of the community.

Furthermore, harassment compromises the integrity of a liberal arts education because it makes the learning and working environment hostile, intimidating and offensive; it destroys opportunities for students to develop a strong, positive self-concept and the sense of self-confidence which is essential to living out the ideals of a liberal education.

In addition, persons who harass others compromise their own integrity and credibility. Consequently, no form of harassment will be tolerated on our campus.

Harassment

Harassment refers to unwelcome behavior that is offensive, fails to respect the rights of others, and interferes with work, learning, living, or campus environment. Forms of harassment include, but are not limited to:

- 5.1a Verbal: Conduct such as suggestive comments, derogatory slurs, off-color jokes, threats, suggestive or insulting sounds, etc. Verbal harassment also entails using the telephone to harass others. This includes, but is not limited to, unwanted phone calls, hang ups, unwanted voice mail messages, obscene calls.
- 5.1b Nonverbal/Visual: Conduct such as derogatory or inappropriate posters, pictures, cartoons, faxes, emails, or drawings, suggestive objects or pictures, graphic commentaries, leering, obscene gestures.
- 5.1c Physical: Conduct such as unwanted physical contact including touching, interference with an individual's normal work or movement, assault.

Sexual Harassment

Any sexual advances, requests or demands for sexual favors and other physical, verbal or visual conduct of sexual nature constitute sexual harassment when:

1. Such conduct has the purpose or effect of substantially interfering with an individual's work or academic performance, creating an intimidating, hostile or offensive work, learning, living, or campus environment; or
2. Submission to or rejection of such conduct by an individual is used as the basis for employment or academic decisions affecting the individual; or
3. Submission to such conduct is made either explicitly or implicitly a term or condition of an individual's employment or academic program.

The University Policy on Student Sexual Harassment includes, but is not limited to, the following behaviors:

5.2a Verbal: Conduct such as epithets, derogatory jokes or comments, slurs or unwanted sexual advances, invitations or comments, obscene phone calls, or voice mail or email messages, and threats and demands to submit to sexual requests as a condition of continued employment or academic advancement, or to avoid some other loss, and offers of preferential treatment in return for sexual favors and/or retaliation for having reported or threatened to report harassment.

5.2b Nonverbal/Visual: Conduct such as derogatory and/or sexuality-oriented posters, photographs, cartoons, drawings or gestures, exposure (e.g., "mooning," "streaking"), other lewd behaviors.

5.2c Physical: Conduct such as assault, unwanted touching, blocking normal movement or interfering with work or study.

Any student who feels subject to such harassment, or becomes aware of an actual or potential incident of sexual harassment, should report the incident immediately, either verbally or in writing, to any one of the following people:

- *Leanne Neilson*

  Provost/Vice President for Academic Affairs

  Administration Building

  (805) 493-3145

- *Melinda Roper*

Vice President for Student Affairs/Dean of Students

  Student Union

  (805) 493-3553

- *Patricia Parham*

  Asst. Vice President for HR

  Welcome Center Building

  (805) 493-3185

Cal Lutheran will respect the complainant's right to confidentiality in both informal and formal procedures. The complainant will be supported and any attempted reprisals will not be tolerated.

Many additional policies exist for students at California Lutheran University. To access additional policies, go to www.callutheran.edu/StudentLife (http://www.callutheran.edu/StudentLife/) and follow the link to the Online Student Handbook. To request a paper copy of the policies, contact the Residence Life and Student Conduct Office at reslife@callutheran.edu or (805) 493-3220.

Residence Life

The University is primarily a residential institution with more than 1,300 full-time undergraduate students residing on campus. The residential experience is considered a crucial part of students' education, as significant learning occurs through peer interaction in the residence halls.

Requirements

All full-time undergraduate students are required to reside on campus through their junior year at Cal Lutheran. Seniors have the option of living off campus. However, as with all students, once a senior has signed a housing contract, it is expected that the full term of the contract will be honored (one academic year) or there may be financial penalties for breaking the contract. The housing contract includes the meal plan. Room and board are not separable except for residents of apartments and university houses.

Exceptions to the requirements to live on campus would normally fall into one of the following categories:

1. Married students
2. Students living with their parents within a 30-mile radius
3. Graduate and Bachelor's Degree for Professionals students
4. Seniors
5. Students who are 23 years of age or older

Note: Students who are seeking an exception to the housing or meal plan requirements must meet with the Housing Review Committee through the Residence Life Office. Students who are not granted an exception to the housing requirements who move off campus will be penalized. This penalty will consist of being charged for room and board for the first semester and loss of university-funded financial aid the subsequent semester.

Housing Contracts

Student housing contracts are for the full academic year. A student who occupies a room in university housing will be held responsible for that room and the stipulated charges until the end of the academic year unless the student is expressly released from the contract by the Housing Review Committee.

Room Applications and Assignments

Housing contracts are submitted online to the Residence Life Office, which is responsible for the assignment of rooms and approval of room changes during the year.

Student Responsibilities

Residential students are expected to uphold Cal Lutheran's high standards. Each student is responsible for contributing to the positive community environment by being courteous, considerate, honest and ethical. When individuals do not accept these responsibilities, the university administration may take appropriate action for the benefit of the community.

Additionally, students requesting to live on campus are expected to be aware of and abide by all the policies of the University as stated in the University Catalog and Standards of Conduct. These policies include but are not limited to: no alcohol or illegal drugs on campus; quiet hours; and a general respect for the rights of other residents.

By accepting university housing, students agree to observe all housing regulations and respect university property. When an individual is suspended or expelled from a residence hall, fees are not refunded.

Graduate Housing

Cal Lutheran provides fully furnished private bedroom residence hall rooms for graduate students in Grace Hall. These rooms are available on a first-come first-served basis. Please visit our website for more information or a virtual tour of the room. Students may request housing by filling out the Graduate Student Housing application.

Residence Hall Vacation Schedule

All first year residence halls are closed during the winter holiday. Campus Dining closes after the evening meal on the last day of classes prior to the session break. Food service is not available during various holidays, winter break and spring break. The services and facilities reopen the afternoon before the resumption of classes.

Student Mail

All correspondence will be sent to students' campus mailboxes outside the Mail Room. The student mailing address is:

Student Name

101 Memorial Parkway #_____

Thousand Oaks, CA 91360

Academic Programs

Undergraduate

California Lutheran University offers 38 major and 34 minor programs of study within the University's three schools:

School of Management

Graduate School of Education

College of Arts and Sciences

There are four divisions and 20 departments within the College of Arts and Sciences. The divisions and departments are as follows:

Humanities Division

- English Department
- History Department
- Languages & Cultures Department
- Philosophy Department
- Religion Department

Creative Arts Division

- Music Department
- Theater Arts and Dance Department
- Visual Arts

Natural Sciences Division

- Biology Department
- Chemistry Department
- Computer Science Department
- Exercise Science Department
- Earth and Environmental Science Department
- Mathematics Department
- Physics Department

Social Sciences Division

- Communication Department
- Criminology and Criminal Justice Department
- Political Science Department
- Psychology Department
- Sociology Department

Preprofessional programs are also offered in selected areas of study.

Undergraduate Majors and Minors

- Accounting
- American Studies[2]
- Art[1]
- Asian Studies[2]
- Biochemistry and Molecular Biology
- Biology[1]
- Business Administration[1] (Traditional)
- Business Management (Bachelor's Degree for Professionals)

- Chemistry[1]
- Communication[1]
- Computer Information Systems[1]
- Computer Science[1]
- Criminology and Criminal Justice
- Dance[2]
- Economics[1]
- English[1]
- Entrepreneurship[2]
- Environmental Science
- Environmental Studies[2]
- Ethnic and Race Studies
- Ethnic Studies[2]
- Exercise Science
- Film and TV[1]
- Financial Planning[2]
- French[1]
- Gender and Women's Studies[2]
- Geology[1]
- German[1]
- Global Business[2]
- Global Studies[1]
- History[1]
- History Pedagogy
- Hospitality and Tourism Management
- Interdisciplinary
- Legal Studies[2]
- Liberal Studies in Education
- Marketing Communication
- Mathematics[1]
- Multimedia[1]
- Music[1]
- Music Production
- Organizational Leadership (Bachelor's Degree for Professionals)
- Philosophy[1]
- Physics[1]
- Political Science[1]
- Psychology[1]
- Public Health[2]
- Religion and Theology
- Science[2] (Applied Scientific Computing)
- Sociology[1]
- Spanish[1]
- Sports Management[1]
- Theater Arts[1]
- Theology and Christian Leadership

[1] Minor also offered

[2] Minor only offered

Preprofessional Programs

Church Vocations

Cal Lutheran offers courses that prepare students for ordained and non-ordained ministries in the various denominations of the Christian church. Students may study to become church educators, musicians, youth directors, administrators and ordained ministers. Students could major in Theology and Christian Leadership and choose the emphasis area relevant to their vocational goals *or* they could choose a major in an area appropriate to their specific vocational choice and minor in Religion with a Church Vocations emphasis. For example, a student interested in becoming a church organist could major in Music and minor in Religion with a Church Vocations emphasis or major in Theology and Christian Leadership with a specialization in Worship and Music and perhaps also add a Music major with emphasis in organ performance. Advisers can help students choose the option which best suits their particular needs.

Preseminary

Cal Lutheran has several program options that are appropriate for students preparing to go to seminary, including two Religion majors and three Religion minors, designed to give students a solid grounding in religion and other cognate disciplines that will prepare them for whatever seminary they might later choose to enter. Students considering study at a theological seminary – even if that seems only a remote possibility at present – are encouraged to consult with members of the Religion Department and/or one of our campus pastors.

Associate in Ministry

An Associate in Ministry (AiM) is a rostered lay person who is certified by the Evangelical Lutheran Church in America and appointed to specific ministries. Certified ELCA AiMs must meet the following basic criteria related to their area of specialty:

1. a bachelor’s or master’s degree in a field appropriate to the position;
2. at least 20 credits in studies focusing on the Christian/Lutheran tradition, including Bible, theology, confessions and church history;*
3. at least one year of successful, supervised field experience in the area of specialty;*
4. professional certification where appropriate.

Prelaw

Law schools ordinarily require a bachelor’s degree for admission. Students considering attending law school may major in any subject but should consult a prelaw adviser for information about preparing for the Law School Aptitude Test (LSAT). For further information, contact the Dean of the College of Arts and Sciences who will refer you to an adviser.

Premedicine/Health Related Fields

Medical, dental, physical therapy, optometry and other health-related professional schools ordinarily require a bachelor’s degree as a prerequisite for admission. Although most schools do not require a specific undergraduate major, they do require a set of core science courses (one to two years of biology, two years of chemistry, one year of physics and one year of math/statistics). Many students find that an interdisciplinary major is more appropriate for their interests.

In addition to an adviser for their major, students should contact the chairperson of either the Biology Department or the Chemistry Department who will recommend an adviser for their specific interest. The program of study undertaken by a preprofessional student should satisfy both CLU’s graduation requirements and the specific requirements of the health-related program.

Students interested in attending graduate school in physical therapy may also major in Exercise Science with a Health Professions concentration. For more information, see Steven Hawkins in the Exercise Science Department.

Bachelor's Degree for Professionals

The Bachelor's Degree for Professionals is a bachelor’s degree program designed to meet the needs of transfer students who wish to complete their degree while juggling the time demands of work, family and other commitments. Classes are held in the evening to accommodate the working adult student.

The intensive program calendar consists of four 11-week terms per year making it possible to earn the degree at an accelerated pace. Bachelor's Degree for Professionals candidates must have a minimum of 24 transferable credits and substantial work experience.

Degrees are offered in accounting, business management, communication, computer information systems, computer science, organizational leadership, psychology, and criminology and criminal justice. For information regarding campus locations, visit www.callutheran.edu/professionals (https://www.callutheran.edu/professionals/) and learn more about which majors are offered at the main campus, at the Oxnard Center, or the Woodland Hills Center.

For admission details, check our website at www.callutheran.edu/professionals/admission (https://www.callutheran.edu/professionals/admission/) or call (805) 493-3325.

Graduate Programs

Graduate degrees and credential programs are offered both on campus and at off-campus centers. Programs are designed to accommodate adult students who are employed full time and are pursuing course work on a part-time basis. Classes are scheduled at times and locations convenient to the working adult. Complete program descriptions and university policies are included in the Graduate Studies catalog.

- **Doctorate in Educational Leadership**
- **Doctorate in Higher Education Leadership**
- **Doctorate in Clinical Psychology**
- **Master of Arts**
  - Educational Leadership
- **Master of Education in Teacher Leadership**
- **Master of Science**
  - Clinical Psychology
  - Counseling and Guidance (with specializations in):
    - Pupil Personnel Services
    - College Student Personnel
  - Counseling Psychology (with an emphasis in):
    - Marital and Family Therapy
  - Education of the Deaf
  - Financial Planning
  - Information Technology
  - Management
  - Quantitative Economics
  - Special Education
- **Master of Business Administration** (with majors in):
  - Enterprise Innovation and Entrepreneurship
  - Finance
  - Human Capital Management
  - International Business
  - Marketing
  - Technology Management
- **Master of Business Administration for Executives**
- **Master of Business Administration in Financial Planning**
- **Master of Public Policy and Administration**

Credentials

- **Teaching**
  - Preliminary Multiple or Single Subject
  - Clear Multiple or Single Subject
- **Administrative Services**
  - Preliminary
  - Clear
- **Pupil Personnel Services**
  - Clear (School Counseling and Child Welfare and Attendance* Authorizations)
- **Education Specialist**
  - Preliminary (Deaf and Hard of Hearing Specialty)
  - Clear (Deaf and Hard of Hearing Specialty)
  - Preliminary (Mild to Moderate, Moderate to Severe Specialties)
  - Clear (Mild to Moderate, Moderate to Severe Specialties)
  - Level II (Mild to Moderate, Moderate to Severe Specialties)

Certificates

- Financial Planning
- Global Supply Management
- Post MBA Certificate Program Series

Authorizations

- Autism
- Computer Concepts
- Reading

Graduate Catalog

A catalog of graduate programs and class offerings may be obtained by contacting:

California Lutheran University
Graduate and Adult Programs
60 West Olsen Road #2300
Thousand Oaks, CA 91360-2787
(805) 493-3127
clugrad@callutheran.edu
www.callutheran.edu (http://www.callutheran.edu)

Special Academic Opportunities

Honors

The University Honors Program (UHP) provides enhanced educational opportunities for Cal Lutheran's most academically motivated students. The mission of the UHP is to challenge students at a higher level as they grapple with deeper questions of life, identity, and purpose within a global community. It encourages intellectual exploration and experimentation by involving students in an intensive study of works that bridge diverse historical contexts, cultural settings and fields of knowledge. By balancing tradition and innovation and discovering or creating links between areas of knowledge currently separated by disciplines and departments, the UHP encourages students to think holistically and critically about these works and the global issues they illuminate.

The UHP is open to students by invitation upon admission to Cal Lutheran, although other admitted students may submit an appeal to the Director of the University Honors Program to be considered for admission to the program. In addition, up to five transfers a year may petition to enter the Honors Program either during their sophomore or the beginning of their junior year.

First-year UHP students must complete one of two year-long foundational seminar series. One of these courses is Humanities Tutorial, a course that explores a wide array of themes in literature and philosophy. From the origins of Western thought in Greek philosophy and literature to an extensive survey of contemporary themes (both Western and non-Western) in more recent writings, the Humanities Tutorial foundational seminar provides a stimulating atmosphere in which to explore important ideas in the humanities.

The second foundational seminar series is Social and Natural Sciences. Two interdisciplinary courses introduce students to academic disciplines within the social sciences and the natural sciences. In HNRS 120, students will explore research and apply analytical perspectives from related fields of study to examine social issues, public policies, and institutions. As the course progresses, students will focus more in-depth on contemporary issues, drawing on readings and lectures from experts who will bring to bear relevant theories and methods from their respective academic disciplines. HNRS 130 places the natural sciences in larger social and cultural contexts. The course includes experiential learning labs in which students learn about California natural history and natural history field practices. It aims to providing them with an amateur's set of tools and skills to increase their knowledge of the natural world, as well as to help students understand the role of nature study in the context of conservation issues and practices relevant to California.

Requirements for completion of the Honors Program

During their second, third and fourth years, University Honors students must complete at least three honors seminars on special topics (preferably one in each year) to graduate with University Honors. Transfer students will be required to complete at least three upper-division honors seminars to achieve University Honors. Students who successfully complete these criteria will receive University Honors upon graduation. Students who complete all five courses and maintain a CLU GPA of 3.5 or higher will receive University Honors with Distinction upon graduation.

Interdisciplinary Major

When a student's career or academic goals are not best served by a traditional major, it is possible to devise a major which spans more than one academic discipline. Courses, independent studies and experiential learning can be combined into a program which meets the student's needs. For more information, see the interdisciplinary major listing.

Internships

An internship is an upper division planned and supervised field experience designed to apply academic knowledge to an actual work environment. The 492 course number is used in all departments to indicate internships.

Internship credit must have educational benefit and be a genuine work experience. It involves the application of learned skills, the integration of theory and practice, the assessment of education as it relates to the specific work experience, and examination of the nature and values of the organization or agency that is the setting of the work experience.

Credit is not given for on-the-job work, but for the demonstrated reflection and learning. Students work with a faculty adviser, an on-site supervisor and the Career Services Center. Course grade (Pass/No Credit only) is based on job performance and evidence of learning.

Internships must be related to a student's major. Freshman students are not eligible for internships. Traditional undergraduate students may receive a maximum of four units in a semester (or summer) and may take a total of no more than eight credits in internships. Bachelor's Degree for Professionals students may receive a maximum of two units in a semester (or summer) and may take a total of no more than eight credits in internships.

Credit for each course is determined by the instructor and department chair. Normally, five hours of on-site work per week is required for each semester credit (except for summer), and the related activities and evaluation are proportionate to the credit granted. Grade (Pass/No Credit only) is determined by the instructor. A 2.5 GPA is required for eligibility.

Students must prepare an Internship Application (available in the Career Services Center). Applications must be approved by the instructor, the on-site supervisor, the department chair and the Registrar.

Approved course applications must be submitted to the Registrar's Office no later than the last day to add a class. Bachelor's Degree for Professionals students need to contact and submit applications to the Bachelor's Degree for Professionals Office.

Continuing and Professional Education

The Continuing and Professional Education Office provides opportunities for continued learning through courses, programs and events that are not normally part of either an undergraduate or graduate degree program.

These opportunities are designed for professional training and personal enrichment. Formal admission to the University is not required for enrollment, and there is no limit to the number of courses a person may take.

Courses and certificate programs are primarily designed for educators and business professionals, but they also include test preparation, computer technology, violin and bow making, and other topics of general interest.

For additional information, contact the Continuing and Professional Education Office.

Credit by Examination

Students in good standing may challenge for credit most courses listed in the Cal Lutheran catalog upon the approval of the department chair and academic dean.

Students may not challenge for credit a course in which they previously have received a grade of F or NC (No Credit).

Application must be made through Academic Services, and signatures of the department chair and instructor must be obtained. Credit earned by examination will be graded P (Pass).

Fees for examinations vary and will be paid in advance of the examination. Credit earned is recorded at the end of the term in which the examination is taken.

NOTE: A maximum of 32 credits by exam may be applied to a bachelor's degree; eight upper division units can be included in this total. This limit applies to the sum of all credits earned by exam, including CLEP and Advanced Placement exams.

NOTE: Thirty of the final 40 credits must be completed in residence at Cal Lutheran. Credits by exam do not count as residency credits.

College Level Examination Program (CLEP)*

No credit is granted on the basis of scores on the General Examination. Credit is awarded for Subject Examinations. To be eligible, a student must score at or above the mean as compared with college students receiving a C in the course. A complete list of tests offered, equivalencies, and credits is available below.

***CLEP fulfill Lower Division work only.**

***CLEP's cannot be used to fulfill the following CORE requirements: Global Perspectives, History, US Diversity, Literature, Writing or Speaking Intensive.**

CLEP Test	CLU Equivalency	Credits Earned
Financial Accounting	BUS 251	3
Information Systems and Computer Applications	General Elective	3
Introductory Business Law	General Elective	3
Principles of Management	General Elective	3
Principles of Marketing	General Elective	3
American Literature	General Elective	3
Analyzing and Interpreting Literature	General Elective	3
College Composition Modular	General Elective	3
English Literature	General Elective	3
American Government	POLS 102	3
History of the US I: Early Colonization to 1877	General Elective	3
History of the US II: 1865 - Present	General Elective	3
Human Growth and Development	General Elective	3
Introduction to Psychology	PSYC 200	3
Introductory Sociology	SOC 101 (must earn a passing score of 70 for credit)	3
Principles of Macroeconomics	General Elective	3
Principles of Microeconomics	General Elective	3
Western Civilization I: Ancient Near East to 1648	General Elective	3
Western Civilization II: 1648 to Present	General Elective	3
Calculus	MATH 251	3
Chemistry	CHEM 151 (no lab)	4
Pre-Calculus	MATH 151	3
College Mathematics	Core 21 Math Requirement	3

Independent Study Courses

Independent Study opportunities are available for students to work independently, in consultation with a faculty member, on in-depth research in particular areas of academic interest.

Students wishing to undertake an Independent Study must have attained junior status (58 units of credit) and be in good academic standing.

Traditional undergraduate students may earn no more than six units of Independent Study in any given semester or six units during summer sessions and may count no more than 16 units of Independent Study credit into the number of units required for the bachelor’s degree.

Bachelor's Degree for Professionals students may earn no more than four units of Independent Study in any given semester and may count no more than eight units of Independent Study credit toward the total number of units required for the bachelor’s degree.

Independent Study cannot be used to fulfill a core requirement. Students must have their Independent Study contract approved and signed by the sponsoring professor, the chair of the department in which the study is taken and the Registrar on or before the final date to add a course. Forms for registration and the Independent Study contract form are available in the Registrar’s Office.

Summer Session

Two terms of six weeks each are offered in the summer session. Three summer terms are offered for educators. The curriculum is designed for undergraduate students wishing to accelerate their progress or make up work and for teachers fulfilling credential requirements. The normal course load for a summer term is two courses or six to eight credit hours. Students may not take more than four courses or 16 credits over the entire summer session. Exceptions to this policy must be approved in writing by the Registrar prior to registration.

A complete bulletin for the summer session is printed each spring. Copies may be obtained by writing to the Director of Summer Session.

Reserve Officers Training Corps Opportunities

Students who qualify may enroll in either the Air Force ROTC program or the Army ROTC program. Cal Lutheran has agreements with the University of California, Los Angeles for Air Force ROTC (see below) and for Army ROTC. Cal Lutheran students may enroll in courses at those institutions.

Academic units earned in the ROTC programs are counted as elective credits toward graduation at Cal Lutheran. For further information on ROTC and possible scholarships, please use the contact information below.

Air Force Reserve Officers Training Corps (AFROTC)

The Army Reserve Officers' Training Corps (ROTC) is a way for young men and women to start strong in life. The college elective for undergraduate and graduate students that provides unrivaled leadership training for success in any career field. If you have the passion for it, you can find a place to fit in the Army as an officer and get the training you need to turn that passion into a career.

The program consists of a one hour academic course for the first and second year students, and a three hour course for the third and fourth year students. All students must also participate in a weekly one-hour Physical Training session and a two-hour leadership laboratory that facilitates the application of leadership theory.

For more information on options and opportunities or if you are interested in participating in the program please contact the UCLA Recruiting Operations Officer at (310) 825-7381 or by email at armyrotc@milsci.ucla.edu.

Scholarships

ROTC Scholarships are awarded on a competitive basis to U.S. citizens regardless of parents' income. Scholarships provide tuition, a book allowance, fees, and a tax-free monetary allowance between $300 and $500 per month during the academic year. Applications for scholarships may be obtained at www.afrotc.com (https://www.afrotc.com/) or by calling (310) 825-1742.

Undergraduate Study

The four-year program is available to first-term freshmen and those full-time students with at least three and one half years of undergraduate and/or graduate study remaining. The program consists of an initial two-year General Military Course, or GMC (Aerospace Studies 1A, 1B, 1C, 20A, 20B, and 20C), followed by a two-year Professional Officer Course (POC) described under Two-Year Program. GMC participation requires one hour of academic class and two hours of leadership laboratory each week during the academic year. Students incur no military obligation for GMC participation unless they qualify and accept an Air Force ROTC Scholarship during or after their sophomore year. Students who complete GMC and wish to enter POC attend a four-week field training course the summer following GMC completion. At field training, students are provided meals, quarters, clothing, and travel and incidental expenses. Subjects covered at field training include junior officer training, aircraft and aircrew orientation, career orientation, survival training, base functions, Air Force environment, and physical training.

Institutes and Centers

Cal Lutheran has the following centers and institutes that enhance scholarly activities, research opportunities and community outreach.

Autism and Communication Center

California Institute of Finance

Center for Academic Service Learning

Center for Economic Research and Forecasting

Center for Economics of social Issues

Center for Entrepreneurship

Center for Equality and Justice

Center for Faith and Culture

Center for Non-Profit Leadership

Center for Performance Excellence

Center for Teaching and Learning

Community Counseling Services

Office of Education Abroad, Center for Global Engagement

As part of the University's mission to "educate leaders for a global society," Cal Lutheran highly encourages students to engage in education abroad opportunities. Students broaden their horizons and gain a more global perspective through participation in abroad experiences, including but not limited to: traditional summer/semester/year-long study abroad programs, short-term faculty-led programs, international internships, and overseas research opportunities. These international experiences help students develop essential skills for future careers in an increasingly interconnected world.

Cal Lutheran has programs and partnerships in more than 75 countries with wide range of affordable credit- and non-credit-bearing overseas options. Financial aid and scholarships are also available for most program options.

While studying abroad, students often take a mix of courses that fulfill CORE-21 requirements, such as literature, social sciences, and upper-division religion. Courses abroad can also fulfill major/minor requirements. With proper approval, courses taken abroad transfer back to Cal Lutheran as major, minor, core, or elective credit. In addition to academic courses, many programs feature internships service-learning opportunities, and research.

All students are eligible! Cal Lutheran is committed to supporting every student interested in going abroad. To participate in a traditional semester abroad program, undergraduate students should have at least second-semester sophomore standing. Eligibility for other programs varies for undergraduate and graduate students. For participation in any program option, students must be in good standing with the institution. Students abroad remain subject to the policies of the University based on their continuing relationship with California Lutheran University. Violations of host country laws and program policies while abroad may result in disciplinary action at Cal Lutheran.

Since space is limited for some programs, students are advised to begin planning more than a year in advance and to visit the Office for Education Abroad located in the Center for Global Engagement as early as possible in their academic career to research possible destinations. Students should also work closely with their faculty adviser and map out a tentative four-year plan that includes classes to be taken abroad. Additional information is available at www.callutheran.edu/studyabroad (https://www.callutheran.edu/students/education-abroad/).

Academic Policies

General Academic Policies

Student Responsibility

It is the students' responsibility to take the initiative to plan their programs and to meet graduation requirements in accordance with the university catalog. Advisers will assist students in the task.

Student Access to Records

Family Educational Rights and Privacy Act of 1974 (as amended)

Annually, California Lutheran University informs students of their rights under the Family Educational Rights and Privacy Act of 1974, as amended (FERPA, also known as the Buckley Amendment).

The Act was designed to protect the privacy of education records, to establish the right of students to inspect and review their education records and to provide procedures to correct inaccurate or misleading information in those education records through the hearing process. Students also have the right to file complaints with the FERPA office concerning alleged failures by the institution to comply with the Act.

The Act allows students the right to inspect their education records and provides that colleges and universities will maintain the confidentiality of those records.

At Cal Lutheran, no one outside the institution shall have access to a student's education records without the student's written consent with the exception of parents who claim the student as a dependent for tax purposes. The University will inform parents if there has been a change in the student's academic standing, specifically if the student is placed on probation or suspension or is removed from those statuses. A copy of the full text of the law is available in the Registrar's Office.

California Lutheran University's FERPA policy allows university employees to release Directory Information to anyone, including Scholarship donors, but we will not release information on students in bulk for commercial purposes (credit card agencies, etc.).

The items defined as Directory Information at California Lutheran University are:

- Name (includes Preferred First Name)
- Address (City and State only)
- E-mail address (California Lutheran University assigned only)
- Birth Date (date of birth is only released to official agencies as required for matching student records or as a validation of positive identification of a student when furnished by a person making an inquiry)
- Photographs and video recordings of students are permitted if there is not personally identifying information of the class or of the students in the class
- Dates of attendance
- Degree date
- Degrees awarded or anticipated; with honors and major
- Previous institution most recently attended (generally speaking released for athletes only)
- Participation in recognized campus activities or sport

The only circumstances under which Cal Lutheran will disclose other than Directory Information is in cases of emergency or personal safety and to notify parents of changes in their student's academic standing. In all other cases, the institution may release only the items identified above.

Students have the right to have Directory Information withheld completely. This means the University will not release any information from education records, including the items listed above, without prior written consent. If a student withholds directory information, the student's name will not appear in the student directory. To request Directory Information be withheld, complete a "Request to Opt Out of Directory Information" form and file it with Academic Services. The form is in effect through the end of an academic year; it must be re-filed annually.

At Cal Lutheran, a school official may access education records as long as they have a legitimate education interest. A school official has a legitimate education interest if the official needs to review an education record in order to fulfill his or her professional responsibility. A school official is a person employed by Cal Lutheran in an administrative, supervisory, academic, research or support staff position (including law enforcement personnel and health staff); a person or company with whom Cal Lutheran has contracted (such as an attorney, auditor, collection agent, degree conferral or enrollment verification processing agent, placement sites for internships or other similar placements); a person serving on the Board of Regents; a student serving on an official committee, such as a disciplinary or grievance committee, or assisting another school official in performing his or her tasks; consultants, volunteers or other outside parties to whom the University has outsourced institutional services or functions that it would otherwise use employees to

perform. As allowed within FERPA guidelines Cal Lutheran may disclose education records without consent to officials of another school, upon request, in which a student seeks or intends to enroll. Questions about access should be directed to the Registrar.

Statement on Academic Freedom

It is fundamental to the health of an academic institution and ultimately to the health of a society at large that individual persons and groups of persons exercise their responsibility and freedom to search for the truth and to speak the truth as it is discovered. In a collegial community, the corporate person of the university institution and the persons of the faculty, administration and the student body bear mutual responsibility to exercise professional competence and to extend to one another the trust and respect which foster an environment for the exercise of academic freedom.

California Lutheran University endorses the principles of academic freedom. Cal Lutheran’s complete policy on academic freedom is contained in the Faculty Handbook.

Statement on Academic Honesty

The educational programs of California Lutheran University are designed and dedicated to achieve academic excellence, honesty and integrity at every level of student life. Part of Cal Lutheran's dedication to academic excellence is our commitment to academic honesty.

Students, faculty, staff, and administration share the responsibility for maintaining high levels of scholarship and academic integrity on campus. Any behavior or act which might be defined as 'deceitful' or 'dishonest' will meet with appropriate disciplinary sanctions, including a grade of 'F' in a course, suspension, or dismissal from the university.

Definition of Academic Dishonesty

A general definition of academic dishonesty is "any behavior or act that implies an intent to make someone believe what is not true, as by giving a false appearance." Since intellectual honesty is central to the academic enterprise, students and faculty must accept and respect the principle of acknowledging information, ideas and language that have been borrowed from someone else. Plagiarism (any failure to document sources), cheating, unethical computer use, and facilitation of academic dishonesty are examples of behavior which will result in strict disciplinary sanctions.

Plagiarism

Plagiarism occurs whenever a source of any kind has not been acknowledged. Every student must understand the correct procedures for acknowledging and identifying sources of borrowed material. The basic rule is this: Give credit where credit is due. In other words, if you include any material which is beyond your firsthand experience, and which is not common knowledge of scholars in your field, you must cite your source in a way that your reader can (a) find the source from the information in your reference and (b) immediately determine which information is your source's contribution to scholarship and which is yours. Specifically:

- If you quote directly, using three or more words from the original source, you must place quotation marks around the quoted material and cite the source.
- If you paraphrase (rephrase in your own words), you must still cite your source, including a full documentation of reference; the best procedure is to acknowledge that you are paraphrasing.
- If you present material that may be common knowledge, but your arrangement or discussion of that material is borrowed, you must cite that source in a reference.

If you have any questions about proper ways of documenting sources in footnotes or bibliography, consult the department in which the course is taught. Departmental assistants, and/or the Writing Center are prepared to assist students in proper documentation forms.

Cheating: Cheating covers a wide range of academically dishonest behaviors including but not limited to:

- Turning in someone else’s work as your own
- Purchasing assignments or papers and claiming that work as your own
- Giving another student your work to pass off as his or her own
- Aiding other students by surreptitiously providing answers in an exam
- Copying another student’s answers in an exam setting, even if that student willingly provided the answers
- Using unauthorized material or resources (paper or electronic) when taking an exam. This includes use of cell phones or any other electronic resource that may either contain downloaded information or be able to access information electronically
- Distributing material unauthorized by the course instructor about any exam or assignment
- Asking a tutor to do assignments, papers, or exams for you
- Providing dishonest rationales or excuses when requesting special circumstances, or treatment which results in delayed or incomplete course requirements.

Academic Bribery: Soliciting, offering or accepting money, gifts or favors in order to alter or influence grades.

Deception: Providing false information when engaging in formal academic work including research deadlines, assignments, and tests. This includes providing false identification, false disability information in order to gain additional time when taking tests, providing false excuses when seeking deadline extensions, and falsely claiming to have submitted assignments.

Fabrication: Providing false data, information or citations in any academic work. This includes altering or making up data for use in experimental research and providing fake or altered quotes or bibliographic references for research.

Facilitating Academic Dishonesty: Intentionally helping students engage in acts of academic dishonesty. This includes improper grading of written/oral exams, grade fraud, negligence regarding conditions that foster cheating, or knowingly abet/allow cheating.

Identity Fraud: Asking another individual (this need not be a student – it can also be an external source for academic papers) to assume one's identity for any academic purpose or offering to assume another student's identity for an academic purpose. This can be done in exchange for money, gifts, or favors.

Multiple Submissions: Submitting work done in a previous class with the claim that it is new and original. While previous work may provide the basis for subsequent work, the prior work must be made known to and approved by the instructor.

Paper Mills: Providing papers to suppliers of academic papers for sale ('Paper Mills') is no different than providing papers to other students to pass off as original work, and is viewed as a form of Facilitating Academic Dishonesty. Papers published in 'Open Access Journals' or otherwise made available to the public with the sole intent of publication are acceptable.

Sabotage: Engaging in any activity that hinders or prevents another student from being able to complete their work. This includes altering or deleting resources or disrupting experiments. This can also include creating a condition that hinders the ability for other students to take tests.

Unethical Computer Use: Unethical computer use includes the use of any technology (which can include computers, cell phones, tablets, watches, etc.) or computer software (programs, documentation, data bases) in violation of copyright law. It also includes unauthorized use of computer software or hardware, such as use for private business, breaking access codes, and pranks resulting in damage to software or hardware, breach of privacy or confidentiality, or violation of copyrights.

Procedure for Disciplining Student Dishonesty

Whenever a member of the faculty or other university official has reason to believe that a student has committed a breach of academic honesty, the faculty member or official will confront the student, allowing the student an opportunity to speak on his/her behalf. If, in the opinion of the faculty member, a breach of academic honesty as defined above has clearly occurred, the faculty member or official must file a Report of Academic Dishonesty form with the Vice President for Academic Affairs. The form will be placed on file. This procedure should be completed as soon as is reasonably possible.

First Offense

If the Vice President for Academic Affairs determines this is a first offense, the disciplinary action will be handled by the professor. Possible sanctions may include an 'F' on the assignment or an 'F' in the course.

Policy Statement Pertaining To Graduate Students

Due to the serious nature of such an offense and the resulting questions regarding student ethics, doctoral programs may assign sanctions including academic probation, suspension from the university or dismissal from the university after a first offense with the approval of the Department Chair/Program Director, the Dean and the Vice President for Academic Affairs. Sanctions will be determined by reviewing each specific breach of academic honesty, the context of the breach and the nature of the breach.

Second Offense

If the Vice President for Academic Affairs determines this is a second offense, in addition to the sanctions imposed by the professor, the Vice President for Academic Affairs may choose to impose additional sanctions such as academic probation or suspension from school.

Third Offense

A third report of academic dishonesty will automatically result in the student's suspension or dismissal from the university.

Appeals

An allegation of cheating or an imposed sanction may be appealed to the Vice President for Academic Affairs, who will then constitute a special evaluation committee using the same procedures identified for grade challenges. Such a committee will be composed of three faculty, one appointed by each of the following:

- Dean of the School/College
- Chairperson of the Faculty Affairs and Development Committee
- Vice President for Student Affairs

The committee will choose its own chairperson. The committee will solicit written statements from all concerned parties and evaluate all available evidence. The committee will report its recommendation to the Vice President for Academic Affairs whose decision is final.

Attendance at Classes

Regular attendance at all classes is essential. Students are expected to be punctual, do the work assigned and not be absent without good cause.

Second Degrees

Students may earn a second bachelor's degree by completing all general and major requirements of the second degree. At least 75 percent of the required courses in the major for the second degree must be unduplicated with any other major or minor from the first degree. All academic policies stated in the catalog must be met by both the first and second degree, if the second degree is completed simultaneously or sequentially. However, no more than one Bachelor of Arts degree and one Bachelor of Science degree will be awarded. Students pursuing a single degree with a double major must select majors within the same degree program. Honors may be granted for both degrees.

Student Leave of Absence

The purpose of the Student Leave of Absence is to enable students who leave the University for a period of time with an intention to return to Cal Lutheran to receive timely communications and other consideration accorded continuing students. The leave may be requested for up to one year. Student Leave of Absence request forms may be obtained from the Registrar's Office.

Registration Information

Course Load

Requirements for graduation are measured in terms of semester credit hours. Normally, each credit hour earned will require one hour of class time per week for 14 weeks during the semester. Students are expected to spend two to three hours in preparation for one hour of class time. Most courses are assigned four (4) or three (3) credits. A full-time undergraduate student is one who carries 12 or more credits per semester. To graduate in four years, students must complete an average of 15.5 credits each semester. (Refer to The Bachelor's Degree for Professionals section of the catalog for enrollment regulations applicable to Bachelor's Degree for Professionals students. A typical semester load is 15 to 16 credits. Special permission is necessary to carry a load of more than 18 credits per semester. A fee will be charged for each credit beyond 18. (See section on University Costs.)

Registration Procedures

Students must register either in person or online prior to the beginning of each semester. Registration procedures are available on the Registrar's Office Web page.

To be officially enrolled in class, students must have their schedule of classes approved by their adviser, have their financial standing cleared by the Business Office and submit their signed registration form to the Registrar or complete their registration online.

Course Additions

Students may add courses during the first two weeks of the semester. Students may not add courses after the second week of the semester. When a student is given permission to add a closed class, it is the student's responsibility to take an add form, signed by the instructor, to the Registrar's Office. It is not possible to add a closed class online. After the first week of the semester, all classes require instructor permission to add.

Students enrolled in Bachelor's Degree for Professionals courses, may not add courses after the Add/Drop deadline which is 8 days after the beginning of the term. After the first session, all late adds require instructor permission. Students will not be added to closed or waitlist courses.

Instructor Administrative Drop from Courses

An Undergraduate student may be administratively dropped from a course by the instructor or the department staffing the course in either of the following situations:

1. the student has not met the prerequisites for the course as stated in the academic catalog, or
2. the student is absent from class for the first two meetings or first two class hours of the semester/term, and has not notified the instructor of their intent to remain in the class by the first class meeting

Note: Administrative drops for Bachelor's Degree for Professionals student will only be done by departmental staff.

Withdrawal from Courses and Withdrawal from the University

Withdrawal means withdrawing from one or more courses or separation from the University for the remainder of the semester. The Registrar provides the proper withdrawal forms which incorporate all the necessary procedures to clear the records at the time of withdrawal. Proper withdrawal protects the student's record, which remains on file in the Registrar's Office.

Bachelor's degree for Professionals students should contact their academic counselor to begin this process.

1. Students may drop courses or withdraw from the University through approximately the 10th week of the semester or equivalent percentage of an 8 or 11 week term (specific date listed in Academic Calendar) with a grade of W.
2. After the last date to withdraw, students may not officially withdraw from classes or from the University, except for medical reasons. Medical withdrawal forms are available through the office of the Vice President for Student Affairs.
3. With the privilege of admission to California Lutheran University, students accept the responsibility of clarifying the records (including financial records) if they withdraw from a course or from the University before the end of the semester.
4. Students who do not complete a course and do not officially withdraw from the University will receive a grade of UW for the semester (counted equivalent to a grade of F in the GPA). The university does not automatically drop students who register for a course and then choose not to attend.

Note: Academic withdrawal deadlines do not correspond to tuition reduction deadlines. Tuition reduction policies are outlined in the section on University Costs. The financial obligation for withdrawing from the University is usually severe.

Audit

Students may audit a lecture course upon the approval of the instructor. They will earn no credit and receive no grade and will not be required to complete assignments or take examinations. They may not claim credit or challenge the course for credit at a later date. Adequate attendance for recording of AU on the student’s permanent record must be verified by the instructor. The fee for audit is listed in the section on University Costs. A change from credit to audit may not be made after the last day to withdraw without academic penalty. A change from audit to credit may not be made after the last day to add a class. Auditing a class does not grant access to a course's Blackboard page.

Repeated Courses

Students may repeat a course, unless otherwise specified, regardless of the grade received. Credit for the course will be given only once and all repeated courses must be taken at Cal Lutheran. In calculating the GPA, a grade of C- or below will be replaced by the higher grade. Otherwise, both grades will be factored into the GPA. In either case, both grades will remain on the transcript. Cal Lutheran courses are subject to the repeat policy; courses not subject to the repeat policy include all independent studies, field studies, performance activities and selected topics courses. A course taken at Cal Lutheran must be repeated at Cal Lutheran in order for a grade of C- or below to be removed from the GPA. Repeated courses are not included in the residency requirement.

Transfer Credits

Cal Lutheran accepts transfer courses from regionally accredited institutions. Students may transfer a maximum of 70 semester credits from a junior/community college and/or 4-year institution. Credit is generally given for those courses deemed equivalent or substantially equivalent to Cal Lutheran courses. Equivalency is normally determined based on information obtained from catalogs, course syllabi and other materials. However, baccalaureate level transfer courses may be used to fulfill elective credit. Students may transfer in a maximum of 40 military credits to count for elective credits.

Students may petition to have work from non-regionally accredited institutions accepted. Course work will be evaluated on a case-by-case basis. The petition must include a course syllabus for each petitioned course. Credit will only be granted for course work deemed to be substantially equivalent to Cal Lutheran courses.

Currently enrolled students who plan to transfer additional credits from another institution must have prior approval by the Registrar. Bachelor's Degree for Professionals students, must also have prior approval by the Director of the Bachelor's Degree for Professionals or Dean of the School or Professionals & Continuing Studies.

A maximum of 20 semester credits of transfer online, correspondence and/or extension work may be counted toward the degree. Correspondence and extension work may not be included in the major. See the following section on Limitations on Credit for further information.

Students are required to submit transcripts for all other institutions which the student has attended. The Registrar determines the acceptability of other post-secondary level courses; faculty in the respective majors determine whether transfer credit will meet specific major/minor requirements.

Limitations on Credit

The number of credits applied toward any baccalaureate degree may be limited by the following:

1. 30 of the final 40 credits must be completed in residence at Cal Lutheran. Credits by exam do not count as residency credits.
2. 33% of a major's upper division Required Courses and Required Electives must be taken in residence at Cal Lutheran. Internships and Independent Studies are excluded from this calculation unless they are required for the major.
3. Credits used to meet the requirement for a bachelor’s degree may not be used for a credential or master’s degree.
4. No more than three semester credits combined of physical activity (ACTV) and intercollegiate athletics (ATHL) may be counted toward the 124 credits required for graduation. (Exercise Science majors may count no more than seven credits.)
5. Credit in career/work experience may be earned at Cal Lutheran, but no more than eight credits are applicable toward the minimum requirements for the degree. Students may receive a maximum of four units in a semester (or summer).

6. In response to the COVID-19 Pandemic, the following policy is suspended through Fall 2020 or the end of the emergency caused by the pandemic: No Core-21 (general education) requirements or any portion of the major (including required supporting courses) may be satisfied by courses graded P/NC, except courses offered with only P/NC grading.
7. A maximum of 20 semester credits of transfer online, correspondence and/or extension work may be counted toward the degree. Correspondence and extension work may not be included in the major. To be accepted, the correspondence and extension course work must be applicable to a bachelor's degree at the granting institution. Approved transfer online courses are only those that are approved by the department in which credit will be granted and which include proctored exams. Approved online courses accepted in transfer may be included in the major.
8. A maximum of 32 credits by exam may be applied to the degree; eight upper division units can be included in this total. Credit by exam includes, but is not limited to, institutional exams, CLEP and Advanced Placement (AP) exams.
9. A total of 40 combined credits obtained from credits by exam and online/correspondence may be applied toward the degree.
10. At least 75 percent of the required courses for a major or minor must be unduplicated with any other major or minor.
11. Traditional undergraduate students may earn no more than six units of Independent Study in any given semester or six units during summer sessions and may count no more than 16 units of Independent Study credit into the number of units required for the bachelor's degree.
12. Bachelor's Degree for Professionals students may earn no more than four units of Independent Study in any given semester and may count no more than eight units of Independent Study credit toward the total number of units required for the bachelor's degree
13. A single course may satisfy a maximum of four (4) graduation or program requirements.
14. Petitions for exceptions to policy must be made within **one year of the missed deadline for the occurrence** requiring an exception. This limit includes petitions for such requests as late adds and late drops of courses.

Graduation

One year prior to their expected graduation date, students must file an Application for Degree form at the Registrar's Office and submit major/minor checklists. A minimal commencement fee must be paid at the time of application for degree.

Transcripts

Official transcripts of a student's complete record must be requested on-line through MyCLU or on https://www.callutheran.edu/students/registrar/transcripts.html. The University has appointed Credentials Inc. as the designated agent for processing and sending official electronic transcripts on behalf of California Lutheran University. The PDF transcript that is produced using this service contains the identical information as the printed transcript and can be certified as unaltered by uploading the file to the company's website that is provided during the delivery process. Credentials Inc. has been granted the authority to deliver all such electronic transcript requests on behalf of California Lutheran University and respond to any inquiries regarding the transactions. The University reserves the right to withhold grade reports or transcripts if the student has unmet financial obligations to the University.

Classification of Students

Freshman - has earned fewer than 30 semester credits.

Sophomore - has earned at least 30 semester credits.

Junior - has earned at least 60 semester credits.

Senior - has earned at least 90 semester credits.

Special - refers to students who are non-degree candidates or to those who do not fit into the traditional classification categories. Students may attend in a special status by permission of the Registrar for a period of one semester or a maximum of 12 credits, at the end of which they must submit credentials and be officially accepted by the Admission Committee in order to register for subsequent semesters.

Full time – traditional undergraduate enrolled for 12 or more semester credits or Bachelor's Degree for Professionals students enrolled in six or more semester credits per term.

Three-quarter time – traditional undergraduate enrolled for nine to 11 semester credits or Bachelor's Degree for Professionals students enrolled in five semester credits per term.

Half time – traditional undergraduate enrolled in six to eight semester credits or Bachelor's Degree for Professionals students enrolled in three to four semester credits per term.

Less-than-half time – traditional undergraduate enrolled in less than six semester credits or Bachelor's Degree for Professionals students enrolled in less than three semester credits per term.

Concurrent Enrollment

Students registered at California Lutheran University are not permitted to carry concurrent course work at any other institution without approval of the Registrar. Application forms for concurrent registration are available in the Registrar's Office.

Grading Policies

Grades and Grade Points

The cumulative grade point average (CUM GPA) is computed by dividing the total number of grade points earned by the total number of credits attempted, based on CLU and transferable course work. The Cal Lutheran grade point average (Cal Lutheran GPA) is computed by dividing total number of grade points earned by the total number of credits attempted, based on Cal Lutheran course work.

The following grades are used in calculating grade point averages:

Grade		Grade points per attempted credit hour earned
A	Excellent	4.0
A-		3.7
B+		3.3
B	Good	3.0
B-		2.7
C+		2.3
C	Satisfactory	2.0
C-		1.7
D+		1.3
D	Barely Passing	1.0
D-		0.7
F	Failure	0.0
UW	Unofficial Withdrawal	0.0
WF	Withdrawal Failing	0.0

The following grades are not used in computing the GPA:

Grade		Grade points per attempted credit hour earned
IN	Incomplete	No grade points, no credit given
IP	In Progress	No grade points, no credit given
P	Passing	No grade points, credit given
LP	Low Pass	No grade points, credit given
NC	No Credit	No grade points, no credit given
FC	Failed Comprehensive Exam	No grade points, credit given
W	Withdrawal	No grade points, no credit given
AU	Audit	No grade points, no credit given
NR	No Report	No grade points, no grade report submitted by faculty

A grade of IN (Incomplete) may be assigned only in the case of students who, for illness or other circumstances beyond their control, have missed a final examination or major piece of work. Students may not make up the Incomplete by repeating the course. For traditional undergraduate students, an IN automatically becomes an F if not made up by the published date for the last day to withdraw from a course of the following regular semester after the Incomplete grade was given. For Bachelor's Degree for Professionals students, an IN automatically becomes an F if not made up by the last day of the following term.

IP (In Progress) is given for theses, practica, internships and courses wherein the work has been evaluated and found to be satisfactory to date, but the assignment of a grade must await its completion. IP carries no credit until replaced by a permanent grade. The IP grade may be replaced by the appropriate final letter grade within one calendar year from the start of the class. IP grades which have not been resolved will be changed to F (undergraduate) or NC (graduate) at the time the student’s degree is posted.

In response to the COVID-19 pandemic a grade of Low Pass has been created. It is equivalent to a D-, D or D+ grade and will be in effect through Fall 2020 or the end of the emergency created by the pandemic.

A grade of W will be assigned if a student withdraws after the add period is over. The add period ends after the first two weeks of the semester.

Pass/No Credit

The Pass/No Credit option is offered so that students may explore areas of interest without competing with students who may be majoring in that area.

The Pass/No Credit grading is available on a limited basis. Only sophomore, junior or senior students in good standing may register for a maximum of six (6) courses for P/NC grading. Pass/No Credit grading must be selected prior to the last day to drop a class without academic penalty, and a change to letter grade may NOT be petitioned later.

Pass (P) equals C- or above and will count toward graduation. In response to the COVID-19 pandemic a grade of Low Pass has been created. It is equivalent to a D-, D or D+ grade and will be in effect through Fall 2020 or the end of the emergency created by the pandemic. Furthermore, the grade of No Credit (NC) will be equal to a grade of F and does not earn credit towards graduation. After Fall 2020 or the end of the emergency caused by the pandemic, the LP grade will be removed and a NC will revert to being equivalent to a D+ or lower. Courses graded P/NC are not computed in the GPA.

Students shall take no more than one Pass/No Credit graded course in one department and may take no more than one P/NC course per semester (except for courses designated P/NC grading only). No core requirements or any portion of the major (including required supporting courses) may be satisfied by courses graded P/NC, except courses offered only with P/NC grading.

Grade Challenges and Changes

The normal presumption in the administration of grades at California Lutheran University is that the instructor alone is qualified to evaluate the academic work of students in his or her courses and to assign grades to that work.

If a student believes that a grade was assigned in error, he or she should approach the instructor immediately. If the instructor believes that the grade was assigned in error, he or she will submit a grade change form identifying the reason for the change. GRADE CHANGES MUST BE SUBMITTED WITHIN ONE SEMESTER FOLLOWING THE TERM IN WHICH THE INITIAL GRADE WAS EARNED.

If a student believes that a particular grade was assigned in a manner that was arbitrary or unjust or that crucial evidence was not taken into account, the student may file a grade challenge. THE CHALLENGE MUST BE PRESENTED IN WRITING TO THE INSTRUCTOR BY THE END OF THE SEMESTER FOLLOWING THE SEMESTER IN WHICH THE DISPUTED GRADE WAS GIVEN. If an agreement cannot be reached, then the student may present a written appeal to the department chair or program director who is the instructor’s immediate supervisor.

If the conflict cannot be resolved at the departmental level, then the student may appeal in writing to the dean of the school or college, who will follow the process described in the Faculty Handbook.

Honors

Honors at Entrance - In recognition of achievement in college preparatory work, Cal Lutheran grants Honors at Entrance to freshman students whose high school record is of superior quality. Honors at Entrance certificates will be issued at the time of admission to students who have earned at least a 3.75 GPA on their high school work.

Dean’s Honor List -Traditional Undergraduate Students whose GPA for a semester is 3.6 or above and who are enrolled for 12 or more graded credits shall have their names placed on the Dean’s Honor List for that semester. Grades earned from removal of an “Incomplete” are not included. The Dean’s Honor List is based on grades submitted by the instructor at the end of the semester. Later grade changes are not considered.

Bachelor's Degree for Professionals: Dean's Honor List-Students whose Cal Lutheran institutional GPA is 3.6 or above and who are enrolled for 24 or more graded credits during an academic year (fall-summer) shall have their names placed on the Dean's Honor List for that academic year. Grades earned from removal of an "incomplete" will be considered at the time of determination of the Dean's Honor List.

Honors at Graduation - The following honors are awarded to qualified recipients of the Bachelor of Arts or Bachelor of Science degree:

Cum laude (with distinction) - Students who earn a minimum GPA of 3.5.

Magna cum laude (with high distinction) - Students who earn a minimum GPA of 3.7.

Summa cum laude (with highest distinction) - Students who earn a minimum GPA of 3.9.

Students must earn the designated GPA on work taken at Cal Lutheran and on all combined Cal Lutheran and other college work attempted. They must also have completed at least 30 graded semester credits at Cal Lutheran in order to be considered for honors.

Honors recognition for the graduation ceremony is based on GPA and credits completed through the last graded semester. Honors designation on the student’s permanent record is based on final semester records.

Grade Reports

Grade reports are available at the end of each term from the Registrar’s Office and are available on Cal Lutheran's website under WebAdvisor. Any discrepancy between this report and the student’s personal record must be brought to the attention of the Registrar before the end of the following semester.

The University believes the basic responsibility for communicating grades to parents of dependents enrolled at Cal Lutheran rests with the student. However, the University reserves the right, on an exceptional basis, to send grade reports to parents of dependent students under 21 years of age if parents request of the Registrar that grades be sent to them for a specific semester.

Unsatisfactory Progress

Academic Probation

Academic probation is an indication to students that their academic record is unsatisfactory and that failure to improve may lead to suspension from further work at the University.

Students on academic probation will be required to meet with an academic counselor in Academic Services and enroll into the University's academic assistance program known as Students Taking Academic Responsibility (STAR). These requirements are mandatory for their registration to be considered official for the ensuing semester. Their student success counselor and faculty advisors will monitor their academic progress.

Students with a Cal Lutheran or cumulative GPA that falls below a 2.0 will be placed on academic probation. Once placed on academic probation, students must meet the minimum following criteria:

1. Fully participate in the STAR program;

2. Earn a 2.0 or higher semester GPA;

3. Earn a 2.0 or higher Cal Lutheran and cumulative GPAs.

Students who meet all three criteria will be removed from academic probation. If these criteria are not accomplished, students may be placed on academic suspension. Students who meet criteria 1 and 2 but not 3 may be granted a second semester on probation.

Students having attained a semester GPA above 2.0 in the first semester on probation may be given a second semester on probation in which to raise the Cal Lutheran and cumulative GPAs to 2.0 or above. Students who have returned to probation in the second semester and who have not achieved above a 2.0 Cal Lutheran or cumulative GPA will normally be placed on academic suspension.

Academic Suspension

The following classes of students may be placed on academic suspension:

1. Students who fail to achieve a 2.0 or higher semester, Cal Lutheran, and cumulative GPAs in the first semester after being placed on academic probation;
2. Students who fail to fully participate in the STAR program;
3. Students who have been granted a second semester on probation who fail to raise their semester, Cal Lutheran, and cumulative GPAs to 2.0 or higher;
4. Students who have been reinstated following suspension that fail to meet all readmission conditions specified for that individual at the time of readmission.

Students on academic suspension may not take courses at Cal Lutheran. Academic suspension normally lasts for one full academic year; however, students may be reinstated after one semester if they complete a semester of full-time letter graded coursework and earn a semester GPA at or above a 3.0 at another accredited institution.

Students who have been suspended from the University must submit a letter of appeal to be considered for reinstatement. All students who have been reinstated following suspension will be subject to rules that apply to students in their second semester on probation.

In order to establish the conditions that may lead to readmission, the letter of appeal must include the following:

• A written rationale for readmission

• A tentative plan for success if granted readmission

• Transcripts of all work completed since suspension

If, following readmission, a previously suspended student is suspended for a second time, that student cannot appeal to be readmitted until after a two-year absence or by completing two semesters of full-time letter graded coursework with a grade point average of 3.0 or higher at another accredited institution.

All petitions for readmission must receive final approval from the Provost.

Eligibility

Students with a Cal Lutheran and cumulative GPA at 2.0 or above are eligible for intercollegiate competition and/or participation in any activity that requires absence from classes. Eligibility shall be further dependent on conformity to the declared standards of deportment at Cal Lutheran.

Graduation Requirements

The requirements for the degrees of Bachelor of Arts and Bachelor of Science are designed to provide students with a broad program of liberal arts study and an opportunity to concentrate in the field of special interest. It is intended that at the undergraduate level the emphasis be placed on acquiring a broad education in many subjects, leaving highly specialized and professional studies to the graduate school level.

Faculty advisers and the Registrar will assist in every way possible. However, students are responsible to see that their academic program includes all requirements for graduation. Graduation requirements in effect at the time of the student's initial attendance at the University are applicable.

Students who have not been in attendance for two consecutive semesters must reapply and be readmitted to the University. Students readmitted after an absence of less than two years may complete requirements under the catalog in effect at the time of initial attendance. For separation of more than two years, the catalog in effect at the time of readmission will be applicable.

Students transferring to California Lutheran University from other collegiate institutions should also consult with an admission counselor for assistance in interpreting the graduation requirements to insure a smooth transfer.

Students enrolling in the Bachelor's Degree for Professionals (p. 262)should consult the section of the catalog for that program.

General Degree Requirements

1. Students must complete 124 semester credits. At least 40 of these must be upper division, that is junior or senior level courses.
2. 30 of the final 40 credits must be completed in residency. This requirement cannot be met using credit by examination.
3. Students must earn at least a 2.0 grade point average for all Cal Lutheran work and also achieve a 2.0 on all combined Cal Lutheran and other college work.

Major Requirements

All students must complete an academic major as part of the requirements for the baccalaureate degree. Requirements for an academic major are as follows:

1. Completion of at least 32 credits in an area of concentration for the Bachelor of Arts or at least 36 credits for the Bachelor of Science.
2. 33% of a major's upper division Required Courses and Required Electives must be taken in residence at Cal Lutheran. Internships and independent studies are excluded from this calculation unless they are required for the major.
3. A minimum grade point average of 2.0 is required in the major. Required support courses are not included in the major GPA.
4. At least 75 percent of the required courses for a major must be unduplicated with any other major or minor.
5. All major courses and required supporting courses taken outside of Cal Lutheran after matriculation require prior approval by that major's department chair or program director and Academic Services.

Minor Requirements

Minors consist of a coherent set of related courses in a particular disciplinary or interdisciplinary area. An academic minor is not required for a degree; however, if the student elects to earn a minor, he or she

1. must complete the specified 16 to 20 credits;
2. A major or minor in the same department must be unduplicated, with no courses in common;
3. must complete at least eight to 12 credits in upper division courses and at least two of those upper division courses must be completed in residence at Cal Lutheran;
4. must achieve a minimum grade point average of 2.0;
5. may not count internships toward the minor unless specifically required by the minor;
6. may use only one independent study course to meet minor requirements.
7. At least 75 percent of the required courses for a minor must be unduplicated with any other major or minor. Multiple minors must have no duplication.
8. All minor courses and required supporting courses taken outside of Cal Lutheran after matriculation require prior approval by that minor's department chair or program director and Academic Services.

NOTE: Students should refer to the "Limits on Credit" section under Academic Policies (p. 48).

Core-21

California Lutheran University's core curriculum is future-oriented. It embodies the intellectual legacy of the past, yet its chief aim is to prepare students to meet the challenges of the 21st century. Core-21 is designed to instill the habits of mind that are necessary for students to become lifelong, independent learners and responsible world citizens who can adapt to, create and change the society of the future.

Cal Lutheran's core curriculum is designed to prepare students for the 21st century by enabling them

1. to become proficient in analytical and critical thinking and to be able to process, transform and communicate information;
2. to be able to comprehend issues from a variety of perspectives and to understand how different academic disciplines ask questions about the world;
3. to understand themselves as both heirs and creators of history; to understand the forces that have shaped their cultural heritage and appreciate the diversity of values and viewpoints in the United States and the world;
4. to be able to integrate information and moral reflection in order to develop creative solutions to new problems.

Core-21 (General Education) Requirements

Requirements are subject to change. Consult the schedule of classes for each semester to determine which courses satisfy current Core-21 requirements.

1. **Proficiencies (any individual course, may only satisfy one requirement within this section)**
   Since these are competency and not course requirements, students who satisfy these requirements through examination will not receive course credit.
   a. ***Written Communication***:
      i. ENGL 110 and ENGL 111 . ENGL 111 must be passed with a grade of C- or higher.
      ii. One Writing Intensive course - must be upper division.
   b. ***Speaking Intensive Course***: One course*
   c. ***Foreign Language***: Proficiency at the second semester level. (NOTE: for Greek, the requirement is met with GREE 326 ; for Hebrew, the requirement is met with HEBR 316). The requirement is waived for international students who verify academic study of their native language through the high school level. The foreign language requirement may be satisfied using American sign language.
   d. ***Mathematical Reasoning***: One course (beyond intermediate algebra) or satisfactory score on the designated exam.
2. **Perspectives**
   a. ***The Humanities***:
      i. History - one course.
      ii. Literature - one course.
      iii. Philosophy - one course.
      iv. Religion - RLTH 100 and one upper division course. Transfer students with at least 60 transfer credits at matriculation may waive one course.
   b. ***Social Sciences:***
      Two courses in different disciplines selected from specifically approved cultural anthropology, communication, criminal justice, economics, cultural geography, political science, psychology, sociology courses.
   c. ***Natural Sciences:***
      Two courses, both with lab components: physical anthropology, astronomy, biology, chemistry, geology, physics. Transfer students with at least 90 transfer credits at matriculation may transfer two science courses without a lab component. Transfer students with at least 30 transfer credits at matriculation may transfer one science course without a lab component.
   d. ***Visual and Performing Arts:***
      Two courses, including one performance activity. Only one 1-credit course may be counted.
   e. ***Health and Well-Being:***
      One activity course. Students over 25 years of age are exempt from the Health and Well-Being requirement.
3. **Cultures and Civilizations**
   a. ***Global Perspectives***: One course.*
   b. ***U.S. Diversity***: One course.*
4. **Integrated Studies**
   a. ***Integrated Studies Capstone:***
      One course.* This course is included in the requirements for the major; no additional course work is required.

* These courses are not additional unit or course requirements. They are content requirements that may be met through selection of courses that also meet major, elective or other core requirements.

NOTE: Students transferring from California community colleges who, prior to transfer to CLU, have fully satisfied the Intersegmental General Education Transfer Curriculum (IGETC) need only complete the foreign language requirement and one religion course to meet the CORE-21 general education requirements.

NOTE: Students transferring from California community colleges who, prior to transfer to CLU, have fully satisfied the CSU GE-Breadth Certification need only complete one upper division religion course and a third humanities course (if separate courses from Philosophy and Literature are not completed as part of the CSU GE-Breadth) to meet the CORE-21 general education requirements.

NOTE: A single course may satisfy a maximum of four (4) graduation or program requirements.

University Governance

California Lutheran University was formally incorporated on Aug. 4, 1959. The governing bodies of the University are the Board of Regents and the Convocation.

Board of Regents

The 35-member Board of Regents directs the administration through its policy-making role, safeguards the mission and assets of the University, authorizes budgets and strategic plans, elects the president of the University, and approves the appointment of chief administrative officers and faculty. Its members meet four times per year. Learn more about our Board of Regents here (http://www.callutheran.edu/president/board-of-regents.php).

Convocation

The Convocation is a group of 85 people intended to serve as a link between the University, the Church and the greater community. It is made up of members of the five Synods of Region II of the Evangelical Lutheran Church in America, faculty, students, the University president, and members-at-large. The Convocation meets once annually, typically in the fall, to conduct official business and elect the University's Board of Regents. Learn more about our Convocation here (http://www.callutheran.edu/university-ministries/church-relations/convocators/).

Administrative Leadership

Lori E. Varlotta
President and Chief Executive Officer

Leanne Neilson
Provost and Vice President for Academic Affairs

Karen Davis
Vice President for Administration and Finance

Melinda Roper
Vice President for Student Affairs and Dean of Students

Matthew Ward
Vice President for Enrollment Management and Marketing

Regina D. Biddings-Muro
Vice President for University Advancement

Melissa Maxwell-Doherty
Vice President for Mission and Identity

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[2] Minor only offered
[3] Non Major/Minor

System of Course Descriptions

Courses of study and their descriptions are arranged according to course numbers within their departments.

The following classification system identifies a course as freshman, sophomore, junior or senior level. Freshman and sophomore courses are in the lower division; junior and senior courses are in the upper division.

The course value in semester credits is indicated within parentheses after the course title.

Course Numbering System

- **Courses numbered 01-99**
  designate preparation courses not applicable to degree credit.
- **Courses numbered 100-199**
  are usually taken by freshman students.
- **Courses numbered 200-299**
  are usually taken by sophomores.
- **Courses numbered 300-499**
  are upper division courses normally taken by juniors and seniors. A freshman or sophomore may take upper division courses with consent of the instructor.
- **Courses numbered 500-599**
  are graduate level courses.
- **Courses numbered 600-799**
  are doctoral level courses.
- **Courses numbered 800-899**
  are professional development
- **Courses numbered 900-999**
  are Continuing Education Units (CEU).
- **Teaching Credential:** Contact the School of Education or the appropriate department adviser for a complete list of courses needed to fulfill subject matter requirements for a Multiple Subject or Single Subject Credential.

Accounting

Cal Lutheran's program in accounting prepares students not only for a career as a Certified Public Accountant (CPA), but also for employment in private industry, nonprofit organizations, higher education, and government agencies. The curriculum provides a careful balance of practice and theory, and consists of a solid liberal arts core, a carefully selected set of business-related classes, and intensive work in various aspects of accounting. Accordingly, students are also well-prepared for graduate studies and have been successful in passing the CPA exam.

Accountants perform an essential and highly-valued service for business and industry. Moreover, they perform a myriad of tasks in a variety of settings. They may compile detailed records of business transactions, prepare financial statements, perform audits, prepare tax returns, and assist in tax planning and managerial decision-making. They may also analyze financial information and provide small-business consulting services. Since the accountant of today must be a "jack-of-all-trades" who can fit comfortably into any business setting, Cal Lutheran's accounting majors receive extensive preparation in both general business and the liberal arts.

Many of Cal Lutheran's accounting majors have been successful in securing internships with local businesses and accounting firms, and many are offered full-time positions upon graduation. These opportunities enable Cal Lutheran's accounting students to gain hands-on experience as they begin to narrow their focus to a particular career path. In recent years, students have been employed by Ernst & Young, KPMG, Deloitte, PricewaterhouseCoopers, CBIZ, Sony Pictures, NASA, Walt Disney Company, and many others. According to many studies, employment opportunities for accountants are expected to continue to grow at a faster pace than most other professions.

The Accounting Association, a student-run organization at Cal Lutheran (with faculty advisers), has been in place since 1984. This student club arranges for guest speakers, social events, and fundraisers. Many Cal Lutheran students get their first "taste" of the accounting world, and form key friendships, by attending Accounting Association functions.

> The mission of Cal Lutheran’s program in Accounting is to prepare students for a career in public accounting, private industry, governmental/nonprofit accounting, and accounting education; for professional exams such as the CPA and CMA; and for graduate studies. Concomitant student goals are to acquire a well-rounded and solid footing in the liberal arts, to think critically and independently, to communicate effectively both orally and in writing, to maintain high ethical standards, to be good global citizens, and to understand and appreciate the diverse nature of human beings.

Bachelor of Science in Accounting

76-78 credits minimum, 60 credits upper division.

BUS 251	Principles of Accounting	4
BUS 252	Managerial Accounting	4
Select one of the following Economics sequence		4-6
ECON 203	General Economics (or)	
ECON 200/201	Introduction to Micro-Economics and Introduction to MacRo Economics	
MATH 245	Applied Calculus	4
BUS 352A	Intermediate Accounting	4
BUS 352B	Intermediate Accounting II	4
BUS 353	Accounting Information Systems	4
BUS 367	Behavior in Organizations	4
BUS 374	,Business Law	,4
BUS 391	Principles of Finance,	4,
BUS 451	Cost Accounting - Computer Application	4
BUS 452	Tax I	4
BUS 453	Auditing	4
BUS 454	Advanced Accounting	4
BUS 455	Ethics for the Accounting Professional	4
BUS 456		
BUS 462	Tax II	4
BUS 301	Communication for Managers	4
or COMM 306	Business and Professional Communication	
ECON 311	Statistical Methods	4
Accounting Information Systems		
BUS 484	Senior Seminar in Accounting - Capstone	4

Courses

Lower Division

BUS 151. Introduction to Business. (4).
Students will have instruction in various business and economic topics (Marketing, Management, Finance, Personal Financial Planning, Economics, etc.) to better prepare them for making informed choices in selecting their ultimate degree and emphasis areas of study. Students will benefit from an introduction to advising and academic guidance. They will have an opportunity to meet with and be instructed by various faculty members from the school of business on a "guest professor" basis. Students in this course will participate in benchmarking exercises to contribute to outcomes assessment reports.

BUS 251. Principles of Accounting. (4).
An introduction to the basic assumptions that underlie modern accounting: the principles, procedures and methods applied in the preparation of financial statements.

BUS 252. Managerial Accounting. (4).
An examination of how accounting data is used, communicated and interpreted for internal use. Emphasis is placed on planning, control and decision making, particularly in a manufacturing setting. This course will include instruction in and application of computer spreadsheet programs. The student will be required to use word-processing and spreadsheet programs for work submitted during this course. In addition, an introduction to and use of Internet research resources are included in the course syllabus. Prerequisite: BUS 251.

BUS 253. Financial Info in Bus Organization. (4).
This course is designed for non-business majors who are not required to take Principles of Accounting or Managerial Accounting. The intent of the course is to provide students with sufficient background in accounting and finance to allow them to function more effectively in their chosen careers. To that end, the course will cover the basics of financial accounting and managerial accounting, with some additional material typically covered in finance and economics courses.

BUS 255. Environment of Business. (4).
This course provides an introduction to and an overview of topics and disciplines addressed and taught in a typical Schools of Management curriculum. The topics are important background for the non-business major. It is an introductory-level treatment of course topics required in business emphasis areas: Accounting, Finance, Marketing, Management, Economics, and others. Career Services on campus are the basis for assignments with a focus on career readiness. Spreadsheet software is taught and used for completing assignments for the course. Importantly, expectations and standards for further coursework will be communicated so students are better able to set goals for success in their academic pursuits and chosen career.

BUS 257. Practicum in Accounting. (2).
Basic principles of accounting will be presented as a review for a solid foundation in GAAP and accounting. The course will include theory, as well as the completion of hands on financial statements using Excel and other software.

BUS 260. Personal Financial Planning & Risk Mgmt. (4).
Focuses on the general principles of financial planning, including: the financial planning process, the regulatory and ethical environment, consumer protection law, personal financial statements, budgeting, debt financing, educational planning, and client communication. Also provides an in-depth introduction to risk management and insurance, including life, health, disability, long-term care, property and casualty, umbrella liability and annuities.

BUS 275. Intro to Advertising. (3).
An exploration of advertising from the management-marketing, consumer and communications creativity viewpoint. Focus is on general principles and broad perspectives with particular emphasis on strategy and how advertising fits into the total sales program.

BUS 282. Selected Topics. (1-4).

BUS 282C. ST: Select Topic (core). (1-4).
Select topic approved to satisfy core.

Upper Division

BUS 301. Communication for Managers. (4).
The study of business communications methods with emphasis on planning, organizing, preparing and presenting major reports. Significant use of computer skills will be included, as well as design and structure of communication materials for the highest levels of impact.

BUS 330. Fundaments of Sustainable Business. (4).
The course provides comprehensive introduction to the sustainability concept & its major themes such as renewable resources, clean enerby & fuel orgnizations and other stakeholders in building the organizations's business model & strategies for a sustainable future is examined. Student explore opportunities for individuals & companies.

BUS 341. Prin Estate & Income Tax Planning. (4).
Examines estate planning documents, estate tax minimization strategies, the transfer of property via probate, titling, contracts, trusts and gifting, and forms of business entity. The coverage on federal income tax planning will primarily be focused in the following three areas: tax-planning considerations, tax computations and tax-planning strategies.

BUS 342. Marketing Research/Consumer Behavior. (4).
A detailed focus on marketing research, strategy, statistical techniques and decision-theory concepts. Includes the nature of the influences affecting consumer behaviors, values, lifestyles, market segmentation, motivation and attitudes that form consumer marketing decisions. Prerequisite: junior standing.

BUS 343. Employee Benefits & Retirement Planning. (4).
This course will provide an understanding of how corporate and individual retirement planning integrates together for the benefit of the business owner, executive and employee. Topics include retirement needs analysis, social security benefits, qualified and non-qualified plans, rules governing qualified plans, individual retirement accounts, retirement income planning and employee benefits.

BUS 344. Copywriting/Storyboarding Broadcast Adv. (4).
Designed as a "hands-on" communication and business course, this course provides an overview of broadcast media and develops skills in basic advertising/public relations campaign production techniques including scripting, copywriting and storyboarding. (cross-listed with COMM 344).

BUS 347. Introduction to Sports Management. (4).
Includes (a)sport law - impact of the legal process on sport, (b)sport economics - how the price and market system, income and employment affect the sport enterprise, (c)sport marketing/promotion - effect of marketing and promotion on the economic well-being of the organization,(d)sports administration - overview of the total responsibilities of the sport administrator, including planning, organizing, staffing, directing, and controlling the sports enterprise.

BUS 350. Data Communication and Networks. (4).
Includes a discussion of distributed data processing, communication techniques, wide-area and local-area networks, integrated services digital network, open-systems interconnections, security and network management.

BUS 352A. Intermediate Accounting. (4).
Includes detailed coverage of accounting theory and practice as applied to the corporate form of business. Topics include income statement, earnings per share, income tax allocation, compound interest, revenue recognition, price-level accounting, an introduction to fund accounting and a thorough treatment of balance sheet accounts. Prerequisites: BUS 251 (for BUS 352A), BUS 352A (for BUS 352B).

BUS 352B. Intermediate Accounting II. (4).
Includes detailed coverage of accounting theory and practice as applied to the corporate form of business. Topics include income statement, earnings per share, income tax allocation, compound interest, revenue recognition, price-level accounting, an introduction to fund accounting and a thorough treatment of balance sheet accounts. Prerequisites: BUS 251 (for BUS 352A), BUS 352A (for BUS 352B).

BUS 353. Accounting Information Systems. (4).
This is an introductory course in accounting information systems. The course is designed to cover five major themes: 1) Conceptual foundations of accounting information systems 2) Control and audit of accounting information systems 3) Accounting information systems applications 4) The REA data model 5) The systems development process. Pre-requisite: BUS 252.

BUS 354. Theology and Business Ethics. (4).
This course applies ethical theory to business decisions within the context of theological reflection. With a strategic focus, the course will investigate the relationship between theological ethics and the economic concerns of managers. The course is particularly designed to help students become effective ethical agents by developing the skills to apply ethical principle to strategic business decisions. (cross-listed with REL 354).

BUS 355. Client/Server Fundamentals. (4).
Discusses modern technology in network communication and cooperative computation. Topics include client/server design concepts, software expectations, hardware requirements, service support and training issues. Prerequisite: CSC 220 or CSC 300.

BUS 361. Human Resource Management. (4).
A study of the use of the human resources within the organization. Includes recruiting, selecting and training employees, wage administration and union relations. Focus is on government regulation of employment practices, including Equal Opportunity Employment and affirmative action.

BUS 365. Organization Theory. (4).
Analysis and design of modern organizations with an emphasis on organizational technology. Perspectives include organization design, organization effectiveness and changing organization culture, and the organization and its external environment. Attention is given to emerging global realities. Integrates theoretical knowledge with practical applications.

BUS 367. Behavior in Organizations. (4).
An introduction to the methods and findings of the behavioral sciences on the persisting human problems of organizations. Attention is given to the roles of individual attributes, group dynamics and organizational structure in determining levels of performance at work. Prerequisite: junior standing.

BUS 368. Human Resource Mangement. (4).
A study of the use of the human resources within the organization. Includes recruiting, selecting and training employees, wage administration and union relations. Focus is on government regulation of employment practices, including Equal Opportunity Employment and affirmative action. Prerequisite: BUS 367.

BUS 369. Negotiation and Persuasion. (4).
This course covers theories, strategies, and ethics underlying negotiation and persuasion in contemporary organizations and societies. Students will learn the concepts and principles pertinent to real world negotiation process. It provides the students the knowledge and skills needed for effective negotiation and persuasion, psychological persuasive exchanges of the social contract, assessments of communication styles during negotiation and persuasion processes, empirical foundation of the discipline of relationship sales. Prerequisite: BUS 367 (Recommended).

BUS 370. Multimedia Technology. (4).
Introduces modern multimedia technologies. Topics include basic concepts, principles, sound images, animation, standards, hardware and software requirements, new technologies, current research and practice, and future directions.

BUS 374. Business Law. (4).
The study of law as it relates to business. Topics include contracts, agencies, commercial paper, personal property, sales, real property and insurance.

BUS 375. Principles of Marketing. (4).
The study of marketing methods and practices. Topics include policies and problems related to consumers, pricing, advertising, management information systems and distribution and management of the marketing function. Prerequisite: junior standing. (cross-listed with COMM 375).

BUS 376. Sales Management. (4).
This course concerns the sales and sales management functions as they exist in business-to-business sales settings. The course discusses current problems in sales management and the design of effective sales management processes and systems. Prerequisite: BUS 375.

BUS 380. Principles of Advertising. (4).
An exploration of advertising from an integrated marketing communications perspective. Focus is on general principles and broad perspectives with particular emphasis on strategy and the role of advertising in an integrated program. Students will examine consumer motivation, planning and development, the creative process and campaign execution and evaluation. (cross-listed with COMM 380).

BUS 381. Info Systems & Organization Design. (4).
This course investigates the nature and uses of various types of information systems in business organizations, including decision support systems, expert systems, executive and management information systems, and communication systems. Examines the relationships between information system use and business strategy and the applications of information systems in the development of competitive advantage. Surveys the major components of business information systems (hardware, networks, data and applications) and investigates the interrelationships between information, systems, organizational structure, processes and strategy.

BUS 391. Principles of Finance. (4).
Introduces students to the field of finance through an applied conceptual framework using problem sets and computer software to analyze various financial dilemmas. Topics include security valuation, risk analysis, working capital management, financial budgeting and planning, time value of money concepts, financial ratio analysis and capital budgeting. Prerequisite: BUS 252; MATH 115, 145, or 245.

BUS 392. Intermediate Finance. (4).
Students learn to appreciate the usefulness and limitations of financial statements in valuation concepts and financial analysis and are made aware of the value of the role of financial information in capital markets. Concepts are reinforced through problem sets. Prerequisite: BUS 391.

BUS 393. Corporate Finance. (4).
Provides a conceptual framework for analyzing the major types of investment and financial decisions of corporations. The course reviews modern financial theory related to capital structure, cost of capital, dividend policy, intermediate and long-term financing, corporate restructuring and capital budgeting. Employs a mix of problem sets and cases. Prerequisite: BUS 391.

BUS 394. Global Business. (4).
This course covers global trade and its effect on the world economy. Includes the problems of the multinational firm and the impact of numerous environmental factors on the conduct of business across national boundaries, including but not limited to regional, cultural, and treaty-based boundaries. Some elements of "international" terminology remain due to nation-based regulatory, currency, and other requirements.

BUS 395. Financial Strategy. (4).
Deals with corporate financial strategies primarily in the areas of valuation, capital structure, external financing, bankruptcy, mergers and acquisitions. These issues are addressed mostly in the context of case studies that illustrate how ideas studied in introductory finance courses are applied to real-world situations. Prerequisite: BUS 391.

BUS 396. Personal Financial Plan & Risk Mgmt. (4).
Focuses on the general principles of financial planning, including: the financial planning process, the regulatory and ethical environment, consumer protection law, personal financial statements, budgeting, debt financing, educational planning, and client communication. Also provides an in-depth introduction to risk management and insurance, including life, health, disability, long-term care, property and casualty, umbrella liability and annuities.

BUS 398. Raising Capital. (4).
Raising capital is an important part of many, if not all, businesses. This course covers many aspects of finance that are relevant to raising capital, using advanced modeling. Topics include cash management, forecasting, the analysis of capital needs, valuation, sources of capital: venture capital, angel capital, crowdfunding, IPO, and Initial Coin Offering, capital table, shareholder equity, and etc. Prerequisites: BUS 391 or ENT 301.

BUS 400. Graphical User Interface. (4).
An introductory course to user interface fundamentals. Topics include development methodologies, evaluation techniques, user-interface building tools, considerations in the design phase, identification of design rules and successful delivery of the design. Prerequisite: CSC 220 or CSC 300.

BUS 410. Database Management Systems. (4).
Studies the concepts and structures necessary to design and operate a database management system. Topics include data modeling, relational database design and database querying.

BUS 411. Sports-Related Marketing. (4).
An introduction to management and marketing issues in the sports industry, with a particular emphasis on major and minor league professional sports. Students will receive a broad overview of the structure of sports and its relationship to the dominant culture, the economy and the media. (cross-listed with COMM 411).

BUS 412. Entertainment Industry Marketing. (4).
Entertainment has become the dominant experience of consumers in a celebrity-driven culture. Technological innovations from the Internet/Web to social networking to mobile devices and the cloud have disrupted the entertainment industry - film, music and TV. Social media have enabled consumers become co-producers and changed the business models of the entertainment industry. How have social networks altered advertising and marketing by entertainment firms? What are the implications of a globalized market for producers and consumers of entertainment? What are the ethical and environmental sustainability implications of these changes - does consumer empowerment come at the expense of citizen empowerment? Students will examine these issues and develop skills and perspectives to evaluate marketing approaches in the entertainment industry.Cross-listed COMM-412.

BUS 418. Business in China and India. (4).
Students investigate China and India in terms of the macro forces and factors that comprise the business environment in these "big emerging markets." Students work to understand the demographic, economic, socio-cultural, political-legal, technological and natural forces that influence business in China and India. They compare and contrast how business is conducted within the two countries as well as with foreign enterprises, and they assess current and emerging opportunities for business in the region. Through readings, online research, discussions, and case analyses, students learn what appear to be critical factors for business success in China and India.

BUS 420. White-Collar Crime. (4).
This course will provide students with a critical examination of white-collar crime and deviance, its impact on society, and what might be done to address this social problem. Cross-listed with CRIM 420.

BUS 422. Non-Profit Leadership. (4).
This course will provide an introduction to principles and practices of leadership with a focus on the challenges facing management in nonprofit organizations. The elements of the course include a survey of important issues facing the nonprofit sector and best practices with a focus on personal leadership development and implementation. Topics will include governance, strategic planning, volunteer retention, organizational leadership, strategic partnerships and fundraising. Study includes incorporation of experiential service learning opportunities to enhance development of core leadership skills and models. The assessments of student learning to be used in this course are outlined below.

BUS 425. Arts Management and Museology. (4).
This is a cross-disciplinary course merging Management, Art and Museum Studies to give students an insider view of the art world. By the end of the term students will have mastered multiple business models and will have executed an art exhibition from start to finish, including all aspects of curation, marketing and writing. Junior standing required. Cross-listed with ART-425.

BUS 429. Executive Roundtable. (4).
This course is designed to provide students with an appreciation of how management and finance theory are integrated into the strategies of the modern corporation. Each week, a different company executive provides a real-world perspective on how decisions are made and strategies are implemented in the modern corporation.

BUS 430. Integrated Marketing Communication. (4).
This course explores the role of communications in marketing management, the strategic integration of promotional tools, and the application of generic IMC concepts in various social and organizational contexts-commercial, non-profit, domestic, and international. Communication trends and technologies are illuminated. The impact of marketing communications on individuals and on society as a whole is critically evaluated. Through readings, discussions, and analyzing cases, students learn how communications objectives are accomplished through carefully chosen combinations of public relations, advertising, sales promotion, personal selling, database and online marketing. Prerequisite: BUS 375 / COMM 375 Principles of Marketing.

BUS 431. Brand Development & Customer Exp. (4).
Students will study the keyconcept, contexts & processes of brand management. This course will focus on consumer brand engagement.

BUS 432. Non-Profit Leadership. (4).
This course will provide an introduction to principles and practices of leadership with a focus on the challenges facing management in nonprofit organizations. The elements of the course include a survey of important issues facing the nonprofit sector and best practices with a focus on personal leadership development and implementation. Topics include governance, strategic planning, volunteer retention, organizational leadership, strategic partnerships and fundraising. Study includes incorporation of experiential service learning opportunities to enhance development of core leadership skills and models.

BUS 435. Fund Raising for Non-Profit Organization. (4).
The primary goal of this course is to acquaint you with the vocabulary and the basic strategies and tactics of professional fundraising. While the course won't make you an expert at fundraising, it will offer you valuable perspective about how to find the money necessary to fund operations. We also want to go from the theoretical into the practical with the use of projects to allow you to test our your ideas in the real world.

BUS 439. Senior Seminar Mgmt Thought & Practice. (4).
The consideration of classic and contemporary writings on issues related to the management of the business enterprise and the role of business in the larger society. Prerequisite: senior standing.

BUS 440. Marketing Simulations. (4).
Emphasis is placed on the marketing planning function, consumer identification and buyer behavior, marketing strategies and price-value relationships.

BUS 442. Advertising Campaigns. (4).
Advances the principles learned in introductory advertising and marketing courses and includes the application of principles learned through the completion of an actual consumer-oriented marketing/advertising campaign. Includes lecture and lab. Prerequisites: BUS 375, senior standing. (cross-listed with COMM 442).

BUS 443. Event Planning and Management. (4).
The study of the theory and practice of various forms of event planning and management. The class will be using a hands-on approach and will include lessons on budget, décor, entertainment, types, and security issues. (cross-listed with COMM 443).

BUS 446. Theories and Practice of Leadership. (4).
Examines leadership from theoretical, historical and practical perspectives. Includes topics of trait, behavioral and contingency theories; the influence process; management vs. leadership, leadership and followership. Survey of leadership theory and research; characteristics of leaders, theories of leadership origins and psychological and social correlates. Interaction of personal and organizational factors in determining leadership effectiveness.

BUS 447. Social Marketing. (4).
Reflecting the needs of social entrepreneurs, NGOs and nonprofit organizations, the course explores the use of marketing to effect behavioral changes for the benefit of individuals, society and the global environment. Social marketing is viewed in various organizational and cultural contexts, both domestic and international. Trends and technologies are critically evaluated. Through reading, discussion and practical application, students learn how social marketing objectives are accomplished through carefully chosen combinations of research, planning, implementation and program evaluation. Prerequisite: BUS 375 / COMM 375.

BUS 448. Organization Development. (4).
The study of planned change in organizations including diagnosis of the organization and implementation of organization development interventions. Emphasis on teamwork in organizations and survey development. Prerequisite: senior standing.

BUS 449. Managerial Leadership: Core Competencies. (4).
Focuses on the development of the core competencies and skills needed for effective managerial leadership at all levels of the organization. Each skill component will follow a five-step developmental pedagogy: (1) Assessment, (2) Learning, (3) Analysis, (4) Practice and (5) Application. Prerequisite: senior standing.

BUS 450. Advanced Public Relations. (4).
Students strengthen their command of the processes and techniques of public relations and apply them strategically to real-world PR stations. They apply the full process of public relations management, including research and analysis, planning, implementation, and control and evaluation, while producing a strategic PR plan and professional media kit. They role-play crisis communications planning and response in an emergency PR exercise. Ethical considerations in PR management are examined; the impact of current PR practices on individuals and society are critically evaluated. Prerequisite: COMM 342.

BUS 451. Cost Accounting - Computer Application. (4).
Advanced study of the procedures used to determine costs for manufacturing operations. Includes process and differential costing, overhead allocation, profit-volume analysis, joint products and by-products and responsibility accounting. Emphasis is placed on making informed business decisions based on quantifiable data. Prerequisites: BUS 252; junior standing.

BUS 452. Tax I. (4).
A study of current federal tax laws and issues as they pertain to the individual taxpayer. Cases are used to provide practical experience in implementation of tax law interpretations; emphasis is placed on the evolution of the philosophy that drives development of the federal tax code. Prerequisite: BUS 251. (offered one semester each year).

BUS 453. Auditing. (4).
Covers the legal responsibilities, theory and procedures in the conduct of an audit and the making of an audit report. Prerequisite: BUS 352B. (offered one semester each year).

BUS 454. Advanced Accounting. (4).
Accounting for business combinations and the preparation of consolidated financial statements. Also includes accounting for partnerships, consignments, foreign currency translation, fund accounting and international accounting. Prerequisite: BUS 352B. (offered one semester each year).

BUS 455. Ethics for the Accounting Professional. (4).
This course focuses on the role accountants and the accounting profession have in both business as well as in society as a whole. Students learn the history, legal, and ethical responsibilities of the accounting profession in addition to various legislation that has impacted it over recent years. The course will review the legal, regulatory and professional responsibilities of accountants, tax preparers and auditors. The course will also cover the teachings of various ethicists, sociologists and philosophers through the review of their theorems and approaches to ethical reasoning and behavior on an individual, organizational and societal level. This course introduces students to ethical reasoning, integrity, objectivity, independence and the use of a strong moral compass in guiding them as an accounting professional. The course will utilize a textbook and case studies in addition to guest speakers who will share their professional perspectives and experiences. There will be a review of the AICAPA's Code of Professional Conduct, and professional guidelines and codes of conduct in accounting.

BUS 458. Personal Investment Planning. (4).
Students will examine the investment concepts of time value of money and risk and return, characteristics and taxation of investment vehicles and personal investing strategy. They will also learn about concepts of modern portfolio theory, including: risk-tolerance, time horizon, asset positioning, asset allocation, diversification, risk-adjusted return and portfolio rebalancing.

BUS 460. Leadership Development. (4).
Focuses on developing and identifying the contibutors to and need for individual leadership competencies. Provides an overview of specific leadership development instruments, psychological contibutors to leadership effectiveness, and introspective evaluation of current leadership application. Prerequsite: senior standing.

BUS 461. Advanced Human Resource Management. (4).
Studies advanced human resource management problems and practices and is intended for students interested in a professional career as a human resource management specialist. Topics include selection, placement, employee development and employee relations in private and public sector organizations. Prerequisite: BUS 361.

BUS 462. Tax II. (4).
A study of tax laws and issues pertaining to business entities such as partnerships, C-corporations and S-corporations. Focuses on the taxation of estates and trusts and expands the study of personal taxation introduced in Tax I. Prerequisite: BUS 452. (offered one semester each year).

BUS 464. Project and Change Management. (UG).
Project and change management is the theory and practice of providing a product, service or result that satisfies customer requirements, constraints, and expectations while accommodating changes. Successful project management involves planning and execution through tailored communications and evolving relationships. This course provides in-depth discussions and applications of project management concepts and processes. Prerequisites:.

BUS 466. Digital Marketing. (4).
Students will study concepts related to digital platforms and how they are leveraged by brands to market the strategic customer experience. The course will help students develop an understanding of the digital customer journey touch points. Students will explore how advertising and marketing technologies interact to create seamless experiences across products and services. Prerequisites: BUS-375 or COMM-375.

BUS 469. Strategic Management (capstone). (4).
Complex business cases integrating the fields of marketing, finance, law, accounting, economics and industrial management provide a realistic view of how general managers deal with conceptual business problems. Cases include analysis of strategic, interpersonal business problems. Prerequisite: senior standing and completion of BUS 374, 375, 367, 381 and 391.

BUS 470. Executive Roundtable Capstone. (4).
This course is designed to provide students with an appreciation of how management and finance theory are integrated into the strategies of the modern corporation. Each week, a different company executive provides a real-world perspective on how decisions are made and strategies are implemented in the modern corporation. The course will conclude with a comprehensive writing assignment, and will serve as a capstone option for invited students in the Business Administration degree program. Pre-requisite: BUS 374, 375, 367, 381 and 391.

BUS 471. Real Estate Finance and Investments. (4).
The course is designed to introduce students to the many different facets of real estate - e.g. consumption good, a key element of our economy, an investment, and a career opportunity. The course will introduce students to the unique characteristics of real estate and provide a framework for decisions regarding the investments in real estate. The first section of the course provides an overview of real estate and introduces the critical analytic tool of time value of money. The second section provides the basic principles underlying the valuation of real estate - both residential and commercial. The last section of the course discusses financing real estate and focuses on residential mortgage financing. Prerequisite: BUS-391.

BUS 472. International Finance. (4).
Focuses on the financial environment surrounding multinational businesses involved in international trade, investment and financing. Covers management of current assets and liabilities, including foreign financing decisions and techniques, and investigates foreign investment decisions, feasibility analysis and capital budgeting. The course uses problem sets and case studies to reinforce the concepts discussed in class. Prerequisite: BUS 391. Recommended: senior standing.

BUS 473. Marketing Management. (4).
Focuses on the effective design and management of the marketing function in a business organization and the development of effective marketing programs. Topics include strategic marketing plans organization and incentive structures for the sales force, product launch, marketing communication and integration with other essential management functions. Prerequisites: BUS 375, senior standing.

BUS 474. International Marketing. (4).
An exploration of international marketing conditions with emphasis on foreign market research; trade promotion; political, legal, economic and cultural environments; product and service adaptability; and the development of strategic marketing plans for multinational competition. Prerequisite: BUS 375.

BUS 475. Investment Analysis/Portfolio Developmt. (4).
Provides the necessary background to critically evaluate both the practical and academic literature on investments. Stocks and bonds are addressed in market equilibrium and within the context of portfolio development. The capital asset pricing model, market efficiency and the investment environment are covered. Prerequisite: BUS 391.

BUS 476. Global Business Behavior. (4).
A review of current organizational development approaches developed in the United States and elsewhere for possible global application. Cultural influences fostering or hindering the development of effective humanistic organizations are explored. Prerequisite: BUS 394 or consent of instructor.

BUS 477. Personal Financial Planning. (4).
An in-depth study of personal budgeting and long-term planning, investment opportunities, credit, financial institutions, insurance, risk preferences and goals. Prerequisite: junior standing.

BUS 481. Financial Plan Development Course. (4).
This experiential Capstone course focuses on the activities that a financial planning professional will need to accomplish in order to create viable comprehensive plans for their clients. Students will integrate the concepts learned in the pre-requisite courses by writing and presenting an integrative, comprehensive financial plan. Pre-requisites: each of the other four courses in the minor.

BUS 482. Selected Topics. (4).

BUS 482C. ST: Select Topic (core). (1-4).
Select Topic approved for core requirement.

BUS 484. Senior Seminar in Accounting - Capstone. (4).
In this rigorous course, the emphasis will be on the application of GAAP and OCBOA rules and regulations in the preparation of financial statements using a variety of software application. There will be numerous situations where students will use their analytical skills and prepare written documents used by CPAs and accountants. Prerequisite: BUS 453 & BUS 454.

BUS 485. Seminar. (2-4).

BUS 490. Independent Study. (1-4).

BUS 492. Internship. (1-4).

BUS 493. Field Studies. (2).

BUS 496. Directed Research. (1-3).

American Studies (minor)

Minor in American Studies

20 credits minimum, 20 credits upper division.

ART 105	American Art	4
RLTH 334	The American Religious Experience	4
One of the following:		4
ENGL 325	American Literature I	4
ENGL 326	American Literature II	4
ENGL 350	Studies in African-American Literature	4
ENGL/SPAN 361	Contemporary Chicano Literature	4
ENGL 455	Major American Authors	4
One of the following:		4
HIST 321	Colonial America	4
HIST 324	Society and Culture in U.S. History	4
HIST/HNRS 328	Cold War America	4
HIST 341	United States Women's History	4
One of the following:		
POLS 324	American Political Thought	4
or POLS 401	American Constitutional Law	

Art

The California Lutheran University art curriculum provides a foundation in the studio arts and art history which encourages students to develop their own vision as creative artists and voices for its history and contemporary critique. With an emphasis on individualized attention and creative motivation, faculty members combine a broad range of academic and art disciplines with real-world experiences, philosophies and attitudes.

Interested students have a chance to participate in Cal Lutheran-sponsored travel to a variety of international locations. Each student is also given the option to take art and/or art history classes one or two semesters in a Study Abroad program in countries such as Italy or England. Likewise, Cal Lutheran's diverse art collections give students access to a variety of art objects from various countries. These collections include the La Boyteaux Collection of New Guinea Art, the Lou Grubb Collection of American Indian Art and Paintings, the Rev. Patty Hundley Photographic Archive and a collection of Philippine Island ethnic artwork.

Art majors may opt for the standard art major curricula or designate their preference with a concentration in design. The design specialty requires an advanced computer graphics course. Sophisticated graphics programs utilizing up-to-date software are available to Cal Lutheran students to increase their creative skills and prepare them for the professional work of design. In addition, other design courses are cross-listed with the Theatre Arts Department, and digital arts classes are available in the Multimedia major.

The majority of students choosing the design emphasis move into careers associated with advertising agencies, computer graphics, freelance photography, design studios and book design. Students can also prepare for careers in the motion picture and television industries, theater and animation by creating work especially targeted for their desired goals.

Art history students find Cal Lutheran a perfect area to explore museums and architectural works. Nearby are the J. Paul Getty Museum, the Norton Simon Museum, the Pacific-Asia Museum, the Los Angeles County Museum of Art, the Museum of Contemporary Art (L.A.), Walt Disney Concert Hall, the Armand Hammer Museum, the Santa Barbara Museum of Art and others.

Students interested in a fine arts studio practice are provided a foundation of techniques and interaction with various materials which involve traditional and contemporary studio methods. The ultimate goal is for students to develop their own individual style and body of work while having an awareness of related historical and contemporary art concepts.

All art major seniors are required to take a Capstone course which focuses on the practical and philosophical aspects of being an artist or working in a field related to the arts. This class is designed to assist students in "real world" participation in the arts following graduation. A working knowledge of archival matting/framing, writing an artist statement and preparing a portfolio are included. All of the steps needed to curate and install an art exhibition are covered, culminating in a collaboratively produced retrospective of the senior art majors' best work displayed in the William Rolland Gallery of Fine Art.

The Visual Arts Department works with the School of Education to serve the needs of students planning careers in teaching. Credential programs, as well as opportunities to practice art instruction, are available. A Multimedia major is also available.

Internships at museums, galleries, companies or organizations are encouraged and earn up to four credits.

Bachelor of Arts in Art

42 credits minimum, 24 credits upper division.

ART 111	History of Art	4
or ART 112	History of Art	
ART 160	Drawing	3
ART 165	Life Drawing	3
ART 236	Digital Photography	3
ART 270	Beginning Painting	3
ART 280	Design	3
ART 320	Sculpture	3
ART 380	Digital Art	3
ART 410	Modern Art	4
ART 418	Interdisciplinary Arts - Capstone	3
ART 440	Senior Show	1
ART 472	Life Painting	3
Art Elective Credits (at least 2 Upper Division)		
ART 105	American Art	4
ART 175	Introduction to Watercolor	3
ART 330	Printmaking	3

ART 341	Visual Arts in Education	3
ART 342	Art and Psychology	3
ART 350	Ceramics I	3
ART 351	Ceramics II	3
ART 412	Christian Art in the Middle Ages	4
ART 414	Philosophy of Art	4
ART 420	Sculpture	3
ART 430	Printmaking	3
ART 435	Adv Photography Intro Journalism	3
ART 445	Comiccomm: Globalism, Zeitgeist & Art	4
ART 480	Advanced Digital Art	3
FILM 208	Beginning Cinema Production	4
MULT 358	Visual Effects/Motion Graphics/Animation	4
MULT 462	Digital Illustration	4
MULT 465	Maxon Cinema 4D 3D Animation	4
MULT 470	High Definition Digital Cinema I	4
TA 368	Scenic Design for Stage and Media	4

Bachelor of Arts with Concentration in Design

44 credits minimum, 26 credits upper division.

ART 112	History of Art	4
ART 160	Drawing	3
ART 236	Digital Photography	3
ART 270	Beginning Painting	3
ART 280	Design	3
ART 320	Sculpture	3
ART 380	Digital Art	3
ART 385	Advertising Art I	3
ART 410	Modern Art	4
ART 418	Interdisciplinary Arts - Capstone	3
ART 435	Adv Photography Intro Journalism	3
ART 440	Senior Show	1
ART 480	Advanced Digital Art	3
ART 481		3
Art Elective Credits		1
ART 105	American Art	4
ART 175	Introduction to Watercolor	3
ART 270	Beginning Painting	3
ART 330	Printmaking	3
ART 341	Visual Arts in Education	3
ART 342	Art and Psychology	3
ART 350	Ceramics I	3
ART 351	Ceramics II	3
ART 412	Christian Art in the Middle Ages	4
ART 420	Sculpture	3
ART 430	Printmaking	3
ART 445	Comiccomm: Globalism, Zeitgeist & Art	4
ART 472	Life Painting	3
FILM 208	Beginning Cinema Production	4
MULT 336	Developing Internet Content I	4
MULT 462	Digital Illustration	4

MULT 463	Graphic Design Multimedia Integration	4
MULT 358	Visual Effects/Motion Graphics/Animation	4
MULT 465	Maxon Cinema 4D 3D Animation	4
MULT 470	High Definition Digital Cinema I	4
TA 167	Design & Production for Stage & Media	4
TA 365	Makeup Design I for Stage and Media	2
TA 342	History of Theatre and Drama I	4
TA 366	(Advanced)	2
TA 368	Scenic Design for Stage and Media (Advanced)	4
TA 369	Costume Design for Stage and Media	4

Minor in Art

18 credits minimum, 9 credits upper division. Students interested in teaching art should refer to the Chair of the Art Department for information about the art subject matter program. (see Education (p. 141))

ART 111	History of Art	4
or ART 112	History of Art	
ART 160	Drawing	3
ART 280	Design	3
Upper Division Art Elective Credits		9
Total Hours		**19**

Minor in Art History

20 credits minimum, (of these, 8 credits must be upper division).

Required Courses		
ART 111	History of Art	4
or ART 112	History of Art	
ART 410	Modern Art	4
Electives - 3 courses		
ART 105	American Art	4
ART 112	History of Art	4
or ART 111	History of Art	
ART 160	Drawing	3
ART 412	Christian Art in the Middle Ages	4

Courses

Lower Division

ART 105. American Art. (4).
This course surveys the history of American art from the first European colonies to World War II. Students consider notions of American identity and nationhood, by examining key works of painting, sculpture, textiles, and architecture, and placing these works in the proper historical, political, social, and cultural contexts. Students gain an understanding of the diverse peoples, traditions, and events that informed American culture and continue to shape notions of nationhood. In this course, art serves as a 'window' into American life, culture, and diversity. What does it mean to be an 'American' today? We begin to answer this question by reflecting upon our past expressions.

ART 111/112. History of Art. (4,4).
111: From prehistoric and ancient civilizations to the Renaissance. 112: From the Renaissance to contemporary.

ART 160. Drawing. (3).
An introduction to the fundamentals of line, shape, form, value and pictorial space and their use in aesthetic expression and the communication of ideas.

ART 165. Life Drawing. (3).
A study of the presentation of the human form through graphic representations, with an emphasis on the structure, form and anatomy of the model. Prerequisite: ART 160.

ART 175. Introduction to Watercolor. (3).
An introduction to watercolor, painting including value and color theory, and the place of watercolor in the art world.

ART 236. Digital Photography. (3).
An introduction to digital photography. A fine arts approach to the use of the digital camera, including its potential for creating art, and methods for adjusting and enhancing images on the computer.

ART 270. Beginning Painting. (3).
An introduction to various media and techniques of painting. Students experiment with visual elements and their use in the expression and communication of ideas, with emphasis on the creative approach.

ART 280. Design. (3).
An introductory study in the visual elements and principles of design and unity of expression. Includes creative exploration in two- and three-dimensional composition.

ART 282. Selected Topics. (3).

ART 282C. ST: CORE. (1-4).
Select Topic approved to satisfy a core requirement.

Upper Division

ART 320. Sculpture. (3).
Students are introduced to three-dimensional concepts and design through hands-on experience with various materials, such as clay, plaster and stone, using a variety of tools and sculpturing techniques. Course includes study and critical analysis of major sculptors.

ART 330. Printmaking. (3).
An introduction to various methods of intaglio and relief processes in fine printmaking. Pictorial concern and technique are stressed. Prerequisite: ART 160 or consent of instructor.

ART 341. Visual Arts in Education. (3).
A study of the visual arts in education. Theories and philosophies of art and its objectives in the classroom with correlated studio activities and creative experiences that explore various media and appropriate techniques. Both elementary and secondary school curricula in art are included.

ART 342. Art and Psychology. (3).
This course is offered in the Art and Psychology departments for those students who are interested in the synergy between art and psychology. It satisfies the CORE 21 Participatory Art requirement. It is especially relevant for students with majors in art or psychology or both who are interested in an MFT/ATR (registered art therapist) graduate program. For all others, the course provides an overview of art history, design, production and aesthetics with an emphasis on psychological theories and current neuroscience research. Child development and family systems are addressed in relation to therapeutic uses of art. Visual thinking and creativity are explored and utilized in the production of self-expressive art works.

ART 350. Ceramics I. (3).
An introduction to ceramics that emphasizes development of technique in wheel throwing and includes basic clay and glaze technology and the application of glazes. Students progress at their own speed with specific instruction given toward their individual development.

ART 351. Ceramics II. (3).
Stress is placed on wheel throwing, including the making of varied forms: covered ware, sculpted and decorated pieces plus added slab and coil work. Students are allowed an individual creative approach to further their development in form and surface decoration. Includes advanced technology in higher firing clays and glazes. Prerequisite: ART 350 Ceramics I or equivalent experience and/or consent of instructor.

ART 370. Intermediate Painting. (3).
Introduces the creative use of color based on an understanding of visual structural elements. Prerequisite: ART 270.

ART 380. Digital Art. (3).
This course serves as an introduction to digital art as a medium for artistic expression, as well as to the technical and theoretical aspects of the emerging field of digital fine art.

ART 383. Typography for Designers. (3).
This class concentrates on the basics of typography, including the history and development of typography. Students will explore the correct use of typographic elements to properly typeset a variety of document types, including a multiple page publication. The use of typography as an expressive and creative component of effective design is also covered. Students should develop a basic foundation for understanding the expectations of professional typography, layout and the role typography plays in creating successful design for print and electronic mediums.

ART 385. Advertising Art I. (3).
In ART 385, Students learn the design techniques, employ visual strategies and find creative solutions to produce commercial imaging. Students undergo intensive and in-depth experience utilizing Adobe Photoshop, major applications of this course. Students are introduced to, and gain "fluency" with, numerous creative tools, and all the aesthetic possibilities implied. Students undergo a series of creative, visual challenges grounded in basic design principles, to help build, and then master, the multiple skills needed to produce a variety of advertising materials including (but not limited to) page layouts, logos, magazine spreads, CD covers, pamphlets, books, business cards, and letterheads. For anyone wishing to develop the basic skill set necessary to compete in the advertising industry -- this course is essential. No pre-requisite.

ART 410. Modern Art. (4).
This art history course on modern art surveys major artists and key developments in Europe and the United States, 1850s-1940s. Pre-requisite ART 112 or consent of the instructor.

ART 412. Christian Art in the Middle Ages. (4).
Students survey the religious art of the Middle Ages - primarily Christian, but also some early Jewish and Islamic developments - identifying significant works of architecture, sculpture, and painting, while exploring Christian concepts and beliefs, liturgy and worship. Students consider art in relation to cultural needs, examining works in historical, religious social, economic, and political contexts. Students become familiar with visual forms, styles, narratives, and symbols of Christian art, as well as with broader, unifying themes shared by different cultures. The course content covers twelve centuries and geographically spans the Western edges of Europe to the Middle East. We also pay attention to instances of cultural exchange (the circulation of ideas, art forms, and artists through Europe and the Middle East). (cross-listed with REL 412).

ART 414. Philosophy of Art. (4).
The study of the aesthetic experience and the work of art. Includes various theories and their expression, function and criticism. (cross-listed with PHIL 414).

ART 418. Interdisciplinary Arts - Capstone. (3).
For all art major seniors, this course focuses on the practical, philosophical, and personal aspects of being an artist or working in a field related to the arts. Useful knowledge such as archival matting/framing, packing, mailing, and documenting artwork will be covered. Students will write an artist statement, crucial when applying for graduate school or accompanying your portfolio in job searches, grant and exhibit proposals, or publishing your work on-line, etc. Emphasis on pre-preparation for the senior art exhibit (scheduled spring semester) including gallery layout design, art announcement design, exhibit posters, mailing lists, etc. - special attention to gathering a strong portfolio of individual work, especially a body of artwork connected by theme, technique, subject, or concept.

ART 420. Sculpture. (3).
Advanced exploration of sculpture as reflected in the human figure, from basic skeletal structure to finished form. Use of plaster body casts and other sculptural techniques reinforce hands-on learning. Course includes study and critical analysis of major sculptors' work on the human form. Prerequisite: Art 321.

ART 425. Arts Management and Museology. (4).
This is a cross-disciplinary course merging Management, Art and Museum Studies to give students an insider view of the art world. By the end of the term students will have mastered multiple business models and will have executed an art exhibition from start to finish, including all aspects of curation, marketing and writing. Junior standing required. Cross-listed with BUS-425.

ART 430. Printmaking. (3).
Experimental techniques in fine printmaking with an introduction to color. Prerequisite: Art 331 or consent of instructor.

ART 435. Adv Photography Intro Journalism. (3).
ART 435 is an upper division digital photography class covering news, commercial and fine art photojournalism. In this class, students learn techniques required for using the camera as a reporting and illustrating tool for print and online media. Types of events include hard news, sports, editorial, as well as using the camera for fine art documentary and narrative photography. Pre-requisite: ART 236.

ART 440. Senior Show. (1).
This one unit course is required for senior level art majors. It prepares students for, and guides them through, a senior art exhibition. Together, classmates plan, design, implement and install this exhibition. Prerequisites: Capstone ART 418 and art majors only.

ART 445. Comiccomm: Globalism, Zeitgeist & Art. (4).
ComicComm: Globalism, Zeitgeist and the Art of Visual Communication covers the development of comic books/graphic novels from the earliest forms of sequential art through 19th century European, Japanese and Asain comics. The course then concentrates on 20th-21st century comics, bandes dessinees, and manga. The courses looks at the ways in which comics embody or challenge the ideologies of the culture in which they originate and how they respond to real-world controversies and disasters. It tracks cultural hybridism in comic art, the effects of participatory fan culture on the industry and issues of race, religion and philosophy as addressed by genre. Students write and illustrate their own comics: mastering the visual language of comics and manga; drawing figures and settings; and framing action and narrative in sequential format. Students' work may be fictional, biographical or documentary. The work is drawn and manipulated on iPads provided by the Library.

ART 450. Ceramics III. (3).
Further emphasis on individual development of the ceramist, including hands-on involvement in developing clay bodies and empirical glaze formulations and an introduction to kiln firing. Prerequisites: ART 351 - Ceramics II, or equivalent and consent of instructor. Recommended: ART 160 and/or ART 280.

ART 472. Life Painting. (3).
Painting from the figure in the environment, with emphasis on individual expression. Prerequisite: Consent of instructor.

ART 480. Advanced Digital Art. (3).
This course explores a variety of applications and third party software filters to increase artistic expression in the field of digital fine art. Students explore special effects and digital engraving, including drypoint, mezzotint and cross-hatching. Prerequisite: ART 380.

ART 490. Independent Study. (1-4).

ART 492. Internship. (1-4).

ART 496. Directed Research. (1-3).

Asian Studies (minor)

Asian Studies (minor)

In a future when human value, whether capital or cultural, will move across boundaries with ever-increasing rapidity, educated actors on a global stage will require experiences that take seriously cultures, histories, and economies of particular geographical regions. A majority of the world's population lives on the Asian continent. Asian societies have made rich contributions to human civilization, and take an ever-increasing role in shaping geopolitical events. An educated, global citizen would do well to have a working knowledge of Asia's cultures, history, and economics.

The Asian Studies minor offers a rich understanding of the continent, not from the narrow confines of one academic discipline, but rather as an interdisciplinary series of courses that is capable of fostering cross-cultural understanding of this place of many cultures. Our University's location on the Pacific Rim makes knowledge about cultures across the ocean so much more necessary, particularly for students in professional studies, such as Business Administration. It is a matter of great pride and excitement that here at California Lutheran University, we can introduce our undergraduate population to the multiple dimensions of the geographical and cultural realities of this vast continent.

Minor in Asian Studies

20 credits minimum; 12 credits upper division

Choose 20 credits from the following: (must be from at least two distinct disciplines)		20
CHIN 201	Intermediate Chinese	
CHIN 202	Intermediate Chinese	
ENGL/PHIL 260	Topics in World Literature	
ENGL 355	Post-Colonial Studies in Literature	
HIST 380	History of Modern China	
HIST/POLS 384	History of the Islamic World	
HIST/POLS 386	History of South Asia	
HIST/POLS 388	History of East Asia	
HIST 485	Travel Seminar: Japan's Ancient Capitals,	2
PHIL 355	Chinese Philosophy and Culture	
POLS 384	History/Politics Modern Middle East	4
POLS 386	History and Politics of South Asia	4
POLS 388	History and Politics of East Asia	4
POLS 478	The Pacific Rim	4
RLTH 375	Muslims in the Modern World	4
RLTH 379	Sikhism	4
RLTH 397	Islamic Spirituality	4
SOC 285	Travel Course:Japanese Society/Culture	
BUS 418	,Business in China and India	
BUS/POLS 478		
Total Hours		**50**

Biochemistry and Molecular Biology

Biochemists and molecular biologists study the chemistry of life. This includes the study of protein structure and function, metabolism, and the mechanics of DNA, RNA and protein synthesis. The Cal Lutheran program emphasizes genomics and bioinformatics as methods that teach students how to perform research. Like other Cal Lutheran science majors, biochemistry and molecular biology students are encouraged to design and carry out their own experiments, and advanced students are encouraged to complete independent studies and internships. The University's state-of-the-art equipment and resources offer students access to the latest scientific information and techniques.

Preprofessional programs in medicine, dentistry, veterinary medicine, pharmacy and bioengineering can be pursued through the biochemistry program at Cal Lutheran. The biochemistry curriculum prepares students for positions in industrial and governmental research laboratories.

Careers in biochemistry and molecular biology are available in government and private companies and include positions in a variety of research industries. The growing areas of genetics and biotechnology provide many career opportunities with companies such as Amgen and Baxter Biotech, both international biotechnology companies that are located near the University.

Likewise, many biochemistry majors from Cal Lutheran are accepted into medical, dental, pharmaceutical and graduate schools throughout the United States.

Bachelor of Arts in Biochemistry and Molecular Biology

38 credits minimum, 24 credits upper division.

BIOL 121	Introduction to Cells and Organisms	3
or BIOL 122	Intro to Metabolism, Genes & Developmt	
BIOL 124L	Intro Biol Experimentation II	2
BIOL 425/425L	Biochemistry and Biochemistry Lab	4
BIOL 426/426L	Molecular Biology and Molecular Biology Lab	4
BIOL 427	Genomics	2
or BIOL 332	Macromolecular Structure	
CHEM 151	General Chemistry	4
CHEM 151L	General Chemistry Lab	1
CHEM 152	General Chemistry II	4
CHEM 152L	General Chemistry II Lab	1
CHEM 305/305L	Quantitative Analysis and Quantitative Analysis Lab	4
CHEM 331	Organic Chemistry	4
CHEM 332	Organic Chemistry II	4
CHEM 341	Organic Chemistry Lab	1
CHEM 342	Organic Chemistry II Lab	1
BIOL 399/498/499	Junior Honors and Senior Honors I - Capstone and Senior Honors II - Capstone	2-8
or CHEM 485	Capstone Seminar	
Total Hours		**41-47**

Required Supporting Courses

MATH 251	Calculus I	4
MATH 252	Calculus II	4
Select one of the following:		8-10
PHYS 201/201L/202/202L	Mechanics and Thermodynamics-Algebra and Mechanics and Thermodynamics- Lab and Electricity, Magnetism, Optics -Algebra and Electricity, Magnetism, Optics - Lab	
PHYS 211/211L/212/212L	Mechanics and Thermodynamics-Calculus and Mechanics and Thermodynamics-Lab and Electricity, Magnetism, and Optics - and Electricity, Magnetism Optics Lab	
Total Hours		**16-18**

Recommended

BIOL 331/331L	Genetics and Genetics Lab	4
BIOL 332	Macromolecular Structure	2
BIOL 361/361L	Microbiology and Microbiology Lab	4
BIOL 375/375L	Cell Biology and Cell Biology Lab	4
BIOL 428/428L	Virology and Virology Lab	4
CHEM 405/405L	Physical Chemistry and Physical Chemistry Lab	4
CHEM 406/406L	Physical Chemistry and Physical Chemistry Lab	4
CSC 210	Introduction to Computer Programming	4
Total Hours		**30**

Bachelor of Science in Biochemistry and Molecular Biology

46 credits minimum, 30 credits upper division.

BIOL 121	Introduction to Cells and Organisms	3
BIOL 122	Intro to Metabolism, Genes & Developmt	3
BIOL 124L	Intro Biol Experimentation II	2

BIOL 425/425L	Biochemistry and Biochemistry Lab	4
BIOL 426/426L	Molecular Biology and Molecular Biology Lab	4
BIOL 427	Genomics	2
or BIOL 332	Macromolecular Structure	
CHEM 151	General Chemistry	4
CHEM 151L	General Chemistry Lab	1
CHEM 152	General Chemistry II	4
CHEM 152L	General Chemistry II Lab	1
CHEM 305/305L	Quantitative Analysis and Quantitative Analysis Lab	4
CHEM 331	Organic Chemistry	4
CHEM 332	Organic Chemistry II	4
CHEM 341	Organic Chemistry Lab	1
CHEM 342	Organic Chemistry II Lab	1
CHEM 405	Physical Chemistry	4
BIOL 399/498/499	Junior Honors and Senior Honors I - Capstone and Senior Honors II - Capstone	2-8
or CHEM 485	Capstone Seminar	
Total Hours		**48-54**

Required Supporting Courses

MATH 251	Calculus I	4
MATH 252	Calculus II	4
Select one of the following:		8-10
PHYS 201/201L/202/202L	Mechanics and Thermodynamics-Algebra and Mechanics and Thermodynamics- Lab and Electricity, Magnetism, Optics -Algebra and Electricity, Magnetism, Optics - Lab	
PHYS 211/211L/212/212L	Mechanics and Thermodynamics-Calculus and Mechanics and Thermodynamics-Lab and Electricity, Magnetism, and Optics - and Electricity, Magnetism Optics Lab	
Total Hours		**16-18**

Recommended

Recommended Courses:		
BIOL 331/331L	Genetics and Genetics Lab	4
BIOL 332	Macromolecular Structure	2
BIOL 361/361L	Microbiology and Microbiology Lab	4
BIOL 375/375L	Cell Biology and Cell Biology Lab	4
BIOL 428/428L	Virology and Virology Lab	4
CHEM 406/406L	Physical Chemistry and Physical Chemistry Lab	4
CSC 210	Introduction to Computer Programming	4
Total Hours		**26**

Biology Courses

Lower Division

BIOL 111. Principles of Biology. (4).
For non-majors or students not pursuing a preprofessional program related to biology. Includes general biological principles and a survey of the plant and animal organisms. Lecture, 3 hours/week; Laboratory, 2 1/2 hours/week.

BIOL 111L. Principles of Biology Lab. (0).

BIOL 113. Biology and Society. (4).
The course will provide a broad overview of biological topics in a style appropriate for students will little to no background in science. We will discuss relevant scientific research to enable students to make informed discussions about science related social and personal issues. We will explore topics ranging from the basic chemistry of life to the vast diversity of life on the planet to the processes through which life has evolved and how organisms have adapted to live in different environments. It is my hope and goal that by the end of this course students will leave with an increase appreciation and interest in our natural works and scientific fields of study. Lecture, 3 hours/week; Lab, 2.5 hours/week.

BIOL 115. Current Issues in Marine Biology. (3).
This course is designed for non-science majors and is an introduction to marine biology via current issues and problems facing our world's ocean environment. Topics include coastal population growth and associated pollution, fisheries, and fisheries management, plastics in the ocean, climate chance and ocean acidification, mercury in seafood, beach erosion, alien species, marine biodiversity and coral reel ecology/decline. The course includes both lecture and laboratory experiences.

BIOL 118. The Oceans. (4).
For non-majors or students pursuing a minor in environmental studies. This general survey of geological and biological processes in the ocean has a strong environmental emphasis. Laboratory exercises and field trips illustrate and complement lecture material. Lecture, 3 hours/week; Laboratory, 2 1/2 hours/week. (cross-listed with GEOL 118).

BIOL 118L. The Oceans Lab. (0).

BIOL 120. Introduction to Ecology and Populations. (3).
This course is an introduction to the history of evolutionary thought and the mechanisms of evolution, including species formation and the use of phylogenetic information. Diversity of living organisms, from prokaryotes to advanced multicellular organisms, will be discussed with an emphasis on evolutionary relationships. The principles of population and community ecology will be treated. Ecosystems and the environmental impacts of human activities will also be discussed. No prerequisites.

BIOL 120S. Supplemental Inst: BIOL 120. (0).
This is the Supplemental Instruction Blackboard Platform attached to BIO 120. As a student enrolled in this section, you are automatically enrolled in the attached Supplemental Instruction Blackboard Platform. Supplemental Instruction (SI) is an academic support program designed to improve student success in challenging foundation courses. SI is a well-researched program that has been shown to improve students' letter grades by a half to a full grade, with consistent participation. With the SI model, a SI Leader (a student who has successfully completed the course with a B+ or better in the past, and who has an overall GPA of 3.0 or higher) is embedded into the course, attending all course meetings. The SI Leader then facilitates the scheduling and running of group SI study sessions throughout the week. There will typically be three one hour SI Sessions or two 90 minute SI Sessions per week. The SI Blackboard Platform is hosted by your SI Leader, who will utilize it to take confidential attendance at SI Sessions, to make general announcements to the class members, and to share helpful resources and study materials for SI Sessions. Participation in the SI study sessions is completely optional and always free, and you may come to as many or as few sessions as you would like over the semester. Your course professor does not receive any information about attendance, so you can be certain that your participation will be kept confidential.

BIOL 121. Introduction to Cells and Organisms. (3).
This course introduces important areas of cell biology such as cell organization of both prokaryotic and eukaryotic cells, cellular membranes, and signaling mechanisms. Included will be discussions of bacteria, Archaea, virus, fungi, and protists. Further studies will involve a broad, comparative survey of animal physiology, including animal motility, respiratory and circulatory physiology, principles of immunology, nutrition, neurobiology, endocrinology, reproduction and development. No prerequisites. Recommended: BIOL 120.

BIOL 121S. Supplemental Instr: Biol 121S. (0).
This is the Supplemental Instruction Blackboard Platform attached to BIOL 121. As a student enrolled in this section, you are automatically enrolled in the attached Supplemental Instruction Blackboard Platform. Supplemental Instruction (SI) is an academic support program designed to improve student success in challenging foundation courses. SI is a well-researched program that has been shown to improve students' letter grades by a half to a full grade, with consistent participation. With the SI model, a SI Leader (a student who has successfully completed the course with a B+ or better in the past, and who has an overall GPA of 3.0 or higher) is embedded into the course, attending all course meetings. The SI Leader then facilitates the scheduling and running of group SI study sessions throughout the week. There will typically be three one hour SI Sessions or two 90 minute SI Sessions per week. The SI Blackboard Platform is hosted by your SI Leader, who will utilize it to take confidential attendance at SI Sessions, to make general announcements to the class members, and to share helpful resources and study materials for SI Sessions. Participation in the SI study sessions is completely optional and always free, and you may come to as many or as few sessions as you would like over the semester. Your course professor does not receive any information about attendance, so you can be certain that your participation will be kept confidential.

BIOL 122. Intro to Metabolism, Genes & Developmt. (3).
This course introduces the structure and function of biomolecules, energy flow in a cellular context, mechanisms of heredity, the expression of genetic information and the means by which genes encode developmental programs. It will be seen that genetics and development are part of a continuous process and that the genetic mechanisms and developmentalpatterns of living organisms reveal a fundamental kinship of life on earth. Genetics as a tool for the study of biological problems will be introduced, as will some current topics in genomic research and biotechnology. Students willing to explore these topics in greater detail are referred to upper division courses in Genetics, Macromolecular Structure, Developmental Biology, Cell Biology and Molecular Biology. No prerequisites. Recommended: BIOL 120, BIOL 121.

BIOL 123L. Intro Biol Experimentation I. (2).
This course introduces students to the processes of investigative biology and communication. It is not designed to accompany any particular core lecture course. The course is designed to develop the skills students need to progress as young scientists: forming and testing hypotheses, scientific observation, interpreting results, experimentation, analysis and communication of scientific discovery (both oral and written). Laboratories cover some topics presented in some of the core lecture courses (BIOL 120, BIOL 121 and BIOL 122) and introduce a variety of techniques including field sampling, statistical analysis, classification of organisms and physiological measurement. The course emphasizes experimental design, data collection, statistical analysis,integration of results with information reported in the scientific literature and the effective communication of conclusions. Evaluation is based on short lab assignments and scientific papers. There are no prerequisites. (Offered Fall semester).

BIOL 124L. Intro Biol Experimentation II. (2).
This course exposes students to the processes of investigative biology and communication. This laboratory course is not designed to accompany any particular core lecture course, and will introduce a variety of subjects including including virology, gene expression, gene sequence analysis, gene manipulation and bioinformatics. The course may emphasize experimental design, data collection, statistical analysis, the integration of results with information reported in the literature and the effective communication of conclusions. In line with the philosophy of our inquiry-based curriculum, Biology 124 culminates in an independent project module, where students design and conduct their own experiments, analyze data (statistically, where appropriate) and present their results in both written and oral communications. Evaluation is based on short lab assignments and scientific papers; students will plan an oral presentation of their independent project. There are no prerequisites.(Offered Spring semester).

BIOL 217. Biology of Sex and Gender. (3).
This course provides an introduction to the biological dimensions of sex and gender from physiological, ecological and evolutionary perspectives. Although we will focus quite a lot on humans, we will be covering other species as well, particularly in s comparative prespective.

BIOL 223. Human Anatomy. (4).
Human Anatomy is the study of the structure of the human body, from the cellular level to the organismal level with an emphasis on organ systems. While the focus of the course is structure, function will be covered in order to reinforce the interrelationship of structure and function. Microscopic and gross anatomy will be studied in the laboratory. Specimens studied in lab include microscopic slides, human bones, plastic models, clay models, and anatomical images (e.g., micrographs, radiographic images, photos, medical illustrations). Mammalian specimens and isolated mammalian organs will be used for dissection. Lecture, 3 hrs/week; Lab, 2.5 hours/week. Prerequisites: none. Co-requisite: BIOL 223L.

BIOL 223L. Human Anatomy Lab. (0).

BIOL 223S. Supplemental Inst: BIOL 223. (0).
This is the Supplemental Instruction Blackboard Platform attached to BIO 223. As a student enrolled in this section, you are automatically enrolled in the attached Supplemental Instruction Blackboard Platform. Supplemental Instruction (SI) is an academic support program designed to improve student success in challenging foundation courses. SI is a well-researched program that has been shown to improve students' letter grades by a half to a full grade, with consistent participation. With the SI model, a SI Leader (a student who has successfully completed the course with a B+ or better in the past, and who has an overall GPA of 3.0 or higher) is embedded into the course, attending all course meetings. The SI Leader then facilitates the scheduling and running of group SI study sessions throughout the week. There will typically be three one hour SI Sessions or two 90 minute SI Sessions per week. The SI Blackboard Platform is hosted by your SI Leader, who will utilize it to take confidential attendance at SI Sessions, to make general announcements to the class members, and to share helpful resources and study materials for SI Sessions. Participation in the SI study sessions is completely optional and always free, and you may come to as many or as few sessions as you would like over the semester. Your course professor does not receive any information about attendance, so you can be certain that your participation will be kept confidential.

BIOL 224. Human Physiology. (4).
Human Physiology is the study of mechanisms that underlie the functioning of the human body, from the molecular level to the organismal level with an emphasis on organ systems. Physiology is a biological science that is inherently interdisciplinary since it utilizes mathematics, physics, chemistry and biology. While the focus of the course is physiology, anatomy will be covered in order to reinforce the interrelationship of structure and function. In the laboratory, students will conduct experiments related to the topics covered in the lecture. In the lab, students conduct hands-on investigational activities many of which involve recording and analyzing data from human subjects. Some laboratory exercises involves interactive computer situations. Lecture, 3hrs/week; Lab, 2.5 hours/week. Prerequisites: Human Anatomy BIOL 223 or BIOL 121. High school or college chemistry highly recommended. Co-requisite: BIOL 224L.

BIOL 224L. Human Physiology Lab. (0).

BIOL 224S. Supplemental Instr: Biol 224S. (0).
This is the Supplemental Instruction Blackboard Platform attached to BIOL 224. As a student enrolled in this section, you are automatically enrolled in the attached Supplemental Instruction Blackboard Platform. Supplemental Instruction (SI) is an academic support program designed to improve student success in challenging foundation courses. SI is a well-researched program that has been shown to improve students' letter grades by a half to a full grade, with consistent participation. With the SI model, a SI Leader (a student who has successfully completed the course with a B+ or better in the past, and who has an overall GPA of 3.0 or higher) is embedded into the course, attending all course meetings. The SI Leader then facilitates the scheduling and running of group SI study sessions throughout the week. There will typically be three one hour SI Sessions or two 90 minute SI Sessions per week. The SI Blackboard Platform is hosted by your SI Leader, who will utilize it to take confidential attendance at SI Sessions, to make general announcements to the class members, and to share helpful resources and study materials for SI Sessions. Participation in the SI study sessions is completely optional and always free, and you may come to as many or as few sessions as you would like over the semester. Your course professor does not receive any information about attendance, so you can be certain that your participation will be kept confidential.

BIOL 282C. ST: (CORE). (1-4).
Select Topic approved to satisfy core requirement.

Upper Division

BIOL 311. Evolution. (4).
Evolution is the central concept in all of biology and thus is the thread that ties together the multiple sub-disciplines of the biological sciences. This course examines evolution in historical and scientific contexts and aims to teach a deep understanding of the processes and mechanisms of evolutionary biology. Topics covered include population genetics, the theory of evolution by natural selection, concepts of fitness and adaptation, genetic and developmental bases of evolutionary change, modes of speciation, molecular evolution, principles of systematic biology, macroevolutionary trends in evolution, extinction and human evolution. Lecture, 3 hours/week. Prerequisite: BIOL 120, BIOL 121, BIOL 122.

BIOL 312. Darwin. (2).
"Darwin" is a 2-unit seminar course that explores the life and science of Charles Darwin. Students read two biographical books; (1) Charles Darwin: Voyaging and (2) Charles Darwin: the Power of Place. Each biographical sketch is a reflection of Darwin's personal life and how it influenced his scientific discoveries. In addition, the course not only focuses on Darwin but also places his works into a historical context. Students learn about the history of science and about the many scientists who were working at the same time as Charles Darwin. Students discuss matters of biological interest and are required to write summaries of their readings. Prerequisite: BIOL 120, BIOL 124L, BIOL 311.

BIOL 313. Climate Change. (2).
In this course we examine the implications of climate disruption on the world & its inhabitants. We will closely examine the effects of climate change on the oceans & forests and all live within. The role of polar, sea & land ince and its diminishing consequences and its effect on climate disruption will also be explored.

BIOL 325. Environmental Ecology. (4).
A study of ecology with emphasis on humans and the environment. Problems such as overpopulation, food production, water and air pollution, the energy crisis and toxic waste disposal are discussed; their possible solutions are considered along with the social, political and economic ramifications. Lecture, 3 hours/week; Laboratory, 2 1/2 hours/week. Prerequisite: BIOL 122, BIOL 124L or equivalent.

BIOL 325L. Enviromental Ecology Lab. (0).

BIOL 331. Genetics. (4).
This course concerns the mechanisms by which genetic information is stored, decoded and transmitted. We will focus on the experimental basis upon which our understanding of the above mechanisms rests. Methods of genetic analysis that involve interpretation of abstract data will be emphasized, although molecular and bioinformatic approaches, including structural and functional genomics, will be treated. The use of genetic analysis as an incisive tool to dissect biological processes will be a central theme of the course. Lecture, 3 hours/week; Laboratory, 3 hours/week. Prerequisites: BIOL 122.

BIOL 331L. Genetics Lab. (0).

BIOL 332. Macromolecular Structure. (2).
The elaborate interplay of a variety of macromolecules underlies the mechanisms that govern cell function. This advanced course deals with the structure-function relationships of these macromolecular machines. It is intended that students emerge from this course with a deep understanding of the principles that govern macromolecular structure and the functional consequences of these principles. This is a seminar class in which students must assume responsibility for their own learning. Students will come to class prepared to discuss the reading assignment for the week. Lectures will focus on teaching the methods that students will employ to construct a Web-based tutorial on a macromolecule, chosen with input from the professor. Prerequisites: BIOL 122.

BIOL 333. Ecology. (4).
This course teaches the foundational principles of the science of ecology. Fundamental concepts of the course include the physical and biotic environment, responses of organisms to the environment, distribution or organisms, behavioral and community ecology, natural ecosystems, and human interaction with ecosystems. Lecture, 3 hours/week; Lab, 3 hours/week. Prerequisites: BIOL 120, BIOL 123L or equivalent. Recommended: MATH 231.

BIOL 333L. Ecology Lab. (0).

BIOL 334. Contemporary Issues in Biology. (4).
The course will cover current issues relating to the biological sciences from the cell and including, our ecosystem and biosphere. We will discuss current issues and debates through print and emedia and compare and contrast these secondary, tertiary and quaternary sources of information to primary research sources. Our interest lies not only in gathering information and learning basic biological principles, but how these issues impact human health, politics, business, ecosystems and our daily life. Lecture, 4 hours/week. Perquisites: at least 5 units of lower division Biology Courses.

BIOL 341. Comparative Anatomy. (4).
The comparative study of vertebrate anatomy within an evolutionary perspective; includes the evolution, development, structure and function of vertebrate systems. Lecture, 3 hours/week; Laboratory, 3 hours/week. Prerequisites: BIOL 120, BIOL 121, BIOL 122, BIOL 123L, BIOL 124L.

BIOL 341L. Comparative Anatomy Lab. (0).

BIOL 342. Developmental Biology. (4).
This advanced course affords students the opportunity to study the experimental basis underlying current understanding of animal development. Students read and present their analyses of seminal research papers in Developmental Biology, including classic examples as well as recent breakthrough publications. The key tools used to study the mechanisms by which genes construct multicellular organisms from fertilized eggs are a major focus of the course. This team-taught course is not a comprehensive survey of animal development. Rather, the focus is on the empirical approaches used to generate developmental concepts. Background lectures by your professors will be followed by student presentations and discussions. Extensive class participation by all students in the class is expected. NOTE: This class does not have a lab component, however, it still fulfills the requirement of a Functional Biology category class. Prerequisites: BIOL 121, BIOL 122. Recommended: BIOL 120, BIOL 123L, BIOL 124L, BIOL 331.

BIOL 343. Invertebrate Zoology. (4).
Studies the morphology, physiology, taxonomy and ecology of most invertebrate phyla. Field trips and laboratory observation of living animals are emphasized. Lecture, 3 hours/week; Laboratory, 3 hours/week. Prerequisites: BIOL 120, BIOL 123L.

BIOL 343L. Invertebrate Zoology Lab. (0).

BIOL 345. Marine Biology. (4).
The study of marine life of the world, with special emphasis on tidepool and shallow water life of the West Coast. Includes identification, distribution, adaptations of marine forms and their interrelationship to each other. Lecture, 3 hours/week; Laboratory, 3 hours/week. Prerequisite: BIOL 120, BIOL 123L.

BIOL 345L. Marine Biology Lab. (0).

BIOL 350. Introduction to Neuroscience. (4).
Neuroscience is an interdisciplinary science that examines the fundamental principles that govern the action of neurons and nervous systems. The course covers the structure and function of the nervous system with an emphasis on the mammalian nervous system. There are four main topic areas: the cellular organization of the nervous system; neuronal signaling (the ionic mechanisms underlying electrical activity in the nerve cells and the physiology and biochemistry of synaptic transmission); transduction and coding of sensory information; the generation and coordination of motor output and behavior. Higher order functions such as memory, language, and behavior will be covered. Prerequsites: BIOL 121.

BIOL 350L. Neuroscience Lab. (0).

BIOL 352. Oceanography. (4).
An introduction to the multidisciplinary nature of oceanography, including the origin and geography of the ocean basins, physical and chemical properties of sea water, the shaping of coastlines, oceanic and atmospheric circulation patterns and ecological relationships of marine organisms and the ocean environment. Lecture, 3 hours/week; Laboratory, 2 1/2 hours/week. Prerequisite: BIOL 120, BIOL 123L.

BIOL 352L. Oceanography Lab. (0).

BIOL 361. Microbiology. (4).
Studies the morphology, physiology, taxonomy and ecology of micro-organisms and their role in infection and disease. Lecture,3 hours/week; Laboratory, 3 hours/week. Prerequisite: BIOL 121, BIOL 122, BIOL 124L or equivalent.

BIOL 361L. Microbiology Lab. (0).

BIOL 375. Cell Biology. (4).
The cellular nature of life is explored by studying prokaryotic and eukaryotic cells and their component parts at the structural and functional levels. Lecture, 3 hours/week; Laboratory, 3 hours/week. Prerequisites: BIOL 121, BIOL 122, BIOL 124L; CHEM 151, CHEM 152. Recommended: CHEM 331.

BIOL 375L. Cell Biology Lab. (0).

BIOL 399. Junior Honors. (2).
This class consists of mentored literature research, in which students work closely with a faculty member to develop an approach to address a particular question in biology. Each student will produce several drafts of a literature review/research proposal, which frames the questions being addressed by the proposed research and provides a strategy for an experimental approach to address these questions. The research proposal will serve as the basis for subsequent Senior Honors courses (BIOL 498 and BIOL 499). Prerequisites: Permission of instructor.

BIOL 400. Cancer Biology. (4).
This course will cover basic concepts of Cancer Biology on a cellular and molecular level. Topics such as mutation, transformation, and the two-hit hypothesis will be integrated throughout the course, as well as the 10 hallmarks of cancer. Advances in modern molecular biology are consistently shaping our understanding of cancer cells and, as such, students will be required to read and analyze recent publications in the field. We will also be studying principles of cancer biology in the laboratory. Students will learn how to culture normal and transformed cell lines and recognize the differences between them. We will also be utilizing techniques in molecular biology to sequence putative cancer genes from cancer cells and identify mutations. It is expected that this is the first course in cancer or cell biology that students will have taken, however, a good understanding of cellular and molecular biology is a prerequisite.

BIOL 400L. Cancer Biology Lab. (0).

BIOL 417. Animal Nutrition. (3).
The study of animal nutrition integrates diverse areas of biology such as physiology, chemistry, and veterinary medicine. It also encompasses the intersection of these subjects with immediately relevant topics such as food safety and animal welfare. This course offers a foundation in nutrition science, and explores how it relates to the health of animal species in a variety of contexts (companion, livestock, exotic species). Prerequisite: Biol-121.

BIOL 425. Biochemistry. (4).
The structure and function of proteins is covered, along with the structure, function, and metabolism of carbohydrates, lipids, and amino acids. Regulation of proteins and metabolism is emphasized. Lecture, 3 hours; Laboratory, 3 hours/week. Prerequisites: CHEM 331 and CHEM 332. Recommended: BIOL 122 and BIOL 124L. (cross-listed with CHEM 425).

BIOL 425L. Biochemistry Lab. (0).
Prerequisite: concurrent enrollment in BIOL 425 / CHEM 425. (cross-listed with CHEM 425L).

BIOL 426. Molecular Biology. (4).
The biosynthesis of DNA, RNA, and protein is studied, with emphasis on the structure and regulation of genes. Chromatin structure, recombination, mutagenesis, and genomics are als covered. Lecture, 3 hours/week; Laboratory, 3 hours/week. Prerequisites: BIOL 122 and BIOL 124L or BIOL 425 / CHEM 425. Recommended: CHEM 331.

BIOL 426L. Molecular Biology Lab. (0).

BIOL 427. Genomics. (2).
This course introduces students to genomics through participation in research projects, including sequence improvement of a genome and the annotation of genes in a genome. Various computer analyses will be used for these projects. Lab, 4 hours/week. Prerequisites: BIOL 122 and BIOL 124L or equivalent.

BIOL 428. Virology. (4).
The study of prokaryotic and eukaryotic viruses. The structure and function of viruses, including their genomes, replication, and assembly are explored. Also covered are transmission of viruses, virus-host interactions, vaccines and antiviral drugs. Lecture, 3 hours/week; Laboratory, 3 hours/week. Prerequisite: BIOL 122 and BIOL 124L.

BIOL 428L. Virology Lab. (0).

BIOL 434. Medical Microbiology. (2).
The host-parasite relationship with emphasis on bacteria and viruses, including mechanisms involved in disease production as well as host defenses. Prerequisites: BIOL 121, BIOL 122, BIOL 124L.

BIOL 435. Emerging Infectious Diseases. (4).
This course will provide a deep dive into significant emerging infectious diseases in humans. Emerging Infectious Diseases (EID) are defined by the CDC as new infections, known infections spreading to new geographic areas or populations, previously unrecognized infections, and/or old infections reemerging as a result of antimicrobial resistance. Through lecture, discussion, and in-class activities?, we will focus on factors that contribute to the rise or emergence of novel (new) infectious diseases, mechanisms of disease transmission, general and disease-specific molecular mechanisms of host immune response, diagnostic techniques, treatment plans and the epidemiology of disease control and prevention for disease.

BIOL 437. Herpetology. (4).
The lecture will emphasize the evolution, systematics, distribution, natural history, ecology, and behavior of amphibians and reptiles. In laboratory, identification, adaptations, morphology, behavior, natural history, and life history will be emphasized. The first half of the laboratory portion of the course will be spent exclusively on taxon and species identification with an emphasis on the herpetofauna of southern California. The second half of laboratory will be used to review identification and also to dicuss current research in herpetology. This course is predominantly a whole-organism zoology course. Lecture, 3 hours/week; Lab, 3 hours/week. Prerequisites: BIOL 120, BIOL 311. Recommended: BIOL 333.

BIOL 437L. Herpetology Lab. (0).

BIOL 438. Immunology. (4).
This course will cover the basic concepts of immunology on a cellular and molecular level. Concepts such as innate and acquired immune responses, humoral and cell-mediated responses will be integrated throughout the course. Advances in modern molecular immunology are consistently shaping our understanding of the immune system and, as such, students will be required to read and analyze recent publications in the field. We will also be studying principles of immunology in the laboratory. Students will discover how blood typing, white blood cell counts, pregnancy tests, allergy tests and immunity tests are all performed using concepts of immunology. It is expected that this is the first course in immunology that students will have taken, however, a good understanding of cellular and molecular biology is a prerequisite. Lecture, 3 hours/week; Lab, 3 hours/week. Prerequisites: BIOL 121, BIOL 124L and at least one course of the Cellular and Molecular Biology category.

BIOL 438L. Immunology Lab. (0).

BIOL 440. Primate Ecology. (4).
This is an upper-level course that explores concepts related to the behavior and ecology of primates. Topics covered include primate evolution, primate social systems, foraging strategies, primate life history, the role of primates in tropical communities and other topics such as infanticide, aggression, and primate sex and politics. Students also will be introduced to behavioral data collection techniques, using primates in captivity. Pre-requisites: BIOL 120, Biol-123L. Recommended: BIOL 311.

BIOL 440L. Primate Ecology Lab. (0).

BIOL 450. Animal Behavior. (4).
Why do animals behave the way they do? This course explores this question from a variety of angles, including mechanisms, development and evolution. Topics include foraging behavior, predator avoidance, learning and social behavior. In the laboratory portion of the course (which includes both lab and field components), we will emphasize how to address animal behavior questions by practicing skills such as study design and quantitative behavioral sampling methods.

BIOL 450L. Animal Behavior Lab. (0).

BIOL 461. Vertebrate Physiology. (4).
A study of fundamental physiological processes of vertebrate tissues organs and systems. Lecture, 3 hours/week; Laboratory, 3 hours/week. Prerequisites: BIOL 121, BIOL 123L or BIOL-124L, and CHEM 151.

BIOL 461L. Vertebrate Physiology Lab. (0).

BIOL 463. Scientific Literature. (3).
An introduction to scientific literature. In this three-unit seminar course, students read scientific papers and analyze the works of other scientists. Prerequisites: BIOL 120, BIOL 121, BIOL 122, BIOL 123L, BIOL 124L, senior standing. This is a writing intensive course and satisfied the writing intensive requirement.

BIOL 482. Selected Topics. (2-4).

BIOL 482C. ST: Select Topic (core). (1-4).
Select Topic approved to satisfy core.

BIOL 482L. Selected Topics Lab. (0).

BIOL 490. Independent Study. (1-4).

BIOL 492. Internship. (1-4).

BIOL 496. Directed Research. (1-3).

BIOL 498. Senior Honors I - Capstone. (3).
The class will consist of continuing faculty-mentored research through experimental or observational studies. Students are required to keep an accurate account of their experiments/studies and to meet with their research mentors on a regular basis. A grade will be determined by the student's research mentor, based on effort and quality of research. Prerequisite: BIOL 399.

BIOL 499. Senior Honors II - Capstone. (3).
This class consists of continuing faculty-mentored research through experimental or observational studies. Students are required to keep an accurate account of their experimentals/studies and to meet with their research mentors on a regular basis. A thesis, written in proper scientific format, is required. The thesis and a public presentation of the Honors research will be graded by the research mentor and one additional faculty member. Prerequisite: BIOL 399, BIOL 498.

Chemistry Courses

Lower Division

CHEM 111. Chemistry and the Environment. (4).
Explores the interface between chemistry and the world we live in, with particular emphasis on environmental issues such as pollution, energy depletion and global warming. The chemical principles required to understand these topics are introduced on an as-needed basis. This course is primarily intended for non-science majors and cannot be used for credit toward a chemistry degree. Lecture, 3 hours/week; Laboratory, 3 hours/week.

CHEM 111L. Chemistry and the Environment Lab. (0).

CHEM 151. General Chemistry. (4).
Covers the fundamental theories, principles and laws of chemistry, plus the properties of elements and compounds. Prerequisites: high school chemistry and a math SAT score of 540 or better or completion of MATH 110. Corequisite in Chemistry 151L.

CHEM 151L. General Chemistry Lab. (1).
Covers the laboratory techniques and apparatuses of chemistry, plus the illustrations of quantitative relationships in chemistry. Includes a systematic course in theory and techniques of inorganic qualitative analysis. Corequisite: CHEM 151.

CHEM 151S. Supplemental Inst: CHEM 151. (0).
This is the Supplemental Instruction Blackboard Platform attached to CHEM 151. As a student enrolled in this section, you are automatically enrolled in the attached Supplemental Instruction Blackboard Platform. Supplemental Instruction (SI) is an academic support program designed to improve student success in challenging foundation courses. SI is a well-researched program that has been shown to improve students' letter grades by a half to a full grade, with consistent participation. With the SI model, a SI Leader (a student who has successfully completed the course with a B+ or better in the past, and who has an overall GPA of 3.0 or higher) is embedded into the course, at0tending all course meetings. The SI Leader then facilitates the scheduling and running of group SI study sessions throughout the week. There will typically be three one hour SI Sessions or two 90 minute SI Sessions per week. The SI Blackboard Platform is hosted by your SI Leader, who will utilize it to take confidential attendance at SI Sessions, to make general announcements to the class members, and to share helpful resources and study materials for SI Sessions. Participation in the SI study sessions is completely optional and always free, and you may come to as many or as few sessions as you would like over the semester. Your course professor does not receive any information about attendance, so you can be certain that you0r participation will be kept confidential.

CHEM 152. General Chemistry II. (4).
Covers the fundamental theories, principles and laws of chemistry, plus the properties of elements and compounds. Prerequisites: CHEM 151: high school chemistry and a math SAT score of 510 or better or completion of MATH 110. Corequisite: CHEM 152L.

CHEM 152L. General Chemistry II Lab. (1).
Covers the laboratory techniques and apparatuses of chemistry, plus the illustrations of quantitative relationships in chemistry. Includes a systematic course in theory and techniques of inorganic qualitative analysis. Corequisite: CHEM 152.

CHEM 152S. Supplemental Instr: Chem 152S. (0).
This is the Supplemental Instruction Blackboard Platform attached to CHEM 152. As a student enrolled in this section, you are automatically enrolled in the attached Supplemental Instruction Blackboard Platform. Supplemental Instruction (SI) is an academic support program designed to improve student success in challenging foundation courses. SI is a well-researched program that has been shown to improve students' letter grades by a half to a full grade, with consistent participation. With the SI model, a SI Leader (a student who has successfully completed the course with a B+ or better in the past, and who has an overall GPA of 3.0 or higher) is embedded into the course, attending all course meetings. The SI Leader then facilitates the scheduling and running of group SI study sessions throughout the week. There will typically be three one hour SI Sessions or two 90 minute SI Sessions per week. The SI Blackboard Platform is hosted by your SI Leader, who will utilize it to take confidential attendance at SI Sessions, to make general announcements to the class members, and to share helpful resources and study materials for SI Sessions. Participation in the SI study sessions is completely optional and always free, and you may come to as many or as few sessions as you would like over the semester. Your course professor does not receive any information about attendance, so you can be certain that your participation will be kept confidential.

CHEM 282C. ST: Select Topic (core). (1-4).
Select Topic approved for core requirement.

Upper Division

CHEM 301. Environmental Chemistry. (4).
In this course, principles of chemistry will be applied to environmental problems including water, air and soil chemistry and toxicology. Lecture, 3 hours/week; Lab, 3 hours/week. Prerequisite: Chem 201.

CHEM 305. Quantitative Analysis. (4).
Covers the principles and techniques of gravimetric and volumetric analysis. Lecture, 3 hours/week; Laboratory, 3 hours/week.

CHEM 305L. Quantitative Analysis Lab. (0).

CHEM 306. Chemical Instrumentation. (4).
Covers the theories and application of instrumentation in chemistry. Lecture, 2 hours/week; Laboratory, 6 hours/week. Prerequisite: CHEM 305.

CHEM 306L. Chemical Instrumentation Lab. (0).

CHEM 331. Organic Chemistry. (4).
Covers the structure, nomenclature, reactions and synthesis of organic compounds, plus the theory and mechanism of organic reactions. Lecture, 4 hours/week.

CHEM 331S. Supplemental Inst: Chem 331. (0).
This is the Supplemental Instruction Blackboard Platform attached to CHEM 331. As a student enrolled in this section, you are automatically enrolled in the attached Supplemental Instruction Blackboard Platform. Supplemental Instruction (SI) is an academic support program designed to improve student success in challenging foundation courses. SI is a well-researched program that has been shown to improve students' letter grades by a half to a full grade, with consistent participation. With the SI model, a SI Leader (a student who has successfully completed the course with a B+ or better in the past, and who has an overall GPA of 3.0 or higher) is embedded into the course, attending all course meetings. The SI Leader then facilitates the scheduling and running of group SI study sessions throughout the week. There will typically be three one hour SI Sessions or two 90 minute SI Sessions per week. The SI Blackboard Platform is hosted by your SI Leader, who will utilize it to take confidential attendance at SI Sessions, to make general announcements to the class members, and to share helpful resources and study materials for SI Sessions. Participation in the SI study sessions is completely optional and always free, and you may come to as many or as few sessions as you would like over the semester. Your course professor does not receive any information about attendance, so you can be certain that your participation will be kept confidential.

CHEM 332. Organic Chemistry II. (4).
Covers the structure, nomenclature, reactions and synthesis of organic compounds, plus the theory and mechanism of organic reactions. Lecture, 4 hours/week. Prerequisite CHEM 331.

CHEM 332S. Supplemental Instr: Chem-332s. (0).
This is the Supplemental Instruction Blackboard Platform attached to CHEM 332. As a student enrolled in this section, you are automatically enrolled in the attached Supplemental Instruction Blackboard Platform. Supplemental Instruction (SI) is an academic support program designed to improve student success in challenging foundation courses. SI is a well-researched program that has been shown to improve students' letter grades by a half to a full grade, with consistent participation. With the SI model, a SI Leader (a student who has successfully completed the course with a B+ or better in the past, and who has an overall GPA of 3.0 or higher) is embedded into the course, attending all course meetings. The SI Leader then facilitates the scheduling and running of group SI study sessions throughout the week. There will typically be three one hour SI Sessions or two 90 minute SI Sessions per week. The SI Blackboard Platform is hosted by your SI Leader, who will utilize it to take confidential attendance at SI Sessions, to make general announcements to the class members, and to share helpful resources and study materials for SI Sessions. Participation in the SI study sessions is completely optional and always free, and you may come to as many or as few sessions as you would like over the semester. Your course professor does not receive any information about attendance, so you can be certain that your participation will be kept confidential.

CHEM 341. Organic Chemistry Lab. (1).
Laboratory work in isolation, characterization and synthesis of organic compounds. Laboratory, 3 hours/week. Corequisite: CHEM 331.

CHEM 342. Organic Chemistry II Lab. (1).
Laboratory work in isolation, characterization and synthesis of organic compounds. Laboratory, 3 hours/week. Corequisite: CHEM 332.

CHEM 405. Physical Chemistry. (4).
The study of kinetic theory, structure of condensed phases, thermodynamics, equilibria, electrochemistry, quantum chemistry and chemical kinetics. Lecture, 3 hours/week; Laboratory, 3 hours/week. Prerequisites: one year each of calculus and physics or consent of instructor.

CHEM 405L. Physical Chemistry Lab. (0).

CHEM 406. Physical Chemistry. (4).
The study of kinetic theory, structure of condensed phases, thermodynamics, equilibria, electrochemistry, quantum chemistry and chemical kinetics. Lecture, 3 hours/week; Laboratory, 3 hours/week. Prerequisites: one year each of calculus and physics or consent of instructor.

CHEM 406L. Physical Chemistry Lab. (0).

CHEM 411. Advanced Inorganic Chemistry. (3).
The advanced treatment of special topics in inorganic chemistry, including atomic structure, classification of elements and inorganic reactions in aqueous and non-aqueous solutions. Lecture, 3 hours/week. Prerequisite: consent of instructor. (on demand).

CHEM 412. Advanced Organic Chemistry. (3).
Further study in organic chemistry, emphasizing synthesis, reaction mechanisms and stereoisomerism. Lecture, 3 hours/week. Prerequisite: CHEM 332 or consent of instructor. (on demand).

CHEM 425. Biochemistry. (4).
The structure and function of proteins is covered, along with the structure, function, and metabolism of carbohydrates, lipids, and amino acids. Regulation of proteins and metabolism is emphasized. Lecture, 3 hours; Laboratory, 3 hours/week. Prerequisites: CHEM 331 and CHEM 332. Recommended: BIOL 122 and BIOL 124L. (cross-listed with BIOL 425).

CHEM 425L. Biochemistry Lab. (0).
Prerequisite: Concurrent enrollment in BIOL 425 / CHEM 425. (cross-listed with BIOL 425L).

CHEM 482. Selected Topics. (1-4).

CHEM 482C. ST: Select Topic (CORE). (1-4).
Select Topic approved for core.

CHEM 485. Capstone Seminar. (2).
Introduces students to the skills and practices required of professional scientists. Students will gain experience with conducting literature searches, conducting and presenting scientific work, reviewing the work of others and writing research proposals. Prerequisite: senior standing.

CHEM 490. Independent Study. (1-4).

CHEM 492. Internship. (1-4).

CHEM 496. Directed Research. (3.00).

Biological Sciences

Biologists study many aspects of how ***life*** operates – from the molecular details of how cells work to how entire ecosystems function. The course offerings in the Cal Lutheran Biology Department reflect this diversity, with courses ranging from molecular biology to ecology.

The Biology Department emphasizes “doing” science rather than listening to it or reading about it. Small classes and the availability of a faculty with diverse research interests allow students to get involved in ongoing scholarship. Students are encouraged to join faculty mentors as collaborators, either in formal laboratory or field classes, or in mentored research outside of the classroom. Undergraduate research projects help make Cal Lutheran graduates more competitive in their chosen career paths.

At Cal Lutheran, biology majors typically focus on one of three general career paths: Health careers, which include physician, dentist, veterinarian or physical therapist; Research in biological fields such as genetics, physiology, marine biology, ecology, genetics or molecular biology; or Teaching.

Careers in biology are available in both government and private companies and include positions in research, teaching, administration and sales of pharmaceuticals or medical equipment. In addition, the growing areas of genetics and biotechnology provide many career opportunities. The global biotechnology company Amgen is located near the University and hires Cal Lutheran graduates each year.

Likewise, many biology majors from Cal Lutheran are accepted into medical, dental, veterinary, and graduate schools throughout the United States.

Students interested in careers in teaching may obtain teaching credentials through the Graduate School of Education.

Bachelor of Arts in Biological Science

32 credits minimum, 20 credits upper division. At least 16 biology units must be taken at Cal Lutheran.

BIOL 120	Introduction to Ecology and Populations	3
BIOL 121	Introduction to Cells and Organisms	3
BIOL 122	Intro to Metabolism, Genes & Developmt	3

BIOL 123L	Intro Biol Experimentation I	2
BIOL 124L	Intro Biol Experimentation II	2
BIOL 311	Evolution	3
Select one of the following: (Biol 399, 498, 499 - Dept Honors Option)		3-8
BIOL 399/498/499	Junior Honors and Senior Honors I - Capstone and Senior Honors II - Capstone	
or BIOL 463	Scientific Literature	
Select three courses from the following with at least one from each catagory:		12
Molecular and Cellular Biology		
BIOL 331/331L	Genetics and Genetics Lab	
BIOL 375/375L	Cell Biology and Cell Biology Lab	
BIOL 425/425L	Biochemistry and Biochemistry Lab	
BIOL 426/426L	Molecular Biology and Molecular Biology Lab	
BIOL 428/428L	Virology and Virology Lab	
BIOL 438/438L	Immunology and Immunology Lab	
Organismal Biology and Ecology		
BIOL 325/325L	Environmental Ecology and Enviromental Ecology Lab	
BIOL 333/333L	Ecology and Ecology Lab	
BIOL 345/345L	Marine Biology and Marine Biology Lab	
BIOL 352/352L	Oceanography and Oceanography Lab	
BIOL 361/361L	Microbiology and Microbiology Lab	
BIOL 437/437L	Herpetology and Herpetology Lab	
BIOL 440	Primate Ecology	
Functional Biology		
BIOL 341/341L	Comparative Anatomy and Comparative Anatomy Lab	
BIOL 342/342L	Developmental Biology and	
BIOL 343/343L	Invertebrate Zoology and Invertebrate Zoology Lab	
BIOL 350/350L	Introduction to Neuroscience and Neuroscience Lab	
BIOL 461/461L	Vertebrate Physiology and Vertebrate Physiology Lab	
Upper Division Biology Elective Credits (if needed)		2-0

Required Supporting Courses

MATH 231	Statistics for the Sciences (or a statistics course taught in a math department)	4
or MATH 251	Calculus I	
CHEM 151	General Chemistry	4
CHEM 151L	General Chemistry Lab	1
CHEM 152	General Chemistry II	4
CHEM 152L	General Chemistry II Lab	1
CHEM 331	Organic Chemistry	4
CHEM 341	Organic Chemistry Lab	1
Total Hours		**19**

Bachelor of Science in Biological Science

41credits minimum, 28 credits upper division. At Least 16 biology units must be taken at Cal Lutheran.

BIOL 120	Introduction to Ecology and Populations	3
BIOL 121	Introduction to Cells and Organisms	3
BIOL 122	Intro to Metabolism, Genes & Developmt	3
BIOL 123L	Intro Biol Experimentation I	2
BIOL 124L	Intro Biol Experimentation II	2
BIOL 311	Evolution credit value for class changing to 4 cr.	4
Select one of the following: (Biol 399, 498, 499 - Dept Honors Option)		3-8
BIOL 399/498/499	Junior Honors and Senior Honors I - Capstone and Senior Honors II - Capstone	

or BIOL 463	Scientific Literature	
Select four courses from the following with at least one from each catagory: [1]		16
Molecular and Cellular Biology		
BIOL 331/331L	Genetics and Genetics Lab	4
BIOL 375/375L	Cell Biology and Cell Biology Lab	4
BIOL 425/425L	Biochemistry and Biochemistry Lab	3
BIOL 426/426L	Molecular Biology and Molecular Biology Lab	4
BIOL 428/428L	Virology and Virology Lab	4
BIOL 438/438L	Immunology and Immunology Lab	4
Organismal Biology and Ecology		
BIOL 325/325L	Environmental Ecology and Enviromental Ecology Lab	4
BIOL 333/333L	Ecology and Ecology Lab	4
BIOL 345/345L	Marine Biology and Marine Biology Lab	4
BIOL 352/352L	Oceanography and Oceanography Lab	4
BIOL 361/361L	Microbiology and Microbiology Lab	4
BIOL 437/437L	Herpetology and Herpetology Lab	4
BIOL 440	Primate Ecology	4
Functional Biology		
BIOL 341/341L	Comparative Anatomy and Comparative Anatomy Lab	4
BIOL 342/342L	Developmental Biology and	4
BIOL 343/343L	Invertebrate Zoology and Invertebrate Zoology Lab	4
BIOL 350/350L	Introduction to Neuroscience and Neuroscience Lab	4
BIOL 461/461L	Vertebrate Physiology and Vertebrate Physiology Lab	4
Upper Division Biology Elective Credits (if needed)		0-6

[1] Students that successfully complete the Biology Department Honors Program are exempted from one of these four course requirements.

Required Supporting Courses

Select one of the following:		8-10
PHYS 201/201L/202/202L	Mechanics and Thermodynamics-Algebra and Mechanics and Thermodynamics- Lab and Electricity, Magnetism, Optics -Algebra and Electricity, Magnetism, Optics - Lab	8
PHYS 211/211L/212/212L	Mechanics and Thermodynamics-Calculus and Mechanics and Thermodynamics-Lab and Electricity, Magnetism, and Optics - and Electricity, Magnetism Optics Lab	10
Select one of the following:		
MATH 231	Statistics for the Sciences (or Statistics course taught in a Math Department)	4
or MATH 251	Calculus I	
Take Chemistry Sequence:		
CHEM 151/151L	General Chemistry and General Chemistry Lab	5
CHEM 152/152L	General Chemistry II and General Chemistry II Lab	5
CHEM 331/341	Organic Chemistry and Organic Chemistry Lab	5

Minor in Biology

22 Credits mimimum, 12 credits upper division.

Two Courses From:		6
BIOL 120	Introduction to Ecology and Populations	3
BIOL 121	Introduction to Cells and Organisms	3
BIOL 122	Intro to Metabolism, Genes & Developmt	3
BIOL 123L	Intro Biol Experimentation I	2
BIOL 124L	Intro Biol Experimentation II	2
Upper Division Biology Electives		12

The Biology Departmental Honors Program

Students with excellent academic credentials will be nominated by the Biology Department Faculty for Departmental Honors (Biol DH) in the Fall of their junior year. Students will be nominated based on Science GPA, Overall GPA, and demonstrated interest and aptitude for undergraduate research. Students who are not nominated may petition for admission to the Biol DH program by meeting with the Biology faculty in the Fall of their junior year.

Nominated/petitioned students who choose to participate in the Biol DH will enroll in a 2-unit Biology class, BIOL 399 Junior Honors , in the spring semester of their junior year. Students will then normally participate in the summer research on the proposed project between their junior and senior years. During the senior year, Biol DH students will enroll in BIOL 498 Senior Honors I - Capstone , during the Fall, and BIOL 499 Senior Honors II - Capstone in the Spring semester. Students who successfully complete these 8 units of coursework, write a thesis and present their work in a public setting will be awarded Departmental Honors in Biology.

Courses

Lower Division

BIOL 111. Principles of Biology. (4).
For non-majors or students not pursuing a preprofessional program related to biology. Includes general biological principles and a survey of the plant and animal organisms. Lecture, 3 hours/week; Laboratory, 2 1/2 hours/week.

BIOL 111L. Principles of Biology Lab. (0).

BIOL 113. Biology and Society. (4).
The course will provide a broad overview of biological topics in a style appropriate for students will little to no background in science. We will discuss relevant scientific research to enable students to make informed discussions about science related social and personal issues. We will explore topics ranging from the basic chemistry of life to the vast diversity of life on the planet to the processes through which life has evolved and how organisms have adapted to live in different environments. It is my hope and goal that by the end of this course students will leave with an increase appreciation and interest in our natural works and scientific fields of study. Lecture, 3 hours/week; Lab, 2.5 hours/week.

BIOL 115. Current Issues in Marine Biology. (3).
This course is designed for non-science majors and is an introduction to marine biology via current issues and problems facing our world's ocean environment. Topics include coastal population growth and associated pollution, fisheries, and fisheries management, plastics in the ocean, climate chance and ocean acidification, mercury in seafood, beach erosion, alien species, marine biodiversity and coral reel ecology/decline. The course includes both lecture and laboratory experiences.

BIOL 118. The Oceans. (4).
For non-majors or students pursuing a minor in environmental studies. This general survey of geological and biological processes in the ocean has a strong environmental emphasis. Laboratory exercises and field trips illustrate and complement lecture material. Lecture, 3 hours/week; Laboratory, 2 1/2 hours/week. (cross-listed with GEOL 118).

BIOL 118L. The Oceans Lab. (0).

BIOL 120. Introduction to Ecology and Populations. (3).
This course is an introduction to the history of evolutionary thought and the mechanisms of evolution, including species formation and the use of phylogenetic information. Diversity of living organisms, from prokaryotes to advanced multicellular organisms, will be discussed with an emphasis on evolutionary relationships. The principles of population and community ecology will be treated. Ecosystems and the environmental impacts of human activities will also be discussed. No prerequisites.

BIOL 120S. Supplemental Inst: BIOL 120. (0).
This is the Supplemental Instruction Blackboard Platform attached to BIO 120. As a student enrolled in this section, you are automatically enrolled in the attached Supplemental Instruction Blackboard Platform. Supplemental Instruction (SI) is an academic support program designed to improve student success in challenging foundation courses. SI is a well-researched program that has been shown to improve students' letter grades by a half to a full grade, with consistent participation. With the SI model, a SI Leader (a student who has successfully completed the course with a B+ or better in the past, and who has an overall GPA of 3.0 or higher) is embedded into the course, attending all course meetings. The SI Leader then facilitates the scheduling and running of group SI study sessions throughout the week. There will typically be three one hour SI Sessions or two 90 minute SI Sessions per week. The SI Blackboard Platform is hosted by your SI Leader, who will utilize it to take confidential attendance at SI Sessions, to make general announcements to the class members, and to share helpful resources and study materials for SI Sessions. Participation in the SI study sessions is completely optional and always free, and you may come to as many or as few sessions as you would like over the semester. Your course professor does not receive any information about attendance, so you can be certain that your participation will be kept confidential.

BIOL 121. Introduction to Cells and Organisms. (3).
This course introduces important areas of cell biology such as cell organization of both prokaryotic and eukaryotic cells, cellular membranes, and signaling mechanisms. Included will be discussions of bacteria, Archaea, virus, fungi, and protists. Further studies will involve a broad, comparative survey of animal physiology, including animal motility, respiratory and circulatory physiology, principles of immunology, nutrition, neurobiology, endocrinology, reproduction and development. No prerequisites. Recommended: BIOL 120.

BIOL 121S. Supplemental Instr: Biol 121S. (0).
This is the Supplemental Instruction Blackboard Platform attached to BIOL 121. As a student enrolled in this section, you are automatically enrolled in the attached Supplemental Instruction Blackboard Platform. Supplemental Instruction (SI) is an academic support program designed to improve student success in challenging foundation courses. SI is a well-researched program that has been shown to improve students' letter grades by a half to a full grade, with consistent participation. With the SI model, a SI Leader (a student who has successfully completed the course with a B+ or better in the past, and who has an overall GPA of 3.0 or higher) is embedded into the course, attending all course meetings. The SI Leader then facilitates the scheduling and running of group SI study sessions throughout the week. There will typically be three one hour SI Sessions or two 90 minute SI Sessions per week. The SI Blackboard Platform is hosted by your SI Leader, who will utilize it to take confidential attendance at SI Sessions, to make general announcements to the class members, and to share helpful resources and study materials for SI Sessions. Participation in the SI study sessions is completely optional and always free, and you may come to as many or as few sessions as you would like over the semester. Your course professor does not receive any information about attendance, so you can be certain that your participation will be kept confidential.

BIOL 122. Intro to Metabolism, Genes & Developmt. (3).
This course introduces the structure and function of biomolecules, energy flow in a cellular context, mechanisms of heredity, the expression of genetic information and the means by which genes encode developmental programs. It will be seen that genetics and development are part of a continuous process and that the genetic mechanisms and developmentalpatterns of living organisms reveal a fundamental kinship of life on earth. Genetics as a tool for the study of biological problems will be introduced, as will some current topics in genomic research and biotechnology. Students willing to explore these topics in greater detail are referred to upper division courses in Genetics, Macromolecular Structure, Developmental Biology, Cell Biology and Molecular Biology. No prerequisites. Recommended: BIOL 120, BIOL 121.

BIOL 123L. Intro Biol Experimentation I. (2).
This course introduces students to the processes of investigative biology and communication. It is not designed to accompany any particular core lecture course. The course is designed to develop the skills students need to progress as young scientists: forming and testing hypotheses, scientific observation, interpreting results, experimentation, analysis and communication of scientific discovery (both oral and written). Laboratories cover some topics presented in some of the core lecture courses (BIOL 120, BIOL 121 and BIOL 122) and introduce a variety of techniques including field sampling, statistical analysis, classification of organisms and physiological measurement. The course emphasizes experimental design, data collection, statistical analysis,integration of results with information reported in the scientific literature and the effective communication of conclusions. Evaluation is based on short lab assignments and scientific papers. There are no prerequisites. (Offered Fall semester).

BIOL 124L. Intro Biol Experimentation II. (2).
This course exposes students to the processes of investigative biology and communication. This laboratory course is not designed to accompany any particular core lecture course, and will introduce a variety of subjects including including virology, gene expression, gene sequence analysis, gene manipulation and bioinformatics. The course may emphasize experimental design, data collection, statistical analysis, the integration of results with information reported in the literature and the effective communication of conclusions. In line with the philosophy of our inquiry-based curriculum, Biology 124 culminates in an independent project module, where students design and conduct their own experiments, analyze data (statistically, where appropriate) and present their results in both written and oral communications. Evaluation is based on short lab assignments and scientific papers; students will plan an oral presentation of their independent project. There are no prerequisites.(Offered Spring semester).

BIOL 217. Biology of Sex and Gender. (3).
This course provides an introduction to the biological dimensions of sex and gender from physiological, ecological and evolutionary perspectives. Although we will focus quite a lot on humans, we will be covering other species as well, particularly in s comparative prespective.

BIOL 223. Human Anatomy. (4).
Human Anatomy is the study of the structure of the human body, from the cellular level to the organismal level with an emphasis on organ systems. While the focus of the course is structure, function will be covered in order to reinforce the interrelationship of structure and function. Microscopic and gross anatomy will be studied in the laboratory. Specimens studied in lab include microscopic slides, human bones, plastic models, clay models, and anatomical images (e.g., micrographs, radiographic images, photos, medical illustrations). Mammalian specimens and isolated mammalian organs will be used for dissection. Lecture, 3 hrs/week; Lab, 2.5 hours/week. Prerequisites: none. Co-requisite: BIOL 223L.

BIOL 223L. Human Anatomy Lab. (0).

BIOL 223S. Supplemental Inst: BIOL 223. (0).
This is the Supplemental Instruction Blackboard Platform attached to BIO 223. As a student enrolled in this section, you are automatically enrolled in the attached Supplemental Instruction Blackboard Platform. Supplemental Instruction (SI) is an academic support program designed to improve student success in challenging foundation courses. SI is a well-researched program that has been shown to improve students' letter grades by a half to a full grade, with consistent participation. With the SI model, a SI Leader (a student who has successfully completed the course with a B+ or better in the past, and who has an overall GPA of 3.0 or higher) is embedded into the course, attending all course meetings. The SI Leader then facilitates the scheduling and running of group SI study sessions throughout the week. There will typically be three one hour SI Sessions or two 90 minute SI Sessions per week. The SI Blackboard Platform is hosted by your SI Leader, who will utilize it to take confidential attendance at SI Sessions, to make general announcements to the class members, and to share helpful resources and study materials for SI Sessions. Participation in the SI study sessions is completely optional and always free, and you may come to as many or as few sessions as you would like over the semester. Your course professor does not receive any information about attendance, so you can be certain that your participation will be kept confidential.

BIOL 224. Human Physiology. (4).
Human Physiology is the study of mechanisms that underlie the functioning of the human body, from the molecular level to the organismal level with an emphasis on organ systems. Physiology is a biological science that is inherently interdisciplinary since it utilizes mathematics, physics, chemistry and biology. While the focus of the course is physiology, anatomy will be covered in order to reinforce the interrelationship of structure and function. In the laboratory, students will conduct experiments related to the topics covered in the lecture. In the lab, students conduct hands-on investigational activities many of which involve recording and analyzing data from human subjects. Some laboratory exercises involves interactive computer situations. Lecture, 3hrs/week; Lab, 2.5 hours/week. Prerequisites: Human Anatomy BIOL 223 or BIOL 121. High school or college chemistry highly recommended. Co-requisite: BIOL 224L.

BIOL 224L. Human Physiology Lab. (0).

BIOL 224S. Supplemental Instr: Biol 224S. (0).
This is the Supplemental Instruction Blackboard Platform attached to BIOL 224. As a student enrolled in this section, you are automatically enrolled in the attached Supplemental Instruction Blackboard Platform. Supplemental Instruction (SI) is an academic support program designed to improve student success in challenging foundation courses. SI is a well-researched program that has been shown to improve students' letter grades by a half to a full grade, with consistent participation. With the SI model, a SI Leader (a student who has successfully completed the course with a B+ or better in the past, and who has an overall GPA of 3.0 or higher) is embedded into the course, attending all course meetings. The SI Leader then facilitates the scheduling and running of group SI study sessions throughout the week. There will typically be three one hour SI Sessions or two 90 minute SI Sessions per week. The SI Blackboard Platform is hosted by your SI Leader, who will utilize it to take confidential attendance at SI Sessions, to make general announcements to the class members, and to share helpful resources and study materials for SI Sessions. Participation in the SI study sessions is completely optional and always free, and you may come to as many or as few sessions as you would like over the semester. Your course professor does not receive any information about attendance, so you can be certain that your participation will be kept confidential.

BIOL 282C. ST: (CORE). (1-4).
Select Topic approved to satisfy core requirement.

Upper Division

BIOL 311. Evolution. (4).
Evolution is the central concept in all of biology and thus is the thread that ties together the multiple sub-disciplines of the biological sciences. This course examines evolution in historical and scientific contexts and aims to teach a deep understanding of the processes and mechanisms of evolutionary biology. Topics covered include population genetics, the theory of evolution by natural selection, concepts of fitness and adaptation, genetic and developmental bases of evolutionary change, modes of speciation, molecular evolution, principles of systematic biology, macroevolutionary trends in evolution, extinction and human evolution. Lecture, 3 hours/week. Prerequisite: BIOL 120, BIOL 121, BIOL 122.

BIOL 312. Darwin. (2).
"Darwin" is a 2-unit seminar course that explores the life and science of Charles Darwin. Students read two biographical books; (1) Charles Darwin: Voyaging and (2) Charles Darwin: the Power of Place. Each biographical sketch is a reflection of Darwin's personal life and how it influenced his scientific discoveries. In addition, the course not only focuses on Darwin but also places his works into a historical context. Students learn about the history of science and about the many scientists who were working at the same time as Charles Darwin. Students discuss matters of biological interest and are required to write summaries of their readings. Prerequisite: BIOL 120, BIOL 124L, BIOL 311.

BIOL 313. Climate Change. (2).
In this course we examine the implications of climate disruption on the world & its inhabitants. We will closely examine the effects of climate change on the oceans & forests and all live within. The role of polar, sea & land ince and its diminishing consequences and its effect on climate disruption will also be explored.

BIOL 325. Environmental Ecology. (4).
A study of ecology with emphasis on humans and the environment. Problems such as overpopulation, food production, water and air pollution, the energy crisis and toxic waste disposal are discussed; their possible solutions are considered along with the social, political and economic ramifications. Lecture, 3 hours/week; Laboratory, 2 1/2 hours/week. Prerequisite: BIOL 122, BIOL 124L or equivalent.

BIOL 325L. Enviromental Ecology Lab. (0).

BIOL 331. Genetics. (4).
This course concerns the mechanisms by which genetic information is stored, decoded and transmitted. We will focus on the experimental basis upon which our understanding of the above mechanisms rests. Methods of genetic analysis that involve interpretation of abstract data will be emphasized, although molecular and bioinformatic approaches, including structural and functional genomics, will be treated. The use of genetic analysis as an incisive tool to dissect biological processes will be a central theme of the course. Lecture, 3 hours/week; Laboratory, 3 hours/week. Prerequisites: BIOL 122.

BIOL 331L. Genetics Lab. (0).

BIOL 332. Macromolecular Structure. (2).
The elaborate interplay of a variety of macromolecules underlies the mechanisms that govern cell function. This advanced course deals with the structure-function relationships of these macromolecular machines. It is intended that students emerge from this course with a deep understanding of the principles that govern macromolecular structure and the functional consequences of these principles. This is a seminar class in which students must assume responsibility for their own learning. Students will come to class prepared to discuss the reading assignment for the week. Lectures will focus on teaching the methods that students will employ to construct a Web-based tutorial on a macromolecule, chosen with input from the professor. Prerequisites: BIOL 122.

BIOL 333. Ecology. (4).
This course teaches the foundational principles of the science of ecology. Fundamental concepts of the course include the physical and biotic environment, responses of organisms to the environment, distribution or organisms, behavioral and community ecology, natural ecosystems, and human interaction with ecosystems. Lecture, 3 hours/week; Lab, 3 hours/week. Prerequisites: BIOL 120, BIOL 123L or equivalent. Recommended: MATH 231.

BIOL 333L. Ecology Lab. (0).

BIOL 334. Contemporary Issues in Biology. (4).
The course will cover current issues relating to the biological sciences from the cell and including, our ecosystem and biosphere. We will discuss current issues and debates through print and emedia and compare and contrast these secondary, tertiary and quaternary sources of information to primary research sources. Our interest lies not only in gathering information and learning basic biological principles, but how these issues impact human health, politics, business, ecosystems and our daily life. Lecture, 4 hours/week. Perquisites: at least 5 units of lower division Biology Courses.

BIOL 341. Comparative Anatomy. (4).
The comparative study of vertebrate anatomy within an evolutionary perspective; includes the evolution, development, structure and function of vertebrate systems. Lecture, 3 hours/week; Laboratory, 3 hours/week. Prerequisites: BIOL 120, BIOL 121, BIOL 122, BIOL 123L, BIOL 124L.

BIOL 341L. Comparative Anatomy Lab. (0).

BIOL 342. Developmental Biology. (4).
This advanced course affords students the opportunity to study the experimental basis underlying current understanding of animal development. Students read and present their analyses of seminal research papers in Developmental Biology, including classic examples as well as recent breakthrough publications. The key tools used to study the mechanisms by which genes construct multicellular organisms from fertilized eggs are a major focus of the course. This team-taught course is not a comprehensive survey of animal development. Rather, the focus is on the empirical approaches used to generate developmental concepts. Background lectures by your professors will be followed by student presentations and discussions. Extensive class participation by all students in the class is expected. NOTE: This class does not have a lab component, however, it still fulfills the requirement of a Functional Biology category class. Prerequisites: BIOL 121, BIOL 122. Recommended: BIOL 120, BIOL 123L, BIOL 124L, BIOL 331.

BIOL 343. Invertebrate Zoology. (4).
Studies the morphology, physiology, taxonomy and ecology of most invertebrate phyla. Field trips and laboratory observation of living animals are emphasized. Lecture, 3 hours/week; Laboratory, 3 hours/week. Prerequisites: BIOL 120, BIOL 123L.

BIOL 343L. Invertebrate Zoology Lab. (0).

BIOL 345. Marine Biology. (4).
The study of marine life of the world, with special emphasis on tidepool and shallow water life of the West Coast. Includes identification, distribution, adaptations of marine forms and their interrelationship to each other. Lecture, 3 hours/week; Laboratory, 3 hours/week. Prerequisite: BIOL 120, BIOL 123L.

BIOL 345L. Marine Biology Lab. (0).

BIOL 350. Introduction to Neuroscience. (4).
Neuroscience is an interdisciplinary science that examines the fundamental principles that govern the action of neurons and nervous systems. The course covers the structure and function of the nervous system with an emphasis on the mammalian nervous system. There are four main topic areas: the cellular organization of the nervous system; neuronal signaling (the ionic mechanisms underlying electrical activity in the nerve cells and the physiology and biochemistry of synaptic transmission); transduction and coding of sensory information; the generation and coordination of motor output and behavior. Higher order functions such as memory, language, and behavior will be covered. Prerequsites: BIOL 121.

BIOL 350L. Neuroscience Lab. (0).

BIOL 352. Oceanography. (4).
An introduction to the multidisciplinary nature of oceanography, including the origin and geography of the ocean basins, physical and chemical properties of sea water, the shaping of coastlines, oceanic and atmospheric circulation patterns and ecological relationships of marine organisms and the ocean environment. Lecture, 3 hours/week; Laboratory, 2 1/2 hours/week. Prerequisite: BIOL 120, BIOL 123L.

BIOL 352L. Oceanography Lab. (0).

BIOL 361. Microbiology. (4).
Studies the morphology, physiology, taxonomy and ecology of micro-organisms and their role in infection and disease. Lecture,3 hours/week; Laboratory, 3 hours/week. Prerequisite: BIOL 121, BIOL 122, BIOL 124L or equivalent.

BIOL 361L. Microbiology Lab. (0).

BIOL 375. Cell Biology. (4).
The cellular nature of life is explored by studying prokaryotic and eukaryotic cells and their component parts at the structural and functional levels. Lecture, 3 hours/week; Laboratory, 3 hours/week. Prerequisites: BIOL 121, BIOL 122, BIOL 124L; CHEM 151, CHEM 152. Recommended: CHEM 331.

BIOL 375L. Cell Biology Lab. (0).

BIOL 399. Junior Honors. (2).
This class consists of mentored literature research, in which students work closely with a faculty member to develop an approach to address a particular question in biology. Each student will produce several drafts of a literature review/research proposal, which frames the questions being addressed by the proposed research and provides a strategy for an experimental approach to address these questions. The research proposal will serve as the basis for subsequent Senior Honors courses (BIOL 498 and BIOL 499). Prerequisites: Permission of instructor.

BIOL 400. Cancer Biology. (4).
This course will cover basic concepts of Cancer Biology on a cellular and molecular level. Topics such as mutation, transformation, and the two-hit hypothesis will be integrated throughout the course, as well as the 10 hallmarks of cancer. Advances in modern molecular biology are consistently shaping our understanding of cancer cells and, as such, students will be required to read and analyze recent publications in the field. We will also be studying principles of cancer biology in the laboratory. Students will learn how to culture normal and transformed cell lines and recognize the differences between them. We will also be utilizing techniques in molecular biology to sequence putative cancer genes from cancer cells and identify mutations. It is expected that this is the first course in cancer or cell biology that students will have taken, however, a good understanding of cellular and molecular biology is a prerequisite.

BIOL 400L. Cancer Biology Lab. (0).

BIOL 417. Animal Nutrition. (3).
The study of animal nutrition integrates diverse areas of biology such as physiology, chemistry, and veterinary medicine. It also encompasses the intersection of these subjects with immediately relevant topics such as food safety and animal welfare. This course offers a foundation in nutrition science, and explores how it relates to the health of animal species in a variety of contexts (companion, livestock, exotic species). Prerequisite: Biol-121.

BIOL 425. Biochemistry. (4).
The structure and function of proteins is covered, along with the structure, function, and metabolism of carbohydrates, lipids, and amino acids. Regulation of proteins and metabolism is emphasized. Lecture, 3 hours; Laboratory, 3 hours/week. Prerequisites: CHEM 331 and CHEM 332. Recommended: BIOL 122 and BIOL 124L. (cross-listed with CHEM 425).

BIOL 425L. Biochemistry Lab. (0).
Prerequisite: concurrent enrollment in BIOL 425 / CHEM 425. (cross-listed with CHEM 425L).

BIOL 426. Molecular Biology. (4).
The biosynthesis of DNA, RNA, and protein is studied, with emphasis on the structure and regulation of genes. Chromatin structure, recombination, mutagenesis, and genomics are als covered. Lecture, 3 hours/week; Laboratory, 3 hours/week. Prerequisites: BIOL 122 and BIOL 124L or BIOL 425 / CHEM 425. Recommended: CHEM 331.

BIOL 426L. Molecular Biology Lab. (0).

BIOL 427. Genomics. (2).
This course introduces students to genomics through participation in research projects, including sequence improvement of a genome and the annotation of genes in a genome. Various computer analyses will be used for these projects. Lab, 4 hours/week. Prerequisites: BIOL 122 and BIOL 124L or equivalent.

BIOL 428. Virology. (4).
The study of prokaryotic and eukaryotic viruses. The structure and function of viruses, including their genomes, replication, and assembly are explored. Also covered are transmission of viruses, virus-host interactions, vaccines and antiviral drugs. Lecture, 3 hours/week; Laboratory, 3 hours/week. Prerequisite: BIOL 122 and BIOL 124L.

BIOL 428L. Virology Lab. (0).

BIOL 434. Medical Microbiology. (2).
The host-parasite relationship with emphasis on bacteria and viruses, including mechanisms involved in disease production as well as host defenses. Prerequisites: BIOL 121, BIOL 122, BIOL 124L.

BIOL 435. Emerging Infectious Diseases. (4).
This course will provide a deep dive into significant emerging infectious diseases in humans. Emerging Infectious Diseases (EID) are defined by the CDC as new infections, known infections spreading to new geographic areas or populations, previously unrecognized infections, and/or old infections reemerging as a result of antimicrobial resistance. Through lecture, discussion, and in-class activities?, we will focus on factors that contribute to the rise or emergence of novel (new) infectious diseases, mechanisms of disease transmission, general and disease-specific molecular mechanisms of host immune response, diagnostic techniques, treatment plans and the epidemiology of disease control and prevention for disease.

BIOL 437. Herpetology. (4).
The lecture will emphasize the evolution, systematics, distribution, natural history, ecology, and behavior of amphibians and reptiles. In laboratory, identification, adaptations, morphology, behavior, natural history, and life history will be emphasized. The first half of the laboratory portion of the course will be spent exclusively on taxon and species identification with an emphasis on the herpetofauna of southern California. The second half of laboratory will be used to review identification and also to dicuss current research in herpetology. This course is predominantly a whole-organism zoology course. Lecture, 3 hours/week; Lab, 3 hours/week. Prerequisites: BIOL 120, BIOL 311. Recommended: BIOL 333.

BIOL 437L. Herpetology Lab. (0).

BIOL 438. Immunology. (4).
This course will cover the basic concepts of immunology on a cellular and molecular level. Concepts such as innate and acquired immune responses, humoral and cell-mediated responses will be integrated throughout the course. Advances in modern molecular immunology are consistently shaping our understanding of the immune system and, as such, students will be required to read and analyze recent publications in the field. We will also be studying principles of immunology in the laboratory. Students will discover how blood typing, white blood cell counts, pregnancy tests, allergy tests and immunity tests are all performed using concepts of immunology. It is expected that this is the first course in immunology that students will have taken, however, a good understanding of cellular and molecular biology is a prerequisite. Lecture, 3 hours/week; Lab, 3 hours/week. Prerequisites: BIOL 121, BIOL 124L and at least one course of the Cellular and Molecular Biology category.

BIOL 438L. Immunology Lab. (0).

BIOL 440. Primate Ecology. (4).
This is an upper-level course that explores concepts related to the behavior and ecology of primates. Topics covered include primate evolution, primate social systems, foraging strategies, primate life history, the role of primates in tropical communities and other topics such as infanticide, aggression, and primate sex and politics. Students also will be introduced to behavioral data collection techniques, using primates in captivity. Pre-requisites: BIOL 120, Biol-123L. Recommended: BIOL 311.

BIOL 440L. Primate Ecology Lab. (0).

BIOL 450. Animal Behavior. (4).
Why do animals behave the way they do? This course explores this question from a variety of angles, including mechanisms, development and evolution. Topics include foraging behavior, predator avoidance, learning and social behavior. In the laboratory portion of the course (which includes both lab and field components), we will emphasize how to address animal behavior questions by practicing skills such as study design and quantitative behavioral sampling methods.

BIOL 450L. Animal Behavior Lab. (0).

BIOL 461. Vertebrate Physiology. (4).
A study of fundamental physiological processes of vertebrate tissues organs and systems. Lecture, 3 hours/week; Laboratory, 3 hours/week. Prerequisites: BIOL 121, BIOL 123L or BIOL-124L, and CHEM 151.

BIOL 461L. Vertebrate Physiology Lab. (0).

BIOL 463. Scientific Literature. (3).
An introduction to scientific literature. In this three-unit seminar course, students read scientific papers and analyze the works of other scientists. Prerequisites: BIOL 120, BIOL 121, BIOL 122, BIOL 123L, BIOL 124L, senior standing. This is a writing intensive course and satisfied the writing intensive requirement.

BIOL 482. Selected Topics. (2-4).

BIOL 482C. ST: Select Topic (core). (1-4).
Select Topic approved to satisfy core.

BIOL 482L. Selected Topics Lab. (0).

BIOL 490. Independent Study. (1-4).

BIOL 492. Internship. (1-4).

BIOL 496. Directed Research. (1-3).

BIOL 498. Senior Honors I - Capstone. (3).
The class will consist of continuing faculty-mentored research through experimental or observational studies. Students are required to keep an accurate account of their experiments/studies and to meet with their research mentors on a regular basis. A grade will be determined by the student's research mentor, based on effort and quality of research. Prerequisite: BIOL 399.

BIOL 499. Senior Honors II - Capstone. (3).
This class consists of continuing faculty-mentored research through experimental or observational studies. Students are required to keep an accurate account of their experimentals/studies and to meet with their research mentors on a regular basis. A thesis, written in proper scientific format, is required. The thesis and a public presentation of the Honors research will be graded by the research mentor and one additional faculty member. Prerequisite: BIOL 399, BIOL 498.

Business Administration

The California Lutheran University School of Management provides a learning environment in which students can realize their full potential for professional preparation and personal growth.

One of the degree options in the School of Management is a bachelor of science in business administration that combines a solid background in the liberal arts and sciences with an in-depth study of the business-related disciplines.

All business administration students complete a core business managerial program comprised of courses in:

- Accounting
- Business Law
- Finance
- Organizational Behavior
- Computer Information Systems
- Marketing
- Strategic Management.

Students then choose an emphasis in one of the following areas:

- Business Economics
- Innovation and Entrepreneurship
- Finance
- Global Business
- Management
- Marketing
- Sports Management

Cal Lutheran encourages students to work in the business world through internships, and the university environment provides an opportunity to experience the world of national and international business. Students benefit from Cal Lutheran's research and service-oriented centers including the Steven Dorfman Center for Innovation and Entrepreneurship, Center for Economic Research & Forecasting, and Center for Economics of Social Issues.

A degree in business administration allows a graduate to enter a variety of business careers including business ownership, banking, management, marketing, international trade and consulting.

The Cal Lutheran School of Management also offers graduate courses leading to the Master of Business Administration. Eligible undergraduate students can take graduate-level courses during their senior year by participating in the "4+1" program.

Bachelor of Science in Business Administration

44 credits minimum, 32 credits upper division in Business Administration and Economics, plus 12 credits upper division from one emphasis area. A maximum of 4 credits combined total of Independent Study or Internships may count toward the 12 credit requirement for the emphasis. Students are free to strengthen their emphasis area with additional Independent Study or Internship credits beyond the 12-credit minimum.

BUS 251	Principles of Accounting	4
BUS 252	Managerial Accounting	4
BUS 367	Behavior in Organizations	4
BUS 374	,Business Law	,4
BUS 375	Principles of Marketing	4
BUS 381	Info Systems & Organization Design	4
BUS 391	Principles of Finance,	4,
ECON 311	Statistical Methods	4
Choose one of the following 4 credit courses (BUS470 by invitation only):		4
BUS 469	Strategic Management (capstone)	4
or BUS 470	Executive Roundtable Capstone	

Required Supporting Courses

ECON 203	General Economics	4
BUS 301	Communication for Managers	4
or COMM 306	Business and Professional Communication	
MATH 245	Applied Calculus (or equivalent)	4
Select one of the following:		4
PHIL 370	Business Ethics	

RLTH 350	Contemporary Christian Ethics	
Total Hours		**16**

Business Economics Emphasis

Select three of the following:		12
ECON 312	Quantitative Analysis in Business	
ECON 321	Money and Banking and Capital Markets	
ECON 406	Intermediate Macro-Economics	
ECON 411	Intermediate Micro-Economics	
ECON 414	Economics of the Environment	
ECON 416	International Economics	
ECON 460	Economic Development	
BUS 472	International Finance	
BUS 475	Investment Analysis/Portfolio Developmt	
BUS 490	Independent Study	
Special Topics (with approval) [1]		
Total Hours		**12**

[1] Appropriate Independent Study or Special Topics courses when approved by the faculty adviser and the Dean (or designated Chair) of the School of Management.

Innovation and Entrepreneurship Emphasis

Take the following two courses:		8
ENT 101	Creativity and Innovation	4
ENT 301	Starting a Startup From Ideas to Action	4
Choose one of the following		4
ENT 401	Launching a Startup	
ENT 423	Legal Aspects of Entrepreneurship	
ENT 430	Global Entrepreneurship	
BUS 376	Sales Management	
BUS 398	Raising Capital,	
ENT 482	Special Topics	

Finance Emphasis

Select three of the following:		12
BUS 392	Intermediate Finance	
BUS 393	Corporate Finance	
BUS 395	Financial Strategy	
BUS 398	Raising Capital,	
BUS 471	Real Estate Finance and Investments	
BUS 472	International Finance	
BUS 475	Investment Analysis/Portfolio Developmt	
BUS 490	Independent Study ((with approval))	
BUS 492	Internship	
Selected Topics (with approval) [1]		

[1] Appropriate Independent Study or Selected Topics courses, limited to a maximum of 2 units total, when approved by the faculty adviser and the Dean (or designated Chair) of the School of Management.

Global Business Emphasis

Take the following course:		
BUS 394	Global Business	4
Select two of the following:		8

BUS 472	International Finance
BUS 474	International Marketing
BUS 476	Global Business Behavior
BUS 485	Seminar
ECON 416	International Economics
ECON 460	Economic Development
ECON 465	Global Political Economy
ENT 430	Global Entrepreneurship
BUS 490	Independent Study
BUS 492	Internship
Selected Topics (with approval) [1]	
Study Abroad, taking specific courses whose content for the emphasis is approved as noted below [1]	

[1] Appropriate independent study, selected topics courses, or certain study abroad courses, approved by the faculty advisor and the Dean (or designated Chair) of the School of Management.

Management Emphasis

Select three of the following:		12
BUS 330	Fundaments of Sustainable Business	
BUS 347	Introduction to Sports Management	
BUS 343	Employee Benefits & Retirement Planning	
BUS 368	Human Resource Mangement	
BUS 369	Negotiation and Persuasion	
BUS 435	Fund Raising for Non-Profit Organization	
BUS 443	Event Planning and Management	
BUS 448	Organization Development	
BUS 449	Managerial Leadership: Core Competencies	
BUS 464	Project and Change Management	
BUS 476	Global Business Behavior	
BUS 490	Independent Study	
BUS 492	Internship	
Selected Topics (with approval) [1]		

[1] Appropriate Independent Study or Selected Topics courses when approved by the faculty adviser and the Dean (or designated Chair) of the School of Management.

Marketing Emphasis

Select three of the following:		12
BUS 342	Marketing Research/Consumer Behavior	
BUS 344	Copywriting/Storyboarding Broadcast Adv	
BUS 369	Negotiation and Persuasion	
BUS 376	Sales Management	
BUS 380	Principles of Advertising	
BUS 411	Sports-Related Marketing	
BUS 412	Entertainment Industry Marketing	
BUS 430	Integrated Marketing Communication	
BUS 431	Brand Development & Customer Exp	
BUS 447	Social Marketing	
BUS 466	Digital Marketing	
BUS 474	International Marketing	
ART 385	Advertising Art I	
BUS 490	Independent Study	

BUS 492	Internship	
Selected Topics (with approval) [1]		

[1] Appropriate Independent Study or Selected Topics courses when approved by the faculty adviser and the Dean (or designated Chair) of the School of Management.

Sports Management Emphasis

Required courses:		
BUS 347	Introduction to Sports Management	4
BUS/COMM 411	Sports-Related Marketing	4
Select one from the following:		4
BUS 431	Brand Development & Customer Exp	
COMM 404	Broadcast Sports Production	
PSYC 338	Sport Psychology	
SOC 413	Global Aspects of Sociology and Sport	
BUS 490	Independent Study	
BUS 492	Internship	

[1] Independent Study or Internship options, with approval of instructor, advisor and UG Program Director, not to exceed 4 credits.

Minor in Business Administration

20 credits minimum in Business Administration and Economics, 12 credits minimum upper division.

BUS 251	Principles of Accounting	4
BUS 252	Managerial Accounting	4
BUS 391	Principles of Finance,	4,
Select two of the following:		8
BUS 367	Behavior in Organizations	4
BUS 374	,Business Law	4
BUS 375	Principles of Marketing	4
BUS 381	Info Systems & Organization Design	4
ECON 311	Statistical Methods	4

Required Supporting Course

ECON 203	General Economics	4
Total Hours		**4**

Minor in Innovation and Entrepreneurship

20 credits minimum. The minor in Innovation and Entrepreneurship is aimed at students majoring in subjects other than business – providing a solid foundation in innovation, value creation, and the realization of new business ventures. The minor is deeply interdisciplinary, incorporating elements of economics, sociology, communications, finance, general business and others.

Required:		
ENT 101	Creativity and Innovation	4
ENT 301	Starting a Startup From Ideas to Action	4
Select one or both of the following:		
ENT 401	Launching a Startup	4
ENT 430	Global Entrepreneurship	4
Select one or two of the following:		
BUS 376	Sales Management	4
BUS 398	Raising Capital,	4,
ENT 420	Agile Product Development	4
ENT 421	Entepeneurial Marketing & Selling	4
ENT 423	Legal Aspects of Entrepreneurship	4

ENT 424	Growth-Stage Venture Management	4
ENT 482	Special Topics	1-4

Minor in Sports Management

20 credits minimum.

BUS 347	Introduction to Sports Management	4
16 credits from the following:		16
BUS/COMM 411	Sports-Related Marketing	4
BUS 431	Brand Development & Customer Exp	4
COMM 404	Broadcast Sports Production	4
PSYC 338	Sport Psychology	4
SOC 413	Global Aspects of Sociology and Sport	4
BUS 492	Internship	1-4

Business Courses

Lower Division

BUS 151. Introduction to Business. (4).
Students will have instruction in various business and economic topics (Marketing, Management, Finance, Personal Financial Planning, Economics, etc.) to better prepare them for making informed choices in selecting their ultimate degree and emphasis areas of study. Students will benefit from an introduction to advising and academic guidance. They will have an opportunity to meet with and be instructed by various faculty members from the school of business on a "guest professor" basis. Students in this course will participate in benchmarking exercises to contribute to outcomes assessment reports.

BUS 251. Principles of Accounting. (4).
An introduction to the basic assumptions that underlie modern accounting: the principles, procedures and methods applied in the preparation of financial statements.

BUS 252. Managerial Accounting. (4).
An examination of how accounting data is used, communicated and interpreted for internal use. Emphasis is placed on planning, control and decision making, particularly in a manufacturing setting. This course will include instruction in and application of computer spreadsheet programs. The student will be required to use word-processing and spreadsheet programs for work submitted during this course. In addition, an introduction to and use of Internet research resources are included in the course syllabus. Prerequisite: BUS 251.

BUS 253. Financial Info in Bus Organization. (4).
This course is designed for non-business majors who are not required to take Principles of Accounting or Managerial Accounting. The intent of the course is to provide students with sufficient background in accounting and finance to allow them to function more effectively in their chosen careers. To that end, the course will cover the basics of financial accounting and managerial accounting, with some additional material typically covered in finance and economics courses.

BUS 255. Environment of Business. (4).
This course provides an introduction to and an overview of topics and disciplines addressed and taught in a typical Schools of Management curriculum. The topics are important background for the non-business major. It is an introductory-level treatment of course topics required in business emphasis areas: Accounting, Finance, Marketing, Management, Economics, and others. Career Services on campus are the basis for assignments with a focus on career readiness. Spreadsheet software is taught and used for completing assignments for the course. Importantly, expectations and standards for further coursework will be communicated so students are better able to set goals for success in their academic pursuits and chosen career.

BUS 257. Practicum in Accounting. (2).
Basic principles of accounting will be presented as a review for a solid foundation in GAAP and accounting. The course will include theory, as well as the completion of hands on financial statements using Excel and other software.

BUS 260. Personal Financial Planning & Risk Mgmt. (4).
Focuses on the general principles of financial planning, including: the financial planning process, the regulatory and ethical environment, consumer protection law, personal financial statements, budgeting, debt financing, educational planning, and client communication. Also provides an in-depth introduction to risk management and insurance, including life, health, disability, long-term care, property and casualty, umbrella liability and annuities.

BUS 275. Intro to Advertising. (3).
An exploration of advertising from the management-marketing, consumer and communications creativity viewpoint. Focus is on general principles and broad perspectives with particular emphasis on strategy and how advertising fits into the total sales program.

BUS 282. Selected Topics. (1-4).

BUS 282C. ST: Select Topic (core). (1-4).
Select topic approved to satisfy core.

Upper Division

BUS 301. Communication for Managers. (4).
The study of business communications methods with emphasis on planning, organizing, preparing and presenting major reports. Significant use of computer skills will be included, as well as design and structure of communication materials for the highest levels of impact.

BUS 330. Fundaments of Sustainable Business. (4).
The course provides comprehensive introduction to the sustainability concept & its major themes such as renewable resources, clean enerby & fuel orgnizations and other stakeholders in building the organizations's business model & strategies for a sustainable future is examined. Student explore opportunities for individuals & companies.

BUS 341. Prin Estate & Income Tax Planning. (4).
Examines estate planning documents, estate tax minimization strategies, the transfer of property via probate, titling, contracts, trusts and gifting, and forms of business entity. The coverage on federal income tax planning will primarily be focused in the following three areas: tax-planning considerations, tax computations and tax-planning strategies.

BUS 342. Marketing Research/Consumer Behavior. (4).
A detailed focus on marketing research, strategy, statistical techniques and decision-theory concepts. Includes the nature of the influences affecting consumer behaviors, values, lifestyles, market segmentation, motivation and attitudes that form consumer marketing decisions. Prerequisite: junior standing.

BUS 343. Employee Benefits & Retirement Planning. (4).
This course will provide an understanding of how corporate and individual retirement planning integrates together for the benefit of the business owner, executive and employee. Topics include retirement needs analysis, social security benefits, qualified and non-qualified plans, rules governing qualified plans, individual retirement accounts, retirement income planning and employee benefits.

BUS 344. Copywriting/Storyboarding Broadcast Adv. (4).
Designed as a "hands-on" communication and business course, this course provides an overview of broadcast media and develops skills in basic advertising/public relations campaign production techniques including scripting, copywriting and storyboarding. (cross-listed with COMM 344).

BUS 347. Introduction to Sports Management. (4).
Includes (a)sport law - impact of the legal process on sport, (b)sport economics - how the price and market system, income and employment affect the sport enterprise, (c)sport marketing/promotion - effect of marketing and promotion on the economic well-being of the organization,(d)sports administration - overview of the total responsibilities of the sport administrator, including planning, organizing, staffing, directing, and controlling the sports enterprise.

BUS 350. Data Communication and Networks. (4).
Includes a discussion of distributed data processing, communication techniques, wide-area and local-area networks, integrated services digital network, open-systems interconnections, security and network management.

BUS 352A. Intermediate Accounting. (4).
Includes detailed coverage of accounting theory and practice as applied to the corporate form of business. Topics include income statement, earnings per share, income tax allocation, compound interest, revenue recognition, price-level accounting, an introduction to fund accounting and a thorough treatment of balance sheet accounts. Prerequisites: BUS 251 (for BUS 352A), BUS 352A (for BUS 352B).

BUS 352B. Intermediate Accounting II. (4).
Includes detailed coverage of accounting theory and practice as applied to the corporate form of business. Topics include income statement, earnings per share, income tax allocation, compound interest, revenue recognition, price-level accounting, an introduction to fund accounting and a thorough treatment of balance sheet accounts. Prerequisites: BUS 251 (for BUS 352A), BUS 352A (for BUS 352B).

BUS 353. Accounting Information Systems. (4).
This is an introductory course in accounting information systems. The course is designed to cover five major themes: 1) Conceptual foundations of accounting information systems 2) Control and audit of accounting information systems 3) Accounting information systems applications 4) The REA data model 5) The systems development process. Pre-requisite: BUS 252.

BUS 354. Theology and Business Ethics. (4).
This course applies ethical theory to business decisions within the context of theological reflection. With a strategic focus, the course will investigate the relationship between theological ethics and the economic concerns of managers. The course is particularly designed to help students become effective ethical agents by developing the skills to apply ethical principle to strategic business decisions. (cross-listed with REL 354).

BUS 355. Client/Server Fundamentals. (4).
Discusses modern technology in network communication and cooperative computation. Topics include client/server design concepts, software expectations, hardware requirements, service support and training issues. Prerequisite: CSC 220 or CSC 300.

BUS 361. Human Resource Management. (4).
A study of the use of the human resources within the organization. Includes recruiting, selecting and training employees, wage administration and union relations. Focus is on government regulation of employment practices, including Equal Opportunity Employment and affirmative action.

BUS 365. Organization Theory. (4).
Analysis and design of modern organizations with an emphasis on organizational technology. Perspectives include organization design, organization effectiveness and changing organization culture, and the organization and its external environment. Attention is given to emerging global realities. Integrates theoretical knowledge with practical applications.

BUS 367. Behavior in Organizations. (4).
An introduction to the methods and findings of the behavioral sciences on the persisting human problems of organizations. Attention is given to the roles of individual attributes, group dynamics and organizational structure in determining levels of performance at work. Prerequisite: junior standing.

BUS 368. Human Resource Mangement. (4).
A study of the use of the human resources within the organization. Includes recruiting, selecting and training employees, wage administration and union relations. Focus is on government regulation of employment practices, including Equal Opportunity Employment and affirmative action. Prerequisite: BUS 367.

BUS 369. Negotiation and Persuasion. (4).
This course covers theories, strategies, and ethics underlying negotiation and persuasion in contemporary organizations and societies. Students will learn the concepts and principles pertinent to real world negotiation process. It provides the students the knowledge and skills needed for effective negotiation and persuasion, psychological persuasive exchanges of the social contract, assessments of communication styles during negotiation and persuasion processes, empirical foundation of the discipline of relationship sales. Prerequisite: BUS 367 (Recommended).

BUS 370. Multimedia Technology. (4).
Introduces modern multimedia technologies. Topics include basic concepts, principles, sound images, animation, standards, hardware and software requirements, new technologies, current research and practice, and future directions.

BUS 374. Business Law. (4).
The study of law as it relates to business. Topics include contracts, agencies, commercial paper, personal property, sales, real property and insurance.

BUS 375. Principles of Marketing. (4).
The study of marketing methods and practices. Topics include policies and problems related to consumers, pricing, advertising, management information systems and distribution and management of the marketing function. Prerequisite: junior standing. (cross-listed with COMM 375).

BUS 376. Sales Management. (4).
This course concerns the sales and sales management functions as they exist in business-to-business sales settings. The course discusses current problems in sales management and the design of effective sales management processes and systems. Prerequisite: BUS 375.

BUS 380. Principles of Advertising. (4).
An exploration of advertising from an integrated marketing communications perspective. Focus is on general principles and broad perspectives with particular emphasis on strategy and the role of advertising in an integrated program. Students will examine consumer motivation, planning and development, the creative process and campaign execution and evaluation. (cross-listed with COMM 380).

BUS 381. Info Systems & Organization Design. (4).
This course investigates the nature and uses of various types of information systems in business organizations, including decision support systems, expert systems, executive and management information systems, and communication systems. Examines the relationships between information system use and business strategy and the applications of information systems in the development of competitive advantage. Surveys the major components of business information systems (hardware, networks, data and applications) and investigates the interrelationships between information, systems, organizational structure, processes and strategy.

BUS 391. Principles of Finance. (4).
Introduces students to the field of finance through an applied conceptual framework using problem sets and computer software to analyze various financial dilemmas. Topics include security valuation, risk analysis, working capital management, financial budgeting and planning, time value of money concepts, financial ratio analysis and capital budgeting. Prerequisite: BUS 252; MATH 115, 145, or 245.

BUS 392. Intermediate Finance. (4).
Students learn to appreciate the usefulness and limitations of financial statements in valuation concepts and financial analysis and are made aware of the value of the role of financial information in capital markets. Concepts are reinforced through problem sets. Prerequisite: BUS 391.

BUS 393. Corporate Finance. (4).
Provides a conceptual framework for analyzing the major types of investment and financial decisions of corporations. The course reviews modern financial theory related to capital structure, cost of capital, dividend policy, intermediate and long-term financing, corporate restructuring and capital budgeting. Employs a mix of problem sets and cases. Prerequisite: BUS 391.

BUS 394. Global Business. (4).
This course covers global trade and its effect on the world economy. Includes the problems of the multinational firm and the impact of numerous environmental factors on the conduct of business across national boundaries, including but not limited to regional, cultural, and treaty-based boundaries. Some elements of "international" terminology remain due to nation-based regulatory, currency, and other requirements.

BUS 395. Financial Strategy. (4).
Deals with corporate financial strategies primarily in the areas of valuation, capital structure, external financing, bankruptcy, mergers and acquisitions. These issues are addressed mostly in the context of case studies that illustrate how ideas studied in introductory finance courses are applied to real-world situations. Prerequisite: BUS 391.

BUS 396. Personal Financial Plan & Risk Mgmt. (4).
Focuses on the general principles of financial planning, including: the financial planning process, the regulatory and ethical environment, consumer protection law, personal financial statements, budgeting, debt financing, educational planning, and client communication. Also provides an in-depth introduction to risk management and insurance, including life, health, disability, long-term care, property and casualty, umbrella liability and annuities.

BUS 398. Raising Capital. (4).
Raising capital is an important part of many, if not all, businesses. This course covers many aspects of finance that are relevant to raising capital, using advanced modeling. Topics include cash management, forecasting, the analysis of capital needs, valuation, sources of capital: venture capital, angel capital, crowdfunding, IPO, and Initial Coin Offering, capital table, shareholder equity, and etc. Prerequisites: BUS 391 or ENT 301.

BUS 400. Graphical User Interface. (4).
An introductory course to user interface fundamentals. Topics include development methodologies, evaluation techniques, user-interface building tools, considerations in the design phase, identification of design rules and successful delivery of the design. Prerequisite: CSC 220 or CSC 300.

BUS 410. Database Management Systems. (4).
Studies the concepts and structures necessary to design and operate a database management system. Topics include data modeling, relational database design and database querying.

BUS 411. Sports-Related Marketing. (4).
An introduction to management and marketing issues in the sports industry, with a particular emphasis on major and minor league professional sports. Students will receive a broad overview of the structure of sports and its relationship to the dominant culture, the economy and the media. (cross-listed with COMM 411).

BUS 412. Entertainment Industry Marketing. (4).
Entertainment has become the dominant experience of consumers in a celebrity-driven culture. Technological innovations from the Internet/Web to social networking to mobile devices and the cloud have disrupted the entertainment industry - film, music and TV. Social media have enabled consumers become co-producers and changed the business models of the entertainment industry. How have social networks altered advertising and marketing by entertainment firms? What are the implications of a globalized market for producers and consumers of entertainment? What are the ethical and environmental sustainability implications of these changes - does consumer empowerment come at the expense of citizen empowerment? Students will examine these issues and develop skills and perspectives to evaluate marketing approaches in the entertainment industry.Cross-listed COMM-412.

BUS 418. Business in China and India. (4).
Students investigate China and India in terms of the macro forces and factors that comprise the business environment in these "big emerging markets." Students work to understand the demographic, economic, socio-cultural, political-legal, technological and natural forces that influence business in China and India. They compare and contrast how business is conducted within the two countries as well as with foreign enterprises, and they assess current and emerging opportunities for business in the region. Through readings, online research, discussions, and case analyses, students learn what appear to be critical factors for business success in China and India.

BUS 420. White-Collar Crime. (4).
This course will provide students with a critical examination of white-collar crime and deviance, its impact on society, and what might be done to address this social problem. Cross-listed with CRIM 420.

BUS 422. Non-Profit Leadership. (4).
This course will provide an introduction to principles and practices of leadership with a focus on the challenges facing management in nonprofit organizations. The elements of the course include a survey of important issues facing the nonprofit sector and best practices with a focus on personal leadership development and implementation. Topics will include governance, strategic planning, volunteer retention, organizational leadership, strategic partnerships and fundraising. Study includes incorporation of experiential service learning opportunities to enhance development of core leadership skills and models. The assessments of student learning to be used in this course are outlined below.

BUS 425. Arts Management and Museology. (4).
This is a cross-disciplinary course merging Management, Art and Museum Studies to give students an insider view of the art world. By the end of the term students will have mastered multiple business models and will have executed an art exhibition from start to finish, including all aspects of curation, marketing and writing. Junior standing required. Cross-listed with ART-425.

BUS 429. Executive Roundtable. (4).
This course is designed to provide students with an appreciation of how management and finance theory are integrated into the strategies of the modern corporation. Each week, a different company executive provides a real-world perspective on how decisions are made and strategies are implemented in the modern corporation.

BUS 430. Integrated Marketing Communication. (4).
This course explores the role of communications in marketing management, the strategic integration of promotional tools, and the application of generic IMC concepts in various social and organizational contexts-commercial, non-profit, domestic, and international. Communication trends and technologies are illuminated. The impact of marketing communications on individuals and on society as a whole is critically evaluated. Through readings, discussions, and analyzing cases, students learn how communications objectives are accomplished through carefully chosen combinations of public relations, advertising, sales promotion, personal selling, database and online marketing. Prerequisite: BUS 375 / COMM 375 Principles of Marketing.

BUS 431. Brand Development & Customer Exp. (4).
Students will study the keyconcept, contexts & processes of brand management. This course will focus on consumer brand engagement.

BUS 432. Non-Profit Leadership. (4).
This course will provide an introduction to principles and practices of leadership with a focus on the challenges facing management in nonprofit organizations. The elements of the course include a survey of important issues facing the nonprofit sector and best practices with a focus on personal leadership development and implementation. Topics include governance, strategic planning, volunteer retention, organizational leadership, strategic partnerships and fundraising. Study includes incorporation of experiential service learning opportunities to enhance development of core leadership skills and models.

BUS 435. Fund Raising for Non-Profit Organization. (4).
The primary goal of this course is to acquaint you with the vocabulary and the basic strategies and tactics of professional fundraising. While the course won't make you an expert at fundraising, it will offer you valuable perspective about how to find the money necessary to fund operations. We also want to go from the theoretical into the practical with the use of projects to allow you to test our your ideas in the real world.

BUS 439. Senior Seminar Mgmt Thought & Practice. (4).
The consideration of classic and contemporary writings on issues related to the management of the business enterprise and the role of business in the larger society. Prerequisite: senior standing.

BUS 440. Marketing Simulations. (4).
Emphasis is placed on the marketing planning function, consumer identification and buyer behavior, marketing strategies and price-value relationships.

BUS 442. Advertising Campaigns. (4).
Advances the principles learned in introductory advertising and marketing courses and includes the application of principles learned through the completion of an actual consumer-oriented marketing/advertising campaign. Includes lecture and lab. Prerequisites: BUS 375, senior standing. (cross-listed with COMM 442).

BUS 443. Event Planning and Management. (4).
The study of the theory and practice of various forms of event planning and management. The class will be using a hands-on approach and will include lessons on budget, décor, entertainment, types, and security issues. (cross-listed with COMM 443).

BUS 446. Theories and Practice of Leadership. (4).
Examines leadership from theoretical, historical and practical perspectives. Includes topics of trait, behavioral and contingency theories; the influence process; management vs. leadership, leadership and followership. Survey of leadership theory and research; characteristics of leaders, theories of leadership origins and psychological and social correlates. Interaction of personal and organizational factors in determining leadership effectiveness.

BUS 447. Social Marketing. (4).
Reflecting the needs of social entrepreneurs, NGOs and nonprofit organizations, the course explores the use of marketing to effect behavioral changes for the benefit of individuals, society and the global environment. Social marketing is viewed in various organizational and cultural contexts, both domestic and international. Trends and technologies are critically evaluated. Through reading, discussion and practical application, students learn how social marketing objectives are accomplished through carefully chosen combinations of research, planning, implementation and program evaluation. Prerequisite: BUS 375 / COMM 375.

BUS 448. Organization Development. (4).
The study of planned change in organizations including diagnosis of the organization and implementation of organization development interventions. Emphasis on teamwork in organizations and survey development. Prerequisite: senior standing.

BUS 449. Managerial Leadership: Core Competencies. (4).
Focuses on the development of the core competencies and skills needed for effective managerial leadership at all levels of the organization. Each skill component will follow a five-step developmental pedagogy: (1) Assessment, (2) Learning, (3) Analysis, (4) Practice and (5) Application. Prerequisite: senior standing.

BUS 450. Advanced Public Relations. (4).
Students strengthen their command of the processes and techniques of public relations and apply them strategically to real-world PR stations. They apply the full process of public relations management, including research and analysis, planning, implementation, and control and evaluation, while producing a strategic PR plan and professional media kit. They role-play crisis communications planning and response in an emergency PR exercise. Ethical considerations in PR management are examined; the impact of current PR practices on individuals and society are critically evaluated. Prerequisite: COMM 342.

BUS 451. Cost Accounting - Computer Application. (4).
Advanced study of the procedures used to determine costs for manufacturing operations. Includes process and differential costing, overhead allocation, profit-volume analysis, joint products and by-products and responsibility accounting. Emphasis is placed on making informed business decisions based on quantifiable data. Prerequisites: BUS 252; junior standing.

BUS 452. Tax I. (4).
A study of current federal tax laws and issues as they pertain to the individual taxpayer. Cases are used to provide practical experience in implementation of tax law interpretations; emphasis is placed on the evolution of the philosophy that drives development of the federal tax code. Prerequisite: BUS 251. (offered one semester each year).

BUS 453. Auditing. (4).
Covers the legal responsibilities, theory and procedures in the conduct of an audit and the making of an audit report. Prerequisite: BUS 352B. (offered one semester each year).

BUS 454. Advanced Accounting. (4).
Accounting for business combinations and the preparation of consolidated financial statements. Also includes accounting for partnerships, consignments, foreign currency translation, fund accounting and international accounting. Prerequisite: BUS 352B. (offered one semester each year).

BUS 455. Ethics for the Accounting Professional. (4).
This course focuses on the role accountants and the accounting profession have in both business as well as in society as a whole. Students learn the history, legal, and ethical responsibilities of the accounting profession in addition to various legislation that has impacted it over recent years. The course will review the legal, regulatory and professional responsibilities of accountants, tax preparers and auditors. The course will also cover the teachings of various ethicists, sociologists and philosophers through the review of their theorems and approaches to ethical reasoning and behavior on an individual, organizational and societal level. This course introduces students to ethical reasoning, integrity, objectivity, independence and the use of a strong moral compass in guiding them as an accounting professional. The course will utilize a textbook and case studies in addition to guest speakers who will share their professional perspectives and experiences. There will be a review of the AICAPA's Code of Professional Conduct, and professional guidelines and codes of conduct in accounting.

BUS 458. Personal Investment Planning. (4).
Students will examine the investment concepts of time value of money and risk and return, characteristics and taxation of investment vehicles and personal investing strategy. They will also learn about concepts of modern portfolio theory, including: risk-tolerance, time horizon, asset positioning, asset allocation, diversification, risk-adjusted return and portfolio rebalancing.

BUS 460. Leadership Development. (4).
Focuses on developing and identifying the contibutors to and need for individual leadership competencies. Provides an overview of specific leadership development instruments, psychological contibutors to leadership effectiveness, and introspective evaluation of current leadership application. Prerequsite: senior standing.

BUS 461. Advanced Human Resource Management. (4).
Studies advanced human resource management problems and practices and is intended for students interested in a professional career as a human resource management specialist. Topics include selection, placement, employee development and employee relations in private and public sector organizations. Prerequisite: BUS 361.

BUS 462. Tax II. (4).
A study of tax laws and issues pertaining to business entities such as partnerships, C-corporations and S-corporations. Focuses on the taxation of estates and trusts and expands the study of personal taxation introduced in Tax I. Prerequisite: BUS 452. (offered one semester each year).

BUS 464. Project and Change Management. (UG).
Project and change management is the theory and practice of providing a product, service or result that satisfies customer requirements, constraints, and expectations while accommodating changes. Successful project management involves planning and execution through tailored communications and evolving relationships. This course provides in-depth discussions and applications of project management concepts and processes. Prerequisites:.

BUS 466. Digital Marketing. (4).
Students will study concepts related to digital platforms and how they are leveraged by brands to market the strategic customer experience. The course will help students develop an understanding of the digital customer journey touch points. Students will explore how advertising and marketing technologies interact to create seamless experiences across products and services. Prerequisites: BUS-375 or COMM-375.

BUS 469. Strategic Management (capstone). (4).
Complex business cases integrating the fields of marketing, finance, law, accounting, economics and industrial management provide a realistic view of how general managers deal with conceptual business problems. Cases include analysis of strategic, interpersonal business problems. Prerequisite: senior standing and completion of BUS 374, 375, 367, 381 and 391.

BUS 470. Executive Roundtable Capstone. (4).
This course is designed to provide students with an appreciation of how management and finance theory are integrated into the strategies of the modern corporation. Each week, a different company executive provides a real-world perspective on how decisions are made and strategies are implemented in the modern corporation. The course will conclude with a comprehensive writing assignment, and will serve as a capstone option for invited students in the Business Administration degree program. Pre-requisite: BUS 374, 375, 367, 381 and 391.

BUS 471. Real Estate Finance and Investments. (4).
The course is designed to introduce students to the many different facets of real estate - e.g. consumption good, a key element of our economy, an investment, and a career opportunity. The course will introduce students to the unique characteristics of real estate and provide a framework for decisions regarding the investments in real estate. The first section of the course provides an overview of real estate and introduces the critical analytic tool of time value of money. The second section provides the basic principles underlying the valuation of real estate - both residential and commercial. The last section of the course discusses financing real estate and focuses on residential mortgage financing. Prerequisite: BUS-391.

BUS 472. International Finance. (4).
Focuses on the financial environment surrounding multinational businesses involved in international trade, investment and financing. Covers management of current assets and liabilities, including foreign financing decisions and techniques, and investigates foreign investment decisions, feasibility analysis and capital budgeting. The course uses problem sets and case studies to reinforce the concepts discussed in class. Prerequisite: BUS 391. Recommended: senior standing.

BUS 473. Marketing Management. (4).
Focuses on the effective design and management of the marketing function in a business organization and the development of effective marketing programs. Topics include strategic marketing plans organization and incentive structures for the sales force, product launch, marketing communication and integration with other essential management functions. Prerequisites: BUS 375, senior standing.

BUS 474. International Marketing. (4).
An exploration of international marketing conditions with emphasis on foreign market research; trade promotion; political, legal, economic and cultural environments; product and service adaptability; and the development of strategic marketing plans for multinational competition. Prerequisite: BUS 375.

BUS 475. Investment Analysis/Portfolio Developmt. (4).
Provides the necessary background to critically evaluate both the practical and academic literature on investments. Stocks and bonds are addressed in market equilibrium and within the context of portfolio development. The capital asset pricing model, market efficiency and the investment environment are covered. Prerequisite: BUS 391.

BUS 476. Global Business Behavior. (4).
A review of current organizational development approaches developed in the United States and elsewhere for possible global application. Cultural influences fostering or hindering the development of effective humanistic organizations are explored. Prerequisite: BUS 394 or consent of instructor.

BUS 477. Personal Financial Planning. (4).
An in-depth study of personal budgeting and long-term planning, investment opportunities, credit, financial institutions, insurance, risk preferences and goals. Prerequisite: junior standing.

BUS 481. Financial Plan Development Course. (4).
This experiential Capstone course focuses on the activities that a financial planning professional will need to accomplish in order to create viable comprehensive plans for their clients. Students will integrate the concepts learned in the pre-requisite courses by writing and presenting an integrative, comprehensive financial plan. Pre-requisites: each of the other four courses in the minor.

BUS 482. Selected Topics. (4).

BUS 482C. ST: Select Topic (core). (1-4).
Select Topic approved for core requirement.

BUS 484. Senior Seminar in Accounting - Capstone. (4).
In this rigorous course, the emphasis will be on the application of GAAP and OCBOA rules and regulations in the preparation of financial statements using a variety of software application. There will be numerous situations where students will use their analytical skills and prepare written documents used by CPAs and accountants. Prerequisite: BUS 453 & BUS 454.

BUS 485. Seminar. (2-4).

BUS 490. Independent Study. (1-4).

BUS 492. Internship. (1-4).

BUS 493. Field Studies. (2).

BUS 496. Directed Research. (1-3).

Economics Courses

Lower Division

ECON 200. Introduction to Micro-Economics. (3).
The study of principles of economics on the firm level, including resource pricing and allocation, market structures, supply and demand. (offered one semester each year).

ECON 201. Introduction to MacRo Economics. (3).
The study of principles of economics on the national level, including the role of government and business, national income, employment, and monetary and fiscal policy.

ECON 203. General Economics. (4).
Provides a basic understanding of how economic decisions are made by individual economic agents ("micro") and within the context of large ("macro") economic systems. The course is comprised of three major sections: basic economic concepts, micro-economics and macro-economics. The course includes a series of lab activities for hands-on practice and application of micro- and macro-economic principles.

ECON 206. Economic Systems and Society. (4).
Examines the approaches of capitalist, socialist and communist societies in the development of economic systems and the formulation of governmental economic policies. Emphasis is placed on the ways in which nations attempt to use economic forces to achieve such social objectives as health care, education and social stability.

ECON 282. Selected Topics. (1-4).

ECON 282C. ST: Select Topic (core). (1-4).
Select Topic approved for core requirement.

Upper Division

ECON 301. Labor Economics. (3).
The study of the theories of wages and employment, the history and economics of the labor movement and the economics of the labor market, collective bargaining and trade unionism. Prerequisite: ECON 203.

ECON 311. Statistical Methods. (4).
The basic methods in analysis of central tendency, dispersion and probability distributions. Prerequisite: MATH 115 or MATH 245 or MATH 251 or equivalent.

ECON 312. Quantitative Analysis in Business. (4).
An introduction to quantitative decision making from a managerial standpoint, plus the formulation and solution of decision models under certainty and uncertainty. Topics include model building, linear programming, probability, Bayesean decision theory and simulation. Prerequisite: ECON 311.

ECON 313. Comparative Economic Systems. (4).
A comparative study of the economic goals, theories of economic organization, institutions and development processes in individual nations and the reorganized multinational economic entities. Prerequisite: ECON 203.

ECON 321. Money and Banking and Capital Markets. (4).
The study of modern monetary theories and the principles of banking, with special emphasis on the Federal Reserve System. Prerequisite: ECON 203.

ECON 341. History of Economic Thought. (4).
A study of economic theories from Aristotle to modern times. Special attention is given to the period from Adam Smith's Wealth of Nations to Keynes' General Theory and to emerging theories of the management of the economics of non-democratic societies. Prerequisite: ECON 203.

ECON 406. Intermediate Macro-Economics. (4).
The study of Keynesian economics, concepts and theories of national income, stability and full employment, rate of interest and investment, including macro-economic models. Prerequisite: ECON 203.

ECON 411. Intermediate Micro-Economics. (4).
A study of the modern theory of price and the laws of supply and demand. Includes price and output determination and optimal resource allocation in different market situations and in centrally managed versus free-market economies. Prerequisite: ECON 203.

ECON 414. Economics of the Environment. (4).
Students investigate, in economic terms, various environmental problems in today's world to determine the costs and benefits of alternative approaches to environmental remediation. Also examines major policy alternatives for environmental protection. The course provides the opportunity for application of the principles of economics to the study of the environment from an economic perspective. It is designed for students with or without a background in economics. The course in its onset provides a review of the principles of economics and then moves forward to provide relevant discussions for application of such principles at a more advanced level to contribute towards finding solutions for some of the existing problems in managing our environmental resources efficiently.

ECON 416. International Economics. (4).
Includes theories of international trade and finance, comparative advantage, foreign exchange, capital movements and the impact of international currency speculation on economic performance. Prerequisite: ECON 203.

ECON 420. Economic Entepreneurship. (4).
A study of the entrepreneurial approach to business development that covers venture initiation and management. Consideration is given to concept development and marketing for business plan formulation. Recommended prerequisites: BUS 252, junior standing.

ECON 421. Advanced Statistics. (4).
Decision making using estimation techniques and tests of hypotheses and the use of advanced statistical techniques in solving problems of prediction. Prerequisite: ECON 312.

ECON 445. Research Methods - Capstone. (4).
Focuses on the application of scientific research methods to problems in marketing, management and business economics. Topics include research design and methods, sample size and sampling techniques, questionnaire design and data analysis and interpretation.

ECON 450. Econometrics. (4).
Econometrics is concerned with how to learn from economic data. Econometric techniques are increasingly used in business, government and academic setting to analyze markets, create forecasts based on past data, study the impact of economic policies, and test economic theories. The objective of this course is to provide the necessary tools to critically evaluate econometric models and to prepare students for empirical work in economics. The course will focus in some details on the linear regression model and the statistical theory behind it. Students will be provided with the opportunity to use actual economic data. Prerequisite: ECON 311.

ECON 460. Economic Development. (4).
A study of the theory and application of economic development to Third World countries. Consideration is given to the effect of the policies of major multinational economic institutions on developing economies. Prerequisite: ECON 203.

ECON 465. Global Political Economy. (4).
This course introduces some of the fundamental relationships between politics and economics, on both the domestic and international levels. Its purpose is to examine how these two aspects of human behavior are mutually dependent.

ECON 470. Research Methods-Capstone. (4).
Focuses on the application of scientific research methods to problems in marketing, management and business economics. Topics include research design and methods, sample size and sampling techniques, questionnaire design and data analysis and interpretation. Prerequisites: ECON-406, ECON-411, ECON-450.

ECON 482. Selected Topics. (1-4).

ECON 482C. ST: Select Topic (core). (1-4).
Select Topic approved for core requirement.

ECON 490. Independent Study. (1-4).

ECON 492. Internship. (1-4).

ECON 496. Directed Research. (1-3).

ECON 497. Honors Thesis. (4).

Entrepreneurship Courses

Lower Division

ENT 101. Creativity and Innovation. (4).
This course is for students who want to realize their potential as creative thinkers and problem solvers and to tackle challenges that have a global impact. In this course, you will learn to see what others do not see, to challenge what exists, to imagine what could be, and develop the skill sets to make your vision a reality. This course is designed to inspire and prepare you with the skills to combine innovation, creative thinking, entrepreneurship and business principles to turn ideas into business ventures, design innovative products and services in existing companies, or channel a passion for public service into practical solutions to the world's most pressing social, economic and environmental problems. By analyzing and understanding problems from a human perspective and applying the principles of entrepreneurship to bring them into existence, you will leave with a set of tools for developing truly innovative and disruptive ideas that can change the world.

Upper Division

ENT 301. Starting a Startup From Ideas to Action. (4).
This course focuses on the transition from business concept to the evaluation of the technical and market "doability" of the project. Feasibility involves reevaluating core assumptions of the original business model through customer feedback and prototype development. The course explores ways that entrepreneurs reiterate their businesses, making adjustments as new information is generated thereby insuring product-market fit. The course also looks at the assembly of critical human, financial and social capital in the venture creation process. There is an experiential component that involves interviewing potential customers, business partners and other venture helpers.

ENT 401. Launching a Startup. (4).
This is a culminating experience where students consider the steps involved in moving a business idea from feasibility to implementation. Students will either be involved in the development of a business plan for an independent venture, or will work in an internship on an entrepreneurial project.

ENT 420. Agile Product Development. (4).
Techniques for defining product features based on customer need, prioritizing, and refining into minimum viable product (MVP).

ENT 421. Entepeneurial Marketing & Selling. (4).
Techniques for marketing (prospect acquisition) and selling (persuading and negotiating).

ENT 423. Legal Aspects of Entrepreneurship. (4).
Elaboration on the aspects of the law most relevant to entrepreneurship: incorporation, intellectual property, employment law, customer and supplier contracts.

ENT 424. Growth-Stage Venture Management. (4).
Once a start-up discovers a viable business model, achieves product-fit, and acquires its first customers, attention turns to scaling the business rapidly, This course will teach how to plan, organize and control rapid business growth.

ENT 430. Global Entrepreneurship. (4).
Today's economy is increasingly borderless. This course is an exploration of the intersection of business and culture for companies ranging from startups to large enterprises seeking to grow beyond their national boundaries to develop, translate, adapt, and promote products and services to international markets. Special attention will be given to the impact of cross-cultural differences (especially those in non-Western cultures) on issues and situations in the development and management of a diverse, multi-cultural workforce and globalization teams. Prerequisite: ENT-101.

ENT 482. Special Topics. (1-4).
Studies in specific industries or activities that are of interest to our geographic area, student body, or adjunct instructor.

ENT 490/492. Independent Study. (1-4,1-4).

Chemistry

Chemistry. It's the core science: the study of the properties, composition and changes that occur in matter. When you study chemistry, you analyze issues that influence every aspect of life on Earth.

Whether you choose the bachelor of science degree (for those targeting careers in industry or planning to pursue a graduate degree) or the bachelor of arts degree (appropriate for those seeking work in medicine, dentistry or secondary school teaching), Cal Lutheran's chemistry curriculum provides the knowledge base required of the discipline.

Because of the program's strong emphasis on laboratory experience, our advanced chemistry students are taught how to design and carry out their own experiments and encouraged to work on independent research projects. They also have the opportunity to do supported research with faculty members during the summer. Many students have been accepted to summer research programs at Ph.D.-granting institutions.

The department possesses modern instruments which students use regularly in their classes and research projects. These include:

- Fourier transform infrared and nuclear magnetic resonance spectrometers
- gas (GC) and high performance liquid chromatographs (HPLC) with several types of detectors
  - mass spectrometer
  - electron capture
  - flame ionization
  - inert atmosphere glovebox and solvent purification system
- rapid-scan UV-vis spectrometer

Cal Lutheran chemistry students are encouraged to pursue internships and REU programs during the course of their studies. Recent Cal Lutheran students have interned at Ventura County Crime Lab, Amgen and Rockwell Science Center, and have attended REU programs at Colorado State, SUNY Stoneybrook, Cornell, and UCLA.

These undergraduate research opportunities translate into success for Cal Lutheran's chemistry graduates, who have been accepted into many of the nation's most respected medical, dental, and graduate programs including:

- University of California at
  - San Diego
  - Irvine
  - Santa Barbara
  - Davis
  - Berkeley
  - Los Angeles
- Yale University
- Indiana University
- University of Ohio
- University of Illinois at Urbana-Champaign
- University of Rochester
- University of Wisconsin at Madison
- The Scripps Research Institute
- Emory University

Bachelor of Arts in Chemistry

32 credits minimum, 20 credits upper division

CHEM 151	General Chemistry	4
CHEM 151L	General Chemistry Lab	1
CHEM 152	General Chemistry II	4
CHEM 152L	General Chemistry II Lab	1
CHEM 151 & CHEM 152 ARE PREREQUISITES FOR ALL UPPER DIVISION CHEMISTRY COURSES		
CHEM 305/305L	Quantitative Analysis and Quantitative Analysis Lab	4
CHEM 331	Organic Chemistry	4
CHEM 332	Organic Chemistry II	4
CHEM 341	Organic Chemistry Lab	1

CHEM 342	Organic Chemistry II Lab	1
CHEM 485	Capstone Seminar	2
Chemistry Elective Credits (at least 4 Upper Division)		6
Total Hours		**32**

Required Supporting Courses

Select one of the following:		8-10
PHYS 201/201L/202/202L	Mechanics and Thermodynamics-Algebra and Mechanics and Thermodynamics- Lab and Electricity, Magnetism, Optics -Algebra and Electricity, Magnetism, Optics - Lab	
PHYS 211/211L/212/212L	Mechanics and Thermodynamics-Calculus and Mechanics and Thermodynamics-Lab and Electricity, Magnetism, and Optics - and Electricity, Magnetism Optics Lab	
MATH 251	Calculus I	4
Total Hours		**12-14**

Recommended

MATH 252	Calculus II	4
Total Hours		**4**

Bachelor of Science in Chemistry

40 Credits minimum, 28 credits upper division

CHEM 151	General Chemistry	4
CHEM 151L	General Chemistry Lab	1
CHEM 152	General Chemistry II	4
CHEM 152L	General Chemistry II Lab	1
CHEM 305/305L	Quantitative Analysis and Quantitative Analysis Lab	4
CHEM 306/306L	Chemical Instrumentation and Chemical Instrumentation Lab	4
CHEM 331	Organic Chemistry	4
CHEM 332	Organic Chemistry II	4
CHEM 341	Organic Chemistry Lab	1
CHEM 342	Organic Chemistry II Lab	1
CHEM 405/405L	Physical Chemistry and Physical Chemistry Lab	4
CHEM 406/406L	Physical Chemistry and Physical Chemistry Lab	4
CHEM 485	Capstone Seminar	2
Chemistry Elective Credits		2
Total Hours		**40**

Required Supporting Courses

MATH 251	Calculus I	4
MATH 252	Calculus II	4
Select one of the following:		8-10
PHYS 201/201L/202/202L	Mechanics and Thermodynamics-Algebra and Mechanics and Thermodynamics- Lab and Electricity, Magnetism, Optics -Algebra and Electricity, Magnetism, Optics - Lab	
PHYS 211/211L/212/212L	Mechanics and Thermodynamics-Calculus and Mechanics and Thermodynamics-Lab and Electricity, Magnetism, and Optics - and Electricity, Magnetism Optics Lab	
Total Hours		**16-18**

Recommended

CHEM 411	Advanced Inorganic Chemistry	3
MATH 261	Calculus III	4
MATH 265	Differential Equations	4
Total Hours		**11**

Minor in Chemistry

CHEM 151	General Chemistry	4
CHEM 151L	General Chemistry Lab	1
CHEM 152	General Chemistry II	4
CHEM 152L	General Chemistry II Lab	1
CHEM 305	Quantitative Analysis	4
CHEM 305L	Quantitative Analysis Lab	0
CHEM 331	Organic Chemistry	4
CHEM 341	Organic Chemistry Lab	1
Select two upper division courses from chemistry (3 cr each) [1]		6
Total Hours		**25**

[1] [1]excluding 490, 492, and 496. Chem 425 cannot be used to fulfill the minor if it is also being used to fulfill a major requirement.

Courses

Lower Division

CHEM 111. Chemistry and the Environment. (4).
Explores the interface between chemistry and the world we live in, with particular emphasis on environmental issues such as pollution, energy depletion and global warming. The chemical principles required to understand these topics are introduced on an as-needed basis. This course is primarily intended for non-science majors and cannot be used for credit toward a chemistry degree. Lecture, 3 hours/week; Laboratory, 3 hours/week.

CHEM 111L. Chemistry and the Environment Lab. (0).

CHEM 151. General Chemistry. (4).
Covers the fundamental theories, principles and laws of chemistry, plus the properties of elements and compounds. Prerequisites: high school chemistry and a math SAT score of 540 or better or completion of MATH 110. Corequisite in Chemistry 151L.

CHEM 151L. General Chemistry Lab. (1).
Covers the laboratory techniques and apparatuses of chemistry, plus the illustrations of quantitative relationships in chemistry. Includes a systematic course in theory and techniques of inorganic qualitative analysis. Corequisite: CHEM 151.

CHEM 151S. Supplemental Inst: CHEM 151. (0).
This is the Supplemental Instruction Blackboard Platform attached to CHEM 151. As a student enrolled in this section, you are automatically enrolled in the attached Supplemental Instruction Blackboard Platform. Supplemental Instruction (SI) is an academic support program designed to improve student success in challenging foundation courses. SI is a well-researched program that has been shown to improve students' letter grades by a half to a full grade, with consistent participation. With the SI model, a SI Leader (a student who has successfully completed the course with a B+ or better in the past, and who has an overall GPA of 3.0 or higher) is embedded into the course, at0tending all course meetings. The SI Leader then facilitates the scheduling and running of group SI study sessions throughout the week. There will typically be three one hour SI Sessions or two 90 minute SI Sessions per week. The SI Blackboard Platform is hosted by your SI Leader, who will utilize it to take confidential attendance at SI Sessions, to make general announcements to the class members, and to share helpful resources and study materials for SI Sessions. Participation in the SI study sessions is completely optional and always free, and you may come to as many or as few sessions as you would like over the semester. Your course professor does not receive any information about attendance, so you can be certain that you0r participation will be kept confidential.

CHEM 152. General Chemistry II. (4).
Covers the fundamental theories, principles and laws of chemistry, plus the properties of elements and compounds. Prerequisites: CHEM 151: high school chemistry and a math SAT score of 510 or better or completion of MATH 110. Corequisite: CHEM 152L.

CHEM 152L. General Chemistry II Lab. (1).
Covers the laboratory techniques and apparatuses of chemistry, plus the illustrations of quantitative relationships in chemistry. Includes a systematic course in theory and techniques of inorganic qualitative analysis. Corequisite: CHEM 152.

CHEM 152S. Supplemental Instr: Chem 152S. (0).
This is the Supplemental Instruction Blackboard Platform attached to CHEM 152. As a student enrolled in this section, you are automatically enrolled in the attached Supplemental Instruction Blackboard Platform. Supplemental Instruction (SI) is an academic support program designed to improve student success in challenging foundation courses. SI is a well-researched program that has been shown to improve students' letter grades by a half to a full grade, with consistent participation. With the SI model, a SI Leader (a student who has successfully completed the course with a B+ or better in the past, and who has an overall GPA of 3.0 or higher) is embedded into the course, attending all course meetings. The SI Leader then facilitates the scheduling and running of group SI study sessions throughout the week. There will typically be three one hour SI Sessions or two 90 minute SI Sessions per week. The SI Blackboard Platform is hosted by your SI Leader, who will utilize it to take confidential attendance at SI Sessions, to make general announcements to the class members, and to share helpful resources and study materials for SI Sessions. Participation in the SI study sessions is completely optional and always free, and you may come to as many or as few sessions as you would like over the semester. Your course professor does not receive any information about attendance, so you can be certain that your participation will be kept confidential.

CHEM 282C. ST: Select Topic (core). (1-4).
Select Topic approved for core requirement.

Upper Division

CHEM 301. Environmental Chemistry. (4).
In this course, principles of chemistry will be applied to environmental problems including water, air and soil chemistry and toxicology. Lecture, 3 hours/week; Lab, 3 hours/week. Prerequisite: Chem 201.

CHEM 305. Quantitative Analysis. (4).
Covers the principles and techniques of gravimetric and volumetric analysis. Lecture, 3 hours/week; Laboratory, 3 hours/week.

CHEM 305L. Quantitative Analysis Lab. (0).

CHEM 306. Chemical Instrumentation. (4).
Covers the theories and application of instrumentation in chemistry. Lecture, 2 hours/week; Laboratory, 6 hours/week. Prerequisite: CHEM 305.

CHEM 306L. Chemical Instrumentation Lab. (0).

CHEM 331. Organic Chemistry. (4).
Covers the structure, nomenclature, reactions and synthesis of organic compounds, plus the theory and mechanism of organic reactions. Lecture, 4 hours/week.

CHEM 331S. Supplemental Inst: Chem 331. (0).
This is the Supplemental Instruction Blackboard Platform attached to CHEM 331. As a student enrolled in this section, you are automatically enrolled in the attached Supplemental Instruction Blackboard Platform. Supplemental Instruction (SI) is an academic support program designed to improve student success in challenging foundation courses. SI is a well-researched program that has been shown to improve students' letter grades by a half to a full grade, with consistent participation. With the SI model, a SI Leader (a student who has successfully completed the course with a B+ or better in the past, and who has an overall GPA of 3.0 or higher) is embedded into the course, attending all course meetings. The SI Leader then facilitates the scheduling and running of group SI study sessions throughout the week. There will typically be three one hour SI Sessions or two 90 minute SI Sessions per week. The SI Blackboard Platform is hosted by your SI Leader, who will utilize it to take confidential attendance at SI Sessions, to make general announcements to the class members, and to share helpful resources and study materials for SI Sessions. Participation in the SI study sessions is completely optional and always free, and you may come to as many or as few sessions as you would like over the semester. Your course professor does not receive any information about attendance, so you can be certain that your participation will be kept confidential.

CHEM 332. Organic Chemistry II. (4).
Covers the structure, nomenclature, reactions and synthesis of organic compounds, plus the theory and mechanism of organic reactions. Lecture, 4 hours/week. Prerequisite CHEM 331.

CHEM 332S. Supplemental Instr: Chem-332s. (0).
This is the Supplemental Instruction Blackboard Platform attached to CHEM 332. As a student enrolled in this section, you are automatically enrolled in the attached Supplemental Instruction Blackboard Platform. Supplemental Instruction (SI) is an academic support program designed to improve student success in challenging foundation courses. SI is a well-researched program that has been shown to improve students' letter grades by a half to a full grade, with consistent participation. With the SI model, a SI Leader (a student who has successfully completed the course with a B+ or better in the past, and who has an overall GPA of 3.0 or higher) is embedded into the course, attending all course meetings. The SI Leader then facilitates the scheduling and running of group SI study sessions throughout the week. There will typically be three one hour SI Sessions or two 90 minute SI Sessions per week. The SI Blackboard Platform is hosted by your SI Leader, who will utilize it to take confidential attendance at SI Sessions, to make general announcements to the class members, and to share helpful resources and study materials for SI Sessions. Participation in the SI study sessions is completely optional and always free, and you may come to as many or as few sessions as you would like over the semester. Your course professor does not receive any information about attendance, so you can be certain that your participation will be kept confidential.

CHEM 341. Organic Chemistry Lab. (1).
Laboratory work in isolation, characterization and synthesis of organic compounds. Laboratory, 3 hours/week. Corequisite: CHEM 331.

CHEM 342. Organic Chemistry II Lab. (1).
Laboratory work in isolation, characterization and synthesis of organic compounds. Laboratory, 3 hours/week. Corequisite: CHEM 332.

CHEM 405. Physical Chemistry. (4).
The study of kinetic theory, structure of condensed phases, thermodynamics, equilibria, electrochemistry, quantum chemistry and chemical kinetics. Lecture, 3 hours/week; Laboratory, 3 hours/week. Prerequisites: one year each of calculus and physics or consent of instructor.

CHEM 405L. Physical Chemistry Lab. (0).

CHEM 406. Physical Chemistry. (4).
The study of kinetic theory, structure of condensed phases, thermodynamics, equilibria, electrochemistry, quantum chemistry and chemical kinetics. Lecture, 3 hours/week; Laboratory, 3 hours/week. Prerequisites: one year each of calculus and physics or consent of instructor.

CHEM 406L. Physical Chemistry Lab. (0).

CHEM 411. Advanced Inorganic Chemistry. (3).
The advanced treatment of special topics in inorganic chemistry, including atomic structure, classification of elements and inorganic reactions in aqueous and non-aqueous solutions. Lecture, 3 hours/week. Prerequisite: consent of instructor. (on demand).

CHEM 412. Advanced Organic Chemistry. (3).
Further study in organic chemistry, emphasizing synthesis, reaction mechanisms and stereoisomerism. Lecture, 3 hours/week. Prerequisite: CHEM 332 or consent of instructor. (on demand).

CHEM 425. Biochemistry. (4).
The structure and function of proteins is covered, along with the structure, function, and metabolism of carbohydrates, lipids, and amino acids. Regulation of proteins and metabolism is emphasized. Lecture, 3 hours; Laboratory, 3 hours/week. Prerequisites: CHEM 331 and CHEM 332. Recommended: BIOL 122 and BIOL 124L. (cross-listed with BIOL 425).

CHEM 425L. Biochemistry Lab. (0).
Prerequisite: Concurrent enrollment in BIOL 425 / CHEM 425. (cross-listed with BIOL 425L).

CHEM 482. Selected Topics. (1-4).

CHEM 482C. ST: Select Topic (CORE). (1-4).
Select Topic approved for core.

CHEM 485. Capstone Seminar. (2).
Introduces students to the skills and practices required of professional scientists. Students will gain experience with conducting literature searches, conducting and presenting scientific work, reviewing the work of others and writing research proposals. Prerequisite: senior standing.

CHEM 490. Independent Study. (1-4).

CHEM 492. Internship. (1-4).

CHEM 496. Directed Research. (3.00).

Communication

What can you do with a communication degree? Job applicants today must have the tools to frame effective messages in a wide variety of media and platforms. To that end, not only does the Communication Department at Cal Lutheran offer a broad array of mass communication courses but requires that its graduates demonstrate proficiencies in writing, speaking and media production, requires at least one internship, and lays out a unique core curriculum that equips graduates with a background in mass media history, media writing and communication theory. The department boasts an award-winning student newspaper, The Echo, and a campuswide cable radio station and student news program.

A degree in communication with a concentration in advertising and public relations, film and television production or journalism specified on the diploma is the choice of students who wish to specialize in a field. The general communication major, on the other hand, permits students to individualize their degrees, either in order to explore subjects of personal interest or to prepare for a career objective other than the concentration areas.

In addition to regular course work, at least one cooperative education experience or senior project is required of each communication graduate. Many students choose to add a variety of media projects, internships, part-time employment, or field experience to their resumés. Cal Lutheran students have recently interned in:

- Television
  - KTLA
  - KNBC
  - CBS
  - Fox Television
  - CNN
  - KCAL
  - Bunim/Murray Productions
- Radio
  - KCLU FM
  - KZLA FM
- Newspapers
  - Ventura County Star
  - Los Angeles Times
- Sports Information Departments
  - L.A. Clippers
  - L.A. Kings
- Marketing Departments
  - The Gap
  - Access Hollywood
  - Disney

- J.D. Power
- Amgen
- Capitol Records
- Warner Brothers

Because of its internship programs, contacts in the professional world and the excellent support of the Career Services Center, the placement rate for Cal Lutheran communication majors is quite impressive. Recent graduates have taken rewarding jobs in:

- public relations
- human resources
- media market research
- education
- publishing
- radio
- television
- or have entered graduate school.

Students who desire to work as marketing communication department managers, marketing representatives, and trade negotiators for both private corporations and government agencies are directed to the marketing communication degree which appears later in this catalog. Cal Lutheran marketing communication graduates have gained the ability to research, plan, organize and direct internationally focused marketing campaigns and have acquired the interpersonal skills needed to move into upper management.

Bachelor of Arts in Communication

39 credits minimum, 24 credits upper division.

Required Courses		
COMM 101	Introduction to Mass Communication	4
COMM 231	Media Writing	..
COMM 331	Content Creation for Digital Platforms	4
COMM 350	Communication Theories-Capstone	4
COMM 351	Research Methods	4
COMM 490	Independent Study	1-4
or COMM 492	Internship	
Select one of the following:		4
COMM 306	Business and Professional Communication	4
COMM 331	Content Creation for Digital Platforms	4
COMM 342	Principles of Public Relations	4
COMM 344	Storyboarding	4
COMM 346	Copyediting, Layout and Design	4
COMM 348	Website Design and Publishing	4
COMM/BUS 375	Principles of Marketing	4
COMM/BUS 380	Principles of Advertising	4
COMM/BUS 411	Sports-Related Marketing	4
COMM 412	Entertainment Industry Marketing	4
COMM/BUS 442	Advertising Campaigns	4
COMM/BUS 443	Event Planning and Management	4
COMM/BUS 450	Public Relations Campaigns	4
Select two of the following:		8
COMM 200	Broadcasting and the Media Industry	4
COMM 304	Radio Industry	4
COMM 308	Politics in Cinema	4
COMM 404	Broadcast Sports Production	4
COMM 312	International Media	4
COMM 316	Political Communication	4
COMM 317	Sports, Media and Society	4

COMM 405	Freedom of Communication	4
COMM 406	Legal Issues & the New Media	4
COMM 407	Broadcast News Production	4
COMM 497	Departmental Honors	1-4
FILM 207	Begininning TV Production	4
FILM 208	Beginning Cinema Production	4
FILM 308	Advanced Cinema Production	4
POLS 419	Internet and Politics	4
Select two of the following:		8
COMM 301	Persuasive Communication	4
COMM 311	Intercultural Communication	4
COMM 315	Small Group Communication	4
COMM 335	Interpersonal Communication	4
COMM 336	Nonverbal Communication	4
Select one of the following:		2-4
COMM 431	Working on the Echo	2
COMM 434	iCLU	2
FILM 307	Advanced TV Production	4
Communication Elective Credits		0-1

Advertising/Public Relations Concentration

43 credits minimum, 24 credits upper division.

COMM 101	Introduction to Mass Communication	4
COMM 231	Media Writing	4
COMM 331	Content Creation for Digital Platforms	4
COMM 342	Principles of Public Relations	4
COMM 350	Communication Theories-Capstone	4
COMM 351	Research Methods	4
COMM 380	Principles of Advertising	4
COMM 431	Working on the Echo	2
COMM 442	Advertising Campaigns	4
or COMM 450	Public Relations Campaigns	
COMM 490	Independent Study	1-4
or COMM 492	Internship	
Select one of the following:		
COMM 301	Persuasive Communication	4
COMM 316	Political Communication	4
COMM 344	Storyboarding	4
COMM 346	Copyediting, Layout and Design	4
COMM 348	Website Design and Publishing	4
COMM 375	Principles of Marketing	4
COMM 411	Sports-Related Marketing	4
COMM 412	Entertainment Industry Marketing	4
COMM 443	Event Planning and Management	4
Select one of the following:		4
COMM 306	Business and Professional Communication	4
COMM 311	Intercultural Communication	4
COMM 312	International Media	4
COMM 315	Small Group Communication	4
COMM 335	Interpersonal Communication	4
COMM 336	Nonverbal Communication	4
COMM 405	Freedom of Communication	4

COMM 406	Legal Issues & the New Media	4
POLS 419	Internet and Politics	4
Communication Elective Credits		1-0

Journalism Concentration

40 credits minimum, 24 credits upper division.

COMM 101	Introduction to Mass Communication	4
COMM 231	Media Writing	4
COMM 331	Content Creation for Digital Platforms	4
COMM 346	Copyediting, Layout and Design	4
COMM 350	Communication Theories-Capstone	4
COMM 351	Research Methods	4
COMM 405	Freedom of Communication	4
or COMM 406	Legal Issues & the New Media	
COMM 431	Working on the Echo (two semesters)	2
COMM 490	Independent Study	1-4
or COMM 492	Internship	
Select one of the following:		4
COMM 404	Broadcast Sports Production	4
COMM 407	Broadcast News Production	4
COMM 431	Working on the Echo (two semesters)	2
COMM 434	iCLU	2
Select one of the following:		3-4
COMM 301	Persuasive Communication	4
COMM 304	Radio Industry	4
COMM 311	Intercultural Communication	4
COMM 312	International Media	4
COMM 335	Interpersonal Communication	4
COMM 336	Nonverbal Communication	4
COMM 342	Principles of Public Relations	4
COMM 348	Website Design and Publishing	4
COMM 435	Photojournalism	4
Communication Elective Credits		0-4

Film and Television Production Emphasis

36 credits minimum, 24 credits upper division.

COMM 101	Introduction to Mass Communication	4
COMM 231	Media Writing	4
COMM 360	Film Theories	4
COMM 490	Independent Study	1-4
or COMM 492	Internship	
Select three of the following:		10-12
COMM 304	Radio Industry	4
COMM 404	Broadcast Sports Production	4
COMM 407	Broadcast News Production	4
COMM 434	iCLU	2
FILM 207	Begininning TV Production	4
FILM 208	Beginning Cinema Production	4
FILM 308	Advanced Cinema Production	4
MULT 470	High Definition Digital Cinema I	4
or MULT 471	High Definition Digital Cinema II	

Select two of the following:		3-4
ART 385	Advertising Art I	3
COMM 344	Storyboarding	4
COMM 348	Website Design and Publishing	4
COMM 431	Working on the Echo	2
FILM 306	Screenwriting	3
Select two of the following:		8
COMM 200	Broadcasting and the Media Industry	4
COMM 308	Politics in Cinema	4
COMM 312	International Media	4
COMM 330	Film Studies	4
COMM 406	Legal Issues & the New Media	4
COMM 411	Sports-Related Marketing	4
COMM 412	Entertainment Industry Marketing	4
COMM 482	Selected Topics (must be approved)	1-4
Communication Elective Credits		0-3

Sports Communication Emphasis

37 credits minimum 24 credits upper division minimum

COMM 101	Introduction to Mass Communication	4
COMM 231	Media Writing	4
COMM 350	Communication Theories-Capstone	4
COMM 351	Research Methods	4
COMM 490	Independent Study	1-4
or COMM 492	Internship	
COMM 317	Sports, Media and Society	4
COMM 342	Principles of Public Relations	4
Select 8 Credits:		
COMM 331	Content Creation for Digital Platforms	4
COMM 348	Website Design and Publishing	4
COMM 404	Broadcast Sports Production (Audition, board test & permission of faculty advisor)	4
COMM 411	Sports-Related Marketing	4
COMM 431	Working on the Echo	2
COMM 434	iCLU	2
COMM 435	Photojournalism	4
BUS 347	Introduction to Sports Management	4
BUS 431	Brand Development & Customer Exp	4
SELECT ONE:		
COMM 104	Voice Development	4
COMM 301	Persuasive Communication	4
COMM 304	Radio Industry	4
COMM 311	Intercultural Communication	4
COMM 312	International Media	4
COMM 335	Interpersonal Communication	4
COMM 406	Legal Issues & the New Media	4
COMM 482C	ST: Select Topic (core)	1-4
PSYC 424	Course PSYC 424 Not Found	4

Minor in Communication

20 credits, 12 credits upper division.

COMM 101	Introduction to Mass Communication	4
COMM 231	Media Writing	4
COMM 350	Communication Theories-Capstone	4
Additional Communication Credits (Upper Division)		8
Total Hours		**20**

Courses

Lower Division

COMM 101. Introduction to Mass Communication. (4).
A preliminary study of communication theory with particular emphasis on mediated communication, including Internet, television, radio, film and print. Fulfills CORE 21 Speaking Intensive requirement.

COMM 103. Public Speaking. (3).
Students master the theory and practice of various forms of oral communication, including impromptu speaking, informative speaking. Fulfills the CORE 21 Speaking Intensive requirement.

COMM 104. Voice Development. (4).
This course will enable students to develop voice acting skills, which can be applied to broadcasting, instructional film, animation, commercials and documentaries. The course will also provide an introduction to the history of the voice acting field and will provide information about professional opportunities. Fulfills CORE 21 Visual and Performing Arts Participative and Speaking Intensive Requirement. (cross-listed with TA 104).

COMM 200. Broadcasting and the Media Industry. (4).
A survey of the broadcasting, cable and other broadband media including the Internet; an introduction to the socio-cultural, legal/regulatory, economic, competitive and technological environment, with emphasis on programming, advertising, audience research and other management issues in the context of digitalization of media.

COMM 221. Popular Culture. (4).
An introduction to important readings on popular culture from the perspectives of sociology and communication studies. The study of popular culture takes the forms, content, values and norms of popular culture products as data for analysis and critique. Students will focus on mass communication forms of popular culture such as movies, advertisements, television shows, magazines, music and music videos. This course will focus on the period from 1945 to the present. (cross-listed with SOC 221).

COMM 231. Media Writing. (4).
Instruction and practice in producing a variety of written content for news media; an introduction to reporting, techniques of interviewing news sources; story structure, consistent/concise editing style with clarity and speed; and writing with accuracy and fairness. Other aspects of media such as basics of writing for public relations and broadcast are also introduced. Prerequisite: Engl-111.

COMM 233. Argumentation & Advocacy. (1).
An exploration of the study and practice of parliamentary debate, emphasizing interactive critical thinking skills through case construction and defending arguments. Argumentation will be utilized to investigate social problems using formal and informal practice of the use of evidence, motivation, organization, proof, refutation, and argument. Students will develop research, critical thinking, and oral presentation skills on contemporary public policy, law, mass media, entertainment, interpersonal, and intercultural relations. Students are expected to debate or volunteer at collegiate tournaments. (cross-listed with Pols 233).

COMM 282. Sel Topics. (1-4).

COMM 282C. ST: Select Topic (core). (1-4).
Select Topic approved for core.

COMM 285. Imagining Venice. (4).
Explore the rich symbolism and significance of Venice throughout frameworks of history, culture, visual communication, and art production. A semester of study prepares you for a two-week trip to Italy with the majority of the time spent in Venice experiencing the modern life of this endangered city and creating watercolors along its picturesque canals and islands. Fulfills CORE 21 Visual & Performing Arts Participative requirement (Cross listed with ART-285).

Upper Division

COMM 301. Persuasive Communication. (4).
A study of the theories, principles and ethics of persuasive communication including an analysis of factors influencing persuasion in public address, advertising, interpersonal, social and mediated communication.

COMM 304. Radio Industry. (4).
This class covers history, production techniques, times sales, formats, commercial copy, news writing and voice-over. The goal is to prepare the student who desires employment in the radio industry.

COMM 306. Business and Professional Communication. (4).
A study of the principles involved in communicating in a professional environment. This class covers organizational communication and cultures, including team communication, conflict negotiation, leadership styles, group decision-making techniques, and business ethics. Students have several opportunities to practice oral communication principles in simulated settings. Fulfills CORE 21 Speaking Intensive requirement.

COMM 308. Politics in Cinema. (4).
Explores the political nature of cinema and the ways in which political culture, issues and themes are expressed in and through cinema. Particular emphasis is placed on American political culture and practices. Fulfills CORE 21 Social Sciences requirement. (cross-listed with POLS 308).

COMM 311. Intercultural Communication. (4).
In a multicultural, globalized world, individuals often find themselves faced with challenging values, customs, practices and material situations. Students will understand and apply dimensions of culture and principles of intercultural communication at the level of organizations, social institutions, ethnic groups, and nations. Fulfills CORE 21 Global Perspectives requirement.

COMM 312. International Media. (4).
This course explores the global importance of media systems and communication industries around the world, with particular emphasis on those of Asia, the Middle East, and South America. The course investigates a wide range of media industries and content (including entertainment, journalism, and advertising) from various historical, sociological, political, technological, legal, and economic perspectives. This course also analyzes the impact that the Internet has on domestic media production and international distribution. Fulfills CORE 21 Global Perspectives requirement.

COMM 315. Small Group Communication. (4).
A study of the types of group discussion with opportunity for student participation. Special emphasis is placed on an examination of group interaction as it relates to discussion. Fulfills CORE 21 U.S. Diversity requirement.

COMM 316. Political Communication. (4).
This course investigates the interaction between news media, audiences, and strategic political communicators in the United States. Special emphasis will be given to the role of the news media in politics; the use of campaign practices and techniques in elections; the effects of media messages on audiences; the impact of new media technologies on news and campaigns; and factors shaping news production such as journalistic routines, media economics, and the strategic management of news by politicians.

COMM 317. Sports, Media and Society. (4).
This course is designed to help students more critically view the role of sport media in global culture. The influence of/relationship between sport media and issues such as race, gender, sexuality (homophobia), nationalism, capitalism/consumerism, violence and civic life will be examined. Issues in relation to ethics and the production of sport media also will be examined.

COMM 330. Film Studies. (4).
This course provides a solid grounding in the major elements of film, including genre, narrative, acting, design, cinematography, sound, and editing. Students will become critically informed viewers able to understand and analyze film or to pursue additional studies in film history or film theory. This course does not meet the literature requirement. (cross-listed with ENGL 330). Prerequisite: ENGL 111.

COMM 331. Content Creation for Digital Platforms. (4).
In this course, students will develop a critical perspective to engage with digital technologies and to articulate the rationale of incorporating digital content into media such as public relations and journalism. The class emphasizes both acquiring production skills and understanding the theories and specificities of digital media. The class will prepare students for creating and sharing different types of interactive media content by introducing digital content creation tools. Prereq: COMM 231.

COMM 335. Interpersonal Communication. (4).
A study of the basic communication processes that occur within the context of personal relationships. The field of personal relationships is interdisciplinary, with research from areas such as communication, family studies, and social psychology contributing to knowledge. The course covers essential concepts involved in interpersonal communication processes, including developing and escalating relationships, maintaining fair and satisfying relationships, and coping with conflict and relational challenges. Fulfills CORE 21 U.S. Diversity requirement.

COMM 336. Nonverbal Communication. (4).
This course is designed to introduce students to key concepts, theories, and research findings in the field of nonverbal communication. The course covers classic components of nonverbal communication, such as kinesics (body movement), haptics (touch), proxemics (space), and physical appearance, as well as current research on the functions of nonverbal communication, such as attraction, persuasion, and deception. Course content is interdisciplinary in nature, and includes theory and research from communication, psychology, linguistics, anthropology, and sociology. Fulfills CORE 21 Social Sciences requirement.

COMM 342. Principles of Public Relations. (4).
An exploration of the evolution of public relations (PR) as a strategic communication process that builds relationships between organizations and their publics. Students will examine the history, roles, functions and purposes of PR, and analyze ethical and professional issues. Focus is on contemporary practices, including social media strategy. Both nonprofit and for-profit organizational structures are considered.

COMM 344. Storyboarding. (4).
Learn to plan out and graphically organize a visually based story by creating a series of sequential images that allow artists, directors, and/or cinematographers to visualize the shots necessary to make a TV or web advertisement, animation sequence, film, play, graphic novel or other form of visual media.

COMM 346. Copyediting, Layout and Design. (4).
The course emphasizes not only fundamental rules of grammar, punctuation and spelling but also use of AP style and macrolevel editing issues of clarity, conciseness, thoroughness as well as ethical decision-making. Students also practice layout and design for different print media products such as newspapers and media kits. Prerequisites: Comm-231.

COMM 348. Website Design and Publishing. (4).
Learn to design, create and upload web sites for personal and professional use. Skills taught include mobile-friendly web site creation using raw HTML and CSS as well as WYSIWYG software. No programming experience required, basic familiarity with computers desirable.

COMM 350. Communication Theories-Capstone. (4).
An advanced study of communication theories based on professional literature. Theories are drawn from a variety of disciplines, including psychology, sociology, linguistics and anthropology, which allow the student to study communication phenomena from a variety of competing and complementary perspectives. Students also study the scientific method and the relationship between theory and research. Course assignments include completion and presentation of a major research paper. Fulfills CORE 21 Writing Intensive and Social Sciences requirements.

COMM 351. Research Methods. (4).
This course is designed to introduce research methods used in the field of communication and in social science in general. It examines how research is planned and designed, explores both quantitative and qualitative methods, introduces students to processes of date collection and analysis, and gives them experience in conducting original research. Fulfills CORE 21 Social Science requirement.

COMM 360. Film Theories. (4).
Learn to analyze cinema through the frame of significant theoretical perspectives such as Marxist, psychoanalytic, feminist, critical race, queer, and postcolonial criticism. Course assignments include reading published film analyses and completing and presenting a major research paper. Fulfills CORE 21 Writing Intensive, and U.S. Diversity requirements.

COMM 375. Principles of Marketing. (4).
The study of marketing methods and practices. Topics include policies and problems related to consumers, pricing, advertising, management information systems and distribution and management of the marketing function. Prerequisite: junior standing. (cross-listed with BUS 375).

COMM 380. Principles of Advertising. (4).
An exploration of advertising from an integrated marketing communications perspective. Focus is on general principles and broad perspectives with particular emphasis on strategy and the role of advertising in an integrated program. Students will examine consumer motivation, planning and development, the creative process and campaign execution and evaluation. (cross-listed with BUS 380).

COMM 404. Broadcast Sports Production. (4).
The course will teach students to create live streaming sports broadcasts. Students will learn advanced editing and motion graphics techniques. Students are required to attend university sports events in the course of this class. Prerequisites: FILM 207 or FILM 208.

COMM 405. Freedom of Communication. (4).
A study of the legal and ethical principles underlying freedom of expression and the limits placed on freedom of expression in the United States. Through examining leading U.S. court decisions, students will learn the broad principles and legal reasoning underlying First Amendment jurisprudence, including the legal, ethical, philosophical and political issues entailed in the rights of free expression. (cross-listed with POLS 405).

COMM 406. Legal Issues & the New Media. (4).
A study of law, regulatory policies and ethical principles shaping media, especially the internet. The course will examine the impact of regulatory models on the development and use of communication technology. Although this course will focus on contemporary legal and ethical issues, these will be situated within the history of U.S. jurisprudence and Constitutional law.

COMM 407. Broadcast News Production. (4).
Create live news broadcasts every two weeks. Learn to write, shoot and edit news stories. In the class, you will be the producer, director and anchor for CLUTV news. Emphasis will be placed on advanced editing skills. Prerequisite: FILM 207 or FILM 208.

COMM 410. Latinx Media in the United States. (3).
This course guides students through an in-depth examination of U.S.-based Latinx and Spanish-language media by critically examining primary texts created by people who identify as members of the Latina/Latino/Latinx community, as well as media created by others about this community. The course provides a lens for understanding the highly varied needs and goals of various Spanish-language media markets around the country due to the specific experiences, perspectives, and cultural ideologies of the population each market serves. The course also introduces mediated communication from several U.S.-based markets. This class is taught in English.

COMM 411. Sports-Related Marketing. (4).
An introduction to management and marketing issues in the sports industry, with a particular emphasis on major and minor league professional sports. Students will receive a broad overview of the structure of sports and its relationship to the dominant culture, the economy and the media. (cross-listed with BUS 411).

COMM 412. Entertainment Industry Marketing. (4).
Entertainment has become the dominant experience of consumers in a celebrity-driven culture. Technological innovations, including the Internet, social networking and mobile devices, have disrupted the entertainment industry - film, music and TV. Social media have enabled consumers to become co-producers and changed the business models of the entertainment industry. Students will examine these issues and develop skills and perspectives to evaluate marketing approaches in the entertainment industry. (cross-listed as BUS 412). Pre-requisite: COMM 375.

COMM 431. Working on the Echo. (2).
Practical working experience on the University's student newspaper includes reporting, editing, photography, desktop publishing and business management. May be taken four times for credit. All majors are welcome. Prerequisite: COMM 231 or permission of the instructor.

COMM 434. iCLU. (2).
Practical working experience on the University's student-run radio station. May be taken four times for credit. All majors welcome.

COMM 435. Photojournalism. (4).
COMM 435 is an upper division digital photography class covering news, commercial and fine art photojournalism. In this class, students learn techniques required for using the camera as a reporting and illustrating tool for print and online media. Types of events include hard news,sports, editorial, as well as using the camera for fine art documentary and narrative photography. Cross listed with ART 435. Pre-requisite: ART 236.

COMM 442. Advertising Campaigns. (4).
An opportunity for students to apply principles learned in introductory advertising and marketing courses to case studies and real-world scenarios. Focus is on the creative and strategic development of viable advertising campaigns. Prerequisite: Comm-375 or Comm-380, senior standing (cross-listed with Bus-442).

COMM 443. Event Planning and Management. (4).
The study of the theory and practice of various forms of event planning and management. The class will be using a hands-on approach and will include lessons on budget, décor, entertainment, types, and security issues. (cross-listed with BUS 443).

COMM 445. Comiccomm: Globalism, Zeitgeist & Art. (4).
ComicComm: Globalism, Zeitgeist and the Art of Visual Communication covers the development of comic books/graphic novels from the earliest forms of sequential art through 19th century European, Japanese and Asain comics. The course then concentrates on 20th-21st century comics, bandes dessinees, and manga. The coures looks at the ways in which comics embody or challenge the ideologies of the culture in which they originate and how they respond to real-world controversies and disasters. It tracks cultural hybridism in comic art, the effects of participatory fan culture on the industry and issues of race, religion and philosophy as addressed by genre. Students write and illustrate their own comics: mastering the visual language of comics and manga; drawing figures and settings; and framing action and narrative in sequential format. Students' work may be fictional, biographical or documentary. The work is drawn and manipulated on iPads provided by the Library.

COMM 450. Public Relations Campaigns. (4).
An opportunity for students to apply processes, techniques, methods and ethical principles of public relations to case studies and real-world scenarios. Students will be involved in the full scope of PR management-research, planning, implementation and evaluation-to develop viable strategic PR plans. Prerequisite: COMM 342.

COMM 482. Selected Topics. (1-4).

COMM 482C. ST: Select Topic (core). (1-4).
Select Topic approved for core.

COMM 485. Travel Seminars. (1-4).

COMM 490. Independent Study. (1-4).

COMM 492. Internship. (1-4).
Students must find and participate in an internship appropriate to their career choice, at 60 hours of work per course credit, and also attend COMM 492 class meetings in the same semester to fulfill the communication internship requirement. Internship contracts are available through the Career Services Center; the sponsoring faculty section must be filled out by the professor teaching the COMM 492 section chosen. Contact the course professor for a copy of the department's internship guidelines and COMM 492 class details. (graded P/NC only).

COMM 495. Explore Japanese Society Popular Culture. (2).

COMM 496. Directed Research. (1-3).

COMM 497. Departmental Honors. (1-4).

Computer Information Systems

Computer Information Systems (CIS) is a rapid-growth, high-demand area combining studies in computer science and business management. The CIS major, one of two computer-oriented majors at Cal Lutheran, has been designed to meet the demand for graduates with knowledge of information systems and their application to business environments.

Along with an emphasis on computer applications in software, hardware and programming, CIS majors receive a strong business and liberal arts education. CIS represents a major area in computing, and Cal Lutheran graduates are prepared for careers in a variety of industries.

Included in the computer science facility are the computer laboratories, a study area for majors, and electronic classrooms with large screen projection systems for lectures, as well as faculty offices. Small classes allow faculty members to provide individualized attention to students and their projects and research. The department also maintains an experimental networking lab, which runs various network operating systems. The department is fully connected to the Internet and every lab PC or workstation has complete Internet access.

CIS graduates are encouraged to participate in internships and major projects offered through numerous research industries located near the University.

CIS graduates have gone on to work at:

- noted research corporations such as:
  - Rockwell International
  - Prudential Insurance
  - J.D. Power & Associates
  - IBM
  - HP
  - Hughes
  - Raytheon
  - Litton Industries
- industries that range from:
  - entertainment
  - banking
  - pharmaceuticals

Bachelor of Science in Computer Information Systems

48 credits minimum, 40 credits upper division.

CSC 210	Introduction to Computer Programming	4
CSC 331	Systems Analysis	4
CSC 350	Data Communication & Networks	4
CSC 410	Database Management Systems	4
CSC 499	Capstone	4
MATH 241	Discrete Mathematics	4
BUS 367	Behavior in Organizations	4
BUS 381	Info Systems & Organization Design	4
Additional Upper Division CSC credits *		16
Total Hours		**48**

* 8 credits can be substituted by recommended Business Administration courses.

Recommended

BUS 361	Human Resource Management	4
BUS 394	Global Business	4
BUS 445		4
BUS 448	Organization Development	4
BUS 449	Managerial Leadership: Core Competencies	4
BUS 468		4
BUS 477	Personal Financial Planning	4
ECON 312	Quantitative Analysis in Business	4
Total Hours		**32**

Certificate in Information Systems

32 Credits; GPA 2.25 or better.

CSC 210	Introduction to Computer Programming	4
CSC 331	Systems Analysis	4
CSC 350	Data Communication & Networks	4
CSC 410	Database Management Systems	4
MATH 241	Discrete Mathematics	4
BUS 367	Behavior in Organizations	4
BUS 381	Info Systems & Organization Design	4

Additional Upper Division credits	4
Total Hours	**32**

Minor in Computer Information Systems

20 credits minimum, 12 credits upper division

Computer Science credits		12
BUS 367	Behavior in Organizations	4
BUS 381	Info Systems & Organization Design	4
Total Hours		**20**

Please note that CSC-210 is the official beginning course for Computer Science and Computer Information Systems majors and minors. To be eligible for registering CSC-210, students are expected to successfully complete CSC110 or pass the CSC110 placement test (passing score is 80/100).

Courses

Lower Division

CSC 110. Concepts of Programming. (4).
Introduction of logic concepts in programming. Breadth approach to essential elements of computer programming. Text based operating systems such as DOS will be discussed. Topics covered are problem solving concepts, computer systems, disk operating systems, computer programming languages, programming fundamentals, testing and debugging, conditions and branching, loops, flowcharts, compound statements, non-compound statements, top-down program design.

CSC 205. Programming for Scientists. (4).
This course introduces the principles of computer programming, problem-solving methods, and algorithm development from a scientific perspective. The programming languages covered are C (a compiled language popular among engineers and mathematicians), and Perl (a scripting language popular among bioengineers) both in wide use in scientific fields. Also covered are introductory software engineering techniques and tools necessary to convert a functional specification to a properly functioning program. Examples and assignments will be drawn from the natural sciences. (Cross listed with SCI 205).

CSC 210. Introduction to Computer Programming. (4).
First-semester computer programming course. This course introduces the principles of computer science, problem-solving methods and algorithm development using a high-level language. This is a programming class primarily for computer science, computer information systems, mathematics, and science majors. The ability to use a computer is essential. Prerequisites: CSC 110 or permission of instructor, MATH 110 or equivalent.

CSC 220. Advanced Computer Programming. (4).
A second-semester computer programming course. This course takes a state-of-the-art approach to software design/development with object-oriented techniques. Topics include algorithm analysis, string processing, internal search/sort methods, complex data structures, design strategies, and code reusability. Prerequisite: CSC 210.

CSC 282C. ST: Select Topic (core). (1-4).
Select Topic approved for core.

Upper Division

CSC 300. Visual Programming. (4).
Advanced programming course which focuses on the design of visual user-interface in the Windows environment. Topics include basic forms, simple structures, variables, control mechanism, types and expressions, complex data structure, looping, functions, procedures, selections, multiple forms, files and arrays. Prerequisite: CSC 210.

CSC 310. Algorithms. (4).
Continues the study of the design and analysis of algorithms, particularly those handling complex data structures and non-numeric processes. Includes an introduction to algorithm design techniques, algorithm verification and the impact of parallel computation on algorithms, operating systems and architectures. A brief introduction is given to artificial intelligence focusing on data representation and heuristic search methods. Prerequisites: CSC 210, MATH 241.

CSC 315. Object-Oriented Design and Analysis. (4).
Discusses the features and advantages of an object-oriented approach to problem solving. Topics include abstraction, inheritance, polymorphism, object-oriented design, analysis, implementation and testing. Prerequisites: CSC 210.

CSC 321. Computer Organization and Architecture. (4).
Principles of computer organization and architecture are introduced from a layered point of view, beginning at data representation and progressing through the machine language execution cycle. Representative software-hardware tradeoffs in the implementation of various computer system components will be presented. The design and interface to a variety of peripheral devices will also be discussed. The emphasis will be on the hardware aspects of a computer system. Prerequisites: CSC 210, MATH 241.

CSC 322. Introduction to Robotics. (4).
An introductory study of the field of robotics-devices designed and programmed to perform various tasks. Topics include; hardware design (mechanical and electronic); software design; power subsystems; sensors; actuators; effectors; applications; comparison to biological systems; safety; societal impact and ethics. Student will study theory (lecture component) and build/program a robot (laboratory component). Prereq: Math-151.

CSC 325. Organization of Programming Languages. (4).
Covers introduction of major language histories, common components, built-in structures, compositions of basic structures, language specification, analysis techniques, runtime behavior, de-facto standards, and future developments. Prerequisites: CSC 210, MATH 241.

CSC 331. Systems Analysis. (4).
This is the first course in system engineering that stresses the system development life cycle. Students learn ways of organizing the structure and process of building very large-scale systems that may or may not involve computers. Includes information gathering, design tradeoffs, implementation strategies, product liability, acceptable risk analysis and project follow-up. Prerequisites: CSC 210, MATH 241.

CSC 335. Software Engineering. (4).
Presents a formal approach to state-of-the-art techniques for software design and development, involving students in a team approach to organizing, managing and developing software. Prerequisites: CSC 210, MATH 241.

CSC 340. Operating Systems. (4).
Discusses the major functionality and principles behind all major operating systems tasks, including user interface, hardware sharing among users, data sharing among processes, user protections, resources scheduling among users, multi-user environment, multi-processing and real-time systems. Prerequisites: CSC 210, MATH 241.

CSC 344. Web Design. (4).
Studies the backbone of dynamic Web documents. Subjects include Web design standards, and Web-based application programming to make layout, tables, style sheets, templates, libraries, frames and rollovers. HTML and script languages such as Java Scripts, GUI design paint tools and plug-ins are studied in depth. Prerequisites: CSC 210, MATH 241.

CSC 350. Data Communication & Networks. (4).
Includes discussion of distributed data processing, communication techniques, wide-area and local-area networks, integrated services digital network, open-systems interconnection, security and network management. Prerequisites: CSC 210, MATH 241.

CSC 355. Client/Server Fundamentals. (4).
Discusses modern technology in network communication and cooperative computation. Topics include discussion of client/server design concept, software expectation, hardware requirement, service, support and training issues. Prerequisites: CSC 210.

CSC 360. Computer System Security. (4).
An introduction of security issues in computer system and data communications, including Data Encryption Standard, public-key systems, digital signatures, ciphers, data compression, data manipulation and supporting techniques. Prerequisites: CSC 210, MATH 241.

CSC 370. Multimedia Technology. (4).
Introduces modern multimedia technologies. Topics include basic concepts, principles, sound, image, animation, standards, hardware and software requirements, new technologies, current research and practice, and future directions. Prerequisites: CSC 210, MATH 151.

CSC 400. Graphical User Interface. (4).
An introductory course to user interface design fundamentals. Topics include development methodologies, evaluation techniques, user-interface building tools, considerations in the design phase, identification of applicable design rules, and successful delivery of the design. Prerequisite: CSC 210.

CSC 405. Graphics. (4).
Review of graphic display architecture and graphic input devices. Coverage includes two- and three-dimensional drawing, viewing, clipping, transformations, shading and data structures for graphics systems. Prerequisites: CSC 220, MATH 241.

CSC 410. Database Management Systems. (4).
Studies the concepts and structures necessary to design and operate a database management system. Topics include data modeling, relational database design, and database querying. Prerequisites: CSC 210, MATH 241.

CSC 435. Competition Problem Solving. (4).
This course challenges students in real-world problem solving and prepares for the prestigious Association of Computing Machinery International Collegiate Programming Contest (ACM-ICPC). What is a good problem solving? It can be one that delivers the correct result. What is then a good competition problem solving? It is one that delivers the correct result in the expected amount of computation time. While there are a few classic problem-solving approaches, students in this course will learn to devise techniques in a deeper manner because most real-world problems command new approaches instead of the mere application of classic ones. Such skill will be of great importance for future advancement in both the industry as well as the academics.

CSC 482. Selected Topics. (1-4).

CSC 482C. ST: Select Topic (core). (1-4).
Select Topic approved for core.

CSC 490. Independent Study. (1-4).

CSC 492. Internship. (1-4).
(graded P/NC only).

CSC 493. Field Study. (1-2).

CSC 496. Directed Research. (1-3).

CSC 499. Capstone. (4).
Undergraduate research or development project. The exact nature of the project is negotiated with the sponsoring professor.

Computer Science

In keeping with the fast-growing computer science industry, Computer Science programs are designed to prepare students for an industrial, business, or governmental career. Cal Lutheran offers majors and minors in both computer science and computer information systems, and certificates in information technology and information systems.

Included in the computer science facility are the PC laboratories, a study area for majors, and electronic classrooms with large screen projection systems for lectures, as well as faculty offices. Small classes allow faculty members to provide individualized attention to students and their projects and research.

The department also maintains an experimental networking lab, which runs various network operating systems. The department is fully connected to the Internet and every lab PC or workstation has complete Internet access.

Cal Lutheran computer science graduates often pursue careers that utilize their skills in software and hardware development, programming, computer use in businesses, computer engineering and education.

Graduates of Cal Lutheran's computer science program are working at:

- Disney
- J.D. Power & Associates
- Teradyne
- Litton Industries
- aerospace contractors
- Big Eight accounting firms.

Computer science students are in demand and Cal Lutheran's graduates enjoy a high rate of placement in jobs or graduate schools.

Bachelor of Science in Computer Science

48 credits minimum, 36 credits upper division

CSC 210	Introduction to Computer Programming	4
CSC 220	Advanced Computer Programming	4
CSC 335	Software Engineering	4
CSC 340	Operating Systems	4
CSC 350	Data Communication & Networks	4
CSC 499	Capstone	4
MATH 241	Discrete Mathematics	4
Additional Computer Science credits		20
Total Hours		**48**

Recommended supporting courses

ART 380	Digital Art	3
ART 480	Advanced Digital Art	3
MATH 231	Statistics for the Sciences	4
MATH 251	Calculus I	4
MULT 100	Introduction to Multimedia	4
Total Hours		**18**

Certificate in Information Technology

32 credits, 20 credits upper division. GPA 2.25 or higher.

CSC 210	Introduction to Computer Programming	4
CSC 220	Advanced Computer Programming	4
CSC 335	Software Engineering	4
CSC 340	Operating Systems	4
CSC 350	Data Communication & Networks	4
MATH 241	Discrete Mathematics	4
Additional Upper Division Computer Science Credits		8
Total Hours		**32**

Minor in Computer Science

20 credits minimum, 12 credits upper division.

Please note that CSC-210 is the official beginning course for Computer Science and Computer Information Systems majors and minors. To be eligible for registering CSC-210, students are expected to successfully complete CSC110 or pass the CSC110 placement test (passing score is 80/100).

Courses

Lower Division

CSC 110. Concepts of Programming. (4).
Introduction of logic concepts in programming. Breadth approach to essential elements of computer programming. Text based operating systems such as DOS will be discussed. Topics covered are problem solving concepts, computer systems, disk operating systems, computer programming languages, programming fundamentals, testing and debugging, conditions and branching, loops, flowcharts, compound statements, non-compound statements, top-down program design.

CSC 205. Programming for Scientists. (4).
This course introduces the principles of computer programming, problem-solving methods, and algorithm development from a scientific perspective. The programming languages covered are C (a compiled language popular among engineers and mathematicians), and Perl (a scripting language popular among bioengineers) both in wide use in scientific fields. Also covered are introductory software engineering techniques and tools necessary to convert a functional specification to a properly functioning program. Examples and assignments will be drawn from the natural sciences. (Cross listed with SCI 205).

CSC 210. Introduction to Computer Programming. (4).
First-semester computer programming course. This course introduces the principles of computer science, problem-solving methods and algorithm development using a high-level language. This is a programming class primarily for computer science, computer information systems, mathematics, and science majors. The ability to use a computer is essential. Prerequisites: CSC 110 or permission of instructor, MATH 110 or equivalent.

CSC 220. Advanced Computer Programming. (4).
A second-semester computer programming course. This course takes a state-of-the-art approach to software design/development with object-oriented techniques. Topics include algorithm analysis, string processing, internal search/sort methods, complex data structures, design strategies, and code reusability. Prerequisite: CSC 210.

CSC 282C. ST: Select Topic (core). (1-4).
Select Topic approved for core.

Upper Division

CSC 300. Visual Programming. (4).
Advanced programming course which focuses on the design of visual user-interface in the Windows environment. Topics include basic forms, simple structures, variables, control mechanism, types and expressions, complex data structure, looping, functions, procedures, selections, multiple forms, files and arrays. Prerequisite: CSC 210.

CSC 310. Algorithms. (4).
Continues the study of the design and analysis of algorithms, particularly those handling complex data structures and non-numeric processes. Includes an introduction to algorithm design techniques, algorithm verification and the impact of parallel computation on algorithms, operating systems and architectures. A brief introduction is given to artificial intelligence focusing on data representation and heuristic search methods. Prerequisites: CSC 210, MATH 241.

CSC 315. Object-Oriented Design and Analysis. (4).
Discusses the features and advantages of an object-oriented approach to problem solving. Topics include abstraction, inheritance, polymorphism, object-oriented design, analysis, implementation and testing. Prerequisites: CSC 210.

CSC 321. Computer Organization and Architecture. (4).
Principles of computer organization and architecture are introduced from a layered point of view, beginning at data representation and progressing through the machine language execution cycle. Representative software-hardware tradeoffs in the implementation of various computer system components will be presented. The design and interface to a variety of peripheral devices will also be discussed. The emphasis will be on the hardware aspects of a computer system. Prerequisites: CSC 210, MATH 241.

CSC 322. Introduction to Robotics. (4).
An introductory study of the field of robotics-devices designed and programmed to perform various tasks. Topics include; hardware design (mechanical and electronic); software design; power subsystems; sensors; actuators; effectors; applications; comparison to biological systems; safety; societal impact and ethics. Student will study theory (lecture component) and build/program a robot (laboratory component). Prereq: Math-151.

CSC 325. Organization of Programming Languages. (4).
Covers introduction of major language histories, common components, built-in structures, compositions of basic structures, language specification, analysis techniques, runtime behavior, de-facto standards, and future developments. Prerequisites: CSC 210, MATH 241.

CSC 331. Systems Analysis. (4).
This is the first course in system engineering that stresses the system development life cycle. Students learn ways of organizing the structure and process of building very large-scale systems that may or may not involve computers. Includes information gathering, design tradeoffs, implementation strategies, product liability, acceptable risk analysis and project follow-up. Prerequisites: CSC 210, MATH 241.

CSC 335. Software Engineering. (4).
Presents a formal approach to state-of-the-art techniques for software design and development, involving students in a team approach to organizing, managing and developing software. Prerequisites: CSC 210, MATH 241.

CSC 340. Operating Systems. (4).
Discusses the major functionality and principles behind all major operating systems tasks, including user interface, hardware sharing among users, data sharing among processes, user protections, resources scheduling among users, multi-user environment, multi-processing and real-time systems. Prerequisites: CSC 210, MATH 241.

CSC 344. Web Design. (4).
Studies the backbone of dynamic Web documents. Subjects include Web design standards, and Web-based application programming to make layout, tables, style sheets, templates, libraries, frames and rollovers. HTML and script languages such as Java Scripts, GUI design paint tools and plug-ins are studied in depth. Prerequisites: CSC 210, MATH 241.

CSC 350. Data Communication & Networks. (4).
Includes discussion of distributed data processing, communication techniques, wide-area and local-area networks, integrated services digital network, open-systems interconnection, security and network management. Prerequisites: CSC 210, MATH 241.

CSC 355. Client/Server Fundamentals. (4).
Discusses modern technology in network communication and cooperative computation. Topics include discussion of client/server design concept, software expectation, hardware requirement, service, support and training issues. Prerequisites: CSC 210.

CSC 360. Computer System Security. (4).
An introduction of security issues in computer system and data communications, including Data Encryption Standard, public-key systems, digital signatures, ciphers, data compression, data manipulation and supporting techniques. Prerequisites: CSC 210, MATH 241.

CSC 370. Multimedia Technology. (4).
Introduces modern multimedia technologies. Topics include basic concepts, principles, sound, image, animation, standards, hardware and software requirements, new technologies, current research and practice, and future directions. Prerequisites: CSC 210, MATH 151.

CSC 400. Graphical User Interface. (4).
An introductory course to user interface design fundamentals. Topics include development methodologies, evaluation techniques, user-interface building tools, considerations in the design phase, identification of applicable design rules, and successful delivery of the design. Prerequisite: CSC 210.

CSC 405. Graphics. (4).
Review of graphic display architecture and graphic input devices. Coverage includes two- and three-dimensional drawing, viewing, clipping, transformations, shading and data structures for graphics systems. Prerequisites: CSC 220, MATH 241.

CSC 410. Database Management Systems. (4).
Studies the concepts and structures necessary to design and operate a database management system. Topics include data modeling, relational database design, and database querying. Prerequisites: CSC 210, MATH 241.

CSC 435. Competition Problem Solving. (4).
This course challenges students in real-world problem solving and prepares for the prestigious Association of Computing Machinery International Collegiate Programming Contest (ACM-ICPC). What is a good problem solving? It can be one that delivers the correct result. What is then a good competition problem solving? It is one that delivers the correct result in the expected amount of computation time. While there are a few classic problem-solving approaches, students in this course will learn to devise techniques in a deeper manner because most real-world problems command new approaches instead of the mere application of classic ones. Such skill will be of great importance for future advancement in both the industry as well as the academics.

CSC 482. Selected Topics. (1-4).

CSC 482C. ST: Select Topic (core). (1-4).
Select Topic approved for core.

CSC 490. Independent Study. (1-4).

CSC 492. Internship. (1-4).
(graded P/NC only).

CSC 493. Field Study. (1-2).

CSC 496. Directed Research. (1-3).

CSC 499. Capstone. (4).
Undergraduate research or development project. The exact nature of the project is negotiated with the sponsoring professor.

Criminology and Criminal Justice

The purpose of a major in Criminology and Criminal Justice within a liberal arts university is to develop in students the knowledge, values and ethical consciousness that are essential to becoming responsible leaders in criminal justice and related human services vocations.

The major offers broad foundational courses drawing upon sociology, political science, psychology, management, public policy, criminology and law. The departmental curriculum integrates the relevant multidisciplinary theory to provide a foundation for understanding contemporary criminal justice theory and practice. Through a combination of course work, internships and special research projects, graduates are prepared to enter a wide variety of vocations including public law enforcement and corrections agencies or to pursue graduate study in law, judicial administration, and other professions.

Bachelor of Science in Criminology and Criminal Justice

42 credits minimum, 24 upper division. Criminology and Criminal justice majors are required to complete an internship in a criminal justice agency or related area in their junior or senior year. (graded P/NC only)

CRIM 101	Introduction to Criminal Justice	4
CRIM 276	Criminal and Procedural Law	4
CRIM 335	Criminology	4
CRIM 412	Methods of Research and Statistics	4
CRIM 460	Senior Seminar: Criminal Justice	4
CRIM 492	Internship	2-4
Select five of the following:		20
CRIM 320	Critical Issues in Policing	
CRIM 330	Contemporary Corrections	
CRIM 340	Violence & Victimization	
CRIM 341	Criminal Psychology	
CRIM 350	Juvenile Delinquency	
CRIM 355	Family Violence	4
CRIM 370	Deviance in U.S. Society	
CRIM 404	Constitutional Law in Criminal Justice	
CRIM 410	Substance Abuse	
CRIM 420	White-Collar Crime	4
CRIM 430	Gender, Race, Ethnicity and Crime	
CRIM 440	Terrorism	
CRIM 451	Forensic Investigations	4
CRIM 482	Selected Topics	
CRIM 490	Independent Study	
Total Hours		**54-56**

Courses

Lower Division

CRIM 101. Introduction to Criminal Justice. (4).
Introduces the student to the fundamental concepts, institutions, and formal and informal structures of American criminal justice. Includes a description and analysis of standard measures of criminal justice activity, crime reduction strategies and contemporary suggestions for improving criminal justice.

CRIM 105. Introduction to Law and Legal Process. (4).
Provides a critical understanding of the historical and philosophical foundations of law; topics include sources of legal tradition, the impact of law on society, judicial decision-making, and legal restraints and impediments. The course will familiarize students with electronic legal sources. Required for the Legal Studies minor, not required for the Criminal Justice major. (Cross-listed with POLS 105).

CRIM 276. Criminal and Procedural Law. (4).
A study of the concepts of criminal and procedural law as a social force; the historical development of law and constitutional provisions, legal definitions, classification of crime, case law and methodology of the study of law.

CRIM 282C. ST: Select Topic (core). (1-4).
Select Topic approved for core requirement.

Upper Division

CRIM 320. Critical Issues in Policing. (4).
Examines the social, legal and political issues affecting policing in a democratic society, including police accountability, responsibility, community policing, individual and organizational deviance, civil liability and the role of technology. Students analyze contemporary research as related to the police role. Pre-requisite: CRIM-101 or permission of the instructor.

CRIM 330. Contemporary Corrections. (4).
Examines current correctional practices (diversion, community supervision, institutionalization and special problems confronting correctional efforts) in light of historical, philosophical and social developments. Pre-requisite: CRIM 101 and sophomore standing or permission of instructor.

CRIM 335. Criminology. (4).
The analysis of the nature, causes and distribution of crime, with an emphasis on the relationship between theoretical explanations of crime and contemporary social responses. Contemporary research supporting crime control/prevention efforts is examined. Prerequisite: CRIM 101 or permission of instructor.

CRIM 340. Violence & Victimization. (4).
Victimology addresses the sources of violence, the relationships between victims and offenders, the interactions between victims and the criminal justice system, and the social, legal and institutional responses to violence and victimization. There is specific focus on the victims of violent crimes such as spousal abuse, workplace violence, predatory crime, and terrorism. Prerequisite: junior standing or permission of instructor.

CRIM 341. Criminal Psychology. (4).
Students examine theory, research, law and case studies to gain an understanding of the behavior of violent offenders. Research into biological, psychological and social causes is examined and evaluated. Additional topics include the role of the forensic psychologist, the science of profiling and the definitions and use of the insanity defense. Prerequisite: CRIM 101, junior standing or permission of instructor. (cross-listed with PSYC 341).

CRIM 350. Juvenile Delinquency. (4).
A study of the social and psychological factors contributing to juvenile delinquency and the societal and governmental attempts to prevent and control individual delinquent behavior. The role of the juvenile court and common intervention strategies are also examined.

CRIM 355. Family Violence. (4).
This course examines the ramifications of family violence as well as the broad issues surrounding domestic violence from an interdisciplinary perspective. Violence against women typologies and theories such as cycle of violence, dominance and control are among the sociological and psychological perspectives covered and crimes such as battering, sexual assault, child abuse, and elder abuse are analyzed in a broad social and political context. The legal perspectives on proactive arrest policies, restraining orders, and anti-stalking legislation that have emerged across the United States also are examined. Special attention is given to how these crimes affect women, men, children, and elders, and how the criminal justice system may better address the needs of victims and offenders. Prerequisite: Crim-101 or permission of the instructor.

CRIM 365. Comparative Justice Systems. (4).
Comparative justice systems analyzes crime patterns and justice procedures of common law or Western justice systems, with non-Western nations around the world. Specific emphasis on comparing criminal laws, law enforcement, the judicial process, and punishment philosophies of different countries. The course satisfies the global studies requirement. Prerequisite: Crim. 101 or permission of instructor.

CRIM 370. Deviance in U.S. Society. (4).
Introduces students to sociological concepts of deviance, social control, social power, and identity construction/management. Focusing on the topic of deviance, an explanation of how groups of people have the power to shape and apply social definitions of "normalcy" and "morality" will provide an analytical lens through which to look at the consequences for those labeled as "deviant." Minimum of sophomore standing. (cross-listed with SOC 370).

CRIM 392. Internship Via Luther College Program. (1-6).

CRIM 404. Constitutional Law in Criminal Justice. (4).
Emphasizes Supreme Court decisions and constitutional issues relevant to the Fourth, Fifth, Sixth, Eighth and Fourteenth amendments. Students are expected to research and present cases from the text and other legal sources. Prerequisite: junior standing or permission of instructor. (cross-listed with POLS 404).

CRIM 410. Substance Abuse. (4).
An overview of drug use in a historical and social context, primarily in the United States. The course covers alcohol and other controlled substances, paying particular attention to the implications of past and current drug use practices and policies for criminal justice agencies. Prerequisites: CRIM 101 and junior standing.

CRIM 412. Methods of Research and Statistics. (4).
The study of the major methods of research used in social inquiry. Emphasis is on the use of social surveys, qualitative interviews, data analysis and interpretation. The students will also make use of the computer by applying statistical software to data entry and analysis, finding patterns in the data, testing hypotheses and presenting findings using tables and graphs. Prerequisites: CRIM 101 and junior standing.

CRIM 420. White-Collar Crime. (4).
This course will provide students with a critical examination of white-collar crime and deviance, its impact on society, and what might be done to address this social problem. Cross-listed with BUS 420. Pre-requisite: Junior standing or permission of instructor.

CRIM 430. Gender, Race, Ethnicity and Crime. (4).
This course critically examines the impact of gender, race, ethnicity and class on crime and how the criminal justice system operates within these contexts. Also examines the impact of perception, stigmatization, theory, law and social policy on minorities and women as offenders, victims, and practitioners.

CRIM 440. Terrorism. (4).
The course focuses on the violence of terrorism and the strategic uses and justification of violence in political and religious life. The course explores the ideology and methods of terrorism by and against governments. An examination of legal and extralegal policies designed to counter terrorism are explored. Prerequisites: junior standing or permission of instructor. (cross-listed with POLS 440).

CRIM 445. Legal Reasoning. (4).
This course is designed for junior and senior students interested in law school, graduate school in public policy, or any profession touched by the law. (cross-listed with POLS 445).

CRIM 451. Forensic Investigations. (4).
Forensic investigations will familiarize students with the process of criminal and forensic investigations as they relate to the criminal justice process. Students will learn the various applications in criminal investigations which include forensics, interview/interrogation, search and seizure, use of DNA, policies and procedures. We will study the legal aspects of investigations and rules regulating the documentation, collection and analysis of evidence. We will explore the various investigative techniques used to detect, prevent, and study crime and behavior. This is a lecture-based and discussion course, so we will rely upon both audible and visual learning theories. The text will be used during lecture hours, but the reading assignments occur outside of class hours. Supplemental materials will be distributed in class and/or posted upon the class website. There will also be several experiential learning activities outside of the classroom. These will be announced in advance. Cross-listed with PSYC 451. Prerequisite: CRIM 101 or PSYC 200 and junior or senior standing.

CRIM 460. Senior Seminar: Criminal Justice. (4).
A social, political, legal and philosophical examination of contemporary criminal justice policy. Includes analysis of ethical issues confronting the police, courts and corrections and their impact on criminal justice practitioners, clients and the public. Prerequisites: senior standing, completion of all required major courses.

CRIM 482. Selected Topics. (1-4).

CRIM 482C. ST: Select Topic (core). (1-4).
Select Topic approved for core.

CRIM 490. Independent Study. (1-4).

CRIM 492. Internship. (2-4).
Criminal justice majors are required to complete an internship in a criminal justice agency or related area in their junior or senior year. (graded P/NC only).

CRIM 496. Directed Research. (1-3).

Dance (Minor)

A minor in Dance is the true meaning of experiential learning. Apply what you learn to performance in student and faculty choreographed concerts.

Requirements for Dance Minor

18 Credits for Minor		
TA 102	Introduction to Dance	4
Dance Courses 6 from the following		
DANC 120	Aerobic Dance	1
DANC 122	Modern Dance I	1
DANC 123	Modern Dance II	1
DANC 125	Swing Dance	1
DANC 126	Ballroom Dance	1
DANC 127	Ballet	1
DANC 130	Tap Dance	1

Take 8 Credits from:		
TA 312	Alexander Technique	1-2
TA 335	Movement for the Stage	2
TA 337	Dance for Music Theatre	2
and/or Choreography and Dance Company		
Required Supporting Course		
TA 152	Mainstage Productions (or)	1
or		
TA 352	Mainstage Productions	1

Earth and Environmental Science

Earth and Environmental Sciences is an interdisciplinary department that explores environmental systems and environmental change, both natural and anthropogenic. Our overarching goal is to identify and address environmental problems. We study the history of the Earth, as well as the dynamic processes that continue to shape our planet today, recognizing that an understanding of the past is the key to managing the future. We seek to understand geographic patterns and processes in the geosphere, hydrosphere, biosphere, and atmosphere - as related to geographic patterns amongst human populations. Our program covers a broad array of topics from climate change and geochemistry to ecology/biogeography and natural hazards. We integrate fieldwork and laboratory research into our curriculum with the goal of preparing our majors for a variety of career paths in geology, environmental management, environmental policy, and education.

We currently offer two Bachelor of Science degrees: one in Environmental Science and one in Geology. Our students get comprehensive training in geology, geomorphology, climatology, ecology, environmental policy, environmental ethics, environmental justice, and environmental sustainability solutions. Beyond the classroom, we endeavor to prepare our students to be innovative problem-solvers who are equipped to address future sustainability challenges and global climate change scenarios.

For majors, minors and course descriptions under this department please refer to Environmental Science (p. 133), Environmental Studies (p. 136) and Geology (p. 161)

Courses

Lower Division

EES 111. Physical Geology. (3).
A systematic analysis of the Earth, inside and out, its rocks, minerals, soils and water. This involves the study of the processes by which these materials are formed and are constantly changed, including how mountains are created and then eroded by streams, wind and glaciers. Volcanoes, earthquakes and plate tectonics are also covered. Field trips. Lecture, 3 hours/week.

EES 111L. Physical Geology Lab. (1).
Hands-on study of rocks and minerals, topographic and air photo interpretation and a variety of geologic exercises that help understand the geologic processes and landforms studied in GEOL 111. Laboratory, 2 hours/week. Prerequisite or corequisite: EES-111.

EES 112. Historical Geology. (3).
The study of the ancient distribution of land and sea and change in life through geologic time. Lecture, 3 hours/week. Prerequisite: EES-111.

EES 112L. Historical Geology Lab. (1).
Includes fossil identification, geologic map interpretation and paleogeographic problems. Prerequisite or corequisite: EES-112.

EES 118. The Oceans. (4).
A general survey of geological and biological processes in the oceans with a strong environmental emphasis. Laboratory exercises and field trips complement lecture material. (Cross-listed with BIOL 118).

EES 118L. The Oceans Lab. (0).
Co-requisite: EES-118 (Cross-listed with BIOL-118L).

EES 151. Physical Geography. (3).
A systematic study of the nature of basic physical elements of human habitat, especially climate, landforms and Earth resources.

EES 151L. Physical Geography Lab. (1).

EES 152. Introduction to Environmental Science. (4).
An examination of the relationship between people and the physical environment. Topics include geologic hazards such as volcanoes and earthquakes; pollution of land, air and water; park conservation; energy alternatives; and global challenges such as ozone depletion and human-induced climate change. Lecture, 3 hours/week; Laboratory required, 2 hours/week.

EES 212. Dinosaurs. (4).
A survey of the non-avian dinosaurs includes: anatomical comparisons of the major dinosaur groups, plus flying and swimming vertebrates of the Mesozoic Era: new discoveries such as dinosaur eggs and nesting sites, the emergence of birds, soft tissue preservation, and the search for genetic material; a review of the process of fossilization; the paleogeography of the Mesozoic world; and the geological background relevant to dinosaur studies. Lab activities are integrated into the meeting times of the lecture course.

EES 224. Planetary Geology. (4).
This course will focus on the Earth and its local planetary neighbors utilizing the vast amount of information that has been and continues to be acquired by space probes as well as manned lunar missions. Exposure to comparisons with other nearby planets and planetary objects will allow a better understanding of the Earth, especially our impact on climate and resources. New discoveries and observations in planetary geology demonstrate how the field of geology has changed dramatically since the inception of the "space age". This class will provide students with new insights into planetary evolution, the impact of the space program on our societal needs, and challenge them to critically evaluate data. Lecture, 3 hours/week; Laboratory, 2 hours/week.

EES 282C. ST: Selected Topic (Core). (1-4).
Select Topic approved for core requirement.

Upper Division

EES 305. Climate Change. (4).
This course investigates how contemporary/anthropogenic climate change compares to climate variations over Earth's long history, including our scientific understanding of its causes and its local and global impacts. An overview of the physical components of Earth's climate system is discussed. The course includes both lecture and laboratory experiences. Prerequisite: EES 111 or EES 152. Offered Fall semesters.

EES 311. Crystallography & Mineralogy. (5).
Covers morphological crystallography, crystal chemistry, relation of mineral properties to their internal structure, recognition of selected minerals in hand specimen and optical techniques used for mineral identification (use of the polarizing microscope). Lecture, 3 hours/week; Laboratory, 6 hours/week. Prerequisites or corequisites: EES-112; Chem-151.

EES 312. Petrology. (5).
The study of the origin, occurrence, classification and identification of igneous and metamorphic rocks in hand specimen. Lecture, 4 hours/week; Laboratory, 3 hours/week. Prerequisite: EES-311.

EES 331. Invertebrate Paleontology. (4).
A survey of the study of ancient life as revealed in the fossil record. Lecture stresses evolutionary theory and the history of life; lab surveys major invertebrate fossil taxa with emphasis on taxonomy and functional morphology. Lecture, 3 hours/week; Laboratory, 3 hours/week. Prerequisite: EES-112.

EES 331L. Invertebrate Paleontology Lab. (0).

EES 332. Stratigraphy & Sedimentation. (4).
The study of sedimentary rocks, sites of deposition, postdepositional changes and sedimentary tectonics. Lecture, 3 hours/week; Laboratory, 3 hours/week.

EES 332L. Stratigraphy & Sediment Lab. (0).

EES 335. Structural Geology. (5).
The discussion of primary and secondary rock structures, with particular reference to crustal deformation. Lecture, 3 hours/week; Laboratory, 6 hours/week.

EES 335L. Structural Geology Lab. (0).

EES 390. Introduction to Soils. (4).
Soil Science encompasses a broad spectrum of integrated sciences that include biology, chemistry, earth/geological sciences, physics, horticulture and ecology. Lectures will introduce you to many of the subdivisions of soil science that include: agriculture and nutrient management, soil formation and pedology, soil classifications, soil biology, soil physics and soil chemistry. Lab exercises are designed to provide you with some hands on experience pertinent to the subdivisions of Soil Science.

EES 390L. Intro to Soils Lab. (0).

EES 395. Water Resources. (3).
An introduction to the principles of surface and groundwater hydrology and to problems related to water utilization. Includes water distribution and availability, alternatives for increasing future water supply, water pollution and mitigation, and water rights law.

EES 395L. Lab & Field Studies Water Resources. (1).
Water sampling and testing; simulation of groundwater movement and contaminant migration; stream-table modeling of fluvial landforms. Field trips to study geologic and hydrologic characteristics of areas important to water supply in California and the Southwest.

EES 405. Geophysics. (4).
An interdisciplinary study of how to use geophysical observations of the Earth's gravitational and magnetic fields, seismic wave velocities and subsurface electrical resistivity to solve geological and environmental problems. Specific field methods using geophysical instruments will be taught along with the interpretation of the collected data. Lecture, 3 hours/week; Laboratory 3 hours/week. Prerequisites: PHYS 201 & PHYS 202 or PHYS 211 & PHYS 212. EES-111 or EES-152 recommended. (cross-listed with Phys 405).

EES 405L. Geophysics Lab. (0).

EES 421. Field Geology. (4).
Studies the field methods used in geology, including surveying, plane tabling, geologic mapping and section measuring. Prerequisite: EES-335.

EES 482C. ST: Selected Topic (Core). (1-4).
Select Topic approved for core requirement.

EES 485. Environmental Science Capstone. (2).
This course introduces students to the professional skills and practices required in the environmental field. Includes introduction to GIS (Geographic Information Systems), literature searches, written and oral presentation of work. Prerequisite: senior standing.

EES 490. Independent Study. (1-4).

EES 492. Internship. (1-4).

EES 496. Directed Research. (4.00).

Environmental Science

Environmental science is the application of scientific information in order to solve conflicts resulting from humans' use of our planet's resources. This requires an understanding of the sustainability of natural systems and resources, the interrelationships between these systems, as well as the human impact on the environment.

Environmental science is thus an inherently interdisciplinary field, using and combining information from such varied disciplines as:

- biology
- chemistry
- geology
- economics
- political science
- law
- ethics

California Lutheran University's B.S. degree in environmental science is designed to provide the student with the tools to critically examine environmental issues from a variety of perspectives.

Beyond the required foundational science courses, the program provides a broad range of science and humanities courses to select from, allowing students to tailor the program to their interests. The curriculum emphasizes experiential learning, providing the student with opportunities to actively engage in research.

Many students who obtain the B.S. degree in environmental science are planning careers in environmental protection and management, risk assessment, environmental law or education. The program also prepares students to pursue graduate studies in various environmental fields.

Bachelor of Science in Environmental Science

45 credits minimum, 18 credits upper division.

GEOL 152/152L	Introduction to Environmental Science and Intro Environmental Science Lab	4
or BIOL 325/325L	Environmental Ecology	
Select one of the following:		4-5
BIOL 111/111L	Principles of Biology and Principles of Biology Lab	
BIOL 120/123L	Introduction to Ecology and Populations and Intro Biol Experimentation I	
Select one of the following:		4-5
CHEM 111/111L	Chemistry and the Environment and Chemistry and the Environment Lab	
CHEM 151/151L	General Chemistry and General Chemistry Lab	
GEOL 111/111L	Physical Geology and Physical Geology Lab	4
MATH 231	Statistics for the Sciences	4
ENVS 485	Environmental Science Capstone	2

Select three of the following:		12
BIOL 311	Evolution	
BIOL 325/325L	Environmental Ecology and Enviromental Ecology Lab (If not used earlier)	
BIOL 345/345L	Marine Biology and Marine Biology Lab	
BIOL 352/352L	Oceanography and Oceanography Lab	
BIOL 452/452L		
CHEM 301/301L	Environmental Chemistry and Course CHEM 301L Not Found	
GEOL 331/331L	Invertebrate Paleontology and Invertebrate Paleontology Lab	
GEOL 332/332L	Stratigraphy and Sedimentation and Stratigraphy and Sedimentation Lab	
GEOL 395/395L	Water Resources and Lab Field Studies Water Resources	
GEOL 405/405L	Course GEOL 405 Not Found and Course GEOL 405L Not Found	
Select two of the following:		8
REL 352	Environmental Ethics	
ECON 414	Economics of the Environment	
ENGL 216	Environmental Literature	
POLS 414	Environmental Law and Policy	
Additional Science course [1]		4
Total Hours		**46-48**

[1] From Biology, Chemistry, Geology, Physics at the 200 level or above or two field experience courses (see adviser for list of approved choices).

Courses

Lower Division

EES 111. Physical Geology. (3).
A systematic analysis of the Earth, inside and out, its rocks, minerals, soils and water. This involves the study of the processes by which these materials are formed and are constantly changed, including how mountains are created and then eroded by streams, wind and glaciers. Volcanoes, earthquakes and plate tectonics are also covered. Field trips. Lecture, 3 hours/week.

EES 111L. Physical Geology Lab. (1).
Hands-on study of rocks and minerals, topographic and air photo interpretation and a variety of geologic exercises that help understand the geologic processes and landforms studied in GEOL 111. Laboratory, 2 hours/week. Prerequisite or corequisite: EES-111.

EES 112. Historical Geology. (3).
The study of the ancient distribution of land and sea and change in life through geologic time. Lecture, 3 hours/week. Prerequisite: EES-111.

EES 112L. Historical Geology Lab. (1).
Includes fossil identification, geologic map interpretation and paleogeographic problems. Prerequisite or corequisite: EES-112.

EES 118. The Oceans. (4).
A general survey of geological and biological processes in the oceans with a strong environmental emphasis. Laboratory exercises and field trips complement lecture material. (Cross-listed with BIOL 118).

EES 118L. The Oceans Lab. (0).
Co-requisite: EES-118 (Cross-listed with BIOL-118L).

EES 151. Physical Geography. (3).
A systematic study of the nature of basic physical elements of human habitat, especially climate, landforms and Earth resources.

EES 151L. Physical Geography Lab. (1).

EES 152. Introduction to Environmental Science. (4).
An examination of the relationship between people and the physical environment. Topics include geologic hazards such as volcanoes and earthquakes; pollution of land, air and water; park conservation; energy alternatives; and global challenges such as ozone depletion and human-induced climate change. Lecture, 3 hours/week; Laboratory required, 2 hours/week.

EES 212. Dinosaurs. (4).
A survey of the non-avian dinosaurs includes: anatomical comparisons of the major dinosaur groups, plus flying and swimming vertebrates of the Mesozoic Era: new discoveries such as dinosaur eggs and nesting sites, the emergence of birds, soft tissue preservation, and the search for genetic material; a review of the process of fossilization; the paleogeography of the Mesozoic world; and the geological background relevant to dinosaur studies. Lab activities are integrated into the meeting times of the lecture course.

EES 224. Planetary Geology. (4).
This course will focus on the Earth and its local planetary neighbors utilizing the vast amount of information that has been and continues to be acquired by space probes as well as manned lunar missions. Exposure to comparisons with other nearby planets and planetary objects will allow a better understanding of the Earth, especially our impact on climate and resources. New discoveries and observations in planetary geology demonstrate how the field of geology has changed dramatically since the inception of the "space age". This class will provide students with new insights into planetary evolution, the impact of the space program on our societal needs, and challenge them to critically evaluate data. Lecture, 3 hours/week; Laboratory, 2 hours/week.

EES 282C. ST: Selected Topic (Core). (1-4).
Select Topic approved for core requirement.

Upper Division

EES 305. Climate Change. (4).
This course investigates how contemporary/anthropogenic climate change compares to climate variations over Earth's long history, including our scientific understanding of its causes and its local and global impacts. An overview of the physical components of Earth's climate system is discussed. The course includes both lecture and laboratory experiences. Prerequisite: EES 111 or EES 152. Offered Fall semesters.

EES 311. Crystallography & Mineralogy. (5).
Covers morphological crystallography, crystal chemistry, relation of mineral properties to their internal structure, recognition of selected minerals in hand specimen and optical techniques used for mineral identification (use of the polarizing microscope). Lecture, 3 hours/week; Laboratory, 6 hours/week. Prerequisites or corequisites: EES-112; Chem-151.

EES 312. Petrology. (5).
The study of the origin, occurrence, classification and identification of igneous and metamorphic rocks in hand specimen. Lecture, 4 hours/week; Laboratory, 3 hours/week. Prerequisite: EES-311.

EES 331. Invertebrate Paleontology. (4).
A survey of the study of ancient life as revealed in the fossil record. Lecture stresses evolutionary theory and the history of life; lab surveys major invertebrate fossil taxa with emphasis on taxonomy and functional morphology. Lecture, 3 hours/week; Laboratory, 3 hours/week. Prerequisite: EES-112.

EES 331L. Invertebrate Paleontology Lab. (0).

EES 332. Stratigraphy & Sedimentation. (4).
The study of sedimentary rocks, sites of deposition, postdepositional changes and sedimentary tectonics. Lecture, 3 hours/week; Laboratory, 3 hours/week.

EES 332L. Stratigraphy & Sediment Lab. (0).

EES 335. Structural Geology. (5).
The discussion of primary and secondary rock structures, with particular reference to crustal deformation. Lecture, 3 hours/week; Laboratory, 6 hours/week.

EES 335L. Structural Geology Lab. (0).

EES 390. Introduction to Soils. (4).
Soil Science encompasses a broad spectrum of integrated sciences that include biology, chemistry, earth/geological sciences, physics, horticulture and ecology. Lectures will introduce you to many of the subdivisions of soil science that include: agriculture and nutrient management, soil formation and pedology, soil classifications, soil biology, soil physics and soil chemistry. Lab exercises are designed to provide you with some hands on experience pertinent to the subdivisions of Soil Science.

EES 390L. Intro to Soils Lab. (0).

EES 395. Water Resources. (3).
An introduction to the principles of surface and groundwater hydrology and to problems related to water utilization. Includes water distribution and availability, alternatives for increasing future water supply, water pollution and mitigation, and water rights law.

EES 395L. Lab & Field Studies Water Resources. (1).
Water sampling and testing; simulation of groundwater movement and contaminant migration; stream-table modeling of fluvial landforms. Field trips to study geologic and hydrologic characteristics of areas important to water supply in California and the Southwest.

EES 405. Geophysics. (4).
An interdisciplinary study of how to use geophysical observations of the Earth's gravitational and magnetic fields, seismic wave velocities and subsurface electrical resistivity to solve geological and environmental problems. Specific field methods using geophysical instruments will be taught along with the interpretation of the collected data. Lecture, 3 hours/week; Laboratory 3 hours/week. Prerequisites: PHYS 201 & PHYS 202 or PHYS 211 & PHYS 212. EES-111 or EES-152 recommended. (cross-listed with Phys 405).

EES 405L. Geophysics Lab. (0).

EES 421. Field Geology. (4).
Studies the field methods used in geology, including surveying, plane tabling, geologic mapping and section measuring. Prerequisite: EES-335.

EES 482C. ST: Selected Topic (Core). (1-4).
Select Topic approved for core requirement.

EES 485. Environmental Science Capstone. (2).
This course introduces students to the professional skills and practices required in the environmental field. Includes introduction to GIS (Geographic Information Systems), literature searches, written and oral presentation of work. Prerequisite: senior standing.

EES 490. Independent Study. (1-4).

EES 492. Internship. (1-4).

EES 496. Directed Research. (4.00).

Environmental Studies (minor)

The Environmental Studies minor offers students an overview of environmental perspectives in:

- biology
- geology
- religion
- literature
- geography

Students choose from a variety of courses that span environmental writers and the ethics of environmental decisions to ecology and the availability of water resources. Courses are geared to benefit both science and liberal studies majors.

Many students who minor in Environmental Studies are planning careers in environmental law or education.

Minor in Environmental Studies

Five courses, 17-20 credits of which two courses (minimum 6 credits) must be upper division. Note: BIOL 352 may be substituted for BIOL 118 /GEOL 118 provided prerequisites are met.

Lower Division:		
GEOL 152/152L	Introduction to Environmental Science and Intro Environmental Science Lab	4
BIOL 118/118L	The Oceans and The Oceans Lab	4
or GEOL 118/118L	The Oceans	
CHEM 111/111L	Chemistry and the Environment and Chemistry and the Environment Lab	4
ENGL 216	Environmental Literature	4
Upper Division:		
BIOL 325/325L	Environmental Ecology and Enviromental Ecology Lab	4
BIOL 345/345L	Marine Biology and Marine Biology Lab	4
BIOL 452/452L		4
GEOL 395/395L	Water Resources and Lab Field Studies Water Resources	4
REL 352	Environmental Ethics	4

Courses

Lower Division

EES 111. Physical Geology. (3).
A systematic analysis of the Earth, inside and out, its rocks, minerals, soils and water. This involves the study of the processes by which these materials are formed and are constantly changed, including how mountains are created and then eroded by streams, wind and glaciers. Volcanoes, earthquakes and plate tectonics are also covered. Field trips. Lecture, 3 hours/week.

EES 111L. Physical Geology Lab. (1).
Hands-on study of rocks and minerals, topographic and air photo interpretation and a variety of geologic exercises that help understand the geologic processes and landforms studied in GEOL 111. Laboratory, 2 hours/week. Prerequisite or corequisite: EES-111.

EES 112. Historical Geology. (3).
The study of the ancient distribution of land and sea and change in life through geologic time. Lecture, 3 hours/week. Prerequisite: EES-111.

EES 112L. Historical Geology Lab. (1).
Includes fossil identification, geologic map interpretation and paleogeographic problems. Prerequisite or corequisite: EES-112.

EES 118. The Oceans. (4).
A general survey of geological and biological processes in the oceans with a strong environmental emphasis. Laboratory exercises and field trips complement lecture material. (Cross-listed with BIOL 118).

EES 118L. The Oceans Lab. (0).
Co-requisite: EES-118 (Cross-listed with BIOL-118L).

EES 151. Physical Geography. (3).
A systematic study of the nature of basic physical elements of human habitat, especially climate, landforms and Earth resources.

EES 151L. Physical Geography Lab. (1).

EES 152. Introduction to Environmental Science. (4).
An examination of the relationship between people and the physical environment. Topics include geologic hazards such as volcanoes and earthquakes; pollution of land, air and water; park conservation; energy alternatives; and global challenges such as ozone depletion and human-induced climate change. Lecture, 3 hours/week; Laboratory required, 2 hours/week.

EES 212. Dinosaurs. (4).
A survey of the non-avian dinosaurs includes: anatomical comparisons of the major dinosaur groups, plus flying and swimming vertebrates of the Mesozoic Era: new discoveries such as dinosaur eggs and nesting sites, the emergence of birds, soft tissue preservation, and the search for genetic material; a review of the process of fossilization; the paleogeography of the Mesozoic world; and the geological background relevant to dinosaur studies. Lab activities are integrated into the meeting times of the lecture course.

EES 224. Planetary Geology. (4).
This course will focus on the Earth and its local planetary neighbors utilizing the vast amount of information that has been and continues to be acquired by space probes as well as manned lunar missions. Exposure to comparisons with other nearby planets and planetary objects will allow a better understanding of the Earth, especially our impact on climate and resources. New discoveries and observations in planetary geology demonstrate how the field of geology has changed dramatically since the inception of the "space age". This class will provide students with new insights into planetary evolution, the impact of the space program on our societal needs, and challenge them to critically evaluate data. Lecture, 3 hours/week; Laboratory, 2 hours/week.

EES 282C. ST: Selected Topic (Core). (1-4).
Select Topic approved for core requirement.

Upper Division

EES 305. Climate Change. (4).
This course investigates how contemporary/anthropogenic climate change compares to climate variations over Earth's long history, including our scientific understanding of its causes and its local and global impacts. An overview of the physical components of Earth's climate system is discussed. The course includes both lecture and laboratory experiences. Prerequisite: EES 111 or EES 152. Offered Fall semesters.

EES 311. Crystallography & Mineralogy. (5).
Covers morphological crystallography, crystal chemistry, relation of mineral properties to their internal structure, recognition of selected minerals in hand specimen and optical techniques used for mineral identification (use of the polarizing microscope). Lecture, 3 hours/week; Laboratory, 6 hours/week. Prerequisites or corequisites: EES-112; Chem-151.

EES 312. Petrology. (5).
The study of the origin, occurrence, classification and identification of igneous and metamorphic rocks in hand specimen. Lecture, 4 hours/week; Laboratory, 3 hours/week. Prerequisite: EES-311.

EES 331. Invertebrate Paleontology. (4).
A survey of the study of ancient life as revealed in the fossil record. Lecture stresses evolutionary theory and the history of life; lab surveys major invertebrate fossil taxa with emphasis on taxonomy and functional morphology. Lecture, 3 hours/week; Laboratory, 3 hours/week. Prerequisite: EES-112.

EES 331L. Invertebrate Paleontology Lab. (0).

EES 332. Stratigraphy & Sedimentation. (4).
The study of sedimentary rocks, sites of deposition, postdepositional changes and sedimentary tectonics. Lecture, 3 hours/week; Laboratory, 3 hours/week.

EES 332L. Stratigraphy & Sediment Lab. (0).

EES 335. Structural Geology. (5).
The discussion of primary and secondary rock structures, with particular reference to crustal deformation. Lecture, 3 hours/week; Laboratory, 6 hours/week.

EES 335L. Structural Geology Lab. (0).

EES 390. Introduction to Soils. (4).
Soil Science encompasses a broad spectrum of integrated sciences that include biology, chemistry, earth/geological sciences, physics, horticulture and ecology. Lectures will introduce you to many of the subdivisions of soil science that include: agriculture and nutrient management, soil formation and pedology, soil classifications, soil biology, soil physics and soil chemistry. Lab exercises are designed to provide you with some hands on experience pertinent to the subdivisions of Soil Science.

EES 390L. Intro to Soils Lab. (0).

EES 395. Water Resources. (3).
An introduction to the principles of surface and groundwater hydrology and to problems related to water utilization. Includes water distribution and availability, alternatives for increasing future water supply, water pollution and mitigation, and water rights law.

EES 395L. Lab & Field Studies Water Resources. (1).
Water sampling and testing; simulation of groundwater movement and contaminant migration; stream-table modeling of fluvial landforms. Field trips to study geologic and hydrologic characteristics of areas important to water supply in California and the Southwest.

EES 405. Geophysics. (4).
An interdisciplinary study of how to use geophysical observations of the Earth's gravitational and magnetic fields, seismic wave velocities and subsurface electrical resistivity to solve geological and environmental problems. Specific field methods using geophysical instruments will be taught along with the interpretation of the collected data. Lecture, 3 hours/week; Laboratory 3 hours/week. Prerequisites: PHYS 201 & PHYS 202 or PHYS 211 & PHYS 212. EES-111 or EES-152 recommended. (cross-listed with Phys 405).

EES 405L. Geophysics Lab. (0).

EES 421. Field Geology. (4).
Studies the field methods used in geology, including surveying, plane tabling, geologic mapping and section measuring. Prerequisite: EES-335.

EES 482C. ST: Selected Topic (Core). (1-4).
Select Topic approved for core requirement.

EES 485. Environmental Science Capstone. (2).
This course introduces students to the professional skills and practices required in the environmental field. Includes introduction to GIS (Geographic Information Systems), literature searches, written and oral presentation of work. Prerequisite: senior standing.

EES 490. Independent Study. (1-4).

EES 492. Internship. (1-4).

EES 496. Directed Research. (4.00).

Economics

California Lutheran University’s bachelor of arts degree program in economics prepares students for a variety of careers by offering a strong background in liberal arts and social science studies as well as in all aspects of business.

Economics majors will take a sampling of business courses including principles of marketing, finance, organizational behavior, career development, accounting and statistics. Advanced courses within the economics curriculum include the history of economic thought, macro-economics, price theory, international economics and research methods. Students are encouraged to work in internships and on independent projects in order to combine course work with hands-on experience in the world of economics.

Along with many other opportunities, economics majors have access to the University’s Economic Research Center which gathers economic data for Ventura County and parts of Los Angeles County. Cal Lutheran students participate in and contribute to the formulation and gathering of the data.

Economics graduates may take many career paths, including careers in banking and finance, economic and demographic research and forecasting, and urban planning.

The Cal Lutheran School of Management also offers graduate courses leading to the master of business administration and master of science in economics.

See Business Administration (p.) for faculty listing.

Bachelor of Arts in Economics

41 credits minimum, 20 credits upper division.

Select one of the following:		5-6
ECON 203	General Economics (or)	4
ECON 200/201	Introduction to Micro-Economics and Introduction to MacRo Economics	
MATH 245	Applied Calculus	4

ECON 311	Statistical Methods	4
ECON 406	Intermediate Macro-Economics	4
ECON 411	Intermediate Micro-Economics	4
ECON 450	Econometrics	4
ECON 470	Research Methods-Capstone	4
Select three of the following:		12
ECON 206	Economic Systems and Society	
ECON 301	Labor Economics	
ECON 312	Quantitative Analysis in Business	
ECON 313	Comparative Economic Systems	
ECON 321	Money and Banking and Capital Markets	
ECON 341	History of Economic Thought	
ECON 414	Economics of the Environment	
ECON 416	International Economics	
ECON 420	Economic Entepreneurship	
ECON 421	Advanced Statistics	
ECON 460	Economic Development	
ECON 465	Global Political Economy	
BUS 391	Principles of Finance,	

Honors in Economics

Students must have a GPA of 3.7 or higher by the end of their junior year after completing at least 75 credits in their study toward a BA in Economics, all lower division courses in the major, and a total of 20 upper division credits toward their major. Those who are qualified to pursue an Honors Degree in Economics will take 8 credits: ECON 445 and ECON 497 , Honors Thesis.

Minor in Economics

20 credits minimum in Business Administration and Economics, 16 credits upper division.

BUS 251	Principles of Accounting	4
ECON 311	Statistical Methods	4
Additional Upper Division ECON credits		12
Total Hours		**20**

Required Supporting Course

ECON 203	General Economics	4
Total Hours		**4**

Courses

Lower Division

ECON 200. Introduction to Micro-Economics. (3).
The study of principles of economics on the firm level, including resource pricing and allocation, market structures, supply and demand. (offered one semester each year).

ECON 201. Introduction to MacRo Economics. (3).
The study of principles of economics on the national level, including the role of government and business, national income, employment, and monetary and fiscal policy.

ECON 203. General Economics. (4).
Provides a basic understanding of how economic decisions are made by individual economic agents ("micro") and within the context of large ("macro") economic systems. The course is comprised of three major sections: basic economic concepts, micro-economics and macro-economics. The course includes a series of lab activities for hands-on practice and application of micro- and macro-economic principles.

ECON 206. Economic Systems and Society. (4).
Examines the approaches of capitalist, socialist and communist societies in the development of economic systems and the formulation of governmental economic policies. Emphasis is placed on the ways in which nations attempt to use economic forces to achieve such social objectives as health care, education and social stability.

ECON 282. Selected Topics. (1-4).

ECON 282C. ST: Select Topic (core). (1-4).
Select Topic approved for core requirement.

Upper Division

ECON 301. Labor Economics. (3).
The study of the theories of wages and employment, the history and economics of the labor movement and the economics of the labor market, collective bargaining and trade unionism. Prerequisite: ECON 203.

ECON 311. Statistical Methods. (4).
The basic methods in analysis of central tendency, dispersion and probability distributions. Prerequisite: MATH 115 or MATH 245 or MATH 251 or equivalent.

ECON 312. Quantitative Analysis in Business. (4).
An introduction to quantitative decision making from a managerial standpoint, plus the formulation and solution of decision models under certainty and uncertainty. Topics include model building, linear programming, probability, Bayesean decision theory and simulation. Prerequisite: ECON 311.

ECON 313. Comparative Economic Systems. (4).
A comparative study of the economic goals, theories of economic organization, institutions and development processes in individual nations and the reorganized multinational economic entities. Prerequisite: ECON 203.

ECON 321. Money and Banking and Capital Markets. (4).
The study of modern monetary theories and the principles of banking, with special emphasis on the Federal Reserve System. Prerequisite: ECON 203.

ECON 341. History of Economic Thought. (4).
A study of economic theories from Aristotle to modern times. Special attention is given to the period from Adam Smith's Wealth of Nations to Keynes' General Theory and to emerging theories of the management of the economics of non-democratic societies. Prerequisite: ECON 203.

ECON 406. Intermediate Macro-Economics. (4).
The study of Keynesian economics, concepts and theories of national income, stability and full employment, rate of interest and investment, including macro-economic models. Prerequisite: ECON 203.

ECON 411. Intermediate Micro-Economics. (4).
A study of the modern theory of price and the laws of supply and demand. Includes price and output determination and optimal resource allocation in different market situations and in centrally managed versus free-market economies. Prerequisite: ECON 203.

ECON 414. Economics of the Environment. (4).
Students investigate, in economic terms, various environmental problems in today's world to determine the costs and benefits of alternative approaches to environmental remediation. Also examines major policy alternatives for environmental protection. The course provides the opportunity for application of the principles of economics to the study of the environment from an economic perspective. It is designed for students with or without a background in economics. The course in its onset provides a review of the principles of economics and then moves forward to provide relevant discussions for application of such principles at a more advanced level to contribute towards finding solutions for some of the existing problems in managing our environmental resources efficiently.

ECON 416. International Economics. (4).
Includes theories of international trade and finance, comparative advantage, foreign exchange, capital movements and the impact of international currency speculation on economic performance. Prerequisite: ECON 203.

ECON 420. Economic Entepreneurship. (4).
A study of the entrepreneurial approach to business development that covers venture initiation and management. Consideration is given to concept development and marketing for business plan formulation. Recommended prerequisites: BUS 252, junior standing.

ECON 421. Advanced Statistics. (4).
Decision making using estimation techniques and tests of hypotheses and the use of advanced statistical techniques in solving problems of prediction. Prerequisite: ECON 312.

ECON 445. Research Methods - Capstone. (4).
Focuses on the application of scientific research methods to problems in marketing, management and business economics. Topics include research design and methods, sample size and sampling techniques, questionnaire design and data analysis and interpretation.

ECON 450. Econometrics. (4).
Econometrics is concerned with how to learn from economic data. Econometric techniques are increasingly used in business, government and academic setting to analyze markets, create forecasts based on past data, study the impact of economic policies, and test economic theories. The objective of this course is to provide the necessary tools to critically evaluate econometric models and to prepare students for empirical work in economics. The course will focus in some details on the linear regression model and the statistical theory behind it. Students will be provided with the opportunity to use actual economic data. Prerequisite: ECON 311.

ECON 460. Economic Development. (4).
A study of the theory and application of economic development to Third World countries. Consideration is given to the effect of the policies of major multinational economic institutions on developing economies. Prerequisite: ECON 203.

ECON 465. Global Political Economy. (4).
This course introduces some of the fundamental relationships between politics and economics, on both the domestic and international levels. Its purpose is to examine how these two aspects of human behavior are mutually dependent.

ECON 470. Research Methods-Capstone. (4).
Focuses on the application of scientific research methods to problems in marketing, management and business economics. Topics include research design and methods, sample size and sampling techniques, questionnaire design and data analysis and interpretation. Prerequisites: ECON-406, ECON-411, ECON-450.

ECON 482. Selected Topics. (1-4).

ECON 482C. ST: Select Topic (core). (1-4).
Select Topic approved for core requirement.

ECON 490. Independent Study. (1-4).

ECON 492. Internship. (1-4).

ECON 496. Directed Research. (1-3).

ECON 497. Honors Thesis. (4).

Education

(non major/minor)

Elementary Teachers (Undergraduate)

See Liberal Studies in Education (p. 192)

Prospective elementary school teachers are able to begin their preparation at Cal Lutheran by majoring in Liberal Studies in Education. The program provides students with the educational breadth and depth necessary to enter teacher credentialing programs at the graduate level and eventually teach in today's K-12 classroom. A collaborative endeavor between the College of Arts and Sciences and the Graduate School of Education, the Liberal Studies in Education program requires that students take courses from ten departments including English, Math, Science, History, Philosophy, Physical Education, Music, Art, Theatre Arts and Education. Most of the required courses are designed with the prospective elementary teacher in mind. Students also engage in in-depth study in a selected discipline as part of the program. The Liberal Studies in Education major provides students with approximately 200 hours of field work in local school where students are able to apply skills and strategies acquired in their studies. Our students are introduced to California's Teacher Performance Expectations and leave our program well equipped with the knowledge and experience necessary for success in graduate level teacher education.

Secondary Teachers (Undergraduate)

Prospective secondary school teachers are able to begin their preparation at Cal Lutheran by majoring in the subject matter they want to teach (Math, Natural Sciences, Social Sciences, English, Exercise Science, Foreign Languages, Music and Art). The program provides students with the educational breadth and depth necessary to enter teacher credentialing programs at the graduate level and eventually teach in today's 7-12 classroom.

Graduate Programs/Credential Programs

See Graduate School of Education (http://catalog.callutheran.edu/grad/graduateschoolofeducation/)

English

Cal Lutheran’s English Department faculty maintain a high level of instructional integrity, involve themselves with their students in first year writing through upper division courses, and encourage students to present their research and creative work at local, regional, and national undergraduate conferences.

The English curriculum sharpens critical thinking, reading, and communication skills and promotes an appreciation for literature, making English an ideal major for students interested in careers that require these skills. Our majors enter a broad range of fields, including teaching, law, business leadership, nonprofit development, political advocacy, publishing and content development, public relations, marketing and advertising, film, new media, the ministry, and library and information science.

Students can compete for paid positions that offer opportunities to build teaching and leadership skills and gain insight into the learning process. These include departmental assistantships, internships, Writing Center tutors, and Editor-in-Chief and Assistant Editor of the award-winning Morning Glory literary magazine. Students may also compete for annual writing prizes in creative and critical writing: the Mark Van Doren Prize for poetry, the Jack Ledbetter Prize for fiction, non-fiction, and drama, the Sig Schwarz Prize in literary criticism, the Koa prize for best English 111 essay, and the Plumeria Prize for best Morning Glory submission.

Bachelor of Arts in English

Students should consult with their advisors to identify the courses appropriate for their goals.

Option 1 The Traditional English Major

40 credits beyond ENGL 111, at least 24 credits of which must be upper division.
Required Courses:

ENGL 201	Introduction to Literary Study	4
ENGL 301	Academic Research and Writing	4
ENGL 314	English Language and Linguistics	4
Any three of the following four sequenced courses:		12
ENGL 323	English Literature I	
ENGL 324	English Literature II	
ENGL 325	American Literature I	
ENGL 326	American Literature II	
ENGL 452	Shakespeare	4
ENGL 480	English Major Capstone Colloquium [1]	2
Ten units of English electives to meet the 40 unit minimum		10

[1] To fulfill the integrated studies requirement of Core- 21, all senior English majors are required to take the Capstone Course ENGL 480 in the form of a two-unit seminar, which culminates in the completion of a senior project. ENGL 301 is a prerequisite for ENGL 480.

Option 2 The Contract Major in English

Contract Major - 40 credits beyond ENGL 111 as a minimum, at least 24 credits of which must be upper division.
Required Courses:

ENGL 301	Academic Research and Writing	4
ENGL 480	English Major Capstone Colloquium	2
Specific Program of courses [1]		34
Total Hours		**40**

[1] A specific program of courses are developed and justified with the advice and consent of an advisor in the department, and must be approved by the department chair.

Option 3 The English Major with a Concentration in Writing

Required Courses (22 units):

ENGL 201	Introduction to Literary Study	4
ENGL 202	Introduction to Creative Writing	4
ENGL 301	Academic Research and Writing	4
ENGL 314	English Language and Linguistics	4
ENGL 452	Shakespeare	4
ENGL 480	English Major Capstone Colloquium	2
Any three of the following four courses (12 units):		
ENGL 323	English Literature I	4
ENGL 324	English Literature II	4
ENGL 325	American Literature I	4
ENGL 326	American Literature II	4
A total of 15-16 units from any of the following courses: [1]		15-16
ENGL 302	Creative Writing: Fiction	4
ENGL 303	Creative Writing: Poetry,	4,
ENGL 304	Creative Writing: Creative Nonfiction	4
ENGL 305	Playwriting,	4,
ENGL 306	Course ENGL 306 Not Found	
ENGL 307		

ENGL 319	Multimedia Presentations	3
COMM 231	Media Writing	4
COMM 431	Working on the Echo	2
FILM 306	Screenwriting	3

[1] Majors may take writing courses from this series as part of the fulfillment of both their major requirements and their writing concentration.

Option 4 The English Major for Future Single Subject Teachers

Students who plan to become English teachers in grades 7-12 in California are encouraged to take and pass the required California Basic Educational Skills Test (CBEST) by their senior year. They are also encouraged to choose the Option 4 English major, which best prepares them to pass the California Subject Examination for Teachers (CSET) in English.

65 credits beyond ENGL 111, including a comprehensive program of courses in four different domains: literature and textual analysis; composition and rhetoric; langauge, linguistics and literacy; and communications, speech and media. Three graduate Education courses are also included and may be taken in the senior year. Students should confer with their advisors and with the English Department Chair about the Option 4 Single Subject matter curriculum.

English Subject Matter Credential

Students interested in the teaching of English should confer with the chair of the English Department for information about the English subject matter program. (See Education)

Minor in English

20 credits beyond ENGL 111 , 12 credits of which must be upper division. Students are encouraged to design their own minor to suit their intellectual and/or professional interests (with advisor consent and department chair approval).

Students who intend to teach at a secondary level and who want an English minor are advised to take the following courses:

ENGL 312	The Teaching of Writing	3
ENGL 314	English Language and Linguistics	4
ENGL 323	English Literature I	4
or ENGL 324	English Literature II	
ENGL 325	American Literature I	4
or ENGL 326	American Literature II	
Elective Courses		5
Total Hours		**20**

Minor in Creative Writing

19 credits beyond ENGL 111, 15 of which must be upper division.

ENGL 202	Introduction to Creative Writing	4
Take 15 credits from the following:		
ENGL 302	Creative Writing: Fiction	4
ENGL 303	Creative Writing: Poetry	4
ENGL 304	Creative Writing: Creative Nonfiction	4
ENGL 305	Playwriting	4
FILM 306	Screenwriting	3

Minor in TESOL

(Teaching English to Speakers of Other Languages)

20 credits beyond ENGL 111.

ENGL 315	Teaching English Speakers Other Lang	3
or		

ENGL 318	Writing Center Theory and Practice	3
Required		
ENGL 314	English Language and Linguistics	4
ENGL 316	First and Second Language Acquisition	4
ENGL 492	Internship	1-4
IES 402	Theories of Teaching and Learning	4
EDLT 502	Teaching English Learners & Diverse Pop	3

Courses

Lower Division

ENGL 110. Critical Reading and Writing I. (3).
English 110 introduces students to the reading, writing, and critical thinking practices required to succeed at the college level and beyond. Instruction emphasizes writing as a process of drafting, peer review, and revision. Writing assignments emphasize the synthesis and analysis sources, and the development of original arguments. This course is required as a prerequisite for ENGL 111.

ENGL 110I. Critical Reading/Writing Int'l Students. (3).
An introduction to college level writing in the American system for international students only. This course emphasizes the skills needed to draft academic papers, including analyzing source materials, understanding rhetorical strategies, developing arguments, and mastering writing conventions.

ENGL 111. Critical Reading and Writing II. (3).
English 111 offers continued practice with college-level reading, writing, and critical thinking practices and beyond, with individual sections organized around themes or topics. Instruction emphasizes writing as a process of drafting, peer review, and revision. Writing assignments emphasize the synthesis and analysis sources, and the development of original arguments. Recent English 111 course topics include the Vietnam War in Literature, Deviance in Literature, and Writing in (Urban) Space. English 111 is a prerequisite for all other English courses and a requirement for graduation, therefore it should be taken during the first year of enrollment. Prerequisite: ENGL 110.

ENGL 201. Introduction to Literary Study. (4).
This course introduces students to the formal literary terms, critical reading skills, analytical tools, and interpretive strategies specific to the discipline of literary study. Students read, write about, research, and present on important texts by writers working in several different genres, including fiction, poetry, and drama. Recommended for English majors by the sophomore year.

ENGL 202. Introduction to Creative Writing. (4).
English 202 explores the creative literary genres through reading, responding to, and writing poetry, fiction, nonfiction and drama. Students will develop their creative writing skills by practicing imagery, metaphor, voice, character, setting, and narrative, and cultivate a greater awareness of language and literary traditions, conventions, and innovations.

ENGL 211. Classical Literature. (4).
This course may include works from ancient Greek and Roman literatures and other literatures that draw heavily from classical traditions. Prerequisite: ENGL 111.

ENGL 213. Literature of the Americas. (4).
The course focuses on works from one or more of the many literatures of the Americas: Canadian, Caribbean, Native American, Central American, or any of the many minority and/or immigrant literatures of the United States. Prerequisite: ENGL 111.

ENGL 214. Contemporary American Authors. (4).
An introduction to selected writers from the Americas whose works help us understand ourselves culturally, socially, and intellectually in relation to our contemporary world. Prerequisite: ENGL 111.

ENGL 215. Literature of the California & the West. (4).
This course introduces students to California and the American West's multi-ethnic past, present, and future through an examination of a variety of literary genres and traditions. Our readings will explore how the human experience in California and the West, as reflected in literature, has been shaped by factors such as indigenous knowledge and traditions, colonialism, migration and immigration, labor, land-use history, environment and geography, the border, displacement, dispossession, and genocide. The course satisfies the Core-21 Literature and U.S. Diversity requirements.

ENGL 216. Environmental Literature. (4).
This course explores environmental writing across a range of genres: the essay, memoir, fiction, drama, and poetry. The course may focus on literature in relation to one or more environmental movements or issues such as deep ecology, wildlife management, or environmental justice. Prerequisite: ENGL 111.

ENGL 217. Science and Literature. (4).
This course takes a multi-disciplinary approach to the study of literature to explore the relationship of literature to science. While the course broadly emphasizes ways in which knowledge and language in the sciences and the humanities intersect, specific courses topics will vary. Topics might include: Literature of Scientific Revolutions; The Science of Science Fiction, Evolution and Narrative, Cognitive Science and the Poetry of Mind. Prerequisite: ENGL 111.

ENGL 260. Topics in World Literature. (4).
An introduction to the literary traditions of one or more world cultures. Examples of course topics include Contemporary Chinese Literature, India in Fiction and Film, and the Literatures of the Pacific Rim. Prerequisite: ENGL 111 (cross-listed with PHIL 260).

ENGL 282C. ST: Select Topic core. (1-4).
Select Topic approved for core requirement.

Upper Division

ENGL 301. Academic Research and Writing. (4).
This academic research and writing workshop in literary studies is a prerequisite for ENGL 480, the Major Capstone Colloquium. ENGL 301 focuses on research techniques, textual analysis, the synthesizing of literary scholarship, and effective argumentative writing in the discipline.

ENGL 302. Creative Writing: Fiction. (4).
Fiction writing workshop with an emphasis on skills: crafting plot, developing character, and evoking setting. Students will complete one or more short stories. Prerequisite: ENGL 111. Recommended: ENGL 202.

ENGL 303. Creative Writing: Poetry. (4).
This poetry workshop will instruct students on different approaches to reading poems, and teach the forms and elements of poetry through observation and practice. Students will read and write poems in a variety of forms such as the elegy, ghazal, haiku, sonnet and ode, as well as poems that explore repetition, persona, and voice. Prerequisite: ENGL 111. Recommended: ENGL 202.

ENGL 304. Creative Writing: Creative Nonfiction. (4).
This workshop will explore the evolving genre of creative nonfiction. This course will provide instruction and practice in reading creative nonfiction in some of its many forms. Writing assignments will include a range of essays such as the personal essay, lyric essay, and literary journalism. Prerequisite: ENGL 111. Recommended: ENGL 202.

ENGL 305. Playwriting. (4).
This workshop course focuses on developing playwriting skills, with an emphasis on mastering plot, character, and dialogue development. Students will write and revise an original play (cross-listed with TA 305). Prerequisite: ENGL 111. Recommended: ENGL 202.

ENGL 312. The Teaching of Writing. (3).
This course explores the cultural context of the teaching of writing in grades K-12. By working on collaborative class projects, students investigate major theories in composition and creatively apply them to different classroom scenarios. This course is required for all Liberal Studies in Education majors and recommended for those who plan to teach at any level. Prerequisite: junior or senior standing.

ENGL 314. English Language and Linguistics. (4).
This course is an introduction to the linguistic theories of the English language, including studies in phonology, morphology, and syntax, with particular emphasis on syntactic analyses. Prerequisite: ENGL 111 and junior or senior standing.

ENGL 315. Teaching English Speakers Other Lang. (3).
This course, Teaching English to Speakers of Other Languages, offers a foundation in the approaches, methods, and materials for the teaching of English as a second language from the perspectives of Applied Linguistics research. This course begins by discussing diversity in America and the legal rights of English Language Learners (ELLs) in the United States, then reviewing the history and basic concepts pertaining to the field of TESOL, and ends with the writing of a teaching philosophy and a critical review of currently available teaching materials in light of current TESOL curriculum research and theory. This course will provide a foundation for the TESOL minor in English as well as a solid introduction to the field for prospective teachers of English language learners in U.S. school systems or abroad.

ENGL 316. First and Second Language Acquisition. (4).
An introduction to the processes by which children acquire language and adults learn second languages. Special attention is given to the practical application of linguistic theories of language acquisition to teaching and tutoring. This class is recommended for students who plan to be teachers or to tutor in the CLU Writing Center. Prerequisite: ENGL 111 and junior or senior standing.

ENGL 318. Writing Center Theory and Practice. (3).
Based on Writing Center scholarship, the The course draws from various fields - composition studies, intercultural rhetoric, second language writing, sociolinguistics, sociolinguistics and writing center studies - that provide theoretical and pedagogical frameworks for teaching and tutoring in a increasingly global English-using academic sphere. Students will gain an understanding of various teaching and tutoring methods, approaches, and philosophies, as well as a critical understanding of their own writing processes. The course focuses on the practical components of writing center work and how these methods can be applied to college settings, as well as middle school, high school, and community settings. In particular, this course will train students to tutor writing in the University Writing Center, as well as other tutoring spaces across campus and the community where they work with diverse writers. Required for all Writing Center Tutors.

ENGL 319. Multimedia Presentations. (3).
This course teaches research and presentation methods as well as basic Web design principles and online posting. Students integrate research, Web design and presentation skills to create several small projects and one major project, all of which are presented and critiqued by the class and the instructor.

ENGL 323. English Literature I. (4).
This course explores the major themes and social contexts of English literature from its emergence through the eigteenth century. Prerequisite: ENGL 111.

ENGL 324. English Literature II. (4).
This course explores the major themes and social contexts of English literature from the Romantic through the Victorian era to the present day. Prerequisite: ENGL 111.

ENGL 325. American Literature I. (4).
This course traces the intellectual and social influences upon the literature of what will become the United States of America, from the arrival of a colonial new world, through its growth into an independent country, up to the eve of the Civil War. Prerequisite: ENGL 111.

ENGL 326. American Literature II. (4).
This course focuses on the intellectual and social influences on the literature of the United States from the Civil War through the 20th century, with an emphasis on the impact of realism and modernism on the literary imagination. Prerequisite: ENGL 111.

ENGL 330. Film Studies. (4).
This course provides a solid grounding in the major elements of film, including genre, narrative, acting, design, cinematography, sound, and editing. Students will become critically informed viewers able to understand and analyze film or to pursue additional studies in film history or film theory. This course does not meet the literature requirement. (cross-listed with COMM 330). Prerequisite: ENGL 111.

ENGL 335. Children's Literature. (3).
A cultural approach to children's literature through its history, major writers, genres, and themes. This course does not satisfy the Core requirement in literature, but it is required for the Liberal Studies in Education majors and recommended for students who have a strong interest in working with children. Prerequisite: junior or senior standing.

ENGL 341. Studies in the Novel. (4).
This course may take various approaches to the genre: a thematic approach (Politics and the Novel, Desire and Sexuality in the Novel); a subgenre approach (The Epistolary Novel, The Detective Novel); or an historical approach that includes relevant theoretical aspects of its development (History of the Novel, The Post-modern Novel).

ENGL 342. History of Theatre and Drama I. (4).
This course is the first half of a two semester historical survey sequence that provides students with a solid grounding in the development of theatre and drama from the ancient Greeks to the present. Prerequisite: ENGL 111 (cross-listed with TA 342).

ENGL 343. History of Theatre and Drama II. (4).
This course is the second half of a two semester historical survey sequence that provides students with a solid grounding in the development of theatre and drama from the ancient Greeks to the present. Prerequisite: ENGL 111 (cross-listed with TA 343).

ENGL 346. Studies in Poetry. (4).
This course explores a theme, genre, or movement in poetry such as the sonnet, political poetry, or post World War II poetry.

ENGL 350. Studies in African-American Literature. (4).
With an emphasis on literary works by African-American writers, this course explores race in the American context. Each semester offers a different focus based on culture, genre, or theme. For example: Race and Ethnicity in the 19th Century, Modernism and the Harlem Renaissance, or Representations of Race in African-American Literature. Prerequisite: ENGL 111.

ENGL 353. Gender and Literature: U.S. Diversity. (4).
This course will focus on the literary methods of gender analysis, historical analysis, and reader response as three lenses among many through which to deepen your understanding of literature; and will apply these tools to several texts, both historical and contemporary, in which the social categories of gender, sexuality, race and class are of principal concern. Through reading, discussing, and writing about these texts, you will gain a greater awareness of particular issues that have been, and remain, important, if often controversial, in our understanding of identity categories in our culture, and a greater appreciation of the role of literature in shaping them.

ENGL 355. Post-Colonial Studies in Literature. (4).
This course examines literature in the context of colonialism and imperialism. "Postcolonial" refers both to the former colonies of European and American imperial powers, such as Africa, the Caribbean, India, Ireland and the Philippines, as well as to a mode of reading literature that studies the consequences of colonization and decolonization. Course texts, which may include fiction, nonfiction, poetry and/or drama by writers from current and former colonized countries, will be studies with attention to hybrid identity, race, gender, and language.

ENGL 360. The Holocaust in Literature and Film. (4).
A study of the legislated and systematic extermination of Europe's Jews and other targeted groups by the Nazis. Through representative literature, the course addresses some of the complex religious, philosophical, and psychological issues this event raises. The course uses film and guest speakers to further reveal the genesis and consequences of human intolerance in its extremes. Prerequisite: ENGL 111 and sophomore standing.

ENGL 361. Contemporary Chicano Literature. (4).
Intended as a basic exploration of the literature of the Chicano people. This representative synthesis covers the principal genres of poetry, theatre, the novel, the short story, and the essay. An historical framework establishes the different periods of Chicano creativity from its origins in the pre-1960s prior to the Chicano movement, through the Civil Rights movement of the early 1960s and to contemporary times. Note: This class is offered in English and is not for Spanish credit (cross-listed with SPAN 361).

ENGL 451. Studies in Chaucer. (4).
A study of Chaucer's major works, with attention to the cultural and literary background and language of the period. (Maximum class size 20).

ENGL 452. Shakespeare. (4).
A study of selected works of Shakespeare, with attention to theatrical, cultural and literary background. Prerequisite: ENGL 111. Recommended ENGL 201. (cross-listed with TA 452).

ENGL 455. Major American Authors. (4).
A study of works of one or more major American writers, with attention to the intellectual and cultural background and the literary contributions of each writer. Examples of recent course topics include "Julia Alvarez and Toni Morrison," "Ernest Hemingway and Edith Wharton," and "David Mamet and August Wilson." Prerequisite: ENGL 111.

ENGL 457. Major European Authors. (4).
This course focuses on the works of one or more European authors with attention to the cultural environment in which they wrote and the influence of their writing on later artists. Examples of authors who may be chosen for this class include Dante, Flaubert, Lorca, Tolstoy, and Strindberg. (Maximum class size 20). Prerequisite: ENGL 111.

ENGL 470. Literary Criticism and Theory. (4).
Exploring the development of theories in Western literary criticism from Plato to the present, this course examines the major influences that have contributed to our collective understanding of what it means to read and write literature.

ENGL 472. Interdisciplinary Studies in Literature. (4).
This course approaches literature in relation to another field such as history, fine art or religion and may be cross-listed in that department. Examples include Modernist Salon Culture, American Print Culture, and The Bible as Literature.

ENGL 480. English Major Capstone Colloquium. (2).
This course is required for majors and should be taken in the fall of senior year. Students will research and write an original work of literary scholarship or complete a polished creative writing project. Students who wish to pursue a creative project should have taken a creative writing course in the genre they wish to write before enrolling in the Capstone. The Capstone represents the culmination of the major, and as such the Capstone projects are presented to the public every spring. Prerequisites: ENGL 111 and ENGL 301.

ENGL 482. Selected Topics. (1-4).
(May be taken more than once).

ENGL 482C. ST: Select Topic. (1-4).
Select Topic approved for core requirement.

ENGL 485. Travel Seminar: Magical Britain. (1-4).
Magical Britain is an interdisciplinary course that introduces students to the history, culture and literature of the island of Great Britain through the oldest continually developing literary tradition in the English language: the Arthurian legends. In studying this corpus, students will come to understand Britain as a palimpsest: an island landscape of successive cultures in which the legends of Arthur have been avidly reimagined and shared up to the present day. Prerequisite: ENGL 111.

ENGL 490. Independent Study. (1-4).

ENGL 492. Internship. (1-4).
(graded P/NC only).

ENGL 496. Directed Research. (1-3).

Ethnic and Race Studies

The Ethnic and Race Studies program employs high-quality interdisciplinary scholarship to encourage critical discussion and gain deeper understanding of communities of color in the United States. Engagement with content and theory about ethnically and racially diverse communities will help students develop critical thinking skills and perspectives, expand their comfort level with civic engagement, and build cultural competence in working with diverse groups. The Ethnic and Race Studies program is academically rigorous, methodologically inclusive, interdisciplinary, and engages in critical inquiry of experiences of racial and ethnic groups in the United States.

The major is 35 credits minimum, 28 credits upper division.

Required for Major:		
ERS 101	Introduction to Ethnic and Race Studies	4
ERS 401	Ethnic and Race Studies Seminar	4
Elective Credits		
Electives credits must be taken at least from 3 different disciplines		
ART 105	American Art	4
CRIM 430	Gender, Race, Ethnicity and Crime	4
ENGL 350	Studies in African-American Literature	4
ENGL 353	Gender and Literature: U.S. Diversity	4
ENGL 361	Contemporary Chicano Literature	4

or SPAN 361	Contemporary Chicano Literature	
HIST 326	Civil War: Slavery to Civil Rights	4
POLS 210	Multiculturalism, Race & Politics in U.S	4
POLS 413	Music and the Civil Rights Movement	4
RLTH 378	Asian Religions in the United States	4
SOC 200	Sexuality and Society	4
or SOC 300	Sexuality and Society	
SOC 204	American Indian Studies	4
SOC 210	Introduction to Gender Studies	4
or WOMS 210	Introduction to Gender Studies	
SOC 318	Immigration in the Global Age	4
SOC 360	Racial and Ethnic Relations	4
TA 101	Introduction to the Theatre Arts	4

Courses

Lower Division

ERS 101. Introduction to Ethnic and Race Studies. (4).
This introductory Ethnic Studies class draws upon interdisciplinary approaches to understand and problematize the study of race and ethnicity in the United States. The class will discuss the social construction of race and ethnicity coupled with the intersectionality of identify and positionality across race, class, gender and sexuality.

Upper Division

ERS 401. Ethnic and Race Studies Seminar. (4).
Seminar discussions are designed to synthesize and assess knowledge in Ethnic Studies courses. Field work is required to apply theories and concepts to everyday experiences of people of color.

Ethnic Studies (minor)

The minor in ethnic studies is based on the belief that the concerns of diverse communities and multicultural studies are important components of a comprehensive education. Ethnic studies is the study of the cultural, political, social and historical forces that shaped the multicultural landscape of the United States. The ethnic studies minor seeks to educate students to be culturally versatile, which is invaluable in an increasingly diverse nation and world. The ethnic studies minor is also designed to enhance skills in critical thinking, comparative analysis and written expression. The minor integrates several disciplines into the overall definitional, conceptual and practical frameworks of diversity and multiculturalism.

The ethnic studies minor offers an education that is beneficial for those considering admission to graduate schools, as well as careers in education, law, business, politics and international relations. This is an interdisciplinary minor that allows the student to accomplish the goals of the minor from social science, artistic and humanities perspectives.

Minor in Ethnic and Race Studies

19 credits minimum, 12 credits upper division.

Required for Minor:		19
ERS 101	Introduction to Ethnic and Race Studies	4
Elective Credits		
Electives credits must be taken at least from two different discplines.		
ART 105	American Art	4
CRIM 430	Gender, Race, Ethnicity and Crime	4
ENGL 350	Studies in African-American Literature	4
ENGL 353	Gender and Literature: U.S. Diversity	4
ENGL 361	Contemporary Chicano Literature	4
SPAN 361	Contemporary Chicano Literature	
HIST 326	Civil War: Slavery to Civil Rights	4
POLS 210	Multiculturalism, Race & Politics in U.S	4
POLS 413	Music and the Civil Rights Movement	4
RLTH 378	Asian Religions in the United States	4
SOC 200	Sexuality and Society	4

SOC 300	Sexuality and Society	
SOC 204	Course SOC 204 Not Found	4
SOC 210	Introduction to Gender Studies	4
WOMS 210	Introduction to Gender Studies	
SOC 318	Immigration in the Global Age	4
SOC 360	Racial and Ethnic Relations	4
TA 101	Introduction to the Theatre Arts	4

Exercise Science

The Exercise Science Department is an interdisciplinary program that prepares students for allied health, human movement, and physical education career opportunities. Coursework in the major that contributes to the understanding of human movement includes:

- Biomechanics
- Exercise Physiology
- Motor Learning and Development
- Nutrition

The program is augmented by foundational courses in:

- Anatomy
- Physiology
- Psychology
- Biology
- Chemistry
- Physics

Many of the careers associated with a degree in exercise science require additional education, certification, or licensure beyond an undergraduate degree. As such, upon graduation, students are prepared to enter additional educational programs in:

- Medicine
- Physical Therapy
- Athletic Training/Sports Medicine
- Exercise Physiology
- Biomechanics
- Fitness Management
- Nutrition
- Teaching Physical Education
- Other Health and Movement Related Fields

Bachelor of Science in Exercise Science

The Exercise Science Department offers three emphasis areas for the Bachelor of Science degree:

1. Health Professions
2. Human Performance
3. Pedagogy/Teaching Physical Education

The Exercise Science Department emphasizes a “hands on” approach to learning with laboratory experiences for many of its courses. In addition, the Department is committed to undergraduate research as a key element of the academic experience. Students are exposed to research throughout the program, culminating in an independent research project in their terminal experience. Students are encouraged to participate in internships and volunteer throughout the community in venues relating to their particular emphasis and future professional aspirations.

Course Requirements by Emphasis Area

Health Professions

66-69 credits minimum, 26-28 credits upper division.

EXSC 201/201L	Functional Anatomy and Functional Anatomy Lab [1]	4
EXSC 202/202L	Exercise Physiology and Exercise Physiology Lab [1]	4
EXSC 301/301L	Biomechanics and Biomechanics Lab	4
EXSC 302	Motor Development Across a Life Span	4
EXSC 494	Capstone	2
BIOL 120	Introduction to Ecology and Populations	3
BIOL 121	Introduction to Cells and Organisms	3
BIOL 123L	Intro Biol Experimentation I	2
BIOL 124L	Intro Biol Experimentation II	2
CHEM 151	General Chemistry	4
CHEM 151L	General Chemistry Lab	1
CHEM 152	General Chemistry II	4
CHEM 152L	General Chemistry II Lab	1
Select one of the following:		4-5
PHYS 201/201L	Mechanics and Thermodynamics-Algebra and Mechanics and Thermodynamics- Lab	
PHYS 211/211L	Mechanics and Thermodynamics-Calculus and Mechanics and Thermodynamics-Lab	
Select one of the following:		4-5
PHYS 202/202L	Electricity, Magnetism, Optics -Algebra and Electricity, Magnetism, Optics - Lab	
PHYS 212/212L	Electricity, Magnetism, and Optics - and Electricity, Magnetism Optics Lab (Select one of the following:)	
PSYC 222	Abnormal Psychology	4
EXSC 300	Exercise Prescription	3
EXSC 325	Stats & Research Methods Exsc Science	4
Take 7 to 8 Credits *		8
BIOL 361/361L	Microbiology and Microbiology Lab	
CHEM 331/341	Organic Chemistry and Organic Chemistry Lab	
CHEM 425/425L	Biochemistry and Biochemistry Lab	
EXSC 340	Motor Learning and Control	
EXSC 401/401L	Advanced Biomechanics and Advanced Biomechanics Lab	
EXSC 470/470L	Advanced Exercise Physiology and Advanced Exercise Physiology Lab	
EXSC 487	Clinical Exercise Prescription	
PSYC 304	Child and Adolescent Development	
PSYC 305	Adult Development and Aging	
PSYC 331	Physiological Psychology	
EXSC 303	Nutrition	3
EXSC 461	Exercise Psychology	4
Total Hours		**72-74**

* Two additional courses chosen in consultation with an adviser.

Required Supporting Courses

Support courses are those courses from outside the department that fulfill foundational knowledge requirements (prerequisites) for students in Exercise Science.

BIOL 223/223L	Human Anatomy and Human Anatomy Lab	4
BIOL 224/224L	Human Physiology and Human Physiology Lab	4
PSYC 200	General Psychology	4
Total Hours		**12**

[1] BIOL 223 and BIOL 224 (Anatomy and Physiology) are prerequisites for EXSC 201 (Functional Anatomy) and EXSC 202 (Exercise Physiology). Students are advised to take Anatomy and Physiology as early as possible in their course sequence.

Human Performance

60 credits minimum, 38 credits upper division.

EXSC 201/201L	Functional Anatomy and Functional Anatomy Lab [1]	4
EXSC 202/202L	Exercise Physiology and Exercise Physiology Lab [1]	4
EXSC 301/301L	Biomechanics and Biomechanics Lab	4
EXSC 302	Motor Development Across a Life Span	4
EXSC 494	Capstone	2
EXSC 300	Exercise Prescription	3
EXSC 303	Nutrition	4
EXSC 325	Stats & Research Methods Exsc Science	4
EXSC 340	Motor Learning and Control	4
EXSC 401/401L	Advanced Biomechanics and Advanced Biomechanics Lab	4
EXSC 470/470L	Advanced Exercise Physiology and Advanced Exercise Physiology Lab	4
EXSC 487	Clinical Exercise Prescription	3
EXSC 461	Exercise Psychology	4
CHEM 151	General Chemistry	4
CHEM 151L	General Chemistry Lab	1
CHEM 152	General Chemistry II	4
CHEM 152L	General Chemistry II Lab	1
Select one of the following:		4-5
PHYS 201/201L	Mechanics and Thermodynamics-Algebra and Mechanics and Thermodynamics- Lab	
PHYS 211/211L	Mechanics and Thermodynamics-Calculus and Mechanics and Thermodynamics-Lab	
Total Hours		**62-63**

Required Supporting Courses

Support courses are those courses from outside the department that fulfill foundational knowledge requirements (prerequisites) for students in Exercise Science.

BIOL 223/223L	Human Anatomy and Human Anatomy Lab	4
BIOL 224/224L	Human Physiology and Human Physiology Lab	4
MATH 151	Precalculus	4
PSYC 200	General Psychology	4
Total Hours		**16**

[1] BIOL 223 and BIOL 224 (Anatomy and Physiology) are prerequisites for EXSC 201 (Functional Anatomy) and EXSC 202 (Exercise Physiology). Students are advised to take Anatomy and Physiology as early as possible in their course sequence.

Pedagogy/Teaching

59 credits minimum, 38 credits upper division.

EXSC 201/201L	Functional Anatomy and Functional Anatomy Lab [1]	4
EXSC 202/202L	Exercise Physiology and Exercise Physiology Lab [1]	4
EXSC 301/301L	Biomechanics and Biomechanics Lab	4
EXSC 302	Motor Development Across a Life Span	3
EXSC 494	Capstone	2
EXSC 203	Prevention and Care of Athletic Injuries	3
EXSC 251	Individual & Dual Sports & Activities	2
EXSC 252	Team Sports	2
EXSC 253	Aquatic and Rhythmic Activities	2
EXSC 254	Combative and Outdoor Activities	2
EXSC 300	Exercise Prescription	3
EXSC 352	Adaptive Physical Education	3
EXSC 353	Field Observations	2
EXSC 354	Elementary School Physical Education	4
EXSC 355	Secondary School Physical Education	4
EXSC 450	History & Principles Physical Education	3

EXSC 451	Organization and Administration	3
EXSC 325	Stats & Research Methods Exsc Science	4
EXSC 461	Exercise Psychology	4
Activity Courses *		2
Total Hours		**60**

* A minimum of two activity courses for this emphasis must be taken.

Required Supporting Courses

Support courses are those courses from outside the department that fulfill foundational knowledge requirements (prerequisites) for students in Exercies Science.

BIOL 223/223L	Human Anatomy and Human Anatomy Lab	4
BIOL 224/224L	Human Physiology and Human Physiology Lab	4
PSYC 200	General Psychology	4
Total Hours		**12**

[1] BIOL 223 and BIOL 224 (Anatomy and Physiology) are prerequisites for EXSC 201 (Functional Anatomy) and EXSC 202 (Exercise Physiology). Students are advised to take Anatomy and Physiology as early as possible in their course sequence.

Activity Courses

Lower Division

ACTV 102. Badminton. (1).

ACTV 103. Fundamentals of Basketball. (1).

ACTV 104. Golf. (1).

ACTV 105. Tennis I. (1).

ACTV 107. Volleyball. (1).

ACTV 111. Physical Fitness, Health & Wellness. (1).

ACTV 112. Alexander Technique. (1-2).
Introduces students to the principles of the Alexander Technique and the application of these principles in their major areas. The principles develop increased mind and body coordination and are most commonly applied to acting, singing, public speaking, musical instrument performance and athletic performance. (cross-listed with TA 112).

ACTV 120. Aerobic Dance. (1).

ACTV 121. Folk and Square Dance. (1).

ACTV 122. Modern Dance I. (1).

ACTV 123. Modern Dance II. (1).

ACTV 124. Polynesian Dance. (1).

ACTV 125. Swing Dance. (1).

ACTV 126. Ballroom Dance. (1).

ACTV 127. Ballet. (1).

ACTV 130. Tap Dance. (1).

ACTV 140. Body Conditioning (women). (1).

ACTV 141. Body Conditioning (men). (1).

ACTV 142. Tai Chi. (1).

ACTV 143. Yoga. (1).

ACTV 144. Outdoor Skills. (1).
Designed to introduce outdoor adventure skills and activities to students. With the knowledge and skills developed through a variety of activities, students will then be able to use these skills outside of the classroom for their own personal leisure. The course includes skills in each activity that promote safety, proper equipment use and knowledge, leadership and specific technical skills for each activity.

ACTV 146. Jogging. (1).

ACTV 148. Tang Soo Do. (1).

ACTV 149. Swimming. (1).

ACTV 150. Self Defense and Assault Prevention. (1).

ACTV 151. Speed Development. (1).

ACTV 152. Advanced Body Conditioning. (1).

ACTV 182. Selected Topics. (1).

Upper Division

ACTV 312. Alexander Technique. (1-2).
Introduces students to the principles of the Alexander Technique and the application of these principles in their major areas. The principles develop increased mind and body coordination and are most commonly applied to acting, singing, public speaking, musical instrument performance and athletic performance. (cross-listed with TA 312 and MUS 312).

Athletic Team Courses

ATHL 160. Intercollegiate Baseball. (1).

ATHL 161. Intercollegiate Basketball. (1).

ATHL 163. Intercollegiate Cross Country. (1).

ATHL 164. Intercollegiate Football. (1).

ATHL 165. Intercollegiate Golf. (1).

ATHL 166. Intercollegiate Soccer. (1).

ATHL 167. Intercollegiate Softball. (1).

ATHL 168. Intercollegiate Tennis. (1).

ATHL 169. Intercollegiate Track & Field. (1).

ATHL 170. Intercollegiate Volleyball. (1).

ATHL 171. Intercollegiate Swimming & Diving. (1).

ATHL 172. Intercollegiate Water Polo-Men. (1).

ATHL 173. Intercollegiate Water Polo-Women. (1).

Exercise Science Courses

Lower Division

EXSC 180. Biophysical Foundations Human Movemt. (4).
This course provides an overview of the biophysical aspects of human movement that make up the knowledge base for the discipline of exercise science. Core anatomical, mechanical, physiological, and neural determinants of human movement and adaptation to human movement will be considered, along with how human physical activity contributes to health and physical performance. Course content will be supported by laboratory experiences that emphasize data collection, analysis and interpretation.

EXSC 180L. Biophysical Foundtn Human Movemt Lab. (0).

EXSC 201. Functional Anatomy. (4).
The anatomical basis of human motion. Development of the locomotor system from tissue structure and function to anatomical description of skeletal muscles and their interaction in producing coordinated movement. Mechanical aspects of movement at the skeletal and muscular level. Prerequisites: BIOL 223, BIOL 224; Corequisite: EXSC 201L.

EXSC 201L. Functional Anatomy Lab. (0).
Hands-on activities designed to enhance the understanding and learning of associated lecture topics. Corequisite: EXSC 201.

EXSC 202. Exercise Physiology. (4).
Structure, function and regulation of the physiological systems most important in exercise, physical education and sport settings. Emphasis is placed on muscular, metabolic, cardiovascular, nervous and endocrine systems. Prerequisites: BIOL 223, BIOL 224; Corequisite: EXSC 202L.

EXSC 202L. Exercise Physiology Lab. (0).
Will cover tests of exercise metabolism via oxygen uptake, muscle physiology and performance via electromyography and lactate production, anthropometry and body composition via standard anthropometric methods, resting and exercise respiration via standard spirometry and cardiovascular response to exercise via electrocardiography. Corequisite: EXSC 202.

EXSC 203. Prevention and Care of Athletic Injuries. (3).
Topics covered in this course include medical terminology, emergency medical techniques, basic injury mechanisms and an introduction to recognition and treatment of common athletic injuries. Experience will be gained in basic taping techniques. Prerequisites: BIOL 223 & BIOL 224.

EXSC 222. Coaching Football. (2).

EXSC 223. Coaching Golf. (2).

EXSC 224. Coaching Gymnastics. (2).

EXSC 225. Coaching Swimming and Diving. (2).

EXSC 226. Coaching Tennis. (2).

EXSC 227. Coaching Track and Field. (2).

EXSC 228. Coaching Volleyball. (2).

EXSC 251. Individual & Dual Sports & Activities. (2).
Studies knowledge and skills involved in playing and teaching individual and dual sports and encouraging participation in individual and dual exercise activities. Emphasis on teaching the skills involved in individual and dual sports and activities and motivating people to engage in a healthy and active lifestyle through exercise. Includes techniques for special populations, cultures and ethnicities.

EXSC 252. Team Sports. (2).
Studies the knowledge and skills required for playing and teaching team sports and games.

EXSC 253. Aquatic and Rhythmic Activities. (2).
This course focuses on teaching methodology for rhythmic activities, social dance, and aquatic activities. Specifically, students will learn the processes of skill development, analysis and evaluation of fundamental movements in dance and aquatics.

EXSC 254. Combative and Outdoor Activities. (2).
This course focuses on skill development, teaching methodology, analysis and evaluation of fundamental cycling, self-defense, and combative and outdoor education skills.

EXSC 282. Selected Topics. (1-4).

EXSC 282C. ST: Select Topic (core). (1-4).
Select Topic approved for core.

EXSC 282L. Selected Topic Lab. (1-4).

Upper Division

EXSC 300. Exercise Prescription. (4).
Design, implementation and evaluation of exercise and physical activity programs for all populations. Covers the scientific basis for exercise prescription, gender issues, ethnicity issues, children and older adult issues, and exercise prescription for sports. Emphasis involves the scientific application of training principles and safety to improve both health and physical fitness. Prerequisite: EXSC 201, EXSC 202.

EXSC 301. Biomechanics. (4).
Studies the mechanical basis of human motion based on Newtonian mechanics. Emphasis involves applying the laws of physics to sports and exercise. Corequisite: EXSC 301L. Prerequisite: EXSC 201.

EXSC 301L. Biomechanics Lab. (0).
Covers the physics of human movement. Study will be augmented by laboratory experiences using high speed video, electromyography, kinematic analysis via computer digitized skills, kinetic analysis via load cells and a force platform. Corequisite: EXSC 301.

EXSC 302. Motor Development Across a Life Span. (4).
Motor skills or movement skills provide much of the means of human interaction with the environment. Studies the interaction of motor skills and the environment through birth, infancy, childhood, adolescence, adulthood, middle adulthood and old age. Emphasis involves recognition and analysis of the sequence of skill landmarks throughout the life span.

EXSC 303/303. Nutrition. (4,4).
Studies the role of food in metabolism for enhancing exercise performance and the interaction of food types with energy production, growth, development and weight control. The course integrates data from chemistry, exercise physiology, biochemistry, medicine, and physiology. Cultural issues of food and the social implications of diet and nutrient intake are emphasized. Prerequisite: EXSC 202.

EXSC 325. Stats & Research Methods Exsc Science. (4).
The course will provide a strong basic knowledge of statistics commonly used in research in the exercise sciences. Understanding of appropriate research design will be covered. A strong emphasis on reading current literature and the application of statistics will be made. Prerequisite: MATH 151.

EXSC 340. Motor Learning and Control. (4).
This course will provide an introduction to clinical assessment of exercise, with particular focus on modalities. This course will examine the theoretical and clinical basis for the use of therapeutic modalities in clinical assessment. This course will provide knowledge regarding the scientific basis and physiological effects of various modalities, as well as knowledge of safe and appropriate use of modalities in clinical assessment. Prerequisite: EXSC 201, EXSC 202, EXSC 302.

EXSC 352. Adaptive Physical Education. (3).
Covers the theory and techniques of providing physical activity for special populations. Emphasis is on the interaction of physical/mental challenges and physical activity. Prerequisite: EXSC 251.

EXSC 353. Field Observations. (2).
Students will observe community teachers and students in real physical education settings. The students will perform systematic observation of student and teacher conduct and meet once each week to discuss their observations.

EXSC 354. Elementary School Physical Education. (4).
Covers the development of knowledge, skills and attitudes in traditional and nontraditional activities and methods at the elementary school level.

EXSC 355. Secondary School Physical Education. (4).
Covers the development of knowledge, skills and attitudes in traditional and nontraditional activities and methods at the secondary school level.

EXSC 400. Scientific Literature Exercise Science. (2).
This course provides an overview of literature in the various subdisciplines in Exercise Science. Students will learn to choose appropriate journal articles and to read peer-reviewed literature carefully and critically. Written summaries and critiques will be submitted throughout the semester. Each student will also make oral presentations.

EXSC 401. Advanced Biomechanics. (4).
Studies the three-dimensional mechanical aspects of human movement. Topics include gait analysis, mechanical properties of biological tissues, work-energy approach to movement analysis, inverse dynamics, ergonomics and postural sway. Prerequisite: EXSC 301.

EXSC 401L. Advanced Biomechanics Lab. (0).
Use cutting-edge technologies to understand an analyze human movement. Technologies include high-speed motion analysis, electromyography, and force plates. Students will complete a semester-long research project in a topic of their choice. Pre-requisite: EXSC 301 & EXSC 301L.

EXSC 450. History & Principles Physical Education. (3).
Studies the historical roots of physical education and sport. Emphasis on the history of physical education and sport in the development of societies from antiquity to current times.

EXSC 451. Organization and Administration. (3).
Covers the principles and methods of organizing and administering physical education, recreation and sports.

EXSC 452. Measuremnt & Eval in Physical Educ. (3).
Covers the use of statistics to collect data, analyze the data and make decisions based on the data. Also covers the use of tests in exercise science. Emphasis on the reliability and validity of tests and appropriate methods for interpretation of test scores. Discussion of test issues that relate to gender, ethnicity, culture and others.

EXSC 460. Mechanics of Biosystems - Calculus. (4).
Covers basic concepts of beam theory applied to biological systems. Topics covered include tension, compression, torsion, shear, moments, flexure, moments of inertia, dynamics, conservation of momentum, angular velocity, momentum, Conservation laws, constitutive relationships and yield criteria. Students will engage in simple design exercises.

EXSC 461. Exercise Psychology. (4).
This course will examine applied and theoretical issues related to the psychology of physical activity. Theories of motivation and exercise behavior will be examined in relation to the increasing problems of exercise adherence and physical inactivity. Other topics that will be discussed include: the psychological benefits of exercise, personality and exercise, body image, and the psychology of injury. Various techniques will be discussed in relation to motivating exercise behaviors and how to deal with special populations.

EXSC 470. Advanced Exercise Physiology. (4).
Builds on the concepts developed in EXSC 201. Emphasis covers physiological demands of exercise at terrestrial extremes (e.g., altitude, temperature, pressure, etc.). Also covers the special physiology involved in high performance exercise and sport. Pre-requisite: EXSC 202.

EXSC 470L. Advanced Exercise Physiology Lab. (0).
Will cover physiological processes in more depth particularly exploring physiology at terrestrial extremes and sport and exercise high performance.

EXSC 480. Social Psychology of Sport. (4).
Studies the social significance of sports and how sport factors interrelate with the structures, relations and problems of society. Covers contemporary theories and methods of the social sciences as applied to sport.

EXSC 482. Selected Topic. (1-4).

EXSC 482C. ST; Select Topic (core). (1-3).
Select Topic approved for core requirement.

EXSC 483. Seminar. (2-4).

EXSC 487. Clinical Exercise Prescription. (4).
This course will teach principles to manage exercise in persons with chronic disease or disability. Students will learn how to decrease physiologic limitations and improve physical capacity through specific exercise therapies. Students will learn how to define specific goals and choose appropriate training intensity, duration and frequency for persons with chronic disease or disability. Prerequisite: EXSC 300.

EXSC 490. Independent Study. (1-4).

EXSC 492. Internship. (1-4).

EXSC 493. Capstone Preparation. (2).
This course covers the development, organization, conduct and presentation of a major research question which demonstrates mastery of a subject from the discipline of Exercise Science. The course involves preparation for completing a major research paper covering a student-selected (with faculty approval) topic. Prerequisites: Successful completion of EXSC 201 & EXSC 201L, EXSC 202 & EXSC 202L, and EXSC 400. Completion of or concurrently taking either EXSC 325 or EXSC 452.

EXSC 494. Capstone. (2).
Covers the development organization, conduct and presentation of a major research question based on all the previous work involved in course work and personal experiences. The course involves a major research paper covering a student-selected topic (with faculty approval). Prerequisite: Senior Standing and EXSC Core completion or concurrent enrollment, and completion of or concurrent enrollment in EXSC 325 or EXSC 452.

EXSC 496. Directed Research. (1-3).

Film and Television

Live and learn film and television production in the heart of Hollywood, the world-famous home of the film and television industry.

Film and Television at Cal Lutheran combines a rigorous curriculum with hands-on learning. You'll be prepared for a range of careers within a wide variety of segments in the film and television industry. Your knowledge will include production skills, industry-specific knowledge, creative and critical thinking, effective communication, and professional and ethical leadership.

Students will participate in all phases of film and television production.

The student has a choice of a Bachelor of Arts degree in Film and Television with one of three emphasis areas.

- Film and TV Major with a General Emphasis
- Film and TV Major with a Film Studies Emphasis
- Film and TV Major with a Production Emphasis

Please refer to Communication (p. 113), English (p. 141), Multimedia (p. 200) and Music (p. 206) for additional course descriptions.

Film and Television major with General Emphasis

Major with a General Emphasis is 40 credits minimum with 20 being upper division.

Required Courses:		
FILM 101	Introduction to Film Studies	4
COMM 200	Broadcasting and the Media Industry	4
FILM 207	Begininning TV Production	4
or FILM 208	Beginning Cinema Production	
Required:		
COMM 360	Film Theories	4
FILM 410	Film Studies Capstone	2
or FILM 411	Post-Production and Distribution	
FILM 490	Independent Study	1-4
or FILM 492	Internship	
Take 5 Courses from this list:		
COMM 308	Politics in Cinema	4
COMM 312	International Media	4
COMM 344	Storyboarding	4
COMM 350	Communication Theories-Capstone	4
COMM 404	Broadcast Sports Production	4
COMM 407	Broadcast News Production	4
ENGL 360	The Holocaust in Literature and Film	4
FILM 307	Advanced TV Production	4

FILM 308	Advanced Cinema Production	4
FREN 447	French Cinema	4
GERM 447	German Cinema	4
MULT 202	Media Theory, History and Creative Dev	4
MULT 358	Visual Effects/Motion Graphics/Animation	4
MULT 470	High Definition Digital Cinema I	4
or MULT 471	High Definition Digital Cinema II	
MUS 333	History and Survey of Film Music	3
RLTH 360	Jesus in Film and History	4
SPAN 470	Film in Spanish	4
TA 131	Beginning Acting	4
TA 167	Design & Production for Stage & Media	4
TA 368	Scenic Design for Stage and Media	4
TA 369	Costume Design for Stage and Media	4
TA 433	Acting for the Camera	4

Film and Television Major with Film Studies emphasis:

Major with Film Studies emphasis is a minimum of 38 credits, 20 being upper division.

Introductory Courses		
FILM 101	Introduction to Film Studies	4
FILM 207	Begininning TV Production	4
or FILM 208	Beginning Cinema Production	
COMM 200	Broadcasting and the Media Industry	4
Required:		
COMM 351	Research Methods	4
FILM 410	Film Studies Capstone	1-4
or FILM 492	Internship	
COMM 360	Film Theories	4
Select three courses		
COMM 308	Politics in Cinema	4
or POLS 308	Politics in Cinema	
COMM 312	International Media	4
COMM 330	Film Studies	4
or ENGL 330	Film Studies	
ENGL 303	Creative Writing: Poetry	4
ENGL 319	Multimedia Presentations	3
ENGL 346	Studies in Poetry	4
ENGL 360	The Holocaust in Literature and Film	4
FREN 447	French Cinema	4
GERM 447	German Cinema	4
MUS 333	History and Survey of Film Music	3
RLTH 360	Jesus in Film and History	4
SPAN 470	Film in Spanish	4
Experiential Electives		
(select one)		
FILM 306	Screenwriting	3
TA 131	Beginning Acting	4
TA 167	Design & Production for Stage & Media	4

Film and Television Major with Production Emphasis

Major is 40 credits minimum with 20 being upper division

Introductory Courses		
FILM 101	Introduction to Film Studies	4
COMM 200	Broadcasting and the Media Industry	4
FILM 207	Begininning TV Production	4
or FILM 208	Beginning Cinema Production	
Required		
COMM 360	Film Theories	4
FILM 306	Screenwriting	3
FILM 307	Advanced TV Production	4
or FILM 308	Advanced Cinema Production	
FILM 411	Post-Production and Distribution	2
FILM 490	Independent Study	1-4
or FILM 492	Internship	
Select five courses		
TA 368	Scenic Design for Stage and Media	4
TA 369	Costume Design for Stage and Media	4
COMM 344	Storyboarding	4
COMM 404	Broadcast Sports Production	4
COMM 407	Broadcast News Production	4
MULT 358	Visual Effects/Motion Graphics/Animation	4
MULT 465	Maxon Cinema 4D 3D Animation	4
MULT 470	High Definition Digital Cinema I	4
or MULT 471	High Definition Digital Cinema II	
TA 167	Design & Production for Stage & Media	4
TA 433	Acting for the Camera	4

Minor in Film and Television

Minor is 20 credits minimum with 8 being upper division.

Introductory		
FILM 101	Introduction to Film Studies	4
COMM 200	Broadcasting and the Media Industry	4
Required		
COMM 360	Film Theories	4
Select One Course		
COMM 308	Politics in Cinema	4
or POLS 308	Politics in Cinema	
COMM 344	Storyboarding	4
ENGL 360	The Holocaust in Literature and Film	4
FILM 306	Screenwriting	3
FREN 447	French Cinema	4
GERM 447	German Cinema	4
MULT 202	Media Theory, History and Creative Dev	4
MUS 333	History and Survey of Film Music	3
RLTH 360	Jesus in Film and History	4
SPAN 470	Film in Spanish	4
Select One Production Course		
COMM 404	Broadcast Sports Production	4
COMM 407	Broadcast News Production	4

FILM 207	Begininning TV Production	4
FILM 208	Beginning Cinema Production	4
MULT 470	High Definition Digital Cinema I	4
MULT 471	High Definition Digital Cinema II	4

Courses

Lower Division

FILM 101. Introduction to Film Studies. (4).
Film Studies provides students with a solid grounding in the major elements of film, including genre, narrative, acting, design, cinematography, sound, and editing. Students will become critically informed viewers able to understand and analyze film and/or to pursue additional studies in film history or film theory.

FILM 207. Begininning TV Production. (4).
Learn how to shoot, direct and produce a television production in a multi-camera studio environment. Students will learn about the different jobs required in a live action television studio broadcast; including; director, actor, camera operator, technical director, audio, stage manager and playback operator.

FILM 208. Beginning Cinema Production. (4).
This course is an entry-level class to the art of Filmmaking. Students will learn about the process of filmmaking from its beginning to how we use visual imagery today to tell a story.

Upper Division

FILM 306. Screenwriting. (3).
An introductory course on the craft of writing for television or film. Emphasis is on narrative storytelling for the screen, understanding film grammar and the tools of the screenwriter from basic three-act structure to characterization. In a workshop approach, students will develop their own story premise, treatment, outline and draft script, plus revisions. Fulfills CORE 21 Writing Intensive requirement.

FILM 307. Advanced TV Production. (4).
Produce a bi-monthly soap/sitcom for web distribution in short formats (5 - 8 minutes). Students will write the scripts and then participate in the pre-production, production and post production. Class members will design and build the sets, act, direct, work as crew and as editors on this bi-monthly web series. Prerequisites: FILM 306 and either FILM 207 or 208.

FILM 308. Advanced Cinema Production. (4).
Students will write, produce, direct and edit a 10-20 minute short narrative or documentary film with the purpose of submitting it to student film festivals across the country. Students will attend advanced workshops in editing and lighting. Prerequisites: FILM 207 or FILM 208.

FILM 401. Avid Media Composer. (4).
Used by more editors in Hollywood than any other editing software, this class covers AVID Media Composer 101 and 110. Students have the chance to receive their AVID certification in Media Composer upon passing the tests.

FILM 410. Film Studies Capstone. (2).
This course prepares students to analyze films, genres, cinematic formal elements, and narrative structures and helps students develop the skills to recognize, understand, describe and appreciate film as both entertainment and art. Prerequisites :COMM-360.

FILM 411. Post-Production and Distribution. (2).
This course is for post-production and marketing of projects that were shot during the previous semester in both Advanced Cinema Production and Advanced Television Production. The participant will be expected to participate in Festival of Scholars and the Annual Television Gala and Annual Film Festival. Students will be responsible for organizing, marketing and running the events held at the end of the Spring Semester. They will divide into groups responsible for post-production, marketing and Festival organizers. Students will each sign a contract at the beginning of the semester detailing their project and responsibilities.

FILM 490. Independent Study. (1-4).

FILM 492. Internship. (1-4).

Financial Planning (Minor)

Financial Planning (Minor)

The Minor in Financial Planning consists of five courses, which would fulfill the CFP Board's requirement for contact hours, coverage of the CFP Board's 72 topic categories and a stand-alone financial plan development course. There are no pre-requisite courses for the first four courses.

BUS 396	Personal Financial Plan & Risk Mgmt	4
BUS 341	Prin Estate & Income Tax Planning	4
BUS 343	Employee Benefits & Retirement Planning	4

BUS 458	Personal Investment Planning	4
BUS 481	Financial Plan Development Course	4

Gender and Women's Studies (minor)

The minor in Gender and Women’s Studies focuses on gender as a primary category of human experience. The universality of this experience, combined with the uniqueness of its expression in every individual, makes gender an ideal site for the rigorous inquiry and respectful dialogue that characterize a well-rounded liberal arts education.

At Cal Lutheran, Gender & Women’s studies is an interdisciplinary curriculum that examines the role of gender in history, the workplace and other social institutions. The program encompasses disciplines in the humanities and social sciences.

Minor in Gender and Women’s Studies

15 credits minimum.

WOMS/SOC 210	Introduction to Gender Studies	4
Select three of the following:		12
BIOL 217	Biology of Sex and Gender	
COMM 315	Small Group Communication	
CRIM 430	Gender, Race, Ethnicity and Crime	
ENGL 352	Course ENGL 352 Not Found	
ENGL 353	Gender and Literature: U.S. Diversity	
HIST 341	United States Women's History	
HIST 343	Women in Global History	
PSYC 215	The Psychology of Sex and Gender	
RLTH 349	Queer Theology	
RLTH 356	Sexual Ethics	
RLTH 365	Women and Religion	
SOC 300	Sexuality and Society	
SOC 322	Contemporary Issues in Gender Studies	
SOC 340	Family and Intimate Relationships	
POLS 418	Women and Politics	
Total Hours		**16**

Courses

Lower Division

WOMS 210. Introduction to Gender Studies. (4).
This interdisciplinary course introduces students to foundational knowledge in gender studies, including the history of feminism, the development of women's studies, and fundamental feminist theories and research methodology. Also, the course takes an intersectional approach to studying men and women by looking at how sources of social power and privilege such as race, sexuality, and social class shape constructions of femininities and masculinities in everyday interactions and in social institutions.(Cross-listed with SOC 210).

Upper Division

WOMS 490. Independent Study. (1-4).

Geography

(non major/minor)

Courses

GEOG 151. Physical Geography. (3).
A systematic study of the nature of basic physical elements of human habitat, especially climate, landforms and Earth resources.

GEOG 151L. Physical Geography Lab. (1).

GEOG 155. Cultural Geography of California and theýUnited States. (3).
An interdisciplinary investigation of the people of the various regions of the United States and California. Includes the study of how peoples' lives are affected by their physical environment, history, cultural and religious inheritance, resources and economic activities.

Geology

California Lutheran University's Geology Department offers a challenging curriculum for students who are interested in exploring for energy and economic resources, analyzing geologic hazards and mitigating the human impact on the environment.

The program emphasizes learning through course work, as well as through extensive fieldwork. The department works closely with the other related disciplines of chemistry, physics, biology, mathematics and geography. Through their studies and research projects, Cal Lutheran geology majors will learn how the Earth's processes and life have changed over time.

Southern California offers a unique opportunity for Cal Lutheran students to study firsthand many of the geologic wonders of the world. Numerous field trips are offered during the year to places such as Death Valley, the Grand Canyon, Owens Valley and the eastern Sierra Nevada.

Along with being accepted in graduate schools around the country, many Cal Lutheran geology majors have entered careers in petroleum geology, geophysics and the environmental geology fields. In both the public and private sectors, geologists are hired to study groundwater pollution, earthquake hazards and landslides, as well as to work in the mining industry, petroleum industry or in research laboratories.

Bachelor of Arts in Geology

35 credits minimum, 22 credits upper division.

GEOL 111/111L	Physical Geology and Physical Geology Lab	4
GEOL 112/112L	Historical Geology and Historical Geology Lab	4
GEOL 311/311L	Crystallography and Mineralogy and Crystallography and Mineralogy Lab	5
GEOL 312/312L	Petrology and Petrology Lab	5
GEOL 331/331L	Invertebrate Paleontology and Invertebrate Paleontology Lab	4
GEOL 332/332L	Stratigraphy and Sedimentation and Stratigraphy and Sedimentation Lab	4
GEOL 335/335L	Structural Geology and Structural Geology Lab	5
GEOL 421	Field Geology	4
Total Hours		**35**

Required Supporting Courses

PHYS 201/201L	Mechanics and Thermodynamics-Algebra and Mechanics and Thermodynamics- Lab	4
CHEM 151/151L	General Chemistry and General Chemistry Lab	5
MATH 251	Calculus I	4
Total Hours		**13**

Bachelor of Science in Geology

38 credits minimum, 30 credits upper division.

GEOL 111/111L	Physical Geology and Physical Geology Lab	4
GEOL 112/112L	Historical Geology and Historical Geology Lab	4
GEOL 311/311L	Crystallography and Mineralogy and Crystallography and Mineralogy Lab	5
GEOL 312/312L	Petrology and Petrology Lab	5
GEOL 331/331L	Invertebrate Paleontology and Invertebrate Paleontology Lab	4
GEOL 332/332L	Stratigraphy and Sedimentation and Stratigraphy and Sedimentation Lab	4
GEOL 335/335L	Structural Geology and Structural Geology Lab	5
GEOL 421	Field Geology	4
GEOL 485	Seminar	2-4

Required Supporting Courses

PHYS 201/201L	Mechanics and Thermodynamics-Algebra and Mechanics and Thermodynamics- Lab	4
PHYS 202/202L	Electricity, Magnetism, Optics -Algebra and Electricity, Magnetism, Optics - Lab	4

CHEM 151/151L	General Chemistry and General Chemistry Lab	5
CHEM 152/152L	General Chemistry II and General Chemistry II Lab	5
MATH 251	Calculus I	4
MATH 252	Calculus II	4
Total Hours		**26**

Minor in Geology

16 credits minimum, 8 credits minimum at upper division level.

GEOL 111	Physical Geology	3
GEOL 111L	Physical Geology Lab	1
GEOL 112	Historical Geology	3
GEOL 112L	Historical Geology Lab	1
Upper Division Geology Credits		8

Courses

Lower Division

EES 111. Physical Geology. (3).
A systematic analysis of the Earth, inside and out, its rocks, minerals, soils and water. This involves the study of the processes by which these materials are formed and are constantly changed, including how mountains are created and then eroded by streams, wind and glaciers. Volcanoes, earthquakes and plate tectonics are also covered. Field trips. Lecture, 3 hours/week.

EES 111L. Physical Geology Lab. (1).
Hands-on study of rocks and minerals, topographic and air photo interpretation and a variety of geologic exercises that help understand the geologic processes and landforms studied in GEOL 111. Laboratory, 2 hours/week. Prerequisite or corequisite: EES-111.

EES 112. Historical Geology. (3).
The study of the ancient distribution of land and sea and change in life through geologic time. Lecture, 3 hours/week. Prerequisite: EES-111.

EES 112L. Historical Geology Lab. (1).
Includes fossil identification, geologic map interpretation and paleogeographic problems. Prerequisite or corequisite: EES-112.

EES 118. The Oceans. (4).
A general survey of geological and biological processes in the oceans with a strong environmental emphasis. Laboratory exercises and field trips complement lecture material. (Cross-listed with BIOL 118).

EES 118L. The Oceans Lab. (0).
Co-requisite: EES-118 (Cross-listed with BIOL-118L).

EES 151. Physical Geography. (3).
A systematic study of the nature of basic physical elements of human habitat, especially climate, landforms and Earth resources.

EES 151L. Physical Geography Lab. (1).

EES 152. Introduction to Environmental Science. (4).
An examination of the relationship between people and the physical environment. Topics include geologic hazards such as volcanoes and earthquakes; pollution of land, air and water; park conservation; energy alternatives; and global challenges such as ozone depletion and human-induced climate change. Lecture, 3 hours/week; Laboratory required, 2 hours/week.

EES 212. Dinosaurs. (4).
A survey of the non-avian dinosaurs includes: anatomical comparisons of the major dinosaur groups, plus flying and swimming vertebrates of the Mesozoic Era: new discoveries such as dinosaur eggs and nesting sites, the emergence of birds, soft tissue preservation, and the search for genetic material; a review of the process of fossilization; the paleogeography of the Mesozoic world; and the geological background relevant to dinosaur studies. Lab activities are integrated into the meeting times of the lecture course.

EES 224. Planetary Geology. (4).
This course will focus on the Earth and its local planetary neighbors utilizing the vast amount of information that has been and continues to be acquired by space probes as well as manned lunar missions. Exposure to comparisons with other nearby planets and planetary objects will allow a better understanding of the Earth, especially our impact on climate and resources. New discoveries and observations in planetary geology demonstrate how the field of geology has changed dramatically since the inception of the "space age". This class will provide students with new insights into planetary evolution, the impact of the space program on our societal needs, and challenge them to critically evaluate data. Lecture, 3 hours/week; Laboratory, 2 hours/week.

EES 282C. ST: Selected Topic (Core). (1-4).
Select Topic approved for core requirement.

Upper Division

EES 305. Climate Change. (4).
This course investigates how contemporary/anthropogenic climate change compares to climate variations over Earth's long history, including our scientific understanding of its causes and its local and global impacts. An overview of the physical components of Earth's climate system is discussed. The course includes both lecture and laboratory experiences. Prerequisite: EES 111 or EES 152. Offered Fall semesters.

EES 311. Crystallography & Mineralogy. (5).
Covers morphological crystallography, crystal chemistry, relation of mineral properties to their internal structure, recognition of selected minerals in hand specimen and optical techniques used for mineral identification (use of the polarizing microscope). Lecture, 3 hours/week; Laboratory, 6 hours/week. Prerequisites or corequisites: EES-112; Chem-151.

EES 312. Petrology. (5).
The study of the origin, occurrence, classification and identification of igneous and metamorphic rocks in hand specimen. Lecture, 4 hours/week; Laboratory, 3 hours/week. Prerequisite: EES-311.

EES 331. Invertebrate Paleontology. (4).
A survey of the study of ancient life as revealed in the fossil record. Lecture stresses evolutionary theory and the history of life; lab surveys major invertebrate fossil taxa with emphasis on taxonomy and functional morphology. Lecture, 3 hours/week; Laboratory, 3 hours/week. Prerequisite: EES-112.

EES 331L. Invertebrate Paleontology Lab. (0).

EES 332. Stratigraphy & Sedimentation. (4).
The study of sedimentary rocks, sites of deposition, postdepositional changes and sedimentary tectonics. Lecture, 3 hours/week; Laboratory, 3 hours/week.

EES 332L. Stratigraphy & Sediment Lab. (0).

EES 335. Structural Geology. (5).
The discussion of primary and secondary rock structures, with particular reference to crustal deformation. Lecture, 3 hours/week; Laboratory, 6 hours/week.

EES 335L. Structural Geology Lab. (0).

EES 390. Introduction to Soils. (4).
Soil Science encompasses a broad spectrum of integrated sciences that include biology, chemistry, earth/geological sciences, physics, horticulture and ecology. Lectures will introduce you to many of the subdivisions of soil science that include: agriculture and nutrient management, soil formation and pedology, soil classifications, soil biology, soil physics and soil chemistry. Lab exercises are designed to provide you with some hands on experience pertinent to the subdivisions of Soil Science.

EES 390L. Intro to Soils Lab. (0).

EES 395. Water Resources. (3).
An introduction to the principles of surface and groundwater hydrology and to problems related to water utilization. Includes water distribution and availability, alternatives for increasing future water supply, water pollution and mitigation, and water rights law.

EES 395L. Lab & Field Studies Water Resources. (1).
Water sampling and testing; simulation of groundwater movement and contaminant migration; stream-table modeling of fluvial landforms. Field trips to study geologic and hydrologic characteristics of areas important to water supply in California and the Southwest.

EES 405. Geophysics. (4).
An interdisciplinary study of how to use geophysical observations of the Earth's gravitational and magnetic fields, seismic wave velocities and subsurface electrical resistivity to solve geological and environmental problems. Specific field methods using geophysical instruments will be taught along with the interpretation of the collected data. Lecture, 3 hours/week; Laboratory 3 hours/week. Prerequisites: PHYS 201 & PHYS 202 or PHYS 211 & PHYS 212. EES-111 or EES-152 recommended. (cross-listed with Phys 405).

EES 405L. Geophysics Lab. (0).

EES 421. Field Geology. (4).
Studies the field methods used in geology, including surveying, plane tabling, geologic mapping and section measuring. Prerequisite: EES-335.

EES 482C. ST: Selected Topic (Core). (1-4).
Select Topic approved for core requirement.

EES 485. Environmental Science Capstone. (2).
This course introduces students to the professional skills and practices required in the environmental field. Includes introduction to GIS (Geographic Information Systems), literature searches, written and oral presentation of work. Prerequisite: senior standing.

EES 490. Independent Study. (1-4).

EES 492. Internship. (1-4).

EES 496. Directed Research. (4.00).

Global Business (minor)

A minor in global business offers students a chance to focus on world trade and the expanding world markets while getting an overview of all aspects of business.

Students interested in business and/or foreign language will benefit from the global business curriculum through hands-on experience with business projects.

Career opportunities in the global business arena include banking, marketing and consulting.

Minor in Global Business

20 credits minimum in Business Administration and/or Economics, 16 credits upper division.

BUS 251	Principles of Accounting	4
BUS 394	Global Business	4
Additional upper division credits from international business and/or international economics courses		12
BUS 472	International Finance	
BUS 474	International Marketing	
BUS 476	Global Business Behavior	
BUS 478		
ECON 416	International Economics	
ECON 460	Economic Development	
ECON 465	Global Political Economy	

Required Supporting Course

ECON 203	General Economics	4
Total Hours		**4**

Global Studies

The twenty-first century world is one characterized by globalization. The forces of globalization, integration and interdependence, have altered the way human beings interact with one another. World affairs are no longer primarily defined by national boundaries, but by the global integration of resources, ideas and communities. To meet the opportunities and challenges posed by an increasingly interdependent world, the Global Studies Program at California Lutheran University is committed to preparing and educating students to be “leaders in a global society” through their academic coursework and experiential learning opportunities. The Global Studies program offers courses that examine the actors (individuals, countries, non-governmental organizations), ideas and processes that shape the cultural, social, political and economic dimensions of global society. The coursework for this program emphasizes three themes:

1. Global Culture and Identity,
2. Global Governance and Civil Society, and
3. Global Economy, Development and Resources.

Thematic courses are used to illustrate how similar issues are understood across different communities in global society. The program offers students an interdisciplinary curriculum that promotes an enhanced appreciation for global diversity (non-Western cultures/societies) and experiential learning.

Bachelor of Arts in Global Studies

36 credits minimum; 24 credits upper division. Students must take courses from at least 3 different disciplines/departments, and no more than 3 courses from a single department/discipline may be used to fulfill program requirements (except for the language requirement).

Foreign language proficiency equivalent to completion of the 202 level		0
Select one of the following		4
GLST 101/POLS 200	Global Studies [1]	
GLST/SOC 103	Contemporary Global Issues	
Select one of the following:		4
POLS 360	International Relations [1]	
GLST/SOC 318	Immigration in the Global Age [1]	
GLST 401	Global Studies Seminar (capstone)	4

Global Culture and Identity [2]	3-4
Global Governance and Civil Society [2]	3-4
Global Economy, Development and Resources [2]	3-4
Experiental Learning Program [3]	0
Elective courses [4]	15-12
Total Hours	**36**

1 This course cannot be used to fulfill more than one program requirement.
2 At least 3 credits must be taken from this theme
3 Participation in an approved experiential learning program such as study abroad or internship (no credits will be given unless a specific course(s) is taken; study abroad is highly recommended).
4 Select at least 3 courses that are designated/approved as primarily non-Western in focus (may be used to fulfill more than one program requirement).

Minor in Global Studies

20 credits minimum; 12 credits upper division.

GLST 101/POLS 200	Global Studies [1]	4
Select two of the following: [2]		6-8
Global Culture and Identity		
Global Governance and Civil Society		
Global Economy, Development and Resources		
Foreign language proficiency equivalent to completion of the 202 level		0
Elective Courses		10-8
Experiential Learning [3]		0
Total Hours		**20**

1 This course cannot be used to fulfill more than on program requirement.
2 Select one course from at least two of the three themes.
3 Participation in an approved experiential learning program such as study abroad or internship (no credits will be given unless a specific course(s) are taken; study abroad is highly recommended).

Pre-Approved Courses

The following courses have been pre-approved as fulfilling program requirements as designated. Additional courses may also fulfill program requirements with the approval of the program director.

Global Culture and Identity [1]		
ART 111	History of Art	4
ART 112	History of Art	4
ART 411	Course ART 411 Not Found	4
COMM 311	Intercultural Communication	4
ENGL 211	Classical Literature	4
ENGL 260	Topics in World Literature *	4
ENGL 352	Course ENGL 352 Not Found	4
ENGL 360	The Holocaust in Literature and Film	4
HIST 101	World Civilization to 1500 *	4
HIST 102	World Civilizations Since 1500 *	4
HIST 301	Ancient Greek World	4
HIST 303	Medieval Europe & Mediterranean World	4
HIST 311	Modern Europe:1500 to Present	4
HIST 313	Europe and Empire	4
HIST 343	Women in Global History	4
GLST 200	Death on the Nile	4
GLST/POLS 477	Course GLST 477 Not Found	4

MUS 101	Music and Culture	3
POLS 402	Post-Modernism: Politics & Philosophy	4
POLS 411	Ethnic Conflict and Civil War *	4
RLTH 332	Luther and the 16th Century Reformations	4
RLTH 372	South Asian Thought	4
RLTH 331	Topics Medival/Early Modern Christianity	4
PHIL 312	History of Philosophy	4
PHIL 355	Chinese Philosophy and Culture *	4
SOC 230	Course SOC 230 Not Found *	4
SOC 285	Travel Course:Japanese Society/Culture *	2
GLST/SOC 318	Immigration in the Global Age	4
SPAN 405	Latin-American Culture and Civilization *	4
Global Governance and Civil Society [1]		
POLS 360	International Relations	4
HIST 317	War and Conflict in 20th Century Europe	4
HIST/POLS 382	Colonial Latin America *	4
HIST/POLS 384	History of the Islamic World *	4
HIST/POLS 386	History of South Asia *	4
HIST/POLS 388	History of East Asia *	4
POLS 206	Globalizing Los Angeles	4
POLS 321	Ancient Political Thought	4
POLS 322	Modern Political Thought	4
POLS 341	European Government and Politics	4
POLS 365	American Foreign Policy	4
POLS 367	Comparative Politics	4
POLS 416	Social Movemt & Politics Global Change	4
POLS 432	Political Violence and Revolutions *	4
POLS 443	Government and Politics of Africa *	4
POLS 461	International Law and Organization	4
POLS 478	The Pacific Rim *	4
RLTH 351	Global Ethics	4
RLTH 353	Violence, Religion and Politics	4
RLTH 384	Religion and Ecological Ethics	4
Global Economy, Development and Resources [1]		
COMM 312	International Media	4
COMM 348	Website Design and Publishing	4
BIOL 118	The Oceans	4
BUS 394	Global Business	4
ECON 416	International Economics	4
ECON 460	Economic Development	4
GEOL 152/152L	Introduction to Environmental Science and Intro Environmental Science Lab	4
GEOL 395/395L	Water Resources and Lab Field Studies Water Resources	4
POLS 414	Environmental Law and Policy	4

Courses

Lower Division

GLST 101. Global Studies. (4).

This course analyzes how social forces and processes have and are transforming the lives of individuals. Issues such as war, peace and justice are examined from a political perspective that reflects them as global rather than national concerns. (cross-listed with POLS 200).

GLST 103. Contemporary Global Issues. (4).
A critical review and assessment will be undertaken of the origin and present condition of the major global issues and problems and how these are being addressed by the local and international organizations. We will also explore ideas and concepts of human trafficking, human rights, coexistence among peoples of different cultures and other critical global issues such as poverty eradication, environmental degradation, health crisis and family/gender issues. (cross-listed with SOC 103).

GLST 200. Death on the Nile. (4).
This introductory course will examine the culture of the ancient Egyptian through the remnants of its architecture, mythology, literature, art, history, and social structure as a way to understand the civilization that influenced and still influences many other cultures in the West.

GLST 201. The Face Behind the Mask. (4).
This course is designed to confront students with the search of truth and instill in them the responsibility they owe as individuals within the community to always search out and advocate it.

GLST 282C. ST: Select Topic (core). (1-4).
Select Topic approved for core.

GLST 285. Travel Seminar. (1-2).
(graded pass/no credit only).

Upper Division

GLST 318. Immigration in the Global Age. (4).
International migration is an integral part of the globalization processes. This course explores the key current theoretical and empirical debates in the study of this global phenomenon. The course covers transnational networks, the formation and implementation of labor recruitment (including human trafficking), migration policies, political conflict, economic and social adaptation, the development of socio-cultural traditions (ethnic identities) and the transformation of gender relations. (cross listed with SOC 318).

GLST 360. International Relations. (4).

GLST 401. Global Studies Seminar (capstone). (4).
A required senior seminar designed to integrate students' understanding of the shape of the world today. This cross-cultural seminar focuses on values and their modes of expression in cultures around the world. Emphasis is placed on research, effective written and oral reporting, and summation of international concerns and issues.

GLST 465. Global Political Economy. (4).
This course introduces some of the fundamental relationships between politics and economics, on both the domestic and international levels. Its purpose is to examine how these two aspects of human behavior are mutually dependent.

GLST 482. Selected Topic. (4).

GLST 482C. ST: Select Topic (core). (1-4).
Select Topic approved for core.

GLST 490. Independent Study. (1-4).

GLST 492. Internship. (2-4).

GLST 496. Directed Research. (1-3).

History

California Lutheran University’s History Department offers a challenging curriculum that explores all aspects of history. Lower division courses center on the acquisition of an introductory knowledge of the history of world civilizations and the United States and the core skills a historian needs to succeed in more specialized course work. Upper division courses offer students a variety of specialized classes, seminars and independent studies, which allow more in-depth exploration of specific topics. Faculty-led travel courses allow students to explore histories at the sites of their creation.

In Cal Lutheran’s history courses, the faculty emphasizes the understanding of the diversity of human experience over time and encourages an appreciation of cross-cultural encounters. All history courses help to develop excellent research, writing, analytical and critical thinking skills. Students are also introduced to useful methods and the debates that surround the writing of history.

History majors have the opportunity to participate in interesting internships as well as engage in projects that bring them to archives, libraries and other sources of primary data in Southern California. Students may also participate in student-faculty research projects that aid them in developing their own goals and research abilities. In keeping with Cal Lutheran’s emphasis on the use of information technology, the history faculty encourages students to develop facility with computer technology as an aid to research, data analysis, and explaining history to others.

Cal Lutheran’s history majors are in demand in the public and private sectors because of their training as good writers, effective researchers, and perceptive analysts. The faculty is actively involved in mentoring students in career choices and avenues for professional development. Cal Lutheran’s program prepares students for graduate work in history and other social sciences, as well as careers in law, education, administration, museum studies, and journalism, among others.

Bachelor of Arts in History

38 credits minimum, 22 credits upper division

HIST 101	World Civilization to 1500	4
HIST 102	World Civilizations Since 1500	4
HIST 121	United States History to 1877	4
HIST 122	United States History Since 1877	4
Five upper division history courses and the capstone class		22
Total Hours		38

Museum Studies Emphasis

ART 111	History of Art	4
ART 112	History of Art	4
ART 280	Design	3
HIST 343	Women in Global History	4
BUS 375	Principles of Marketing	4
or BUS 367	Behavior in Organizations	
HIST 492	Internship (Two Separate Internships - 4 credits total)	4
EDTP 501		
GEOL 152	Introduction to Environmental Science	3
GEOL 152L	Intro Environmental Science Lab	1
COMM 306	Business and Professional Communication	4
or BUS 301	Communication for Managers	
PSYC 200	General Psychology	4
Total Hours		35

Minor in History

20 credits minimum, 12 credits upper division

HIST 101	World Civilization to 1500	4
or HIST 102	World Civilizations Since 1500	
HIST 121	United States History to 1877	4
or HIST 122	United States History Since 1877	
One upper division course in each of the following areas:		12
Non-Western		
HIST 343	Women in Global History	
HIST 380	History of Modern China	
HIST 382	Colonial Latin America	
HIST 384	History of the Islamic World	
HIST 386	History of South Asia	
HIST 388	History of East Asia	
European		
HIST 301	Ancient Greek World	
HIST 303	Medieval Europe & Mediterranean World	
HIST 311	Modern Europe:1500 to Present	
HIST 313	Europe and Empire	
HIST 317	War and Conflict in 20th Century Europe	
HIST 331		
HIST 332		
HIST 333		
HIST 390	History and Historians	
United States		

HIST 321	Colonial America
HIST 324	Society and Culture in U.S. History
HIST 326	Civil War: Slavery to Civil Rights
HIST 328	Cold War America
HIST 341	United States Women's History
HIST 335	
Total Hours	**20**

Courses

Lower Division

HIST 101. World Civilization to 1500. (4).
Designed to give students a framework for further study in humanities, this course is a survey of the major civilizations and developments in world history to 1500, emphasizing the role of world religions, technological innovations and environmental conditions in shaping the world's major cultural traditions. Discussions focus on development of critical thinking and writing skills through examination of primary historical documents.

HIST 102. World Civilizations Since 1500. (4).
Studies the history of an increasingly interdependent world from 1500 to the present, emphasizing the origins and reasons for Western dominance and the impact of and reaction to that dominance in the rest of the world. Discussions focus on development of critical thinking and writing skills through examination of primary historical documents.

HIST 121. United States History to 1877. (4).
A broad study of American history from the first settlements through Reconstruction. Special attention is given to the attempt to create an American culture and society, the creation and development of the political system, the shifting roles of women and minority groups, the sectional crisis and Civil War and the postwar attempt to deal with the place of blacks in American society.

HIST 122. United States History Since 1877. (4).
A broad study of American history from Reconstruction to the present. Special attention is given to the impact of industrialization and urbanization, the changing roles of social classes and minority groups, the experience of the Depression and the persistent attempts at reform, and America's rise to global power, including relations with the Communist world.

HIST 201. Historical Geography. (4).
This course will introduce students to comprehensive spatial global view and with the basic analytical and conceptual skills required to study the historical relationship between human society and geography. This includes the study of how societies throughout history have been shaped by their physical environment and vice-versa. This includes the consideration of geography in relation to culture, religion, resources, social organization, economic activities, etc. Required for History Pedagogy Majors as defined by the State Standards and the History/Social Sciences This course does NOT fulfill the Core 21 History requirement.

HIST 282. Selected Topic. (1-4).

HIST 282C. ST: Select Topic (core). (1-4).
Select Topic approved for core requirement.

Upper Division

HIST 301. Ancient Greek World. (4).
A study of classical civilization from the late Bronze Age to Alexander the Great and the Hellenistic world. The class examines the ancient Greek world through art and literature, social, intellectual and philosophical developments, as well as economic, military and cultural dimensions. Students read original sources in translation as well as the works of modern scholars.

HIST 303. Medieval Europe & Mediterranean World. (4).
Covers the history of Europe and the Mediterranean from the collapse of the Roman Empire in the West through the 15th century. Emphasis is on the intellectual, cultural and economic as well as the military encounters of Europe with Byzantine and Muslim civilizations. Topics also include feudalism, the role of the Christian Church, the rise of towns and cities in Europe, and the legacy of the Middle Ages for our own time. (a/y).

HIST 305. Peoples of Europe. (4).
This course will examine a segment of European history through an examination of one of the peoples of Europe who have exercised a major influence on European history even while they are a "subset" or "minority" of the larger European population. The course alternates through three different peoples, including the Vikings, the Jews, and the Celts. The course seeks to understand how European history has been influenced by a variety of groups; European history is not a monolithic story of a single race or ethnicity but is instead a vibrant quilt made up of a great diversity of peoples, traditions, cultures, and histories.

HIST 311. Modern Europe:1500 to Present. (4).
An examination of the history of modern Europe through the study of some of its most important revolutionary changes. Focuses on the Scientific, English, French, Industrial and Russian revolutions as well as the Enlightenment and building the European Union. (a/y).

HIST 313. Europe and Empire. (4).
This course uses the imperial histories of Spain, England, and France to address how European imperialism helped to structure the modern world, anticipating today's globalization. It explores the impact of imperialism and colonialism on peoples and institutions both in Europe and in the rest of the world. (a/y).

HIST 317. War and Conflict in 20th Century Europe. (4).
Why was the 20th century perhaps the bloodiest in human history? This course explores the origins, practice and outcomes of modern warfare in Europe, including the influence of ideology and philosophy as well as politics and economics. Although detailed attention is given to World War I and II, it treats warfare in its broadest possible manifestation, and examines some of the longer term socio-political, economic and moral consequences of modern wars for Europe and the world. (a/y).

HIST 321. Colonial America. (4).
An exploration of the conflict of cultures during the formative years of the United States from settlement to the Constitution in 1789. Topics include Pre-Columbian Indian cultures, the empire builders of the New World, the environmental impact of the Western Europeans, the development of colonial society and the establishment of the new nation. (a/y).

HIST 324. Society and Culture in U.S. History. (4).
A thematic study of the social evolution of the United States during its first two centuries of development. Significant intellectual and cultural changes are emphasized through the lens of the five pillars of society, family, education, economics, politics, and religion. (a/y).

HIST 326. Civil War: Slavery to Civil Rights. (4).
An examination of sectionalism, Civil War and the Reconstruction with emphasis on primary source interpretation. Topics include racism and slavery, the contrasting natures of Northern and Southern societies, the politics of sectionalism, the causes and goals of the Civil War, and racial relationships and policies from Reconstruction to the modern civil rights movement. (a/y).

HIST 328. Cold War America. (4).
A close examination of modern United States history during the Cold War and after. Class sessions give attention to the political, social, economic and international developments of what has been termed "the Pax Americana." Focus is specifically on the role of presidents and policymaking, particularly the relationship with the Soviet Union. (a/y).

HIST 341. United States Women's History. (4).
An in-depth investigation of the interaction of society, women and the community in American history from 1600 to the present. Special emphasis is placed on the ways gender, ethnicity and class influence the role of women in the community with respect to legal rights, sexuality, attitudes and perceptions. (a/y).

HIST 343. Women in Global History. (4).
A thematic investigation of the "underside of history." The class explores several topics including women and their role in the development of agriculture and technology in the ancient Near East, the roles of women in the empires of Rome, the Moslems and China, the status of women in the Middle Ages in Europe and Japan, and the role of women leaders like Catherine the Great and Queen Victoria. (a/y).

HIST 345. California History. (4).
A study of the history of California through the Indian, Spanish, Mexican and American periods to the present, and through an examination of its basic political, social, economic, educational and cultural traditions and institutions. The class particularly focuses on the relationship of the student to the community. (spring).

HIST 380. History of Modern China. (4).
This course explores the historical transformations that have led to the development of modern China. The course opens with an examination of the Qing dynasty, the last major dynasty in Chinese history, and then explores the forces, internal and external, driving China toward a major revolution in the 20th century.

HIST 382. Colonial Latin America. (4).
Explores the history of colonial Latin America from the prespective of the indigenous peoples, followed by the conflict of cultures with the arrival of Spanish and Portugese empire builders from Europe in 1492.

HIST 384. History of the Islamic World. (4).
This course examines the history of the Islamic world. Major topics may include the birth of Islam, the caliphate, interactions with the European and Asian worlds, the revival of Islam, problems of modernization and development, as well as cultural, military, political and intellectual innovations in the Middle East since the 7th century.

HIST 386. History of South Asia. (4).
An examination of the history, culture and politics of South Asia through the Hindu, Muslim and British periods to the present. The impact of these legacies on the problems of state-building, economic development, social change and foreign policy in contemporary India, Pakistan, Bangladesh, Sri Lanka and Nepal is approached from a comparative and regional perspective. (a/y).

HIST 388. History of East Asia. (4).
An introduction to the history, political thought and institutions of East Asia. Topics may vary in focus from Japan to Vietnam, or Korea. (a/y).

HIST 390. History and Historians. (4).
Using selections from the writings of great historians from the Greeks to the Post-modernists, this course introduces students to a study of the theories of history, the methods of historical research and the development of historical writing. (fall).

HIST 470. Teaching History - Capstone Pedagogy Maj. (2).
This class is dedicated to forging better history teachers for the secondary schools with explorations of pedagogical techniques for teaching American and World history. Includes observation time in the classroom. (spring).

HIST 472. History Capstone Senior Thesis. (2).
A seminar and intensive study of an important historical issue or topic based on research in primary sources and culminating in the production of a significant research paper. Rotating topics. Senior Majors Only. (fall).

HIST 482. Selected Topics. (4).

HIST 482C. ST: Select Topic (core). (1-4).
Select Topic approved for core requirement.

HIST 485. Travel Seminar: Japan's Ancient Capitals. (4).
This course covers the history of Japan's ancient imperial capitals, Nara and Kyoto, the successive centers of Japan's politics and culture from 500-1600, as well as the Tokugawa Shogunate's capital of Edo (now called Tokyo), from 1600-1868. Course topics will emphasize the adoption of Chinese civilization and its adaptation to indigenous culture by considering imperial institutions, Shinto and Buddhism, the role of the capital as the center of civilization and culture, as well as the wane of imperial authority with the rise of samurai power that culminated in the shift of Japan's political and cultural center from Kyoto to Edo. Students will also participate in a 2-week instructor-led travel study of Japan's capitals, thereby enabling students to incorporate observations and experiences in Japan with the subject matter acquired from lectures, readings, and student research. Prerequisite: Sophomore standing.

HIST 490. Independent Study. (1-4).

HIST 492. Internship. (1-4).
(graded P/NC only).

HIST 496. Directed Research. (1-3).

HIST 497. Departmental Honors Seminar. (2).

History Pedagogy

Bachelor of Arts in History Pedagogy

70 credits minimum; 33 upper division

ECON 203	General Economics	4
POLS 102	Theory & Practice American Government	4
POLS 307	California Politics	4
PSYC 200	General Psychology	4
SOC 101	Introduction to Sociology	4
IES 362	Career Decisions in Education	4
HIST 101	World Civilization to 1500	4
HIST 102	World Civilizations Since 1500	4
HIST 121	United States History to 1877	4
HIST 122	United States History Since 1877	4
HIST 201	Historical Geography	4
HIST 303	Medieval Europe & Mediterranean World	4
HIST 311	Modern Europe:1500 to Present	4
HIST 324	Society and Culture in U.S. History	4
HIST 345	California History	4
HIST 470	Teaching History - Capstone Pedagogy Maj	2
Select one of the following courses:		4
HIST 321	Colonial America	
HIST 326	Civil War: Slavery to Civil Rights	
HIST 341	United States Women's History	
Select one of the following courses:		4
HIST 380	History of Modern China	
HIST 384	History of the Islamic World	
HIST 386	History of South Asia	

HIST 388	History of East Asia	
Total Hours		**70**

Courses

Lower Division

HIST 101. World Civilization to 1500. (4).
Designed to give students a framework for further study in humanities, this course is a survey of the major civilizations and developments in world history to 1500, emphasizing the role of world religions, technological innovations and environmental conditions in shaping the world's major cultural traditions. Discussions focus on development of critical thinking and writing skills through examination of primary historical documents.

HIST 102. World Civilizations Since 1500. (4).
Studies the history of an increasingly interdependent world from 1500 to the present, emphasizing the origins and reasons for Western dominance and the impact of and reaction to that dominance in the rest of the world. Discussions focus on development of critical thinking and writing skills through examination of primary historical documents.

HIST 121. United States History to 1877. (4).
A broad study of American history from the first settlements through Reconstruction. Special attention is given to the attempt to create an American culture and society, the creation and development of the political system, the shifting roles of women and minority groups, the sectional crisis and Civil War and the postwar attempt to deal with the place of blacks in American society.

HIST 122. United States History Since 1877. (4).
A broad study of American history from Reconstruction to the present. Special attention is given to the impact of industrialization and urbanization, the changing roles of social classes and minority groups, the experience of the Depression and the persistent attempts at reform, and America's rise to global power, including relations with the Communist world.

HIST 201. Historical Geography. (4).
This course will introduce students to comprehensive spatial global view and with the basic analytical and conceptual skills required to study the historical relationship between human society and geography. This includes the study of how societies throughout history have been shaped by their physical environment and vice-versa. This includes the consideration of geography in relation to culture, religion, resources, social organization, economic activities, etc. Required for History Pedagogy Majors as defined by the State Standards and the History/Social Sciences This course does NOT fulfill the Core 21 History requirement.

HIST 282. Selected Topic. (1-4).

HIST 282C. ST: Select Topic (core). (1-4).
Select Topic approved for core requirement.

Upper Division

HIST 301. Ancient Greek World. (4).
A study of classical civilization from the late Bronze Age to Alexander the Great and the Hellenistic world. The class examines the ancient Greek world through art and literature, social, intellectual and philosophical developments, as well as economic, military and cultural dimensions. Students read original sources in translation as well as the works of modern scholars.

HIST 303. Medieval Europe & Mediterranean World. (4).
Covers the history of Europe and the Mediterranean from the collapse of the Roman Empire in the West through the 15th century. Emphasis is on the intellectual, cultural and economic as well as the military encounters of Europe with Byzantine and Muslim civilizations. Topics also include feudalism, the role of the Christian Church, the rise of towns and cities in Europe, and the legacy of the Middle Ages for our own time. (a/y).

HIST 305. Peoples of Europe. (4).
This course will examine a segment of European history through an examination of one of the peoples of Europe who have exercised a major influence on European history even while they are a "subset" or "minority" of the larger European population. The course alternates through three different peoples, including the Vikings, the Jews, and the Celts. The course seeks to understand how European history has been influenced by a variety of groups; European history is not a monolithic story of a single race or ethnicity but is instead a vibrant quilt made up of a great diversity of peoples, traditions, cultures, and histories.

HIST 311. Modern Europe:1500 to Present. (4).
An examination of the history of modern Europe through the study of some of its most important revolutionary changes. Focuses on the Scientific, English, French, Industrial and Russian revolutions as well as the Enlightenment and building the European Union. (a/y).

HIST 313. Europe and Empire. (4).
This course uses the imperial histories of Spain, England, and France to address how European imperialism helped to structure the modern world, anticipating today's globalization. It explores the impact of imperialism and colonialism on peoples and institutions both in Europe and in the rest of the world. (a/y).

HIST 317. War and Conflict in 20th Century Europe. (4).
Why was the 20th century perhaps the bloodiest in human history? This course explores the origins, practice and outcomes of modern warfare in Europe, including the influence of ideology and philosophy as well as politics and economics. Although detailed attention is given to World War I and II, it treats warfare in its broadest possible manifestation, and examines some of the longer term socio-political, economic and moral consequences of modern wars for Europe and the world. (a/y).

HIST 321. Colonial America. (4).
An exploration of the conflict of cultures during the formative years of the United States from settlement to the Constitution in 1789. Topics include Pre-Columbian Indian cultures, the empire builders of the New World, the environmental impact of the Western Europeans, the development of colonial society and the establishment of the new nation. (a/y).

HIST 324. Society and Culture in U.S. History. (4).
A thematic study of the social evolution of the United States during its first two centuries of development. Significant intellectual and cultural changes are emphasized through the lens of the five pillars of society, family, education, economics, politics, and religion. (a/y).

HIST 326. Civil War: Slavery to Civil Rights. (4).
An examination of sectionalism, Civil War and the Reconstruction with emphasis on primary source interpretation. Topics include racism and slavery, the contrasting natures of Northern and Southern societies, the politics of sectionalism, the causes and goals of the Civil War, and racial relationships and policies from Reconstruction to the modern civil rights movement. (a/y).

HIST 328. Cold War America. (4).
A close examination of modern United States history during the Cold War and after. Class sessions give attention to the political, social, economic and international developments of what has been termed "the Pax Americana." Focus is specifically on the role of presidents and policymaking, particularly the relationship with the Soviet Union. (a/y).

HIST 341. United States Women's History. (4).
An in-depth investigation of the interaction of society, women and the community in American history from 1600 to the present. Special emphasis is placed on the ways gender, ethnicity and class influence the role of women in the community with respect to legal rights, sexuality, attitudes and perceptions. (a/y).

HIST 343. Women in Global History. (4).
A thematic investigation of the "underside of history." The class explores several topics including women and their role in the development of agriculture and technology in the ancient Near East, the roles of women in the empires of Rome, the Moslems and China, the status of women in the Middle Ages in Europe and Japan, and the role of women leaders like Catherine the Great and Queen Victoria. (a/y).

HIST 345. California History. (4).
A study of the history of California through the Indian, Spanish, Mexican and American periods to the present, and through an examination of its basic political, social, economic, educational and cultural traditions and institutions. The class particularly focuses on the relationship of the student to the community. (spring).

HIST 380. History of Modern China. (4).
This course explores the historical transformations that have led to the development of modern China. The course opens with an examination of the Qing dynasty, the last major dynasty in Chinese history, and then explores the forces, internal and external, driving China toward a major revolution in the 20th century.

HIST 382. Colonial Latin America. (4).
Explores the history of colonial Latin America from the prespective of the indigenous peoples, followed by the conflict of cultures with the arrival of Spanish and Portugese empire builders from Europe in 1492.

HIST 384. History of the Islamic World. (4).
This course examines the history of the Islamic world. Major topics may include the birth of Islam, the caliphate, interactions with the European and Asian worlds, the revival of Islam, problems of modernization and development, as well as cultural, military, political and intellectual innovations in the Middle East since the 7th century.

HIST 386. History of South Asia. (4).
An examination of the history, culture and politics of South Asia through the Hindu, Muslim and British periods to the present. The impact of these legacies on the problems of state-building, economic development, social change and foreign policy in contemporary India, Pakistan, Bangladesh, Sri Lanka and Nepal is approached from a comparative and regional perspective. (a/y).

HIST 388. History of East Asia. (4).
An introduction to the history, political thought and institutions of East Asia. Topics may vary in focus from Japan to Vietnam, or Korea. (a/y).

HIST 390. History and Historians. (4).
Using selections from the writings of great historians from the Greeks to the Post-modernists, this course introduces students to a study of the theories of history, the methods of historical research and the development of historical writing. (fall).

HIST 470. Teaching History - Capstone Pedagogy Maj. (2).
This class is dedicated to forging better history teachers for the secondary schools with explorations of pedagogical techniques for teaching American and World history. Includes observation time in the classroom. (spring).

HIST 472. History Capstone Senior Thesis. (2).
A seminar and intensive study of an important historical issue or topic based on research in primary sources and culminating in the production of a significant research paper. Rotating topics. Senior Majors Only. (fall).

HIST 482. Selected Topics. (4).

HIST 482C. ST: Select Topic (core). (1-4).
Select Topic approved for core requirement.

HIST 485. Travel Seminar: Japan's Ancient Capitals. (4).
This course covers the history of Japan's ancient imperial capitals, Nara and Kyoto, the successive centers of Japan's politics and culture from 500-1600, as well as the Tokugawa Shogunate's capital of Edo (now called Tokyo), from 1600-1868. Course topics will emphasize the adoption of Chinese civilization and its adaptation to indigenous culture by considering imperial institutions, Shinto and Buddhism, the role of the capital as the center of civilization and culture, as well as the wane of imperial authority with the rise of samurai power that culminated in the shift of Japan's political and cultural center from Kyoto to Edo. Students will also participate in a 2-week instructor-led travel study of Japan's capitals, thereby enabling students to incorporate observations and experiences in Japan with the subject matter acquired from lectures, readings, and student research. Prerequisite: Sophomore standing.

HIST 490. Independent Study. (1-4).

HIST 492. Internship. (1-4).
(graded P/NC only).

HIST 496. Directed Research. (1-3).

HIST 497. Departmental Honors Seminar. (2).

Honors

(non major/minor)

The University Honors Program (UHP) provides enhanced educational opportunities for Cal Lutheran’s most academically motivated students. The mission of the UHP is to challenge students at a higher level as they grapple with deeper questions of life, identity, and purpose within a global community. It encourages intellectual exploration and experimentation by involving students in an intensive study of works that bridge diverse historical contexts, cultural settings and fields of knowledge. By balancing tradition and innovation and discovering or creating links between areas of knowledge currently separated by disciplines and departments, the UHP encourages students to think holistically and critically about these works and the global issues they illuminate.

The UHP is open to students by invitation upon admission to Cal Lutheran, although other admitted students may submit an appeal to the Director of the University Honors Program to be considered for admission to the program. In addition, up to five transfers a year may petition to enter the Honors Program either during their sophomore or the beginning of their junior year.

First-year UHP students must complete one year-long foundational seminar series. One of these courses is Humanities Tutorial, a course that explores a wide array of themes in literature and philosophy. From the origins of Western thought in Greek philosophy and literature to an extensive survey of contemporary themes (both Western and non-Western) in more recent writings, the Humanities Tutorial foundational seminar provides a stimulating atmosphere in which to explore important ideas in the humanities.

Requirements for completion of the Honors Program:

During their second, third and fourth years, University Honors students must complete at least three honors seminars on special topics (preferably one in each year) to graduate with University Honors. Transfer students will be required to complete at least three upper-division honors seminars to achieve University Honors. Students who successfully complete these criteria will receive University Honors upon graduation. Students who complete all five courses and maintain a Cal Lutheran GPA of 3.5 or higher will receive University Honors with Distinction upon graduation.

Take both required courses freshman year		
HNRS 115	The Humanities Tutorial 1 (Take both courses freshman year)	4
HNRS 116	The Humanities Tutorial 2 (Take both courses freshman year)	4
Take one course each year (3 courses)		
HNRS 300	Experimental Modernism	4
HNRS 301	Course HNRS 301 Not Found	4
HNRS 302	Rites of Passage	4
HNRS 303	Course HNRS 303 Not Found	4
HNRS 304	Course HNRS 304 Not Found	4
HNRS 306	Masterpieces of German Literature	4
HNRS 314	Medieval Manuscript Culture	4

HNRS 316	Religion and Hip-Hop	4
HNRS 317	Topics in German: Nietzsche	4
HNRS 323	Social Media and Politics	4
HNRS 324	Course HNRS 324 Not Found	4
HNRS 326	Topics in Poli Sci: Global Development	4
HNRS 328	Cold War America	4
HNRS 329	Latinos and Public Health	4
HNRS 344	Topics in ART: TBA	4
HNRS 402	Postmondernism	4
HNRS 413	Music and the Civil Rights Movement	4
HNRS 432	Freud and Beyond	4
HNRS 477	Cityscapes	4
HNRS 482	Honors Seminar	4
HNRS 498	Goodness, Truth, and Beauty	4

Courses

Lower Division

HNRS 105. Arts and Civilization I. (4).
The course will explore the relationship between theatre and civilization in the ancient and medieval worlds. With a specific focus on the theme of warfare, we will examine the history of major events from the Persian Wars to the Crusades by reading the accounts of ancient and medieval historians alongside ancient and medieval playwrights. We will discuss major questions surrounding this theme. How did people think about war and how did they depict it? How did theatrical performance serve to endorse, justify, or criticize war? How did it serve to aid veterans in processing their martial experiences? This is the first semester in a two-course sequence (HNRS 105 and HNRS 106); students may only earn CORE 21 credit for both History and Non-Participatory Visual and Performing Arts by completing the full two-course sequence. In addition, HNRS 105 will meet the Speaking Intensive requirement.

HNRS 106. Arts and Civilization II. (4).
This course integrates the study of the history of an increasingly interdependent world from 1500 to the present with music and the arts as it relates to that history. The course will focus on key transitional periods in modern world history, through the lens of shifting ideologies (in religion, politics, economics, and society) and the contribution of music and art to that narrative, as a form of instigation as well as reaction. Guest lecturers will offer their expertise in music, art, or other media, and facilitate student understanding of their place in the historical narrative. Lectures, class discussion, and writing assignments will focus on development of critical thinking and writing skills through examination of primary historical documents as well as forms of music, art, or media. This is the second semester in a two-course sequence (HNRS 105 and HNRS 106); students may only earn CORE 21 credit for both History and Non-Participatory Visual and Performing Arts by completing the full two-course sequence.

HNRS 115. The Humanities Tutorial 1. (4).
The Humanities Tutorial is a team-taught, two-semester course sequence that introduces students to a number of significant works in the disciplines of philosophy and literature. The fall semester focuses on the origins of Western Culture in Ancient Greece, and includes authors such as Homer, Sappho, Plato, Aristotle, Aeschylus, Sophocles, and Euripides. Pre-requisite: Enrollment in the University Honors Program.

HNRS 116. The Humanities Tutorial 2. (4).
The second semester of the year-long, team-taught Humanities Tutorial uses the disciplinary methods of literature and philosophy to study contemporary themes and issues. In addition to providing practice in the skills of analysis, argument, and critical and reflective interpretation, the course continues the interdisciplinary examination of philosophy and literature with a focus on the themes of intimacy, justice, and power in both the ancient and contemporary world. This examination will also focus on the ways in which racial and ethnic, sex and gender, and socioeconomic/class issues impact intimacy, justice and power. Prerequisites: HNRS 115 and enrolled in the University Honors Program.

HNRS 120. Social Science Seminar. (4).
his interdisciplinary course uses the lenses of power and privilege to introduce students to academic disciplines within the social sciences. Beginning with a foundation in the social sciences, students will explore research and apply analytical perspectives from related fields of study to examine social issues, public policies, and institutions. In particular, we will focus on how power and privilege create intersecting dynamics of inequalities (e.g., social, political and economic) which impact our lived experiences. One initial goal of the course is to increase your understanding of forces that shape definitions and meanings of different sources of power: e.g., socioeconomic status, sex/gender, sexuality, age, health, race/ethnicity, and immigration status. As the course progresses, we'll focus more in-depth on contemporary issues, drawing on readings and lectures from experts who will bring to bear relevant theories and methods from their respective academic disciplines.

HNRS 130. Natural Science Seminar. (4).
The Natural Sciences Seminar is an interdisciplinary course that addresses scientific methods, knowledge, and applications in their social, historical, and cultural contexts. This interdisciplinarity will be reflected in a co-taught format, drawing on the skills, expertise, and insight from faculty from in the Humanities and the Natural Sciences, who will present a variety of viewpoints, and introduce a variety of methods, for the study of nature and the environment.

HNRS 182. Selected Topic:. (4).

HNRS 282. Selected Topic. (1-4).

Upper Division

HNRS 300. Experimental Modernism. (4).
Between 1900-1940, the rich conversations and artistic production of three highly influential communities of writers and artists--the Bloomsbury group in London, Stein and Picasso's circle in Paris, and participants in the Harlem Renaissance in New York--caused the art salon to become a fashionable and prominent symbol of the mondernist era. This interdisciplinary course explores the role of these three salons 1)in the development of new and experimental art forms, including cubism, post impressionism, and literary modernism; and 2)in shaping public discourses about identity and identity politics that still impacts us today. Primary texts include poetry, autobiographies, novel, paintings, and philosophical manifestos from the modernist era. Secondary texts includes work by contemporary scholars in fields ranging from literature and art history to women's, gender, queer, black and cultural studies.

HNRS 302. Rites of Passage. (4).
Rites of passage are the hinges of human life, allowing individuals and communities to negotiate complex life transitions meaningfully in relationship to one another, the roles and responsibilities of one's society, the land and creatures among whom one lives, and the divine and/or the transcendent nature of human experience. Yet as traditional cultural and religious traditions erode, many individuals, families, and communities are left without the psychic/communal structures these rites once provided, often to devastating effect. This course will examine the importance of rites of passage in human development, the impact of their widespread loss in globalized/virtual childhood, adolescence, and adulthood today, and the creation of new or renewed forms of such rites for healthy and resilient global-ecological citizenship.

HNRS 305. Imagining Climate Crisis. (4).
This course explores the challenges to human imagination and comprehension posed by our current climate crisis through the lens of "climate fiction" or "cli-fi," a genre of literature that addresses environmental catastrophe. Through analysis of literature in the context of contemporary literary debates, students will assess the power and limits of fiction to close the gap between human consciousness and planetary scale, cause and effect, near and far, and public awareness and scientific discourse, and ultimately ask, can fiction help save the world?.

HNRS 306. Masterpieces of German Literature. (4).
The study and interpretation of selected major works from German literature in English translation, supplemented by outside reading and individual reports.

HNRS 307. Visual Arts in Diverse Communities. (4).
This course examines the impact of visual art education for diverse populations by exploring the educational, social, and personal outcomes emerging from experiences with visual art. As well, issues related to inclusion and access for varied learners will be uncovered through reading, writing, discussion, reflection, research, and experiential learning. Building upon the historical, philosophical, psychological, and social factors that influence art education today, students will engage in critical inquiry and art making to deepen their understanding of visual art education.

HNRS 314. Medieval Manuscript Culture. (4).
This course brings the student into the medieval environment that created a unique form of communication broadly known as The Manuscript. We will study manuscripts from medieval European and Muslim cultures, discussing the roles that these artefacts played in the cultures - both religious and secular - that they inhabited. We will use multiple methods to study these artefacts: Textual Critical Analysis reads texts from different periods to understand the ideas that were important to the people who were reading and/or disseminating them; Material History investigates material objects and analyses their creation, function, and physical importance in cultures; Art History utilizes the lens of artistic method and content to evaluate artistic contributions to particular societies; Theology makes inquiries into how people thought about the Divine, and the ways in which they understood themselves in relationship with the Divine and with each other.

HNRS 316. Religion and Hip-Hop. (4).
Hip-hop culture, originally a product of America's black and brown underclass, is a global phenomenon that deserves critical study. In addition to emceeing (rap music), hip-hop culture includes fashion/style, dancing and DJ'ing, and subversive forms of visual art. It can be simultaneously commercial and underground, chauvinist and liberationist, widely co-opted and struggling to remain beyond adoption. This course is rooted in new historiographies and ethnomusicologies of hip-hop culture and interrogates the culture's relationship to religion in three ways: (1) the religious streams within hip-hop culture, (2) hip-hop culture as a meaning-making system that parallels the work of religions, and (3) hip-hop culture as giving voice to global religious concerns beyond its original American urban contexts. (Open to University Honors Program students; lead professor may approve enrollment of other students if 3.5+ cumulative GPA and/or Junior or Senior standing in major of professor.).

HNRS 317. Topics in German: Nietzsche. (UG).
This course will investigate materials concerning Friedrich Nietzsche, one of the most outspoken and influential philosophical and literary figures of the 19th century, who set the stage for the philosophical, political, and psychological perspectives of the 20th and 21st centuries. By exploring a significant body of Nietzsche's philosophical literature, the course will assist students in conceptually placing Nietzsche's theories and works into an appropriate context within ideas that began with earlier philosophers (e.g., Hegel, Marx and John Stuart Mill). Through careful scrutiny of his works, methods and epistemology, students will evaluate Nietzsche's belief that philosophy should be melded with art, literature, and music. By exploring balanced argument and critical, reflective thought-to present more complete understanding Nietzsche's complex thought and how he among other theorists still vitally affects today's cultural, literary and philosophical worlds. Prerequisites.

HNRS 318. Political Phil of U S Constitution & Gov. (4).
This course explores and investigates the philosophical underpinnings of the United States' founding, constitution, and government. The focus will be on primary texts of the US political system (Declaration of Independence, Constitution, and the Federalist Papers) as well as some of the foundational primary texts in Western political philosophy that influenced and informed the US founders and framers as they worked to create a new Republic. This philosophical investigation of the United States' historical political theory, debate, and creation will also allow us to consider and apply the principles and theories to contemporary moral, political, and legal controversies.

HNRS 323. Social Media and Politics. (4).
This course explores the relationship between new media platforms and shifts in the principles and practices of citizenship. Combining theories from communication and political science, as well as drawing on key research methodologies from both disciplines, we will consider how social media, algorithms, and web-based interactivity portend significant changes in the US polity and the articulation of citizenship.

HNRS 326. Topics in Poli Sci: Global Development. (4).
The Center for Global Development defines development as "improvements in the conditions of people's lives, such as health, education, and income." In this course, students will explore sustainable global development by addressing three questions. (1) What are the causes and consequences of global inequality and poverty? (2) What are the challenges and opportunities available to promote global development? (3) How can global actors play roles in promoting global development? Upon completion of this course, students will acquire a comprehensive understanding of the theoretical and empirical underpinnings of global development. Analyzing theories and concepts of development will inform students how to "think" about development. By designing a plan of action, students will learn how to "do" development. Students will also conduct field-based research that includes in-depth interviews with development practitioners/scholars and/or site observations of relevant organizations/events.

HNRS 328. Cold War America. (4).
A close examination of modern United States history during the Cold War and after. Class sessions give attention to the political, social, economic and international developments of what has been termed "the Pax Americana." Focus is specifically on the role of presidents and policymaking, particularly the relationship with the Soviet Union. (a/y).

HNRS 329. Latinos and Public Health. (4).
This course aims to enhance students' awareness of major theories, concepts, issues and research studies related to the physical and mental health of Latinos in the United States. Particular attention will be focused on the diversity of the Latinx experience of the U.S. health care system in terms of country of origin, race, class, gender, and generation. In particular, this course will draw on scholarship from the fields of Sociology, Epidemiology, Cultural Studies, History, and Social Ecology. Students will also be introduced to various theories and methodologies including, quantitative and qualitative techniques; students will also work with less mainstream methods, such as testimonios and autoethnography.

HNRS 344. Topics in ART: TBA. (4).

HNRS 402. Postmondernism. (4).
Postmodernism explores the relationship between art, science, and politics in contemporary philosophy. The course begins with a consideration of the legacies of Freud, Nietzsche, and Marx and continues with an analysis of such authors as Breton, Heidegger, Benjamin, Cortázar, Borges, Derrida, Foucault, Heisenberg, and Rorty. Uses film (including students' own short surrealist films) literature, and philosophical texts. Open to students in the University Honors Program; lead professor may approve enrollment of limited number of students not enrolled in the University Honors Program (who have minimum 3.5 cumulative GPA and/or have Junior or Senior standing in the academic major of the lead professor).

HNRS 413. Music and the Civil Rights Movement. (4).
The purpose of this course is to examine the southern civil rights movement (CRM) from 1954 to 1968. This course integrates discussion and analysis of the CRM with music. Music was very important to the movement because it inspired both participants and supporters to continue the struggle until several victories were won. Emphasis in this course is on matching the music with a political event, ideology and/or individual. This course includes discussion on the personal involvement in political and social activities by the singers and performers themselves. Tactics and strategies of the CRM are examined and their relationships to music are explored by relying on music with explicitly political lyrics and messages as well as those with lyrics and composition that convey spiritual and festive elements.

HNRS 432. Freud and Beyond. (4).
The purpose of this course is to introduce students to psychoanalytic theory and the impact of the psychoanalytic theory on society. Students will examine the development of psychoanalysis from an historical perspective beginning with an in depth investigation of Freud, his life and his classical theory. Next, the course will examine the development of psychoanalysis and its departure from traditional Freudian ideology. Students will then consider the four major branches of psychoanalysis including drive theory, ego psychology, object relations, and self psychology. Finally, students will examine contemporary view of psychoanalysis with an emphasis on the integration of psychoanalytic theory and the neurobiology of attachment.

HNRS 446. Poetry & the National Consciousness. (4).
This course focuses on a selection of contemporary U.S. poets from traditionally underrepresented groups whose work explicitly explores identity, inequity, power, and prejudice in the U.S. With emphasis on exploration and experimentation, students in the course will read poems to appreciate the language, musicality and other poetic choices in form and style; study how poets use and create new forms to wed the personal with the political; research cultural context of poems; and identify images of the U.S. past and present in the poems studied. Prerequisite: ENGL 111.

HNRS 477. Cityscapes. (4).
Through art, politics, and philosophy, this course offers an in-depth study of the cultural landscape of selected global cities. Along with texts, films, and music from such centers as Prague and Mexico city, students develop their own "cityscape" from a region of their choice (often based on their off-campus experience) as their final projects. Open to all students, this course fulfills the requirement for an honors seminar and is the capstone for the Global Studies major.

HNRS 482. Honors Seminar. (4).

HNRS 490. Independent Study. (1-4).

HNRS 498. Goodness, Truth, and Beauty. (4).
This course examines the relationship between contemporary philosophy and contemporary biology in relation to the major triad of categories dealing with aesthetics, ethics, and the search for truth.

Hospitality and Tourism Management

The vision for the Hospitality and Tourism Management (HTM) major is to develop future hospitality leaders with the knowledge, skills, and abilities to acquire entry-level management positions with prestigious hospitality firms.

This curriculum builds upon the strong foundation of the university's liberal arts core and the School of Management's business core curriculum (accounting, finance, and marketing). At Cal Lutheran, students will develop not only industry specific skills but also managerial abilities that will serve them well in their career.Beyond contributing to and endorsing the curriculum's development, local hospitality leaders will also be supporting the HTM program by providing experiential learning opportunities through internships and course collaboration. While future graduates of the Hospitality and Tourism program will have numerous career options, graduates will be well positioned for careers in lodging operations, event management, food and beverage management, and travel and destination marketing.

70 major credits. 42 credits upper division		
Business Foundations (take all)		
MATH 145	Business Mathematics	4
BUS 251	Principles of Accounting	4
BUS 252	Managerial Accounting	4
BUS 301	Communication for Managers	4
ECON 203	General Economics	4
ECON 311	Statistical Methods	4
Hospitality & Tourism Foundation Courses		
HTM 101	Intro to Hospitality & Tourism Studies	4
HTM 102	Information Systems/Tech Hospitality	2
HTM 103	Values, Prof Standard, Protocol	2
HTM 201	Hosptlty Operations Mgmt Theory Practice	4
HTM 220	Selection, Procurement & Supply Mgt	4
HTM 330	Hospitality Org Behavior, Hr Mgt	4
HTM 374	Business and Hospitality Law	4
HTM 375	Marketing & Sales for Global Hospitality	4
HTM 391	Finance for Global Hospitality	4
HTM 410	Quality,Safety,Service & Guest Mgmt	4
Select one of the following Ethics courses		
PHIL 370	Business Ethics	4
RLTH 350	Contemporary Christian Ethics	4
Internship (2 internships required)		2-4
HTM 492	Internship	1-4
Capstone		
HTM 469	Hospitality Business Strategy	4
Select one of the following electives		
BUS 443	Event Planning and Management	4
HTM 350	Entrepreneurship in Hospitality	4
HTM 430	Global Issues in Hospitality Management	4
HTM 440	Leisure Mgt & Club Operations	4
HTM 441	Cruise Ship Business & Operations	4

Courses

Lower Division

HTM 101. Intro to Hospitality & Tourism Studies. (4).
This course is designed to provide students with a comprehensive overview of the hospitality and tourism industry on a national and international level. The course will focus on segments and stakeholders that play a significant role in the hospitality and tourism, industries, and it will provide an introduction to the many business processes in organizations in these industries. Students will learn about and reflect on the different aspects and elements of hospitality and tourism on a professional level, gain knowledge of the many different functions and career opportunities, and thus acquire a good understanding of the basis necessary for further study in hospitality management.

HTM 102. Information Systems/Tech Hospitality. (2).
Introduces management information systems (MIS) technology and its application to hospitality sectors from managerial and strategic perspectives. Investigates the value and use of information and a competitive tool in the hospitality industry. Surveys computer applications, products and trends in gathering, analyzing, storing and communicating information within hospitality sectors. Focuses on value of information technology for improving business processes.

HTM 103. Values, Prof Standard, Protocol. (2).
This course focuses on the role of personal and organizational values, professional standards, protocol and social etiquette in creating the customer experience. At the end of the course, students will understand the importance of values as guidelines and they will have learned rules of good behavior for the most common social and business situations in the hospitality industry. This course will also cover topics and special applications, such as dining and meeting, personal and telephone communication, email, social media and business writing, personal appearance and aligning with workplace expectations, image management, international etiquette, and others.

HTM 201. Hosptlty Operations Mgmt Theory Practice. (4).
This course provides students with knowledge about the significant roles that Service, Restaurant, Rooms, Real Estate and Facility Management plays in the hospitality industry. The course addresses the challenges of the service industry, with particular attention to food service and hotel operations. With focus on hotels and restaurants, the course explains the core operations in managing renovation and construction of real estate, the ability to analyze the equity in prospective real estate investments and how these tools can help business owners and managers become better decision makers. At the end of this course, students will be able to understand the importance of examining different investment opportunities, renovation and modernization projects and how coordination of resources can benefit the business economy.

HTM 220. Selection, Procurement & Supply Mgt. (4).
This course will prepare students to understand contemporary principles and to employ methods of effective and sustainable food, beverage, and supply purchasing necessary to support food preparation and service departments of hospitality operations. The course will also cover topics such as global distribution channels and intermediaries in the supply chain, food distributor financial statement analysis, product specifications, food grading, comparative buying, evaluation and selection of suppliers, development of buying strategies, influence of economic and environmental factors on supply, purchase timing and inventory management using current industry technology and software.

Upper Division

HTM 330. Hospitality Org Behavior, Hr Mgt. (4).
Occupations in the hospitality industry require a high degree of awareness of social interaction. This course introduces students to leadership principles and organizational behavior in the hospitality and tourism industries. It provides students with the opportunity to develop a deep understanding of how to manage people in the workplace with a sensitivity to cultural differences, and how to be an effective leader as a hospitality manager. It also introduces students to the human resource management function in the hospitality and tourism industries. It provides students with the opportunity to develop a deep understanding of the importance of human capital in hospitality and tourism, and it explores various human resource functions including recruitment, selection, placement, compensation, motivation, performance appraisal, as well as selected legal issues from a skills perspective.

HTM 350. Entrepreneurship in Hospitality. (4).
The tourism and hospitality industries are especially attractive to entrepreneurs. Entrepreneurial companies like AirBnB, TripAdvisor and Yelp! have changed the landscape of the industry, and there's much more change to come. This course introduces students to entrepreneurship in the tourism and hospitality industries, and to the concepts of business and market models, specifically as they apply to these industries. Students will learn about the history of the industries and study both established and emerging business models. The course will introduce the unique relationship between technology and its effect, especially the potential for disruptive change. The course leads students through the major steps of opportunity identification, value proposition design, and new venture realization, blending theory with practice. Students will be challenged to apply the principles, concepts and frameworks to real life situations, and will conceive and develop their their own startup ideas.

HTM 374. Business and Hospitality Law. (4).
This is a high-level course in hotel and restaurant law with an emphasis on risk management and security. The student is introduced to the fundamental laws, rules and regulations applicable to the hospitality industry, both in the U.S. and internationally. The case study approach is used to develop critical thinking and an awareness and understanding of the legal problems confronting the hospitality manager and executive in policy and decision-making.

HTM 375. Marketing & Sales for Global Hospitality. (4).
This course provides an introduction to marketing and sales for Hospitality majors. The goal of the course is to introduce the basic concepts of marketing and its application in the hospitality industry. Key areas of discussion include the unique attributes of services marketing, marketing research, consumer behavior, market segmentation, product planning, branding, distribution systems, pricing, promotion, and direct and online marketing. A variety of teaching techniques will be used to create an interactive learning environment.

HTM 391. Finance for Global Hospitality. (4).
This course provides an introduction to the fundamentals of hotel and restaurant finance and develops an understanding of the strategic roles that financial analysis and finance play in internal management decision-making. Topics include security valuation, risk analysis, working capital management, financial budgeting and planning, time value of money concepts, financial ratio analysis and capital budgeting.

HTM 410. Quality,Safety,Service & Guest Mgmt. (4).
This course introduces students to current service management styles, practical issues, and future trends in the hospitality and tourism industry. The purpose of this course is to provide students with the opportunity to obtain a comprehensive understanding of the customer and quality service experience. Students will learn how services differ from goods, and what these differences imply for operational efficiency and management expertise in hospitality businesses. Introduces students to sanitation and safety principles in hospitality operations. Addresses issues impacting consumers and operators, focusing on quality of service and product delivery, and the systems required to deliver those consistently. Examines characteristics of food, supplies, and equipment as related to quality, sanitation, cleanliness, and safety.

HTM 430. Global Issues in Hospitality Management. (4).
This course will focus on a broad range of subjects ranging from global macro-trends in the hospitality industry to operations in international hospitality businesses. Special attention will be given to the impact of cross-cultural differences (especially those in non-Western cultures) on issues and situations in the management of a diverse, multi-cultural workforce, problem solving methods, and development and implementation of practical solutions.

HTM 440. Leisure Mgt & Club Operations. (4).
This course examines the growing segment of fitness, wellness, spa and club operations within the hospitality industry. Students will develop a deep understanding of existing and emerging trends, and they will take a comprehensive look at industry basics from establishing a wellness business to marketing and administrative practices, client management, and more. The course will also investigate different approaches to maintaining a healthy lifestyle and therapeutic programs.

HTM 441. Cruise Ship Business & Operations. (4).
This course is designed to equip students with a deep understanding of cruise operations and management, as well as providing an essential overview of elements relating to life and work on a cruise ship from both an employee and a customer perspective. Students will have the opportunity to develop a detailed knowledge of the cruise industry, especially cruise marketing and cruise management. Topics include history, marketing of the cruise line industry, sectors and global trends, ship design, operations, career opportunities, customer service, regulation, safety, crisis management, among others.

HTM 469. Hospitality Business Strategy. (4).
Complex hospitality business cases integrating the fields of marketing, finance, law, accounting, economics and industrial management provide a realistic view of how general managers deal with conceptual and real-world business problems. Cases include analysis of strategic, interpersonal business problems from the hospitality industry.

HTM 492. Internship. (1-4).

Innovation and Entrepreneurship (Minor)

The minor in Innovation and Entrepreneruship is aimed at students majoring in subjects other than business – providing a solid foundation in innovation, value creation, and the realization of new business ventures. The minor is deeply interdisciplinary, incorporating elements of economics, sociology, communications, finance, general business and others. 20 credits minimum.

Minor in Innovation and Entrepreneurship

20 credits minimum

Required:		
ENT 101	Creativity and Innovation	4
ENT 301	Starting a Startup From Ideas to Action	4
Select one or both of the following:		
ENT 401	Launching a Startup	4
ENT 430	Global Entrepreneurship	4
Select one or two of the following:		
BUS 376	Sales Management	4
ENT 420	Agile Product Development	4
ENT 421	Entepeneurial Marketing & Selling	4
ENT 423	Legal Aspects of Entrepreneurship	4
ENT 424	Growth-Stage Venture Management	4
ENT 482	Special Topics (Required)	1-4

Courses

Lower Division

ENT 101. Creativity and Innovation. (4).
This course is for students who want to realize their potential as creative thinkers and problem solvers and to tackle challenges that have a global impact. In this course, you will learn to see what others do not see, to challenge what exists, to imagine what could be, and develop the skill sets to make your vision a reality. This course is designed to inspire and prepare you with the skills to combine innovation, creative thinking, entrepreneurship and business principles to turn ideas into business ventures, design innovative products and services in existing companies, or channel a passion for public service into practical solutions to the world's most pressing social, economic and environmental problems. By analyzing and understanding problems from a human perspective and applying the principles of entrepreneurship to bring them into existence, you will leave with a set of tools for developing truly innovative and disruptive ideas that can change the world.

Upper Division

ENT 301. Starting a Startup From Ideas to Action. (4).
This course focuses on the transition from business concept to the evaluation of the technical and market "doability" of the project. Feasibility involves reevaluating core assumptions of the original business model through customer feedback and prototype development. The course explores ways that entrepreneurs reiterate their businesses, making adjustments as new information is generated thereby insuring product-market fit. The course also looks at the assembly of critical human, financial and social capital in the venture creation process. There is an experiential component that involves interviewing potential customers, business partners and other venture helpers.

ENT 401. Launching a Startup. (4).
This is a culminating experience where students consider the steps involved in moving a business idea from feasibility to implementation. Students will either be involved in the development of a business plan for an independent venture, or will work in an internship on an entrepreneurial project.

ENT 420. Agile Product Development. (4).
Techniques for defining product features based on customer need, prioritizing, and refining into minimum viable product (MVP).

ENT 421. Entepeneurial Marketing & Selling. (4).
Techniques for marketing (prospect acquisition) and selling (persuading and negotiating).

ENT 423. Legal Aspects of Entrepreneurship. (4).
Elaboration on the aspects of the law most relevant to entrepreneurship: incorporation, intellectual property, employment law, customer and supplier contracts.

ENT 424. Growth-Stage Venture Management. (4).
Once a start-up discovers a viable business model, achieves product-fit, and acquires its first customers, attention turns to scaling the business rapidly, This course will teach how to plan, organize and control rapid business growth.

ENT 430. Global Entrepreneurship. (4).
Today's economy is increasingly borderless. This course is an exploration of the intersection of business and culture for companies ranging from startups to large enterprises seeking to grow beyond their national boundaries to develop, translate, adapt, and promote products and services to international markets. Special attention will be given to the impact of cross-cultural differences (especially those in non-Western cultures) on issues and situations in the development and management of a diverse, multi-cultural workforce and globalization teams. Prerequisite: ENT-101.

ENT 482. Special Topics. (1-4).
Studies in specific industries or activities that are of interest to our geographic area, student body, or adjunct instructor.

ENT 490/492. Independent Study. (1-4,1-4).

Interdisciplinary

For students whose academic goals are not best served by a traditional major, Cal Lutheran offers the opportunity to design an interdisciplinary major in which the student selects courses from more than one department. Independent studies and experiential learning can also be included in the major.

Students work with a faculty mentor and faculty advisory committee to develop a proposal for a course of study that meets the student’s needs. Examples of such majors include environmental law and policy; childhood development and creativity; graphic design; systems analysis; and human resources management.

Major Requirements for a B.A. or B.S. in Interdisciplinary:

40 credits with no more than 30 from one department; 24 of these credits must be upper division.

Guidelines:

1. Normally a student should declare an interdisciplinary major by the second semester of the junior year. Exceptions may be made at the discretion of the advisory committee and appropriate academic dean.

2. The student, with the help of a faculty advisor, shall submit an application (https://www.callutheran.edu/students/registrar/forms.html#undergraduate) to the Dean of the College of Arts and Sciences. The proposal shall consist of:
   - A rationale for the major, including a description of the major and an explanation of what makes the courses a cohesive major rather than a random collection of courses.
   - A list of all courses contained in the major, listed under respective departments. Normally the major should represent at least three departments with no more than 30 units from any one department.
3. The Dean of the College of Arts and Sciences, in consultation with the faculty advisor, will appoint a committee of at least three faculty members to review the proposal. At least one professor from each department represented in the major will serve on the committee.
4. If the committee approves the major, the application will be sent to the Dean of the College of Arts and Science (or other appropriate academic dean) and the Registrar for final approval.
5. Any changes in the student's program must be submitted in writing to the advisory committee, Dean, and Registrar for approval.

Courses

INTD 490. INDEPENDENT STUDY. (1-4).

INTD 496. Directed Research. (0).
A university-wide research course with individual department designations.

Languages and Cultures

(Includes: Chinese (p. 182), French (p. 183), German (p. 185), Greek (p. 187), Hebrew (p. 187), and Spanish (p. 188))

California Lutheran University's mission commits it to preparing its students to be leaders in a global society. To do this, it insists that its students be conversant in at least one language beyond their native tongue, and offers courses, majors, and minors in a number of languages and cultural areas. The Languages and Cultures Department reflects CLU's intention to provide strong language instruction, engage students closely with other cultures, work across disciplines, language families, and cultures, and promote study abroad and in other cultural contexts. CLU students can expect growth and change from this dynamic and important department.

Proficiency Requirement

All CLU students are required, for Core-21, to meet the Foreign Language Proficiency in one of the following ways: by achieving a satisfactory score on a Language Proficiency Exam; by passing two courses in the same language; or by passing one course at the second semester level.

For further information and scheduled testing dates, contact the Center for Academic and Accessibility Resources.

Chinese

(non major/minor)

Conscious of its location on the Pacific Rim, California Lutheran University is excited to be able to offer courses in Chinese at both beginning and intermediate levels. Cal Lutheran expects growth in this field as its students recognize the usefulness of learning one of the world's most ancient languages and experiencing the culture of one of the largest and most influential nations on earth.

Courses

Lower Division

CHIN 101/102. Elementary Chinese. (4,4).
The beginning courses in Chinese are for students with no previous knowledge of the language. These courses will focus on enabling students to communicate effectively in Mandarin Chinese in a cultural context. Training in all the communicative skills, i.e., listening, speaking, reading, and writing, as well as the acquisition of standard pronunciation of Mandarin Chinese, will be included in this course. In addition, a comparative approach will be used to contrast different social/cultural issues and values between modern China and western countries through the study of the language. Prerequisite CHIN 102: CHIN 101 or equivalent.

CHIN 201/202. Intermediate Chinese. (4,4).
These courses continue introducing Mandarin Chinese characters, vocabulary, grammar, as well as Chinese culture and computing to students. Intermediate Chinese focuses on the knowledge and critical perspectives in the areas of contemporary society and non-Western culture. Prerequisites CHIN 201: CHIN 102 or equivalent; CHIN 202: CHIN 201 or equivalent.

CHIN 282. Selected Topics. (1-4).

CHIN 282C. ST: Select Topic (core). (1-4).
Select Topic approved for core requirement.

CHIN 285. Travel Seminar. (2).

Upper Division

CHIN 482C. ST: Select Topic (core). (1-4).
Select Topic approved core requirement.

CHIN 490. Independent Study. (1-4).

French

California Lutheran University's French curriculum offers students many educational opportunities through course work, study abroad and extracurricular activities on and off campus. A solid foundation in French enables the Cal Lutheran graduate to choose from many career alternatives or admission to a graduate school for advanced study of the language.

The technology-enhanced program is designed to provide students with a strong competency in the French language and an understanding of the French cultures throughout the world. Emphasizing an interactive learning environment and maintaining small class sessions, the curriculum includes conversation and composition as well as film, literature, phonetics and linguistics. Audio and videotapes, videodisks and CDs simulate realistic situations, while students and faculty explore French, the second language of the Internet and the second global language.

Both French major and non-major students are encouraged to study abroad in a francophone location. They may choose from partner institutions in Paris, Aix-en-Provence and Avignon, Grenoble, and Cannes for an academic year, a semester or summer.

Students enjoy participating in activities sponsored by the Cal Lutheran French Club and the French national honor society, Pi Delta Phi, which afford opportunities to practice verbal skill and experience French culture outside the academic environment. French majors may be selected as tutors or chosen as departmental assistants. Several scholarships have been awarded to Cal Lutheran French majors through Pi Delta Phi and Rotary International, allowing them to study and visit in such locations as France, Belgium, Canada and Africa.

French majors from Cal Lutheran have entered careers as educators, travel agents, and translators and interpreters for governmental organizations, international businesses, Peace Corps and church missions. Also, the growing field of international management has attracted graduates who have combined their French degree with Business Administration or Global Studies at Cal Lutheran. Graduates in French are able to secure professional employment not only in the United States, but also in Canada, Africa and European Community institutions, all of which employ the French language second only to English.

Bachelor of Arts in French

French Minor

16 credits minimum*, 12 in upper division

*201 or an additional elective

-FREN 201: Intermediate French	4
-FREN 301: Conversation and Composition	4
-2 Electives Courses	8
Total Hours	16

French Major

32 credits minimum*, 28 credits in upper division

FREN 201: Intermediate French**	4
FREN 301: Conversation and Composition	4
6 French elective courses***	24
Capstone: FREN 448	4
Total hours	32-36

*FREN 101, 102 are excluded.

**FREN 201 can be fulfilled by proper test score in the French placement test.

***At the discretion of the department, two relevant courses in other disciplines may be substituted for two upper division elective courses in the major.

A study abroad experience in a French-speaking location is highly recommended for the minor or major. The study abroad requirement can be met by spending a year, semester, summer, or short-term study abroad program in a Francophone country with courses taken primarily in French. It is recommended that students attain intermediate proficiency before completing the study abroad requirement. Students can contact the CLU Study Abroad Center for program options and information.

Minor in French

16 credits minimum, 12 credits of which must be upper division. In addition, the following requirements must be met:

FREN 301	French Conversation and Composition	4
FREN 311	Survey of French Literature	4
or FREN 312	Survey of French Literature	
Any literature course, which may include FREN 312		4
French Elective Credits		4
Total Hours		**16**

Courses

Lower Division

FREN 101/102. Elementary French. (4,4).
The beginning study of French, both oral and written, including the fundamentals of grammar, reading and pronunciation through the use of electronic media. Prerequisite: FREN 102: FREN 101 or equivalent.

FREN 201/202. Intermediate French. (4,4).
The continued study of spoken and written French, with a thorough foundation in communication skills and grammatical structures through continued use of electronic media. Prerequisites: FREN 201: FREN 102 or equivalent. FREN 202: FREN 201 or equivalent. This course is normally the prerequisite for any upper division course in French.

FREN 282. Selected Topics. (1-4).

FREN 282C. ST: Select Topic (core). (1-4).
Select Topic approved for core requirement.

FREN 285. Interim Travel Course. (2).

Upper Division

FREN 301. French Conversation and Composition. (4).
Practice to develop fluency in the use of French as a means of both oral and written expression. Prerequisite: FREN 202 or equivalent or satisfactory score on proficiency exam.

FREN 305. French Civilization and Culture. (4).
Study of the development of French civilization, including arts, letters, science and political and social institutions, with an emphasis on contemporary life in France. Prerequisite: consent of instructor. (On demand).

FREN 311/312. Survey of French Literature. (4,4).
A study of the representative masterpieces and significant movements of French literature. FREN 311:From the Middle Ages through the Age of Enlightenment; FREN 312: 19th and 20th centuries.

FREN 321. French Phonetics/Linguistics. (4).
Pronunciation, diction and intonation in theory and practice including phonetic transcription and oral presentations. Students are required to regularly use available electronic technology.

FREN 401. Advanced Grammar and Composition. (4).
A functional review of grammar as used for communication skills. Includes the writing of current idiomatic French, free and oral composition and translation on assigned topics.

FREN 444. Contemporary French Novel. (4).
A study of the works of authors Proust, Gide, Mauriac, Bernanos, St. Exupery, Sartre, Camus, Malraux, Simone de Beauvoir and others. Includes general trends of the 20th-century French and Afro-French novel.

FREN 445. Contemporary French Theatre. (4).
A study of representative French playwrights such as Claudel, Pagnol, Romains, Cocteau, Giraudoux, Anouilh, Ionesco, Beckett, Camus, Sartre, Arrabal, Genet and others. Includes general trends of 20th-century French theatre.

FREN 447. French Cinema. (4).
A study of French cinema from its inception through recently produced films. Typical topics covered are French film pioneers, art films, serials, surrealist and New Wave films, musicals, "classics," French cinematographers, directors, actors, etc.

FREN 448. Francophone Literature - Capstone. (4).
An eclectic study of the literatures - poems, lyrics, short stories, film scenarios, plays and novels - and cultures of the francophone world outside of France (e.g., Canada, Africa, Belgium, Haiti, Martinique, etc.).

FREN 453. French Literature of the 19th Century -. (4).
An analysis and discussion of the works of leading authors, with an emphasis on poetry.

FREN 471. Teaching a Modern Foreign Language. (3).
A study and discussion of the current methods, techniques and applications for teaching and evaluating foreign language skills at the various levels of instruction. Includes a demonstration of the use of textbooks, multimedia aids and language laboratory equipment and materials. (On demand).

FREN 482. Selected Topics. (1-4).

FREN 482C. ST: Select Topic (core). (1-4).
Select Topic approved for core requirement.

FREN 485. Travel. (2).

FREN 490. Independent Study. (1-4).

FREN 492. Internship. (2-4).
For majors only. (graded P/NC only).

FREN 496. Directed Research. (1-3).

German

California Lutheran University's German major curriculum offers students a thorough course of study in the language, literature and culture of the German people with a full complement of courses that include conversation and composition, studies in German grammar, literature and film.

Cal Lutheran's extensive Study Abroad Program provides students with opportunities to study for a semester or an academic year in various institutions in Germany and Austria. A study abroad experience in a German-speaking location is highly recommended for the German major and minor. Course credits earned in study abroad count towards Cal Lutheran's German major and minor requirements. The study abroad requirement can be met by spending a year, semester, summer, or short-term study abroad program in a German-speaking country with courses taken primarily in German. It is recommended that students attain intermediate proficiency before completing the study abroad requirement. Students can contact the Cal Lutheran's Center for Global Engagement for program options and information.

Cal Lutheran's German graduates have regularly found careers in education, government, business, and even the clergy. These include jobs as teachers, government agents, translators, banking administrators, international businessmen and businesswomen, interpreters and travel agents. When combined with business studies, a degree in German provides graduates with even broader career opportunities.

Students interested in teaching German should contact the head of the German Department for further information.

Bachelor of Arts in German

32 credits minimum*, 28 credits in upper division

GERM 201: Intermediate German**	4
GERM 301: Conversation and Composition	4
GERM 401: Capstone	4
6 German Elective Courses***	24
Total Hours	32-36

*GERM 101, 102 are excluded.

** GERM 201 can be fulfilled by proper test score in the German placement test.

***At the discretion of the department, two relevant courses in other disciplines, may be substituted for two upper division electives in the major.

German Minor

16 credits minimum*, 12 in upper division

*201 or an additional elective

GERM 201: Intermediate German	4

GERM 301: Conversation and Composition	4
2 Course electives	8
Total Credits	16

Students who already possess some proficiency in German will be placed at the appropriate level after consultation with the department.

A study abroad experience in a German-speaking location is highly recommended for the minor. The study abroad requirement can be met by spending a year, semester, summer, or short-term study abroad program in a German-speaking country with courses taken primarily in German. It is recommended that students attain intermediate proficiency before completing the study abroad requirement. Students can contact the CLU Study Abroad Center for program options and information.

Minor in German

16 credits minimum, 12 credits upper division.

GERM 301	Conversation and Composition	4
GERM 311	Survey of German Literature	4
or GERM 312	Survey of German Literature	
Any upper division course, including Germ 312		4
German Elective Credits		4
Total Hours		**16**

Courses

Lower Division

GERM 101/102. Elementary German. (4,4).
A foundation in the grammar, speech and writing of German, including the reading of selected texts and supported by regular laboratory practice. Laboratory, 1 hour/week. Prerequisite: GERM 102: GERM 101 or equivalent.

GERM 201/202. Intermediate German. (4,4).
Development of oral and written skills. This course is the prerequisite for any upper division course in German. Prerequisite: GERM 102 or equivalent or satisfactory score on proficiency exam.

GERM 282. Selected Topics. (1-4).

GERM 282C. ST: Select Topic (core). (1-4).
Select Topic approved for core requirement.

Upper Division

GERM 301. Conversation and Composition. (4).
German 301, Advanced Composition and Conversation continues the course work from Intermediate German 201. It is designed as an accelerated course to enable students to quickly improve their understanding, competence, and proficiency in German through a format of reading, writing, speaking, and film. The course is specifically designed as "writing intensive" in order to help students become more adept at articulating their ideas and expressing them most clearly in written form. Prerequisite: GERM 201 or equivalent or placement by the department.

GERM 306. Masterpieces of German Literature. (4).
The study and interpretation of selected major works from German literature in English translation, supplemented by outside reading and individual reports.

GERM 308. Nietzsche. (4).
Friedrich Nietzsche was one of the most outspoken and influential philosophers of the 19th century. Curiously, although he is not widely read among philosophers and is even less well understood, people nonetheless tend to make categorical assumptions about what he believes without having the requisite background to do so. The aim of this course is to place Nietzche's life, theories, and works into the proper context. We hope, thereby, to be able to present a more complete understanding of Nietzsche's thought and how it has affected the cultural, social, political, and psychological worlds around us today.(May count as CORE-21 Literature requirement OR CORE-21 Philosophy requirement).

GERM 311/312. Survey of German Literature. (4,4).
The study of the main epochs and personalities in German literature through the reading of representative works. GERM 311: From the beginning to the Enlightenment. GERM 312: From the Enlightenment to the present.

GERM 340. Business German. (4).
An introduction to the German business environment that deals with marketing, import/export, business transactions, banking, resumes and effective correspondence.

GERM 343. Women in German Literature. (4).
An in-depth study of women in Germany and Europe after the industrial revolution. The course deals with both female and male writers and the way in which women are portrayed, what roles they assume and how they must attempt to resolve conflicts in modern society.

GERM 401. Advanced Grammar and Composition. (4).
A functional review of all phases of communication skills, including the more intricate grammar and idiom. Required of all candidates for a teaching major. (on demand).

GERM 437. Goethe's Faust. (4).
This course will undertake a close, thorough reading and critical textual examination of Goethe's world masterpieces, Faust I and Faust II. In so doing, the course will examine the literary, historical, and contemporary creative forces that went into the production of these two dramatic masterpieces. The course will also undertake a study of Goethe and his works within the context of the time in which he wrote them and how his work and his individual literary language developed and took shape to form a unique worldview.

GERM 447. German Cinema. (4).
A comprehensive review of German cinema from the inception of motion pictures to the present. The course treats the historical and social implications of film in Germany during its volatile first 40 years and the contribution of German Exile filmmakers.

GERM 453. German Literature of the 19th Century. (4).
The study of the main literary exponents from the end of Romanticism through Naturalism (1830-1900). (on demand).

GERM 454. German Literature of the 20th Century. (4).
The study of the main literary exponents of Neo-romanticism, Symbolism, Expressionism and contemporary thought. (on demand).

GERM 471. Teaching a Modern Foreign Language. (3).
A study and discussion of the current methods, techniques and applications for teaching and evaluating foreign-language skills at various levels of instruction. Includes a demonstration of the use of textbooks, multimedia aids and language laboratory equipment and materials.

GERM 482. Selected Topics. (1-4).

GERM 482C. ST: Select Topic (core). (1-4).
Select Topic approved for core requirement.

GERM 490. Independent Study. (1-4).
Majors only. (on demand).

GERM 492. Internship. (2-4).
Majors only. (graded P/NC only) (on demand).

GERM 496. Directed Research. (1-3).

Greek

(non major/minor)

Courses

GREE 318. Intro to Biblical Greek II. (4).
A beginning study of biblical Greek that builds a foundation in the essentials of grammar, vocabulary, and translation. Includes readings in Mark and Philippians, as well as (in the second semester) discussion of theological implications. Cross-Listed with RLTH-318.

GREE 325/326. Biblical Greek Language and Literature. (4,4).
A beginning study of biblical Greek that builds a foundation in the essentials of grammar, vocabulary, and translation. Includes readings in Mark and Philippians, as well as (in the second semester) discussion of theological implications. (cross-listed with RLTH 317 & RLTH 318).

Hebrew

(non major/minor)

Courses

HEBR 315. Biblical Hebrew I. (4).
A two-semester sequence of study leading to a reading knowledge of the Hebrew Bible/Old Testament. Basic Hebrew grammar and vocabulary are studied in conjunction with questions of cosmology, the understanding of history and the theological perspective of ancient Israel. Prerequisite: RLTH 100. (cross-listed with RLTH 315 and RLTH 316).

HEBR 316. Classical Hebrew Language and Literature. (4).
This course is the second of a two semester sequence of study leading to a reading knowledge of the Hebrew Bible/Old Testament and other ancient texts. Basic Hebrew grammar and vocabulary are studies in conjunction with questions of the literary, religious, and linguistic culture of ancient Israel and early Judaism. Pre-requisite RHTL-315.

Spanish

The goals of our Spanish program at Cal Lutheran are proficiency in the language and a high degree of familiarity with Hispanic literature and culture. To achieve these goals, we offer a wide variety of courses that use the Spanish language through literature, linguistics, and culture.

Many of our Spanish majors and minors go into teaching, some into private industry and others into graduate school. Our program caters to the needs of these students by preparing them for an increasingly pluralistic and globally oriented society and a competitive career world. To that end and because language and literature are inseparable from a cultural context, our program has a strong cultural orientation. In all of our courses, we strive to develop an understanding of as many aspects of Hispanic culture and civilization as possible . We also place a strong emphasis on developing students' critical thinking skills in all our courses and many are conducted in Spanish in order to develop students' proficiency in the language.

Spanish faculty use interactive lectures, group work, engaging cultural activities, such as video/film presentations, computer-aided presentations and exercises, to give students a well-rounded learning experience.

In addition, students have the opportunity to participate in a variety of cultural activities on campus, such as the Día de los Muertos and Las Posadas celebrations in the fall, as well as the International Film Festival. Spanish majors can also become members of the Spanish honor society, , Sigma Delta Pi, or the National Collegiate Foreign Language Honor Society, Alpha Mu Gamma, and participate in LASO, the Latin American Students Organization.

We strongly encourage Spanish majors and minors to study abroad. The Spanish Department sponsors a program in Guanajuato, Mexico, which provides students with an excellent opportunity to polish their language skills through immersion in the culture. Other opportunities to spend a semester or junior year abroad at any one of a variety of universities in Spain and Latin America are available through the Center for Global Engagement.

Bachelor of Arts in Spanish:

32 credits minimum, 32 credits upper division

SPAN 301	Conversation and Composition	4
SPAN 315	Spanish Literature and Society	4
SPAN 325	Spanish American Literature and Society	4
SPAN 401	Applied Linguistics and Grammar	4
SPAN 405	Latin-American Culture and Civilization (Capstone)	4
One Spanish 400-level course		4
Two Spanish upper division electives		8
Total Hours		**32**

At the discretion of the department, a relevant course in another discipline, such as POLS 443 , may be substituted for the upper division elective. In addition, an oral proficiency exam is required before graduation.

Minor in Spanish

16 credits minimum taught in Spanish, 12 credits upper division*

Course list:

-SPAN 301 Conversation and Composition 4

-SPAN 401 Applied Linguistics 4

-Any upper division literature, film or culture course in Spanish 4 AND

*Option 1: Any 200-level course at SPAN 250 or above in Spanish 4 OR

Option 2: Any upper division at the 300-level or 400-level in Spanish 4

Students interested in teaching Spanish should refer to the Chair of the Spanish Department for information about the Spanish subject matter program. (See Education (p. 141))

Courses

Lower Division

SPAN 101/102. Elementary Spanish. (4,4).
A beginning study of the language. Introduces students to the essentials of grammar through the basic skills of listening, speaking, reading and writing within a communicative cultural context. Prerequisite: SPAN 101: 0-2 years of high school Spanish; SPAN 102: SPAN 101 or 3-4 years of high school Spanish.

SPAN 201/202. Intermediate Spanish. (4,4).
Continuing development of the four communicative skills. Emphasis on vocabulary building and the use of Spanish in practical situations. Includes cultural and literary readings and a grammar review. Prepares students to move into advanced conversation and composition. Prerequisites:SPAN 102 or equivalent or satisfactory score on proficiency exam.

SPAN 203. Spanish for the Health Professions. (4).
This course will concentrate on introducing students to a more specialized vocabulary linked to the different health professions and it will build awareness of the many cultural and health topics specific to the Hispanic population. Spanish terminology that is used in general medicine, exercise/ nutritional coaching, psychological and psychiatric counseling, and social services for patients will be taught throughout the course. The student will learn terminology, proper grammatical structures and culturally appropriate manners of speaking within authentic contexts in order to be understood by Spanish-speaking patients and their families. This course is a speaking intensive course as the course places an emphasis on students' ability to orally articulate healthcare topics in Spanish. Prerequisites: SPAN 102: Elementary Spanish, or equivalent.

SPAN 250. Spanish Heritage in the U.S.. (4).
SPAN 250 is the second section of a sequence of two courses (SPAN 201 or SPAN 203) covering the second year of college-level Spanish, it continues the development of the four communicative skills: listening, speaking, reading and writing. This course prepares students to move into the advanced conversation and composition course, by using cultural and literary readings and videos, as well as grammar reviews. Emphasis is on vocabulary building and the use of Spanish to express ideas and opinions on the Latinx community in the United States. In addition, this course examines the political, historical, social, economic, and cultural realities of the Latinx community in the U.S. Pre-requisites: SPAN 201, or SPAN 203, or equivalent, or instructor approval.

SPAN 251. Language & Legacy in the U.S.. (4).
SPAN 251 is the second section of a sequence of two courses (SPAN 201 or SPAN 203) covering the second year of college-level Spanish, it continues the development of the four communicative skills: listening, speaking, reading and writing. This course prepares students to move into the advanced conversation and composition course, by using cultural and literary readings and videos, as well as grammar reviews. Emphasis is on vocabulary building and the use of Spanish to express ideas and opinions on the Latinx community in the United States. In addition, this course examines the political, historical, social, economic, and cultural realities of the Latinx community in the U.S.

SPAN 282. Selected Topic. (4).

SPAN 282C. St: Selected Topic (core). (1-4).
Selected Topic approved for core requirement.

SPAN 285. Barcelona Through the Looking Glass. (4).
The major purposes of this course are (1)To understand the literary elements of detective fiction as a genre and its evolution (2) To identify and analyze detective fiction produced in Barcelona and how the genre relates to the city space and its architecture. (3) To understand the influence of the city of Barcelona on some of the major literary, pictorial and architectural works of the 20th century. (4) To explore the city of Barcelona through and make connections between two seemingly different disciplines. (5).

Upper Division

SPAN 301. Conversation and Composition. (4).
Intended to further the student's conversational ability, with emphasis on speaking and writing grammatically correct Spanish. Increased understanding of the Hispanic world through reading and discussion. Prerequisite: SPAN 202 or equivalent. Conducted in Spanish. (.

SPAN 305. Introduction to Literature in Spanish. (4).
This course introduces students to the study of literature in Spanish through the reading of short literary texts. Students study literary terminology and methods of analysis and practice the analysis and discussion of literature in Spanish. Texts are selected from across literary periods from Spanish and Spanish-American authors. Conducted in Spanish. Pre-requisite: SPAN 202 or equivalent.

SPAN 310. Rep. of Illness in Latin Americal Lit. (4).
This course explores the representations of illnesses and diseases in literature and film from Latin America and Spain. The course analyzes how mental and physical wellbeing is presented in the content and style of literary texts and films. Students will analyze poems, short stories, novels, essays and films from Latin America and Spain and connect some of the treatments presented in the texts and films with historical and sociocultural (mal)practices and beliefs from the different regions. This course is conducted completely in Spanish.

SPAN 315. Spanish Literature and Society. (4).
Designed to familiarize students with major authors of Spanish literature from its beginning to present times. A study of selections viewed in their cultural and historical contexts will highlight the extent to which these authors were influenced by the ideology of their times and how their writings, in turn, relate to contemporary thought. Conducted in Spanish. Prerequisite: Spanish 202 or equivalent.

SPAN 325. Spanish American Literature and Society. (4).
Designed to familiarize students with major authors of Spanish American literature from its beginning to present times. A study of selections viewed in their cultural and historical contexts will highlight the extent to which these authors were influenced by the ideology of their times and how their writings, in turn, relate to contemporary thought. Conducted in Spanish. Pre-requisite: Spanish 202 or equivalent.

SPAN 350. Race and Ethnicity in Latin America. (4).
This course explores discourses surrounding race and ethnicity in Latin America from the colonial period to modern day. Students will unpack ideologies that center national identity and language as a means to obscure deeply embedded racial hierarchies. The course will analyze how a variety of countries have developed and deployed their own unique set of social tools to shape how race intersects with ethnicity, indigeneity, hybridity, and purity at different historical junctures. Particular attention will be paid to the tension between celebrating mixed racial heritage-an important political project at specific historical moments-and Eurocentric values that favor whiteness and "purity." Prerequisites: SPAN 202 or equivalent.

SPAN 361. Contemporary Chicano Literature. (4).
Intended as a basic exploration of the literature of the Chicano people. This representative synthesis covers the principal genres of poetry, theatre, the novel, the short story and the essay. A historical framework establishes the different periods of Chicano creativity from its origins through the civil rights movement and to contemporary times. Note: This class is offered in English and may not be taken for the Spanish minor. (cross-listed with ENGL 361).

SPAN 380. Introduction to Translation. (4).
This course is an intensive study of advanced Spanish grammar in the context of translation from English into Spanish and Spanish into English. Students will learn the fundamental concepts of translation theory and will put them into practice by analyzing and translating humor, literary excerpts, journalistic pieces, and documents focused on healthcare, media, technology, law, marketing, and education for example. The course will present opportunities to critically discuss and reflect on the specific tasks translators perform while analyzing fundamental differences in writing style, grammar structures, and culturally specific themes in Spanish and English. Prerequisite: SPAN 202 or equivalent.

SPAN 401. Applied Linguistics and Grammar. (4).
This course provides students with phonetic, phonological, morphological and syntactic aspects of the Spanish language in its synchronic and diachronic contexts. Includes grammar, reading and writing and has a lecture and discussion format. Conducted in Spanish. Pre-requisite: SPAN 202 or equivalent.

SPAN 403. Spanish for Business. (UG).
Spanish for Business is an advanced Spanish language course, that engages students in the examination of cultures of Latin America. The emphasis is on understanding perspectives of Spanish-speaking Latin American cultures as well as developing communication skills for business purposes. Students receive a foundation in the Spanish language and multicultural awareness of diverse communities within Latin America's Spanish-speaking business world. This class is recommended for students planning a career in business-related fields including hotel management. This course fulfills the foreign language requirement. Prerequisites.

SPAN 405. Latin-American Culture and Civilization. (4).
Intended to deepen student's knowledge of the development of the institutions of the Spanish-American peoples, and to improve their conversational ability. Includes lectures oral participation and oral and written reports. Conducted in Spanish (offered in spring) Pre-requisite: SPAN 202 or equivalent.

SPAN 410. Latinx Media in the United States. (3).
This course guides students through an in-depth examination of U.S.-based Latinx and Spanish-language media by critically examining primary texts created by people who identify as members of the Latina/Latino/Latinx community, as well as media created by others about this community. The course provides a lens for understanding the highly varied needs and goals of various Spanish-language media markets around the country due to the specific experiences, perspectives, and cultural ideologies of the population each market serves. The course also introduces mediated communication from several U.S.-based markets. This class is taught in English.

SPAN 431. Working on El Eco. (1).
Practical working experience on the University's Spanish-language student media includes reporting, editing, photography, desktop publishing and business management. May be taken up to three additional times for elective credit. All majors are welcome. Prerequisites: COMM 231 and SPAN 301 or a minimum score of 450 on the Spanish Language Placement Exam.

SPAN 461. Mexican Literature. (4).
Critical study of selected representative readings from pre-Columbian writers/poets, through the novel of the Revolution to the present. Emphasis on socio-cultural contexts as well as the literary values of the texts. Conducted in Spanish. Pre-requisite: SPAN 202 or equivalent.

SPAN 463. Women Writers in Hispanic Literature. (4).
Women have long contributed to the wealth of literary production in the Spanish language. This course profiles the writings of women from different parts of the Hispanic world and may include issues of gender, race and ethnicity. Conducted in Spanish. Pre-requisite: SPAN 202 or equivalent.

SPAN 470. Film in Spanish. (4).
This course introduces students to important developments in cinema in the Spanish-speaking cultures. Different types of film are shown and analyzed from an aesthetic perspective and in relationship to Spanish and Spanish American history, literature, art and society. Conducted in Spanish. Pre-requisite: SPAN 202 or equivalent.

SPAN 475. Spanish in the U.S.. (4).
In this course students will develop linguistic and critical awareness about the relationship between Spanish language and society, with special emphasis in California on topics such as language variety, language contact from social, political and educational perspectives, types of bilingualism, sociolinguistic issues, migration patterns and settlements, etc. The course integrates, synthesizes, and makes cross-curricular educational, historical, political and social connections reflecting on communicative and linguistic styles, dialectical differences and cross-cultural interactions between Latinx groups. The content of this course addresses the culture component for the California Bilingual Authorization for Spanish. Although a few readings might be in English this course (assignments, class discussions, presentations, essays, etc.) is conducted entirely in Spanish. Prerequisites: SPAN-301 and SPAN-401 or Course Instructor's Permission.

SPAN 482. Selected Topics. (1-4).

SPAN 482C. St: Selected Topic (core). (1-4).
Selected Topic approved for core requirement.

SPAN 485. Treasures of Peru II. (1).
This course is designed for those students who are interested in history, literature and cultures from Latin America and viewing literature and history from an analytical perspective. SPAN 485 is an interdisciplinary exploration of Peru through the study of literature and history. Students will immerse themselves in the history and the culture of Peru, building on the academic foundations laid in SPAN 482. This course is designed to be comparative and students will develop cross-cultural compentencies that will assist them in identifying and analyzing unique historical, cultural and aesthetic productions. Prerequisites: SPAN 482: "Treasures of Peru I".

SPAN 490. Independent Study. (1-4).

SPAN 492. Internship. (1-4).

SPAN 496. Directed Research. (1-3).

Learning Resources

(non major/minor)

Courses

LRN 105. College Skills Seminar-Math. (1).
A mathematics-based seminar for entering freshmen in which students develop learning skills and strategies necessary for academic success, with a special emphasis in mathematics. By invitation only.

LRN 182. Selected Topics. (1-4).

Legal Studies(minor)

The legal studies minor provides an interdisciplinary study of the law and the legal process within a liberal arts framework. The minor provides an alternative approach to the study of law by drawing from courses in the social sciences, business and humanities. The minor addresses questions as to how social, political, philosophical and economic considerations influence and reflect these laws. The electives allow students to choose courses relevant to their legal interest in combination with a variety of other disciplines.

See Criminal Justice and Political Science for faculty and course descriptions. For further information on legal course descriptions contact the department chairs of the respective programs.

Minor in Legal Studies

20 credits minimum of which 12 credits must be upper division.

POLS/CRIM 105	Introduction to Law and Legal Process	4
Select four of the following:		16
BUS 374	,Business Law	
COMM/POLS 405	Freedom of Communication	
COMM 406	Legal Issues & the New Media	
CRIM 276	Criminal and Procedural Law	
CRIM/POLS 404	Constitutional Law in Criminal Justice	
POLS 401	American Constitutional Law	
POLS 414	Environmental Law and Policy	
POLS 461	International Law and Organization	
POLS 481	Law and Society	

Any Independent Study or Selected Topic on law	
Total Hours	**20**

Recommended Courses for Students Planning for Law School:

COMM 233	Argumentation & Advocacy	4
ENGL 301	Academic Research and Writing	4
PHIL 220	Logic	4
POLS 322	Modern Political Thought	4

Liberal Studies in Education

The Liberal Studies in Education (LSED) major at California Lutheran University offers prospective elementary school teachers with an undergraduate academic course of study that provides strong multi-disciplined subject matter knowledge as well as an understanding of how children learn and how they develop in social contexts, and an introduction to the use of teaching methods by applying said methods in over 200 hours of clinical practice. The program is a collaborative endeavor between the College of Arts and Sciences and the Graduate School of Education. The rigorous course of study meets the California State Content Standards and the University Student Learning Outcomes. The education courses provide knowledge and practice that meet the California Teaching Performance Expectations. Students who complete the program well equipped in subject matter, pedagogical knowledge, and clinical practice needed to begin professional preparation in a credential program required to teach public school, or to teach in private or parochial schools

The mission of the Liberal Studies in Education is to prepare future teachers to engage the changing world of education by mastering their knowledge of subject matter, deepening their knowledge of how children learn and grow in social contexts, and advancing their knowledge of learning, teaching, and teaching methods, thus making them ready to teach in neighborhoods near and far.

In order to meet the needs of students, Cal Lutheran offers three program options:

- Cal Lutheran LSED four year Bachelor of Arts – A traditional four-year undergraduate program culminating with a baccalaureate degree in Liberal Studies in Education with option to move to the Cal Lutheran credential program which typically takes an additional 3 semesters to complete. The student may then earn a Master's Degree by completing 3 more graduate courses.
- Cal Lutheran LSED 4 +1 – A four-year undergraduate degree, with graduate-level Foundations courses embedded in the program. The student will then move into the Credential program earning a Multiple Subject credential in 2 semesters. The student may then earn a Master's Degree by completing 3 more graduate courses.
- Cal Lutheran LSED four year Integrated Major – An integrated program for qualified students who choose to incorporate summer coursework in order to complete the Bachelor of Art Degree in LSED and a Preliminary Multiple Subject credential in four years.

Major Requirements for Liberal Studies in Education:

70 units required

Language and Literature		
ENGL 111	Critical Reading and Writing II	3
ENGL 312	The Teaching of Writing	3
ENGL 316	First and Second Language Acquisition	4
ENGL 335	Children's Literature	3
History/Social Science		
HIST 101	World Civilization to 1500	4
HIST 121	United States History to 1877	4
HIST 345	California History	4
PSYC 200	General Psychology	4
Mathematics		
MATH 120	Concepts Underlying Arithmetic	4
MATH 128	Topics in Liberal Arts Math	4
Science		
BIOL 111/111L	Principles of Biology and Principles of Biology Lab	4
PHYS 110/110L	Physical Science for Liberal Art Majors and Physical Science Liberal Arts Majors Lab	4
GEOL 111/111L	Physical Geology and Physical Geology Lab	4
Visual/Performing Arts		

ART 341	Visual Arts in Education	3
MUS 103	Music for Classroom Teachers	3
TA 440	Creative Dramatics for Children & Youth	3
Physical Education/Health		
EXSC 354	Elementary School Physical Education	4
Capstone		
LSED 362	Career Choices in Education	4
LSED 382	Liberal Studies Seminar	4
LSED 402	Theories of Teaching & Learning	4
Mandatory Minor Required		

American Sign Language

American Sign Language (ASL)		
Completion of ASL 102 satisfies Cal Lutheran's foreign language requirement		
ASL 101	Beginning American Sign Language 1	4
ASL 102	American Sign Language 2	4

Courses

LSED 362. Career Choices in Education. (4).
This course serves as an introduction to the teaching profession. Students who are considering a career in the field of education will become acquainted with the many facets of the teaching profession. Fieldwork in an educational setting is required. Transportation to a school site is necessary (arrangements can be made with classmates).

LSED 382. Liberal Studies Seminar. (4).
The goal of the course is to identify and establish a mission and vision for teaching and learning, to introduce and explore significant issues in teaching and learning, and provide information on pursuing credential requirements. The main emphasis of this course is a minimum of 60 hours of active service in a K-6 classroom where course content is applied in working with students.

LSED 402. Theories of Teaching & Learning. (4).

LSED 490. Independent Study. (1-4).

LSED 492. Internship. (1-4).

Marketing Communication

The 21st Century business community faces unprecedented challenges in a highly competitive global economy. Industry leaders know that effective communication – particularly marketing communication – will be at the center of every profitable enterprise. California Lutheran University's multitalented marketing communication graduates currently work as marketing communication department managers, marketing representatives, and trade negotiators for both private corporations and government agencies.

Cal Lutheran's marketing communication major prepares students for business and trade relations in an international marketplace by introducing them to the latest communication technology and teaching them how to craft effective messages on behalf of companies whose products and services they represent. CLU graduates have gained the ability to research, plan, organize and direct internationally focused marketing campaigns and have acquired the interpersonal skills needed to move into upper management. A mandatory internship enables students to put valuable, real-world experience on their resumes. Cal Lutheran students have interned in marketing communication departments at Amgen, Baja Fresh, J.D. Power & Associates, HBO, Caruso Affiliated Holdings, KZLA-FM and NBC Press and Publicity.

Development of a marketing communication degree was suggested by a business community experiencing difficulties in locating qualified job candidates to head up marketing communication departments – the hub around which production, sales, advertising, marketing and public relations revolve. Industry leaders expressed a specific interest in future employees who could be practical as well as creative; who were equipped with both business savvy and artistic know-how; who were skilled at coordinating the efforts of others, yet capable of coming up with winning market strategies as well.

Benefiting from the input of the corporate community, California Lutheran University was able to offer the first marketing communication degree in the nation. Cal Lutheran graduates are succeeding because of the preparation they receive in managing million-dollar budgets, their proficiency at both oral and written communication, and their ability to produce messages for a wide variety of media.

See Communication and Business for faculty and course descriptions.

Bachelor of Arts in Marketing Communication

40 credits minimum, 24 credits upper division

COMM 101	Introduction to Mass Communication	4
COMM 231	Media Writing	4
COMM 350	Communication Theories-Capstone	4
COMM 351	Research Methods	4
COMM 375	Principles of Marketing	4
COMM 490	Independent Study	1-4
or COMM 492	Internship	
BUS 251	Principles of Accounting	4
or BUS 255	Environment of Business	
Select one of the following:		4
COMM 301	Persuasive Communication	4
COMM 342	Principles of Public Relations	4
COMM 380	Principles of Advertising	4
Select one of the following:		4
COMM 331	Content Creation for Digital Platforms	4
COMM 344	Storyboarding	4
COMM 348	Website Design and Publishing	4
COMM 411	Sports-Related Marketing	4
COMM 442	Advertising Campaigns	4
COMM 443	Event Planning and Management	4
COMM 450	Public Relations Campaigns	4
Select two of the following:		8
BUS 342	Marketing Research/Consumer Behavior	4
BUS 430	Integrated Marketing Communication	4
BUS 447	Social Marketing	4
BUS 473	Marketing Management	4
BUS 474	International Marketing	4
BUS 482C	ST: Select Topic (core)	1-4
BUS 485	Seminar	1-4
or COMM 485	Travel Seminars	
COMM 411	Sports-Related Marketing	4
COMM 412	Entertainment Industry Marketing	4

Mathematics

A degree in mathematics is an excellent means of preparation for post-college years, whether a student intends to work in business or industry, teach, or pursue graduate studies. At Cal Lutheran we provide a broad and challenging program designed to develop fundamental skills and to prepare students for lifelong learning. The program features small classes with an emphasis on faculty-student interaction, classroom technology to facilitate learning, computer labs for student exploration and discovery, and a focus on interdisciplinary applications. Faculty mentors assist students in reaching their academic and career goals. Students are challenged to explore the many facets of mathematics and its applications through creative and critical thinking. Departmental space is set aside as a study and resource area for majors. Free tutoring for lower division courses is provided in the Math Lab.

The faculty encourage students to apply their mathematical knowledge by participating in internships, carrying out independent projects, and tutoring in the Math Lab. Students synthesize and extend their mathematical experiences in the senior capstone course. Other opportunities include participating in paid summer research programs across the nation, spending a semester studying mathematics abroad, preparing for and competing in national mathematics-related contests, and preparing posters and presentations for seminars and regional or national conferences.

Employers in the public and private sectors seek generalists with critical thinking skills who are capable of adapting to a wide variety of situations. Graduates in mathematics are prepared in this manner and can work in many career fields. These include computer science, engineering, actuarial science, education, business, finance and the natural sciences. Along with finding excellent employment opportunities, Cal Lutheran math majors have also been accepted for graduate studies at top universities throughout the United States.

Students who wish to register for a mathematics course must meet the necessary prerequisites, as stated in the Schedule of Classes and the Undergraduate Catalog. Students unsure of whether they meet the prerequisites should contact a mathematics faculty member. Courses numbered 400 and above are best taken after or concurrently with a 300-level course.

All Cal Lutheran students are required to meet the Mathematical Reasoning Proficiency under Core 21. Students who meet the proficiency requirement may still need to meet specific mathematics requirements for their majors

Major Requirements

Only mathematics courses numbered 200 or above earn credit toward a major in mathematics.

Bachelor of Science in Mathematics

45 credits minimum, 25 credits upper division.

MATH 241	Discrete Mathematics	4
MATH 251	Calculus I (preferred)	4
or MATH 245	Applied Calculus	
MATH 252	Calculus II	4
MATH 261	Calculus III	4
MATH 320	Elementary Mathematical Analysis	4
or MATH 382	Number Theory	
MATH 420	Real Analysis	4
or MATH 425	Abstract Algebra	
One 4-credit elective (upper or lower divsion)		4
Four 4-credit upper division mathematics classes (one class may be 3-credits instead)		15-16
MATH 475	Capstone	2
Total Hours		**45-46**

Required Supporting Courses

PHYS 211/211L	Mechanics and Thermodynamics-Calculus and Mechanics and Thermodynamics-Lab	5
PHYS 212/212L	Electricity, Magnetism, and Optics - and Electricity, Magnetism Optics Lab	5
Computer Programming course at the 200-level or above (choice must be approved by Math Advisor)		
CSC 210	Introduction to Computer Programming	4
or CSC 205	Programming for Scientists	
Total Hours		**14**

Recommended Supporting Courses

MATH 474	Capstone Preparation (strongly recommended)	2
CHEM 151/151L	General Chemistry and General Chemistry Lab	5
CHEM 152/152L	General Chemistry II and General Chemistry II Lab	5
Total Hours		**12**

Bachelor of Arts in Mathematics

41 credits minimum, 21 credits upper division.

MATH 241	Discrete Mathematics	4
MATH 251	Calculus I (preferred)	4
or MATH 245	Applied Calculus	
MATH 252	Calculus II	4
MATH 261	Calculus III	4
Take at least two of the following three courses		8
MATH 320	Elementary Mathematical Analysis	
MATH 381	Geometry	
MATH 382	Number Theory	
One 4-credit math elective (upper or lower division)		4

Three additional 4- credit upper division mathematics classes (one of which may be only 3-credits)		11-12
MATH 475	Capstone	2
Total Hours		**41-42**

Required Supporting Courses

One mathematical perspectives course (can be a Math upper divsion elective, must be approved by Math advisor)		3-4
Complete one of the following two course sequence options		9-10
Physics Option		
PHYS 211	Mechanics and Thermodynamics-Calculus (with lab)	
PHYS 212	Electricity, Magnetism, and Optics - (with lab)	
Economics Option		
ECON 203	General Economics	
One of the following 400-level Economics classes		
ECON 406	Intermediate Macro-Economics	
ECON 411	Intermediate Micro-Economics	
or ECON 450	Econometrics	
Total Hours		**12-14**

Recommended Supporting Courses

MATH 474	Capstone Preparation (Strongly Recommended)	2
A course in Computer Programming at the 200-level or above		3-4
CSC 210	Introduction to Computer Programming	
or CSC 205	Programming for Scientists	
CHEM 151/151L	General Chemistry and General Chemistry Lab	5
CHEM 152/152L	General Chemistry II and General Chemistry II Lab	5
Total Hours		**15-16**

Minor in Mathematics

20 credits minimum, 8 credits upper division.

Only mathematics courses numbered 200 or above earn credit toward a minor in mathematics. Either MATH 245 or MATH 251 (preferred) may be counted toward the minor, but not both.

MATH 251	Calculus I	4
or MATH 245	Applied Calculus	
MATH 252	Calculus II	4
Two 4-credit upper division mathematics classes		8
Select one of the following:		4
MATH 241	Discrete Mathematics	
MATH 261	Calculus III	
MATH 265	Differential Equations	
4-credit upper division mathematics class		
Total Hours		**20**

Requirements for the Mathematics Single Subject Program

Students considering a career as a teacher of mathematics in a California high school or middle school should consider completing the CLU Mathematics Single Subject Program which is an approved subject matter program for the California Commission on Teacher Credentialing. Completion of this program allows a student to enroll directly in a teaching credential program upon graduation. Program requirements most closely match the B.S. in Mathematics degree, include an entrance interview after completing Calculus II, and a portfolio defense at the end. Students interested in entering the program should discuss program requirements with the director of the Mathematics Single Subject Program.

Honors in Mathematics

Nomination Process

Students interested in completing Departmental Honors must be nominated by a Math faculty member prior to their final year. This normally will occur three semesters before graduation, but might occur two semesters before. In order to be eligible for nomination a student must satisfy all three of the following requirements:

1. A Math GPA of at least 3.5 with no semester grade below a B in any upper division Math course,
2. An overall GPA of 3.0,
3. 2 upper division Math courses either *completed or in progress*.

Selection Process

Once nominated, a student takes MATH 474 Capstone Prep and develops a proposal for an Honors Project. The project proposal must follow the guidelines for Capstone in Mathematics projects but must be for a year-long project that holds the promise of completing publishable results. After the oral and written project proposals have been reviewed, the Math faculty will determine if a student's project is worthy of being selected as an Honors project. Moreover, by the time the candidate is selected he/she must also have *completed* at least 2 Upper Division Math courses with a grade of B or higher in both, and have at least 1 additional upper division Math course *completed or in progress*.

Completion of Departmental Honors

To complete Departmental Honors students must successfully pass all of the following courses:

- MATH 474 - Capstone Prep --2 credits (taken spring of Junior year)
- MATH 475 – Capstone--2 credits (taken fall of Senior year)
- MATH 497 - Honors Research--3 credits (taken Spring of Senior year)

This is equivalent to one year of mentored research experience, plus one semester of research preparation in the Capstone Prep course. The final project will be presented in three venues: a written thesis, an oral presentation, and a poster presentation. The advisor in conjunction with Math faculty will review the project at the end of the Capstone course to determine if the student may proceed with the Honors Research course. At the end of the Honors Research course they will again confer to determine if the project meets the standards of an honors project.

Courses

Lower Division

MATH 110. Intermediate Algebra. (4).
This course covers equations and inequalities, polynomials, rational and radical expressions, exponents, graphing linear equations and inequalities, linear systems, exponential and logarithmic functions, and places extensive emphasis on word problems. This course is appropriate for students with Math SAT 530 or below.

MATH 115. Finite Mathematics. (4).
This course studies mathematics and models in the social sciences including logic, sets, families of functions, and an introduction to descriptive and inferential statistics. Recommended for social science majors. Prerequisite: MATH 110 or a Math SAT of 540 or above.

MATH 120. Concepts Underlying Arithmetic. (4).
This course is designed for the prospective elementary school teacher, and emphasis is on developing a deep understanding of the mathematical ideas necessary for superb teaching of elementary school mathematics. Communication of these ideas through appropriate language and the use of diagrams, patterns, and everyday objects is a critical feature of the class. Students are expected to work in cooperative groups during class, and to make presentations on a regular basis. Topics include number sense, representations of numbers, number systems, creating and analyzing algorithms for arithmetic operations, proportional reasoning, problem solving, algebraic thinking, and current California state math standards. Issues of access and pedagogy are addressed both individually and in the context of the mathematical ideas. This course does not satisfy the Core 21 Mathematical Reasoning Requirement. Prerequisites: MATH 110 or a Math SAT of 540 or above.

MATH 128. Topics in Liberal Arts Math. (4).
This course engages the students in an exploration of the nature of mathematics as well as a selection of mathematical topics chosen to illustrate why mathematics is one of the original liberal arts. An emphasis is placed on problem solving and communication of ideas through writing and class discussions. The nature of mathematics as well as two-, three- and four-dimensional geometry, and probability and statistics will be included each semester. Other topics will be chosen by the instructor. Prerequisite: MATH 110 or Math SAT 540 or above.

MATH 145. Business Mathematics. (4).
This course studies the elementary models of mathematics in business settings including the use of functions to model concepts such as revenue and profit, as well as interest and annuities. Additional topics include linear regression, decision trees, and an introduction to probability and statistics. Recommended for Business majors. Prerequisite: MATH 110 or Math SAT 540 or above.

MATH 151. Precalculus. (4).
This course studies real numbers, equations, inequalities and polynomial, rational, exponential, logarithmic and trigonometric functions. Prerequisite: MATH 110 or Math SAT 540 or above.

MATH 151S. Supplemental Instr: 151S. (0).
This is the Supplemental Instruction Blackboard Platform attached to MATH 151. As a student enrolled in this section, you are automatically enrolled in the attached Supplemental Instruction Blackboard Platform. Supplemental Instruction (SI) is an academic support program designed to improve student success in challenging foundation courses. SI is a well-researched program that has been shown to improve students' letter grades by a half to a full grade, with consistent participation. With the SI model, a SI Leader (a student who has successfully completed the course with a B+ or better in the past, and who has an overall GPA of 3.0 or higher) is embedded into the course, attending all course meetings. The SI Leader then facilitates the scheduling and running of group SI study sessions throughout the week. There will typically be three one hour SI Sessions or two 90 minute SI Sessions per week. The SI Blackboard Platform is hosted by your SI Leader, who will utilize it to take confidential attendance at SI Sessions, to make general announcements to the class members, and to share helpful resources and study materials for SI Sessions. Participation in the SI study sessions is completely optional and always free, and you may come to as many or as few sessions as you would like over the semester. Your course professor does not receive any information about attendance, so you can be certain that your participation will be kept confidential.

MATH 231. Statistics for the Sciences. (4).
This course introduces the principles, methods of reasoning, summarization, analysis and preparation of scientific data. Computer laboratory sessions are included to facilitate data handling and analysis. Topics include sampling and experimental design, descriptive statistics, probability, statistical inference and interpretation of results, simple regression and ANOVA. Prerequisite: MATH 151 or Math SAT 620 or above.

MATH 241. Discrete Mathematics. (4).
Topics include set theory, number systems, the nature of proofs, recursion, algorithms, graph theory and problem solving. This course is required for computer science and computer information systems majors. Prerequisite: MATH 151.

MATH 245. Applied Calculus. (4).
This course examines methods of mathematics used in business and economics, with a focus on problem solving and applications. It includes the ideas of differential calculus, including applications to marginal analysis (cost, revenue, profit), the elasticity of demand, and optimization. Concepts of integration up through substitution are included. Optimization is further examined through systems of linear equations and matrices, linear programming and a brief introduction to game theory. Required for Business Majors. Prerequisite: MATH 115, MATH 145, MATH 151 or Math SAT 620 or above.

MATH 251. Calculus I. (4).
Studies the concepts of the limit, the derivative and the definite integral of functions of one variable. Included are applications to rates and areas, differentials and basic modeling. Prerequisite: MATH 151 or Math SAT 620 or above.

MATH 251S. Supplemental Inst: Math 251. (0).
This is the Supplemental Instruction Blackboard Platform attached to MATH 251. As a student enrolled in this section, you are automatically enrolled in the attached Supplemental Instruction Blackboard Platform. Supplemental Instruction (SI) is an academic support program designed to improve student success in challenging foundation courses. SI is a well-researched program that has been shown to improve students' letter grades by a half to a full grade, with consistent participation. With the SI model, a SI Leader (a student who has successfully completed the course with a B+ or better in the past, and who has an overall GPA of 3.0 or higher) is embedded into the course, attending all course meetings. The SI Leader then facilitates the scheduling and running of group SI study sessions throughout the week. There will typically be three one hour SI Sessions or two 90 minute SI Sessions per week. The SI Blackboard Platform is hosted by your SI Leader, who will utilize it to take confidential attendance at SI Sessions, to make general announcements to the class members, and to share helpful resources and study materials for SI Sessions. Participation in the SI study sessions is completely optional and always free, and you may come to as many or as few sessions as you would like over the semester. Your course professor does not receive any information about attendance, so you can be certain that your participation will be kept confidential.

MATH 252. Calculus II. (4).
This course continues the study of differentiation and integration begun in Calculus I. Introduces indefinite integration and applications of the definite integral. Differential equations and elementary methods to solve them are presented, along with direction fields and some modeling applications. Includes Taylor polynomials and series. Students will use a computer algebra system to engage with material in the course. Prerequisites: MATH 251.

MATH 261. Calculus III. (4).
Calculus III extends the concepts of calculus to a multivariable perspective. Topics such as functions, derivatives, integrals and various coordinate systems are used to explore change modeled by two or more variables. Vector algebra and vector fields are introduced to study the motion of objects. Students will use a computer algebra system to engage with material in the course. Prerequisite: MATH 252. (offered in fall).

MATH 265. Differential Equations. (4).
Students will formulate differential equations to model phenomena, solve these equations when possible and analyze these equations when solutions are not possible. Students will study single variable differential equations and systems, and applications of these in areas such as physics, chemistry and ecology. Analytical, graphical, and numerical methods will be explored. Prerequisite: Math-252. Recommended prerequisite: MATH-261 (offered in spring).

MATH 282. Selected Topics. (4).

MATH 282C. ST: Select Topic (core). (1-4).
Select Topic approved for Core requirement.

MATH 285. Travel Seminar. (1-4).

Upper Division

MATH 320. Elementary Mathematical Analysis. (4).
An introduction to mathematical analysis emphasizing conjecture and proof. Content includes elementary logic and quantifiers, manipulations with sets, relations and functions, properties of the real number system, supremums and infimums, sequences and limits of sequences, and the topology of the real line. The course will introduce students to the concepts and techniques of mathematical proof. Prerequisite: MATH 252, Recommended: MATH 241.

MATH 331. Data Analysis With R. (4).
This course studies the analysis of complex data sets in the statistical programming language R. Topics include an introduction to programming in R, data cleaning, descriptive statistics and graphics, probability models, hypothesis testing, confidence intervals, linear and logistic regression, classification, and cluster analysis. Students will learn to communicate their statistical results by critiquing journal articles and producing their own written analyses. Required prerequisites: MATH 231 or MATH 241 or MATH 251.

MATH 341. Graph Theory/Combinatorics. (4).
The course extends upon concepts introduced in Discrete Mathematics. Graph theory concepts include isomorphism, planarity, Eulerian circuits, and colorings. Network optimization concepts include minimum spanning trees, shortest path, traveling salesperson problem, maximum flow, and matching. Concepts in combinatorics include permutations, combinations, arrangements, distribution, binomial identities, generating functions, and recurrence relations. Students will be required to write proofs for theorems and pseudocode for algorithms.Prerequisite: MATH 241.

MATH 343. Linear Algebra. (4).
An introduction to solving systems of linear equations through the use of concepts such as vector spaces, linear transformations, matrices, eigenvalues and eigenvectors. Students will enhance mathematical communication skills through reading and writing proofs and will explore interdisciplinary applications of the theory of linear algebra in projects and computer laboratory assignments. Prerequisite: MATH 252. Recommended: MATH 261.

MATH 352. Probability and Statistics I. (4).
This course covers topics including methods of data description, probability theory, a study of several discrete and continuous distributions, the central limit theorem, estimation of parameters, confidence intervals and hypothesis testing. Prerequisite: MATH 252. Recommended: MATH 261.

MATH 381. Geometry. (4).
This course primarily investigates the integration of geometries on the plane, sphere and hyperbolic plane. An emphasis is placed on experiencing the meanings in the geometry. Student investigations, small-group learning and writing assignments will be used to explore geometrical ideas. The history and culture of mathematics, particularly as reflected by the development of geometrical understanding, will be threaded through the course. Prerequisite: MATH 252. Recommended: MATH 261 and MATH 343.

MATH 382. Number Theory. (4).
This course focuses on the properties of integers and the history of the discovery of these properties. Topics include fundamental theorems on divisibility, primes and congruences, as well as number-theoretical functions, Diophantine equations, quadratic reciprocity and Fermat's Last Theorem. This course will introduce students to the concepts and techniques of mathematical proof. Prerequisite: MATH 252 or consent of instructor. Recommended: MATH 241.

MATH 420. Real Analysis. (4).
A study of the real number system, set theory, sequences, functions, continuity, differentiation and Riemann-Stieltjes integration, with an emphasis on developing the ability to communicate mathematically. Prerequisite: MATH 261 and either MATH 382 or MATH 320 (preferred).

MATH 425. Abstract Algebra. (4).
Studies the theory of integers, groups, rings, fields and polynomials. Prerequisite: MATH 241 and either MATH 382 (preferred) or MATH 320.

MATH 450. Complex Variables. (4).
Topics include complex numbers and functions, analytic functions, differentiation, integration, series, contour integrals and conformal mapping. Prerequisite: MATH 261 and one other upper division mathematics course.

MATH 474. Capstone Preparation. (2).
Whether in industry, graduate school, or in your capstone project, skills in formulating answerable questions, identifying relevant sources, and locating helpful ideas is important. This course investigates the diversity of mathematical topics, skills for researching the topics, and the components of a project proposal. The course culminates in a written and oral presentation of a project proposal. Prerequisite: Mathematics major or minor and Junior standing. (offered in spring).

MATH 475. Capstone. (2).
The capstone in mathematics is intentionally open-ended. The focus of the course centers on the mathematics majors designing and carrying out individual projects suited to their interests and post-graduation goals. Weekly class meetings will be run in seminar fashion: each student will be expected to present at least one report on a) the culture of mathematics, b) the relationship between mathematics and other disciplines or career avenues or c) a moral/ethical issue related to mathematics. Prerequisite: senior standing.

MATH 482. Selected Topics. (1-4).

MATH 482C. ST: Select topic (core). (1-4).
Select Topic approved for core requirement.

MATH 490. Independent Study. (1-4).

MATH 492. Internship. (1-4).
(graded P/NC only).

MATH 496. Directed Research. (1-3).

MATH 497. Honors Research. (3).

Multimedia

Ideas become reality in the Multimedia major. Students learn the theory and practice of how a single premise is developed into a creative concept and practically applied across multiple mediums: the Internet, graphic design, digital cinema, immersive experiences, animation and digital games. We create a supportive and engaging environment where storytelling and commerce, art and computer science, cultural analysis and animation, students and faculty collaborate to produce exciting new works in dynamic media.

California Lutheran University's general education courses ground the student in the liberal arts. The Multimedia core courses and classes drawn from the entire University curriculum enhance that foundation. These include classes in art, theater, music, communication, business, computer science and education.

The Multimedia major leads to a bachelor of arts degree in one of these concentrated areas:

- Internet
- Graphic Design for Multimedia
- Digital Cinema for Multimedia
- Digital Gaming
- Visual Effects
- 3D Animation

Each student acquires a fundamental creative, technical and administrative competency across these disciplines. They invent and develop ideas into concepts, characters and stories. They acquire cross platform computer skills and in depth knowledge of software applications. They also learn essential interpersonal skills and a collaborative attitude to function well in a professional, team oriented business environment.

Moving beyond media literacy, our students understand the theories and processes behind media production and learn the tools and techniques to create and develop entire media franchises. Fulfilling the university mission of cultivating creative global citizens, they have the potential to become the next generation of global entrepreneurs: inventive, passionate, ethical and a stimulating force for good in the world.

This program allows students to experience success by achieving excellence. This is sound preparation for careers in a broad range of media fields including:

- Animation
- Concept design
- Computer games
- Creative development
- Digital cinema
- Directing
- E-commerce, gaming
- High definition (HD) and interactive television production
- Project management
- Web development
- Visual effects

The degree also serves as a springboard for advanced degrees in their fields.

Bachelor of Arts in Multimedia

62 credits minimum, 36 credits upper division.

All multimedia majors must declare an emphasis from the following:

Graphic Design/Print

MULT 100	Introduction to Multimedia	4
MULT 202	Media Theory, History and Creative Dev	4
MULT 204	Intermediate Multimedia	4
MULT 300	Advanced Multimedia I	4
MULT 301	Advanced Multimedia II	4
MULT 350A	Professional Internship	4
MULT 350B	Professional Internship	4
MULT 475	Capstone A	4
MULT 476	Capstone B	4
MULT 140	Multimedia Community	1
MULT 141	Multimedia Community	1
MULT 240	Multimedia Community	1
MULT 241	Multimedia Community	1
MULT 340	Multimedia Community	1
MULT 341	Multimedia Community	1
MULT 440	Multimedia Community	1
MULT 441	Multimedia Community	1
Required Courses:		
ART 236	Digital Photography	3
ART 280	Design	3
ART 435	Adv Photography Intro Journalism	3
ART 380	Digital Art	3
ART 480	Advanced Digital Art	3
MULT 463	Graphic Design Multimedia Integration	4
Total Hours		**63**

Interactivity, Web & Mobile Devices

MULT 100	Introduction to Multimedia	4
MULT 202	Media Theory, History and Creative Dev	4
MULT 204	Intermediate Multimedia	4
MULT 300	Advanced Multimedia I	4
MULT 301	Advanced Multimedia II	4
MULT 350A	Professional Internship	4
MULT 350B	Professional Internship	4
MULT 475	Capstone A	4
MULT 476	Capstone B	4
MULT 140	Multimedia Community	1
MULT 141	Multimedia Community	1
MULT 240	Multimedia Community	1
MULT 241	Multimedia Community	1
MULT 340	Multimedia Community	1
MULT 341	Multimedia Community	1
MULT 440	Multimedia Community	1
MULT 441	Multimedia Community	1
Select 11 credits from the following:		11
ART 236	Digital Photography	
MULT 463	Graphic Design Multimedia Integration	
MUS 200		
MUS 300	Studio Recording I	
CSC 110	Concepts of Programming	
CSC 210	Introduction to Computer Programming	

CSC 220	Advanced Computer Programming	
CSC 321	Computer Organization and Architecture	
CSC 344	Web Design	
CSC 370	Multimedia Technology	
Required Courses:		
ART 380	Digital Art	3
MULT 336	Developing Internet Content I	4
Total Hours		**62**

High Definition Digital Cinema for Multimedia

MULT 100	Introduction to Multimedia	4
MULT 202	Media Theory, History and Creative Dev	4
MULT 204	Intermediate Multimedia	4
MULT 300	Advanced Multimedia I	4
MULT 301	Advanced Multimedia II	4
MULT 350A	Professional Internship	4
MULT 350B	Professional Internship	4
MULT 475	Capstone A	4
MULT 476	Capstone B	4
MULT 140	Multimedia Community	1
MULT 141	Multimedia Community	1
MULT 240	Multimedia Community	1
MULT 241	Multimedia Community	1
MULT 340	Multimedia Community	1
MULT 341	Multimedia Community	1
MULT 440	Multimedia Community	1
MULT 441	Multimedia Community	1
Select one of the following:		3
COMM 307		
TA 131	Beginning Acting	
TA 367	Light/Sound Design for Stage and Media	
TA 368	Scenic Design for Stage and Media	
TA 475	Directing I,	
MUS 200		
MUS 300	Studio Recording I	
MUS 400	Studio Recording II	
Required Courses:		
ART 380	Digital Art	3
MULT 470	High Definition Digital Cinema I	4
MULT 471	High Definition Digital Cinema II	4
FILM 208	Beginning Cinema Production	4
FILM 308	Advanced Cinema Production	4
Total Hours		**66**

Visual Effects, Motion Graphics, & Animation

MULT 100	Introduction to Multimedia	4
MULT 202	Media Theory, History and Creative Dev	4
MULT 204	Intermediate Multimedia	4
MULT 300	Advanced Multimedia I	4
MULT 301	Advanced Multimedia II	4
MULT 350A	Professional Internship	4
MULT 350B	Professional Internship	4

MULT 475	Capstone A	4
MULT 476	Capstone B	4
MULT 140	Multimedia Community	1
MULT 141	Multimedia Community	1
MULT 240	Multimedia Community	1
MULT 241	Multimedia Community	1
MULT 340	Multimedia Community	1
MULT 341	Multimedia Community	1
MULT 440	Multimedia Community	1
MULT 441	Multimedia Community	1
Select 11 credits from the following:		11
ART 165	Life Drawing	
ART 320	Sculpture	
ART 480	Advanced Digital Art	
MULT 465	Maxon Cinema 4D 3D Animation	
MULT 490	Independent Study	
MUS 200		
MUS 300	Studio Recording I	
Required Courses:		
ART 380	Digital Art	3
MULT 358	Visual Effects/Motion Graphics/Animation	4
Total Hours		**62**

Digital Gaming

MULT 100	Introduction to Multimedia	4
MULT 202	Media Theory, History and Creative Dev	4
MULT 204	Intermediate Multimedia	4
MULT 300	Advanced Multimedia I	4
MULT 301	Advanced Multimedia II	4
MULT 350A	Professional Internship	4
MULT 350B	Professional Internship	4
MULT 475	Capstone A	4
MULT 476	Capstone B	4
MULT 140	Multimedia Community	1
MULT 141	Multimedia Community	1
MULT 240	Multimedia Community	1
MULT 241	Multimedia Community	1
MULT 340	Multimedia Community	1
MULT 341	Multimedia Community	1
MULT 440	Multimedia Community	1
MULT 441	Multimedia Community	1
Select 11 credits from the following:		11
ART 480	Advanced Digital Art	
MULT 358	Visual Effects/Motion Graphics/Animation	
MULT 490	Independent Study	
CSC 110	Concepts of Programming	
CSC 210	Introduction to Computer Programming	
CSC 321	Computer Organization and Architecture	
CSC 370	Multimedia Technology	
MUS 200		
MUS 300	Studio Recording I	
TA 131	Beginning Acting	

Required Courses:		
ART 380	Digital Art	3
MULT 465	Maxon Cinema 4D 3D Animation	4
Total Hours		**62**

Minor in Multimedia

24 Credits minimum, 12 upper division credits.

MULT 100	Introduction to Multimedia	4
MULT 202	Media Theory, History and Creative Dev	4
Select two of the following:		8
MULT 336	Developing Internet Content I	
MULT 358	Visual Effects/Motion Graphics/Animation	
MULT 462	Digital Illustration	
MULT 463	Graphic Design Multimedia Integration	
MULT 465	Maxon Cinema 4D 3D Animation	
MULT 470	High Definition Digital Cinema I	
MULT 471	High Definition Digital Cinema II	
Technical or Supportive Course		4
Select four of the following:		4
MULT 140	Multimedia Community	
MULT 141	Multimedia Community	
MULT 240	Multimedia Community	
MULT 241	Multimedia Community	
MULT 340	Multimedia Community	
MULT 341	Multimedia Community	
MULT 440	Multimedia Community	
MULT 441	Multimedia Community	
Total Hours		**24**

Courses

Lower Division

MULT 100. Introduction to Multimedia. (4).
Introduces students to the concept of multimedia and presents the latest developments in the field. Designed as the gateway to the major, the course will model in simplified form the way the major will function. Students will be introduced to basic skill competencies - both computer and non-computer - necessary for the major. General concepts relating to multimedia will be introduced including social, ethical and legal issues, among others. Collaborative work and group exercises will develop creative and nonlinear thinking, team building, and written and oral communication skills. Guest lecturers and workshop leaders will discuss and demonstrate the state of the current technology. Small multimedia projects will focus students on creating real-world products.

MULT 140/141. Multimedia Community. (1,1).
Hosted by the multimedia program, the Multimedia Community is a weekly series of one-hour sessions that include workshops, seminars, panel discussions, roundtables on internship experiences and client interaction, and other forms of presentations given by students, faculty and guest speakers. Many of the seminars and panel discussions focusing on the global connections of multimedia are open to the general campus community. The Multimedia Community's objective is to present technical, design, business, employment, legal and social issues that affect multimedia and other disciplines. Enrollment and attendance is mandatory for all prospective and declared majors and minors.

MULT 202. Media Theory, History and Creative Dev. (4).
A basic understanding of media theory, history and creative development provides the conceptual and practical foundation upon which all media products are created and built. This course is designed to be a vital, exciting, stimulating and relevant body of knowledge that will broaden the student's awareness of the multiplicity of the design process, enable the student to discover, activate and articulate their personal sources of inspiration and creativity, and ground them in a higher level of self confidence in their own artistic voice. A substantial number of oral presentations that require creative, critical thinking, and performance skills are required in this course.

MULT 204. Intermediate Multimedia. (4).
Intermediate multimedia enhances the student designer's skill sets by demonstrating how to translate a concept presentation into professional project documentation that clearly articulates their design goals and objectives. This writing intensive class integrates both visual and verbal communication through the preparation of story summaries, character development, branding logo and identity design, storyboarding, HDTV and digital cinema script treatment, event concepts, and game design. This is the second section of a three-part multimedia design and production model that includes the creative, technical and administrative aspects.

MULT 240/241. Multimedia Community. (1,1).
Hosted by the multimedia program, the Multimedia Community is a weekly series of one-hour sessions that include workshops, seminars, panel discussions, roundtables on internship experiences and client interaction, and other forms of presentations given by students, faculty and guest speakers. Many of the seminars and panel discussions focusing on the global connections of multimedia are open to the general campus community. The Multimedia Community's objective is to present technical, design, business, employment, legal and social issues that affect multimedia and other disciplines. Enrollment and attendance is mandatory for all prospective and declared majors and minors.

MULT 282C. ST: Select Topic (core). (1-4).
Select Topic approved core requirement.

Upper Division

MULT 300. Advanced Multimedia I. (4).
Concentrates on developing each student's specialty in multimedia as well as assessing higher levels of skill and knowledge competency. Team projects focus on broader uses of more advanced multimedia technology. Emphasis is placed on user interface, advanced communication skills and content development.

MULT 301. Advanced Multimedia II. (4).
Continuation of MULT 300.

MULT 336. Developing Internet Content I. (4).
This class concentrates on the design and implementation of high level concept and database driven websites using interdisciplinary teams across creative, technical and production skill sets. First semester concentrates on client side development and implementation. Second semester concentrates on server side development and implementation.

MULT 340/341. Multimedia Community. (1,1).
Hosted by the multimedia program, the Multimedia Community is a weekly series of one-hour sessions that include workshops, seminars, panel discussions, roundtables on internship experiences and client interaction, and other forms of presentations given by students, faculty and guest speakers. Many of the seminars and panel discussions focusing on the global connections of multimedia are open to the general campus community. The Multimedia Community's objective is to present technical, design, business, employment, legal and social issues that affect multimedia and other disciplines. Enrollment and attendance is mandatory for all prospective and declared majors and minors.

MULT 350A/350B. Professional Internship. (4,4).
Internships are arranged with companies producing or specializing in multimedia-related materials. Each student applies, if possible, for an internship with a company that most closely fits with his or her special area of interest. A significant journal and work portfolio will be assessed at the end of the internship.

MULT 358. Visual Effects/Motion Graphics/Animation. (4).
This class concentrates on professional visual effects, motion graphics and 3D animation techniques for High Definition Television and Digital Cinema. Grounded in the creative appraisal and technical analysis of script and production requirements students will learn entertainment industry skills such as asset management, script breakdown, plate production, blue/green screen compositing, title and type animation, and basic character animation and staging. Prerequisites: portfolio review or lab tutorials in After Effects and Photoshop, MULT 100, MULT 202, or permission of instructor or department chairperson.

MULT 440/441. Multimedia Community. (1,1).
Hosted by the multimedia program, the Multimedia Community is a weekly series of one-hour sessions that include workshops, seminars, panel discussions, roundtables on internship experiences and client interaction, and other forms of presentations given by students, faculty and guest speakers. Many of the seminars and panel discussions focusing on the global connections of multimedia are open to the general campus community. The Multimedia Community's objective is to present technical, design, business, employment, legal and social issues that affect multimedia and other disciplines. Enrollment and attendance is mandatory for all prospective and declared majors and minors.

MULT 462. Digital Illustration. (4).
In this class the creative application of Adobe Illustrator for commercial and fine art expression is realized. Course includes overview of illustration process including discussion of traditional versus digital techniques, developing concepts, working from sketches, digitizing artwork, learning digital tools, and printing finished works.

MULT 463. Graphic Design Multimedia Integration. (4).
This class focuses on the principles of design and how they are applied across multiple mediums: Print, Internet, High Definition Television and Digital Cinema. Common elements such as concept, composition, color, and typography are explored as well as the specific aesthetic and technical differences and requirements of each medium. Prerequisites: portfolio review, ART 280, MULT 100, or permission of instructor or department chair.

MULT 465. Maxon Cinema 4D 3D Animation. (4).
This class focuses on the principles of 3D animation and how they are applied across multiple media: Print, Internet, HD Television, Digital Cinema and Digital Gaming. Topics include construction of models, 3D space, composition, color, keyframe animation, visual effects and motion capture, as well as the specific aesthetic and technical requirements of the industry. Prerequisites: MULT 100, ART 280, ART 380, or permission of the instructor or department chair.

MULT 470. High Definition Digital Cinema I. (4).
Modeled after major studio and production company project workflows this two semester, hands-on, time intensive class concentrates on developing new dramatic, experimental, reality-documentary work from concept to pre-visualization, script, dailies, visual effects, audio design to edited short movie. Major use of the Internet for project management, research and development, production and distribution is emphasized.

MULT 471. High Definition Digital Cinema II. (4).
Modeled after major studio and production company project workflows this two semester, hand-on, time intensive class concentrates on the post production process for dramatic, experimental, reality documentary work from dailies, visual effects, color correction, audio design to edited short. Major use of the Internet for project management, research and development, post-production and distribution is emphasized.

MULT 475. Capstone A. (4).
The capstone course maintains and expands on the work done in previous classes. The capstone experience will also involve the yearlong development of contracted multimedia projects. The projects involve students in intense research and application of all that they have learned in the major, culminating in the delivery of an acceptable professional product and portfolio.

MULT 476. Capstone B. (4).
Continuation of MULT 475.

MULT 482. Selected Topics. (1-4).

MULT 482C. ST: Select Topic (core). (1-4).
Select Topic approved for core requirement.

MULT 490. Independent Study. (1-4).

MULT 492. Internship. (1-4).

MULT 496. Directed Research. (1-3).

Music

Whether music is your life – or simply a treasured part of the life you hope to create – Cal Lutheran's Music Department can provide the professional training and performance experiences that maximize your abilities and enhance your love of the art.

The Music Department prides itself on creating a strong musical education within a nurturing atmosphere. Faculty members are experienced professionals who are committed to teaching excellence.

The music program is widely respected for its performance ensembles, its classroom teaching, its studio instruction and the musical theater productions presented in collaboration with the Theatre Arts Department.

Music Department technology labs embrace the latest in digital music production and studio recording. The department works closely with the multimedia program to foster collaboration among students working on projects ranging from new media to film.

Each student has the opportunity to study privately with some of the finest musicians in the Los Angeles area. Individual lessons are available in voice, piano, organ, percussion, composition, and all string, brass and woodwind instruments. Solo performance opportunities are widely available.

Ensembles are open to all university students (by audition), and include the Cal Lutheran Choir, Women's Chorale, University Symphony, Wind Ensemble, Jazz Improvisation Ensemble, Percussion Ensemble, and smaller chamber ensembles. The Cal Lutheran Choir and Wind Ensemble embark on frequent tours. Past trips have included Hawaii, England, Scandinavia, and Italy.

Career preparation is an important part of the student/faculty mentor relationship. While many music students continue on to graduate studies, careful advising and planning of course work have led Cal Lutheran graduates to successful careers teaching in public schools and universities, working in the church or in establishing their own private studios. Graduates have also become successful singers, instrumentalists and conductors throughout the country. Music related work is also available in industries such as media, advertising, arts management and in the exciting ever-changing film, television and recording industries.

Scholarships are offered by audition to talented music students, whether majors or non-majors. Please check the music department website for audition details.

A fee is required for Private Lessons. For current fees, please refer to the University Costs (http://catalog.callutheran.edu/undergraduate/universitycosts/) section of the catalog.

Bachelor of Arts in Music

46 credits minimum; 20 credits upper division

MUS 101	Music and Culture	3
MUS 107	Music Theory I	2
MUS 108	Music Theory II	2
MUS 109	Musicianship Skills I	1
MUS 110	Musicianship Skills II	1
MUS 111	Keyboard Harmony I	1
MUS 112	Keyboard Harmony II	1
MUS 207	Music Theory III	2
MUS 208	Music Theory IV	2
MUS 209	Musicianship Skills III	1
MUS 210	Musicianship Skills IV	1
MUS 211	Keyboard Harmony III (includes piano proficiency exam)	1
MUS 301	History and Literature of Music	3
MUS 302	History and Literature of Music	3
MUS 309	Fundamentals of Conducting	3
MUS 407	Analyzing Music	2
MUS 475	Capstone: Senior Recital/Thesis	1
Applied lessons with 4 upper division		8
Large ensemble with 4 upper division		8
Total Hours		**46**

Performance Emphasis

12 credits minimum.

MUS 375	Junior Recital	1
MUS 439	Creating Music	3
MUS 154	Chamber Music	1
MUS 154	Chamber Music	1
MUS 354	Chamber Music	1
MUS 354	Chamber Music	1
Additional upper division applied lessons		4
Total Hours		**12**

[1] Voice/Piano majors may use one of the following in lieu of 1 unit of MUS 354: MUS 453 (2) or MUS 454 (2).
Percussion majors may substitute MUS 160/MUS 360 for MUS 354.

Composition Emphasis

11 credits minimum. Composition majors must take a minimum of two semesters of MUS 140/MUS 340 (piano).

MUS 200		3
MUS 375	Junior Recital	1
MUS 439	Creating Music	3
MUS 347	Composition	1
MUS 347	Composition	1
MUS 347	Composition	1
MUS 347	Composition	1
Total Hours		**11**

Music Education Emphasis

13 credits minimum.

MUS 200		3
MUS 423	String and Brass Techniques	2
MUS 424	Woodwind and Percussion Techniques	2
MUS 439	Creating Music	3
MUS 410	Choral Conducting	3
or MUS 411	Instrumental Conducting	
MUS 404	Foundations of Music Education	3
Total Hours		**16**

Music Technology Emphasis

14 credits minimum.

MUS 200		4
MUS 300/300L	Studio Recording I and Studio Recording I Lab	4
MUS 400/400L	Studio Recording II and	4
MUS 439	Creating Music	3
MUS 492	Internship	2
Total Hours		**17**

Church Music Emphasis

12 credits minimum.

MUS 392	Liturgy and Worship	4
MUS 410	Choral Conducting	3
MUS 439	Creating Music	3
MUS 492	Internship	2
Total Hours		**12**

Notes:

- Applied lessons may be divided between voice and piano/organ (minimum of four required in piano/organ).
- RLTH 331 or RLTH 332 recommended for upper division religion requirement. Recommended participation in Lord of Life Worship Team.

Musical Theatre Emphasis

12 credits minimum.

TA 133	Acting I	4
TA 334	Stage Speech	2
MUS 370	Acting for Musical Theater	2
MUS 337	Course MUS 337 Not Found	2
MUS 403	History of Musical Theater	2
Total Hours		**12**

Minor in Music

20 credits minimum, 10 credits upper division.

MUS 101	Music and Culture	3
MUS 107	Music Theory I	2
MUS 108	Music Theory II	2
MUS 109	Musicianship Skills I	1
MUS 110	Musicianship Skills II	1
MUS 111	Keyboard Harmony I	1
MUS 112	Keyboard Harmony II	1
MUS 309	Fundamentals of Conducting	3
Piano proficiency		

Upper Division Music Elective Units [1]	6
Total Hours	**20**

[1] Complete the remainder of needed units for the minor with: applied lessons in one performance area, large ensemble participation, or music electives.

Teaching Credential

Students interested in teaching music should contact the Chair of the Music Department for information about the music subject matter program. (See Education)

Private Instruction

Class or private instruction for voice and instruments. Credit is dependent on number of lessons per week. One credit is granted for a 30-minute lesson together with a minimum of five hours practice per week and monthly attendance at Recital Class.

Classes in performance areas within the Music Department, i.e., class piano, class voice, class percussion and class guitar, may be taken for two semesters only for credit. All other applied music classes, i.e., piano, voice, guitar, strings, etc., may be taken for credit each semester a student is in residence. (See University Costs for private instruction fees).

Courses

Lower Division

MUS 101. Music and Culture. (3).
A music appreciation course designed to cultivate perceptive listening of the music of all stylistic periods with emphasis on the role of music within its cultural history. (nonmajors accepted).

MUS 102. Fundamentals of Music. (3).
Emphasis is placed on the basic skills of reading and writing music. Students need have no prior knowledge of music. (Recommended for elementary classroom teachers or anyone interested in music.) (for non-majors).

MUS 103. Music for Classroom Teachers. (3).
Intended for future elementary classroom teachers, this course is designed to equip students with the basic skills of reading and writing music, and understanding of the importance of music in the curriculum, and familiarity with the materials and methods for teaching music to children. Students need have no prior knowledge of music and is designed for non-music majors.

MUS 105/106. Applied Music Lessons. (1,2).
Private instruction for voice, instruments, composition and song-writing. Lessons consist of one 30-minute meeting weekly for 12 weeks during the semester. Additionally, students are required to attend the Music Department performance forum on selected dates throughout the semester. Performance on a performance forum concert will be dependent upon the requirements of individual private lesson faculty, or departmental requirements for certain music scholarship recipients. All private lessons require a juried performance during the week of final exams. A private lesson fee of $330 applies to this course.

MUS 107. Music Theory I. (2).
A study of the primary written materials used for music making. Work will focus on the learning of scales, key signatures, intervals, chords, diatonic chords, commercial chord symbols, rhythm and meter, and an introduction to harmony.

MUS 108. Music Theory II. (2).
An exploration of diatonic harmony achieved through the study of part writing procedures and analysis. Materials will include triads and seventh chords in all inversions, non-chord tones, and an introduction to localized musical structures such as cadences and phrases. Prerequisite: MUS 107.

MUS 109. Musicianship Skills I. (1).
A lab course for achieving basic musical performance skills. The three main components of the course are rhythm, melody reading with solfege, and ear-training exercises. As the first semester in a four-semester sequence, materials will include elementary rhythms in simple and compound meter, diatonic melodies from literature with stepwise motion and simple leaps, interval singing and identification, and ear-training on all of the above materials.

MUS 110. Musicianship Skills II. (1).
A continuation of Musicianship Skills I. Rhythmic exercises will include one and two-part patterns with the inclusion of ties, rests, and syncopation. Melodic reading will consist of diatonic melodies from literature with skips in all chords. Ear-training exercises will include the identification of the intermediate rhythms, diatonic melodies, and simple harmonic progressions. Prerequisite: MUS 109.

MUS 111. Keyboard Harmony I. (1).
A lab course for applying basic theoretical knowledge to the keyboard. Students will perform exercises using diatonic materials, including major and minor scales, triads and seventh chords, and four-part chorale voicing of chords. This is the first semester of a three-semester sequence.

MUS 112. Keyboard Harmony II. (1).
A continuation of Keyboard Harmony I. Students will perform short diatonic progressions in a four-part chorale style, using the voice-leading procedures learned in the Music Theory II course. This is the second semester of a three-semester sequence. Prerequisite: MUS 111.

MUS 113. Class Voice. (1).
A study of the fundamentals of vocal production and solo vocal literature in a class setting. (Not applicable for the music major whose primary instrument is voice.).

MUS 114. Class Piano. (1).
A practical study of music fundamentals and basic piano technique through the medium of the keyboard. (Not applicable for the music major whose primary instrument is piano.).

MUS 116. Class Guitar. (1).
A study of fundamental guitar technique in a class setting. (Not applicable for the music major whose primary instrument is guitar).

MUS 140/140A. Piano. (1-2,1-2).

MUS 140B/140C. Piano. (1-2,1-2).

MUS 140D. Piano. (1-2).

MUS 141. Organ. (1-2).

MUS 142A/142B. Voice. (1-2,1-2).

MUS 142C/142D. Voice. (1-2,1-2).

MUS 143A. Strings: Violin. (1-2).

MUS 143B. Strings: Viola. (1-2).

MUS 143C. Strings: Cello. (1-2).

MUS 143D. Strings: Double Bass. (1-2).

MUS 143E. Strings: Guitar. (1-2).

MUS 143F. Strings/Guitar. (1-2).

MUS 143G. Strings/Harp. (1-2).

MUS 144A. Woodwinds: Flute. (1-2).

MUS 144B. Woodwinds: Clarinet. (1-2).

MUS 144C. Woodwinds: Oboe. (1-2).

MUS 144D. Woodwinds: Bassoon. (1-2).

MUS 144E. Woodwinds: Saxophone. (1-2).

MUS 145A. Brass: Trumpet. (1-2).

MUS 145B. Brass: Trombone/Tuba. (1-2).

MUS 145C. Brass: French Horn. (1-2).

MUS 145D. Brass/Tuba Euphonium. (1-2).

MUS 146A/146B. Percussion. (1,2).
Includes mallet and percussion instruments.

MUS 147. Composition. (1-2).
Individual lessons on modern procedures for composing music in the tradition of European and American concert music.

MUS 150. Women's Chorale. (1).
The study of various styles of choral music with emphasis on vocal development. Opportunity for public performance. Prerequisite: consent of instructor.

MUS 153. Wind Ensemble. (1).
The study of representative literature with special emphasis on performance. Prerequisite: consent of instructor.

MUS 154. Chamber Music. (1).
The study and performance of instrumental and vocal chamber music. Prerequisite: Permission of Music Department chair.

MUS 155. Jazz Ensemble. (1).
The study and performance of literature appropriate for this performance medium. By audition.

MUS 160. Percussion Ensemble. (1).
The development of techniques for all percussion instruments, including work with mallets, Includes the study and performance of standard percussion ensemble literature.

MUS 180. California Lutheran Choir. (1).
The study of choral repertoire representing all historical periods and musical styles. Frequent public performance. By audition.

MUS 181. University Symphony. (1).
The study of representative instrumental literature of different historical periods, with emphasis on public performances. By audition.

MUS 207. Music Theory III. (2).
A study of chromatic materials in tonal music, including the analysis and part writing procedures for secondary functions, mode mixture, Neapolitan and augmented-sixth chords, diatonic and chromatic modulation. Prerequisite: MUS 108.

MUS 208. Music Theory IV. (2).
A study of musical materials and compositional techniques from the early 20th-century to the present. The course will be divided into two parts: the first half focuses on the Pre-WW II works of Debussy, Stravinsky, Bartok, and the Second Viennese school; the second half will survey major trends since WW II, with an emphasis on music by American composers. Prerequisite: MUS 207.

MUS 209. Musicianship Skills III. (1).
A continuation of Musicianship Skills II. Students will learn advanced rhythmic exercises, including patterns with small and large beat divisions. Melody reading and ear-training exercises will focus on chromatic and modal materials. Prerequisite: MUS 110.

MUS 210. Musicianship Skills IV. (1).
As the fourth and final semester of the Musicianship Skills sequence, this course will focus on performance skills of advanced rhythms, chromatic and atonal melodies, and other materials common in 20th-century music. Rhythmic exercises will include meter changes, polyrhythms, and metric modulation. Ear-training will include the identification of atonal melodies and trichords. Prerequisite: MUS 209.

MUS 211. Keyboard Harmony III. (1).
As the third and final semester of the Keyboard Harmony sequence, this course will focus on the performance of advanced diatonic, chromatic, and modulating harmonic progressions. Prerequisite: MUS 112.

MUS 282C. ST: Select Topic (core). (1-4).
Select Topic approved for core requirement.

Upper Division

MUS 300. Studio Recording I. (4).
Studio theory and standard audio recording techniques with a Pro Tools HD workstation are explored in this course. Topics include: microphones, signal flow, outboard equipment, patching, signal processing, plug-ins, studio communication, and recording session management. Lecture, 3 hours/week; Laboratory, 2 hours/week. Prerequisite: Mus 200.

MUS 300L. Studio Recording I Lab. (0).

MUS 301/302. History and Literature of Music. (3,3).
A survey of Western European musical heritage from ancient times to the present. Includes formal and stylistic analysis of music representing the different periods through listening, score study and live performances. Prerequisite: consent of instructor.

MUS 305/306. Applied Music Lessons. (1,2).
Private instruction for voice, instruments, composition and song-writing. Lessons consist of one 30-minute meeting weekly for 12 weeks during the semester. Lessons at the 300 level should reflect a higher level of proficiency than lessons at the 100 level, and should incorporate advanced instruction. Additionally, students are required to attend the Music Department performance forum on selected dates throughout the semester. Performance on a performance forum concert will be dependent upon the requirements of individual private lesson faculty, or departmental requirements for certain music scholarship recipients. All private lessons require a juried performance during the week of final exams. A private lesson fee of $330 applies to this course.

MUS 309. Fundamentals of Conducting. (3).
The study of basic conducting techniques, use of the baton, score study and preparation as well as methods of verbal and nonverbal communication. Prerequisite: consent of instructor.

MUS 312. Alexander Technique. (1-2).
Introduces students to the principles of the Alexander Technique and the application of these principles in their major areas. The principles develop increased mind and body coordination and are most commonly applied to acting, singing, public speaking, musical instrument performance and athletic performance. Additional fee required. (cross-listed with ACTV 312 & TA 312).

MUS 333. History and Survey of Film Music. (4).
This is a survey of film music from the advent of film sound to the 21st Century. The course will focus on dramatic scoring in primarily American feature films, including a significant examination of historically underrepresented groups in film music production, such as African-American and female composers. Open to non-majors.

MUS 340/340A. Piano. (1-2,1-2).

MUS 340B. Piano/Harpsichord. (1-2).

MUS 340C/340D. Piano. (1-2,1-2).

MUS 341. Organ. (1-2).

MUS 342A/342B. Voice. (1-2,1-2).

MUS 342C/342D. Voice. (1-2,1).

MUS 343A. Strings: Violin. (1-2).

MUS 343B. Strings: Viola. (1-2).

MUS 343C. Strings: Cello. (1-2).

MUS 343D. Strings: Double Bass. (1-2).

MUS 343E. Strings: Guitar. (1-2).

MUS 343F. Strings: Harp. (1-2).

MUS 343G. Strings/Harp. (1-2).

MUS 344A. Woodwinds: Flute. (1-2).

MUS 344B. Woodwinds: Clarinet. (1-2).

MUS 344C. Woodwinds: Oboe. (1-2).

MUS 344D. Woodwinds: Bassoon. (1-2).

MUS 344E. Woodwinds: Saxophone. (1-2).

MUS 345A. Brass: Trumpet. (1-2).

MUS 345B. Brass: Trombone/Tuba. (1-2).

MUS 345C. Brass: French Horn. (1-2).

MUS 345D. Brass/Tuba Euphonium. (1-2).

MUS 346/346A. Percussion. (1-2,1-2).
Includes mallet and percussion instruments.

MUS 346B. Percussion. (1-2).
Includes mallet and percussion instruments.

MUS 347. Composition. (1-2).
Individual lessons on modern procedures for composing music in the tradition of European and American concert music.

MUS 350. Women's Chorale. (1).
The study of various styles of choral music with emphasis on vocal development. Opportunity for public performance. Prerequisite: consent of instructor.

MUS 353. Wind Ensemble. (1).
The study of representative literature with special emphasis on performance. Prerequisite: consent of instructor.

MUS 354. Chamber Music. (1).
The study and performance of instrumental and vocal chamber music. Prerequisite: Permission of Music Department chair.

MUS 355. Jazz Ensemble. (1).
The study and performance of literature appropriate for this performance medium. By audition.

MUS 360. Percussion Ensemble. (1).
The development of techniques for all percussion instruments, including work with mallets, Includes the study and performance of standard percussion ensemble literature.

MUS 370. Acting for Musical Theater. (2).
Musical Theatre Workshop is designed to develop a technique for musical solo and audition performances. The course will include song analysis, an acting approach to song and choice of material, and technique. (cross-listed with TA 370).

MUS 375. Junior Recital. (1).

MUS 380. California Lutheran Choir. (1).
The study of choral repertoire representing all historical periods and musical styles. Frequent public performance. By audition.

MUS 381. University Symphony. (1).
The study of representative instrumental literature of different historical periods, with emphasis on public performances. By audition.

MUS 392. Liturgy and Worship. (4).
This course is an introduction to Christian liturgical tradition, principally as expressed in Western Christianity. It will include some comparison with non-Christian religious customs, and will give considerable emphasis to the development of worship in the Protestant tradition. The subject matter will be approached from a historical perspective, but will also include some practical training if there is demand. Christian hymnody and liturgical music will also be introduced, with an emphasis on the distinctive Lutheran contributions in those areas. (cross-listed with REL 392).

MUS 400. Studio Recording II. (4).
An exploration of advanced audio recording techniques using a Pro Tool HD workstation. Topics include: techniques for recording acoustic and electric instruments, remote recording, intermediate mixing techniques, studio acoustics, wiring and design. Lecture, 3 hours/week; Laboratory, 2 hours/week. Prerequisite: MUS 300.

MUS 403. History of Musical Theater. (2).
This course is designed to have wide interdisciplinary appeal. It will trace the origins of American Musical Theatre to roots in Greek drama, early Christian passion plays and various genres of European opera. Throughout the course of study, parallels will be drawn between American Musical Theatre and various important examples from comic German Singspiels, Italian opera buffe, etc. Students should come away from this course with a new appreciation for musical theatre and opera as well as the American Film Musical.

MUS 404. Foundations of Music Education. (3).
An introductory course in the field of music education designed for students seeking an emphasis in Music Education. This course will survey the history of K-12 schools, and explore various learning approaches, methodologies, and evaluate tools commonly used within diverse music classrooms.

MUS 407. Analyzing Music. (2).
A survey of small and large musical structures through a study of selected European and American works from 1600 to the present. Primary forms to be explored will include variation, sonata, rondo, minuet, and arch form. Prerequisite: MUS 208.

MUS 410. Choral Conducting. (3).
The study and practical application of methods of choral ensemble training. Emphasis is threefold: mastery of conducting skills, understanding of the dynamics of the ensemble and knowledge of choral literature. Prerequisite: MUS 309.

MUS 411. Instrumental Conducting. (3).
Practical experience with a laboratory group in instrumental music. Prerequisite: MUS 309.

MUS 423. String and Brass Techniques. (2).
Elementary instruction in the technique of playing string and brass instruments. Recommended for public school music teachers.

MUS 424. Woodwind and Percussion Techniques. (2).
Elementary instruction in the technique of playing woodwind and percussion instruments. Recommended for public school music teachers.

MUS 439. Creating Music. (3).
An exploration of the creative aspects of music writing, combining elements of composition, orchestration and counterpoint. The composition element will focus on writing short instrumental and vocal works in traditional and modern forms. The orchestration component will involve a survey of instrumental characteristics and their compositional use within small and large ensembles. Counterpoint will be introduced through the study and writing of polyphonic structures, such as canon and fugue. Prerequisite: MUS 208.

MUS 453. Vocal Pedagogy. (2).
Covers the principles of teaching voice based on the physiological functions of the vocal mechanism. Individual as well as group instruction is considered. Recommended for vocal or choral students who may wish to teach in school or community.

MUS 475. Capstone: Senior Recital/Thesis. (1).

MUS 482. Selected Topics. (1-4).

MUS 482C. ST: Select Topic (core). (1-4).
Select Topic approved for core requirement.

MUS 482L. Special Topics Lab. (4.00).

MUS 490. Independent Study. (1-4).

MUS 492. Internship. (1-4).

MUS 496. Directed Research. (1-3).

Music Production

Bachelor of Arts in Music Production

45 credits minimum, 23 credits upper division

MUPR 101	Intro to Music Production (Intro to Music Production)	4
MUS 105	Applied Music Lessons (Applied Music Lessons - 2 semesters at 1 credit)	2
MUS 107	Music Theory I	2

MUS 109	Musicianship Skills I	1
MUS 111	Keyboard Harmony I	1
MUS 108	Music Theory II	2
MUS 110	Musicianship Skills II	1
MUS 112	Keyboard Harmony II	1
MUPR 201	Music Production II (Music Production II)	4
MUPR 270	Music & Commerce (Music & Commerce)	4
MUPR 350	Studio Recording I (Studio Recording I)	4
MUPR 401	Advanced Music Production (Advanced Music Production)	4
MUPR 475	(Music Production Capstone)	1
Historical Seminar: Take one course		
MUS 333	History and Survey of Film Music	4
Electives: At least 10 credits upper-division		
MUPR 305	Song Writing Lab (Song Writing Lab)	2
MUPR 360	Studio Recording II (Studio Recording II)	4
MUPR 450	Mixing & Signal Processing (Mixing & Signal Processing)	4
MUPR 460	Analog Console Mixing (Analog Console Mixing)	4
MUPR 470	Music Publishing & Distribution (Music Publishing & Distribution)	4
MUS 492	Internship	1-4

Courses

Lower Division

MUS 101. Music and Culture. (3).
A music appreciation course designed to cultivate perceptive listening of the music of all stylistic periods with emphasis on the role of music within its cultural history. (nonmajors accepted).

MUS 102. Fundamentals of Music. (3).
Emphasis is placed on the basic skills of reading and writing music. Students need have no prior knowledge of music. (Recommended for elementary classroom teachers or anyone interested in music.) (for non-majors).

MUS 103. Music for Classroom Teachers. (3).
Intended for future elementary classroom teachers, this course is designed to equip students with the basic skills of reading and writing music, and understanding of the importance of music in the curriculum, and familiarity with the materials and methods for teaching music to children. Students need have no prior knowledge of music and is designed for non-music majors.

MUS 105/106. Applied Music Lessons. (1,2).
Private instruction for voice, instruments, composition and song-writing. Lessons consist of one 30-minute meeting weekly for 12 weeks during the semester. Additionally, students are required to attend the Music Department performance forum on selected dates throughout the semester. Performance on a performance forum concert will be dependent upon the requirements of individual private lesson faculty, or departmental requirements for certain music scholarship recipients. All private lessons require a juried performance during the week of final exams. A private lesson fee of $330 applies to this course.

MUS 107. Music Theory I. (2).
A study of the primary written materials used for music making. Work will focus on the learning of scales, key signatures, intervals, chords, diatonic chords, commercial chord symbols, rhythm and meter, and an introduction to harmony.

MUS 108. Music Theory II. (2).
An exploration of diatonic harmony achieved through the study of part writing procedures and analysis. Materials will include triads and seventh chords in all inversions, non-chord tones, and an introduction to localized musical structures such as cadences and phrases. Prerequisite: MUS 107.

MUS 109. Musicianship Skills I. (1).
A lab course for achieving basic musical performance skills. The three main components of the course are rhythm, melody reading with solfege, and ear-training exercises. As the first semester in a four-semester sequence, materials will include elementary rhythms in simple and compound meter, diatonic melodies from literature with stepwise motion and simple leaps, interval singing and identification, and ear-training on all of the above materials.

MUS 110. Musicianship Skills II. (1).
A continuation of Musicianship Skills I. Rhythmic exercises will include one and two-part patterns with the inclusion of ties, rests, and syncopation. Melodic reading will consist of diatonic melodies from literature with skips in all chords. Ear-training exercises will include the identification of the intermediate rhythms, diatonic melodies, and simple harmonic progressions. Prerequisite: MUS 109.

MUS 111. Keyboard Harmony I. (1).
A lab course for applying basic theoretical knowledge to the keyboard. Students will perform exercises using diatonic materials, including major and minor scales, triads and seventh chords, and four-part chorale voicing of chords. This is the first semester of a three-semester sequence.

MUS 112. Keyboard Harmony II. (1).
A continuation of Keyboard Harmony I. Students will perform short diatonic progressions in a four-part chorale style, using the voice-leading procedures learned in the Music Theory II course. This is the second semester of a three-semester sequence. Prerequisite: MUS 111.

MUS 113. Class Voice. (1).
A study of the fundamentals of vocal production and solo vocal literature in a class setting. (Not applicable for the music major whose primary instrument is voice.).

MUS 114. Class Piano. (1).
A practical study of music fundamentals and basic piano technique through the medium of the keyboard. (Not applicable for the music major whose primary instrument is piano.).

MUS 116. Class Guitar. (1).
A study of fundamental guitar technique in a class setting. (Not applicable for the music major whose primary instrument is guitar).

MUS 140/140A. Piano. (1-2,1-2).

MUS 140B/140C. Piano. (1-2,1-2).

MUS 140D. Piano. (1-2).

MUS 141. Organ. (1-2).

MUS 142A/142B. Voice. (1-2,1-2).

MUS 142C/142D. Voice. (1-2,1-2).

MUS 143A. Strings: Violin. (1-2).

MUS 143B. Strings: Viola. (1-2).

MUS 143C. Strings: Cello. (1-2).

MUS 143D. Strings: Double Bass. (1-2).

MUS 143E. Strings: Guitar. (1-2).

MUS 143F. Strings/Guitar. (1-2).

MUS 143G. Strings/Harp. (1-2).

MUS 144A. Woodwinds: Flute. (1-2).

MUS 144B. Woodwinds: Clarinet. (1-2).

MUS 144C. Woodwinds: Oboe. (1-2).

MUS 144D. Woodwinds: Bassoon. (1-2).

MUS 144E. Woodwinds: Saxophone. (1-2).

MUS 145A. Brass: Trumpet. (1-2).

MUS 145B. Brass: Trombone/Tuba. (1-2).

MUS 145C. Brass: French Horn. (1-2).

MUS 145D. Brass/Tuba Euphonium. (1-2).

MUS 146A/146B. Percussion. (1,2).
Includes mallet and percussion instruments.

MUS 147. Composition. (1-2).
Individual lessons on modern procedures for composing music in the tradition of European and American concert music.

MUS 150. Women's Chorale. (1).
The study of various styles of choral music with emphasis on vocal development. Opportunity for public performance. Prerequisite: consent of instructor.

MUS 153. Wind Ensemble. (1).
The study of representative literature with special emphasis on performance. Prerequisite: consent of instructor.

MUS 154. Chamber Music. (1).
The study and performance of instrumental and vocal chamber music. Prerequisite: Permission of Music Department chair.

MUS 155. Jazz Ensemble. (1).
The study and performance of literature appropriate for this performance medium. By audition.

MUS 160. Percussion Ensemble. (1).
The development of techniques for all percussion instruments, including work with mallets, Includes the study and performance of standard percussion ensemble literature.

MUS 180. California Lutheran Choir. (1).
The study of choral repertoire representing all historical periods and musical styles. Frequent public performance. By audition.

MUS 181. University Symphony. (1).
The study of representative instrumental literature of different historical periods, with emphasis on public performances. By audition.

MUS 207. Music Theory III. (2).
A study of chromatic materials in tonal music, including the analysis and part writing procedures for secondary functions, mode mixture, Neapolitan and augmented-sixth chords, diatonic and chromatic modulation. Prerequisite: MUS 108.

MUS 208. Music Theory IV. (2).
A study of musical materials and compositional techniques from the early 20th-century to the present. The course will be divided into two parts: the first half focuses on the Pre-WW II works of Debussy, Stravinsky, Bartok, and the Second Viennese school; the second half will survey major trends since WW II, with an emphasis on music by American composers. Prerequisite: MUS 207.

MUS 209. Musicianship Skills III. (1).
A continuation of Musicianship Skills II. Students will learn advanced rhythmic exercises, including patterns with small and large beat divisions. Melody reading and ear-training exercises will focus on chromatic and modal materials. Prerequisite: MUS 110.

MUS 210. Musicianship Skills IV. (1).
As the fourth and final semester of the Musicianship Skills sequence, this course will focus on performance skills of advanced rhythms, chromatic and atonal melodies, and other materials common in 20th-century music. Rhythmic exercises will include meter changes, polyrhythms, and metric modulation. Ear-training will include the identification of atonal melodies and trichords. Prerequisite: MUS 209.

MUS 211. Keyboard Harmony III. (1).
As the third and final semester of the Keyboard Harmony sequence, this course will focus on the performance of advanced diatonic, chromatic, and modulating harmonic progressions. Prerequisite: MUS 112.

MUS 282C. ST: Select Topic (core). (1-4).
Select Topic approved for core requirement.

Upper Division

MUS 300. Studio Recording I. (4).
Studio theory and standard audio recording techniques with a Pro Tools HD workstation are explored in this course. Topics include: microphones, signal flow, outboard equipment, patching, signal processing, plug-ins, studio communication, and recording session management. Lecture, 3 hours/week; Laboratory, 2 hours/week. Prerequisite: Mus 200.

MUS 300L. Studio Recording I Lab. (0).

MUS 301/302. History and Literature of Music. (3,3).
A survey of Western European musical heritage from ancient times to the present. Includes formal and stylistic analysis of music representing the different periods through listening, score study and live performances. Prerequisite: consent of instructor.

MUS 305/306. Applied Music Lessons. (1,2).
Private instruction for voice, instruments, composition and song-writing. Lessons consist of one 30-minute meeting weekly for 12 weeks during the semester. Lessons at the 300 level should reflect a higher level of proficiency than lessons at the 100 level, and should incorporate advanced instruction. Additionally, students are required to attend the Music Department performance forum on selected dates throughout the semester. Performance on a performance forum concert will be dependent upon the requirements of individual private lesson faculty, or departmental requirements for certain music scholarship recipients. All private lessons require a juried performance during the week of final exams. A private lesson fee of $330 applies to this course.

MUS 309. Fundamentals of Conducting. (3).
The study of basic conducting techniques, use of the baton, score study and preparation as well as methods of verbal and nonverbal communication. Prerequisite: consent of instructor.

MUS 312. Alexander Technique. (1-2).
Introduces students to the principles of the Alexander Technique and the application of these principles in their major areas. The principles develop increased mind and body coordination and are most commonly applied to acting, singing, public speaking, musical instrument performance and athletic performance. Additional fee required. (cross-listed with ACTV 312 & TA 312).

MUS 333. History and Survey of Film Music. (4).
This is a survey of film music from the advent of film sound to the 21st Century. The course will focus on dramatic scoring in primarily American feature films, including a significant examination of historically underrepresented groups in film music production, such as African-American and female composers. Open to non-majors.

MUS 340/340A. Piano. (1-2,1-2).

MUS 340B. Piano/Harpsichord. (1-2).

MUS 340C/340D. Piano. (1-2,1-2).

MUS 341. Organ. (1-2).

MUS 342A/342B. Voice. (1-2,1-2).

MUS 342C/342D. Voice. (1-2,1).

MUS 343A. Strings: Violin. (1-2).

MUS 343B. Strings: Viola. (1-2).

MUS 343C. Strings: Cello. (1-2).

MUS 343D. Strings: Double Bass. (1-2).

MUS 343E. Strings: Guitar. (1-2).

MUS 343F. Strings: Harp. (1-2).

MUS 343G. Strings/Harp. (1-2).

MUS 344A. Woodwinds: Flute. (1-2).

MUS 344B. Woodwinds: Clarinet. (1-2).

MUS 344C. Woodwinds: Oboe. (1-2).

MUS 344D. Woodwinds: Bassoon. (1-2).

MUS 344E. Woodwinds: Saxophone. (1-2).

MUS 345A. Brass: Trumpet. (1-2).

MUS 345B. Brass: Trombone/Tuba. (1-2).

MUS 345C. Brass: French Horn. (1-2).

MUS 345D. Brass/Tuba Euphonium. (1-2).

MUS 346/346A. Percussion. (1-2,1-2).
Includes mallet and percussion instruments.

MUS 346B. Percussion. (1-2).
Includes mallet and percussion instruments.

MUS 347. Composition. (1-2).
Individual lessons on modern procedures for composing music in the tradition of European and American concert music.

MUS 350. Women's Chorale. (1).
The study of various styles of choral music with emphasis on vocal development. Opportunity for public performance. Prerequisite: consent of instructor.

MUS 353. Wind Ensemble. (1).
The study of representative literature with special emphasis on performance. Prerequisite: consent of instructor.

MUS 354. Chamber Music. (1).
The study and performance of instrumental and vocal chamber music. Prerequisite: Permission of Music Department chair.

MUS 355. Jazz Ensemble. (1).
The study and performance of literature appropriate for this performance medium. By audition.

MUS 360. Percussion Ensemble. (1).
The development of techniques for all percussion instruments, including work with mallets, Includes the study and performance of standard percussion ensemble literature.

MUS 370. Acting for Musical Theater. (2).
Musical Theatre Workshop is designed to develop a technique for musical solo and audition performances. The course will include song analysis, an acting approach to song and choice of material, and technique. (cross-listed with TA 370).

MUS 375. Junior Recital. (1).

MUS 380. California Lutheran Choir. (1).
The study of choral repertoire representing all historical periods and musical styles. Frequent public performance. By audition.

MUS 381. University Symphony. (1).
The study of representative instrumental literature of different historical periods, with emphasis on public performances. By audition.

MUS 392. Liturgy and Worship. (4).
This course is an introduction to Christian liturgical tradition, principally as expressed in Western Christianity. It will include some comparison with non-Christian religious customs, and will give considerable emphasis to the development of worship in the Protestant tradition. The subject matter will be approached from a historical perspective, but will also include some practical training if there is demand. Christian hymnody and liturgical music will also be introduced, with an emphasis on the distinctive Lutheran contributions in those areas. (cross-listed with REL 392).

MUS 400. Studio Recording II. (4).
An exploration of advanced audio recording techniques using a Pro Tool HD workstation. Topics include: techniques for recording acoustic and electric instruments, remote recording, intermediate mixing techniques, studio acoustics, wiring and design. Lecture, 3 hours/week; Laboratory, 2 hours/week. Prerequisite: MUS 300.

MUS 403. History of Musical Theater. (2).
This course is designed to have wide interdisciplinary appeal. It will trace the origins of American Musical Theatre to roots in Greek drama, early Christian passion plays and various genres of European opera. Throughout the course of study, parallels will be drawn between American Musical Theatre and various important examples from comic German Singspiels, Italian opera buffe, etc. Students should come away from this course with a new appreciation for musical theatre and opera as well as the American Film Musical.

MUS 404. Foundations of Music Education. (3).
An introductory course in the field of music education designed for students seeking an emphasis in Music Education. This course will survey the history of K-12 schools, and explore various learning approaches, methodologies, and evaluate tools commonly used within diverse music classrooms.

MUS 407. Analyzing Music. (2).
A survey of small and large musical structures through a study of selected European and American works from 1600 to the present. Primary forms to be explored will include variation, sonata, rondo, minuet, and arch form. Prerequisite: MUS 208.

MUS 410. Choral Conducting. (3).
The study and practical application of methods of choral ensemble training. Emphasis is threefold: mastery of conducting skills, understanding of the dynamics of the ensemble and knowledge of choral literature. Prerequisite: MUS 309.

MUS 411. Instrumental Conducting. (3).
Practical experience with a laboratory group in instrumental music. Prerequisite: MUS 309.

MUS 423. String and Brass Techniques. (2).
Elementary instruction in the technique of playing string and brass instruments. Recommended for public school music teachers.

MUS 424. Woodwind and Percussion Techniques. (2).
Elementary instruction in the technique of playing woodwind and percussion instruments. Recommended for public school music teachers.

MUS 439. Creating Music. (3).
An exploration of the creative aspects of music writing, combining elements of composition, orchestration and counterpoint. The composition element will focus on writing short instrumental and vocal works in traditional and modern forms. The orchestration component will involve a survey of instrumental characteristics and their compositional use within small and large ensembles. Counterpoint will be introduced through the study and writing of polyphonic structures, such as canon and fugue. Prerequisite: MUS 208.

MUS 453. Vocal Pedagogy. (2).
Covers the principles of teaching voice based on the physiological functions of the vocal mechanism. Individual as well as group instruction is considered. Recommended for vocal or choral students who may wish to teach in school or community.

MUS 475. Capstone: Senior Recital/Thesis. (1).

MUS 482. Selected Topics. (1-4).

MUS 482C. ST: Select Topic (core). (1-4).
Select Topic approved for core requirement.

MUS 482L. Special Topics Lab. (4.00).

MUS 490. Independent Study. (1-4).

MUS 492. Internship. (1-4).

MUS 496. Directed Research. (1-3).

Philosophy

The Philosophy Department conceives of philosophy as an enterprise of both the mind and the spirit. The faculty are committed to providing the student with the knowledge and skills necessary to become a philosophically literate person. At the same time, our focus is on the integration of this knowledge with each student's process of moral, spiritual and intellectual growth.

The philosophy faculty at Cal Lutheran are trained in a variety of areas:

- ethics
- political philosophy

- analytic philosophy
- philosophy of mind
- history of philosophy
- Greek philosophy
- epistemology
- metaphysics
- Asian philosophy
- logic and the philosophy of science

Philosophy is an excellent major (or double major) for students who are pre-law or who are considering graduate degrees in philosophy, religion, theology or bioethics. Finally, for those who are primarily seeking an education to advance their personal growth and the means to integrate various disciplines, philosophical education is irreplaceable.

An undergraduate philosophy education also offers many career and educational opportunities to students whose ambitions lie elsewhere. Hospitals, church vocations, government agencies and business corporations seek out people with a philosophical education, as well as knowledge of applied ethics, because of their training in clear and focused thinking and their sensitivity to a wide range of ethical dilemmas.

Bachelor of Arts in Philosophy

32 credits minimum, 20 credits upper division, PHIL 450

PHIL 450 (Philosophy Capstone): 2-4

Four to Five Upper Division Philosophy Courses: 16-18

Three Philosophy Courses (Lower or Upper Division): 12

Total Hours: 32

Minor in Philosophy

16 credits minimum, 12 credits upper division.

Three Upper Division Philosophy Courses	12
One Philosophy Course (Lower or Upper Division)	4
Total Hours	**16**

Courses

Lower Division

PHIL 200. Problems in Philosophy. (4).
Studies the meaning of philosophy as the "examined life," with an introduction to the concepts and major problems of philosophy.

PHIL 220. Logic. (4).
A study of the basic methods of clear thinking and argument, including both deductive and inductive reasoning. Special emphasis is placed on critical analysis of arguments.

PHIL 230. Political Philosophy: Ancient to Modern. (4).
This course surveys some important historical and theoretical issues in Western political philosophy, and considers some applications of the theories discussed to moral, political, and legal controversies. Issues discussed include: justice, social construction, the "ideal" society, social contract theory, rights, liberty, restrictions on government, responses to injustice, etc.

PHIL 235. Introduction to Feminism. (4).
This course provides an introduction to feminist theory with an emphasis on Women of Color feminisms.

PHIL 260. Topics in World Philosophy. (4).
A study of representative philosophical traditions of Greece and China, with a focus on the awareness of global diversity, interdependence and relevance.

PHIL 282. Selected Topics. (4).

PHIL 282C. ST: (core). (1-4).
Select Topic approved fill core requirement.

Upper Division

PHIL 300. Ethics. (4).
The study of what makes for a well-lived life in terms of character, conduct and relationships with others. Special attention is given to the connection between ethics and leadership.

PHIL 310. Metaphysics. (4).
The general inquiry into the nature of the real. Topics include the role of language in thought, the nature of truth, necessity and possibility, being and essence.

PHIL 312. History of Philosophy. (4).
This course is a general introduction to some of the main problems and debates in the history of philosophy. Students will acquire a basic familiarity with the major themes of ancient Greek and Medieval metaphysics, epistemology, psychology, and moral theory. We will also investigate the scientific revolution of the 16th and 17th centuries and the serious conceptual crises it caused in modern thought and the 19th Century thinkers who were responding to these modern figures. Students will acquire experience in the analysis of original texts and the arguments they contain through close reading, class discussions and group activities. The aim of the course is to introduce you to some of the central problems of ancient, medieval, modern, and nineteenth century philosophy; to teach you how to reconstruct arguments and evaluate them, and how to write philosophy papers.

PHIL 315. Social Ethics. (4).
The analysis of contemporary social issues such as abortion, capital punishment, affirmative action, multiculturalism, the environment, euthanasia and world hunger from a moral and philosophical perspective.

PHIL 320. Philosophy of Religion. (4).
Studies the evidence for belief in God and includes an examination of religious experience, the relation of religion and science, and the alternatives to theism.

PHIL 330. Contemporary Political Philosophy. (4).
This course surveys some important theoretical issues in Western political philosophy, and considers some applications of the theories discussed to moral, political, and legal controversies. Issues discussed include: the obligation to obey the law, the justification of secession, the nature of rights, the limits of state power (especially with respect to offensive expression), just distribution of property, and reparations for past injustice.

PHIL 340. Philosophy of Science. (4).
A study of science from a philosophical perspective, covering the basic procedures of scientific research, the key features of scientific progress, and some ethical issues related to scientific research, in particular the uses of animals and humans as research subjects. Recommended for both natural science and social science majors interested in exploring the philosophical implications of the scientific enterprise.

PHIL 345. Bioethics. (4).
A study of moral issues raised by the recent development of biological and medical sciences, including those related to reproductive technologies, human genetics, euthanasia, organ donations, health-care policies, and human/animal experimentation. The course focuses on the complexities that often surround moral choices in biological and medical sciences.

PHIL 350. Technology and Value. (4).
A study of moral issues raised by the recent development of technology, including those related to computers, genetic engineering and the environment. The course examines how current technological achievements profoundly change our social, cultural and moral life and how they create moral dilemmas for our society at the same time.

PHIL 355. Chinese Philosophy and Culture. (4).
A study of the development of Chinese philosophy and culture from the ancient to the contemporary period. The major philosophical traditions in China - Confucianism, Daoism and Buddhism - are covered. Key features of Chinese culture, reflecting the experiences and perspectives of both native Chinese and Chinese Americans, are examined.

PHIL 360. Philosophy of Law. (4).
In this course we will explore several issues central to the philsophy of law, including the following: (i) the nature of law and the connection, if any, between law and morality, (ii) the nature of a judge's role in the legal system, (iii) the nature of legal, and, especially, constitutional interpretation, (iv) the justification of the legal punishment, including the death penalty, and, (v) the requirements for legal responsibility, with a particular emphasis on the justification of some legal defenses and the appropriate role of the consequences of an agent's action in determining her responsibility.

PHIL 370. Business Ethics. (4).
The course will undertake an investigation of ethical issues in contemporary business life, linking ethical concepts and theories to concrete cases of corporate and individual choice in the business world.

PHIL 375. Philosophy of Race. (4).
This course explores contemporary issues in Philosophy of Race, such as the metaphysics of race, the nature of racism, the relationship between race and ethnicity, racial identity, intersectionality, epistemic issues related to race, and personal and collective responsibilities with respect to racism.

PHIL 380. Knowledge and Power. (4).
This course investigates contemporary issues in the study of knowledge. We will analyze both foundational philosophical inquiries into knowledge, beliefs, justification, and truth and the ways that power relations within our social and political landscape shape our access to knowledge or the maintenance of ignorance.

PHIL 385. Oppression and Liberation. (4).
This course critically examines the concepts of oppression and liberation and analyzes the philosophical concepts underlying social and political movements.

PHIL 400. Contemporary Philosophy. (4).
Each year different philosophies and problems are studied, including analytic philosophy, post-modernism, pragmatism and philosophy of mind and brain.

PHIL 414. Philosophy of Art. (4).
The study of the aesthetic experience and the work of art. Includes the various theories and their expression, function and criticism. (cross-listed with ART 414).

PHIL 445. Philosophy of Education. (3).
The analysis of educational principles and policies from the perspective of major philosophical schools and their associated ideologies. The course aims to clarify the connections between theory and practice as they relate to teaching and learning. Not available to freshmen.

PHIL 450. Philosophy Capstone. (2-4).
All philosophy majors are required to complete a capstone course, meeting regularly with a faculty member and writing a capstone thesis covering important readings in Philosophy. The course is taken in the Fall semester of your Senior year. The course may be taken for 2-4 credits. The topic of the course will be chosen after discussion with your faculty mentor.

PHIL 482. Selected Topics. (2-4).

PHIL 482C. ST: (core). (1-4).
Select Topic approved fill core requirement.

PHIL 490. Independent Study. (1-4).

PHIL 496. Directed Research. (1-3).

PHIL 497. Departmental Honors. (4).

Physics

The physics curriculum at California Lutheran University addresses the question of how and why things work, from the forces which govern subatomic particles to the large-scale phenomena which shape our universe as a whole. The fundamental nature of physics accounts for its relevance not only in engineering and technology but also in the life and earth sciences. The various introductory courses offered by the Physics Department are thus tailored to meet the different needs of physics majors, students in other sciences and liberal arts students, in particular future teachers. The physics faculty members use a blend of interactive lectures, illustrative demonstrations and hands-on laboratory exercises to enhance students' comprehension of the material.

Cal Lutheran offers both the bachelor of science and bachelor of arts in physics, as well as a physics minor. The B.S. program is well suited for students interested in graduate studies in physics or engineering or in careers in industry. The B.A. is a more liberal physics degree, where students can explore the relationship of physics with another field of interest. The minor strengthens the training of students majoring in other fields by providing high-level technological knowledge and enhanced problem-solving skills.

Beginning physics students gain a strong background in classical physics, modern physics and applied mathematics. Upper division courses focus on both theoretical topics and experimental techniques. These small upper division classes, together with close supervision by the faculty, provide a uniquely personalized learning experience for the students. Students develop employer-valued work-ready skills in areas such as electronics, optics and Matlab programming.

Physics students are encouraged to become actively involved in undergraduate research. In collaboration with Physics Department faculty, Cal Lutheran students develop next generation detectors and perform data analysis for experiments conducted at the CERN laboratory, use data obtained from telescopes throughout the world to improve models of massive stars and develop and assess models of superconducting compounds using the department's high-performance computing resources. Physics majors also participate in summer undergraduate research programs at other universities and national laboratories as well as internships with local industries.

Cal Lutheran Physics graduates have a strong record in obtaining employment after graduation and, for those who opt to continue studies in graduate school, are accepted into strong physics and engineering programs at universities throughout the nation.

Bachelor of Science in Physics

36 credits minimum, 27 credits upper division.

PHYS 211/211L	Mechanics and Thermodynamics-Calculus and Mechanics and Thermodynamics-Lab (recommended)	5
or PHYS 201/201L	Mechanics and Thermodynamics-Algebra	
PHYS 212/212L	Electricity, Magnetism, and Optics - and Electricity, Magnetism Optics Lab	5
PHYS 303/303L	Radiation and Nuclear Physics and Modern Physics Lab	4

At least four physics courses numbered 410 and above		16
At least one upper division physics course with a lab component beyond 303		4
PHYS 400	Senior Research Seminar	4
Total Hours		**38**

Only physics courses numbered 200 and above can count toward the physics credit requirements.

Required Supporting Courses

MATH 251	Calculus I	4
MATH 252	Calculus II	4
MATH 261	Calculus III	4
MATH 265	Differential Equations	4
Total Hours		**16**

Recommended

CHEM 151/151L	General Chemistry and General Chemistry Lab	5
CHEM 152/152L	General Chemistry II and General Chemistry II Lab	5
CSC 210	Introduction to Computer Programming	4
MATH 343	Linear Algebra	4
MATH 420	Real Analysis	4
MATH 450	Complex Variables	4
Total Hours		**26**

Bachelor of Arts in Physics

40 credits minimum (28 credits physics, 12 credits concentration), 20 credits upper division physics.

PHYS 211/211L	Mechanics and Thermodynamics-Calculus and Mechanics and Thermodynamics-Lab (recommended)	5
or PHYS 201/201L	Mechanics and Thermodynamics-Algebra	
PHYS 212/212L	Electricity, Magnetism, and Optics - and Electricity, Magnetism Optics Lab (recommended)	5
or PHYS 202/202L	Electricity, Magnetism, Optics -Algebra	
PHYS 303/303L	Radiation and Nuclear Physics and Modern Physics Lab	4
At least two physics courses numbered 410 and above		8
At least one upper division physics course with a lab component beyond 303		4
PHYS 400	Senior Research Seminar	4
12 Credit Concentration (at least 8 credits of upper division) *		12
Total Hours		**42**

*The concentration is a minimum of 12 credits in a single field outside of math or physics. It is expected that the presentation for the capstone will incorporate both physics and the field of concentration. Only physics courses numbered 200 and above can count toward the physics credit requirements.

Required Supporting Courses

MATH 251	Calculus I	4
MATH 252	Calculus II	4
MATH 261	Calculus III	4
MATH 265	Differential Equations	4
Total Hours		**16**

Recommended

CSC 210	Introduction to Computer Programming	4
MATH 343	Linear Algebra	4
MATH 420	Real Analysis	4

MATH 450	Complex Variables	4
Total Hours		**16**

Minor in Physics

18 credits minimum, 10 credits upper division

PHYS 211/211L	Mechanics and Thermodynamics-Calculus and Mechanics and Thermodynamics-Lab (recommended)	5
or PHYS 201/201L	Mechanics and Thermodynamics-Algebra	
PHYS 212/212L	Electricity, Magnetism, and Optics - and Electricity, Magnetism Optics Lab (recommended)	5
or PHYS 202/202L	Electricity, Magnetism, Optics -Algebra	
10 Upper Division Physics Credits		10
Total Hours		**20**

Teaching Credential

Candidates for a California Secondary Teaching Credential should contact the School of Education Office for a complete list of course requirements for a Single Subject Waiver in Science.

Courses

Lower Division

PHYS 100. Introduction to Astronomy. (3).
An introduction to the solar and stellar objects in our visible universe.

PHYS 100L. Introduction to Astronomy Lab. (1).
Includes identification of constellations and planets, use of telescopes, analysis of astronomical data and field trips. Laboratory, 2 hours/week. Prerequisite or corequisite: PHYS 100.

PHYS 110. Physical Science for Liberal Art Majors. (4).
An introduction to physical science that includes fundamental forces in nature, conservation laws, energy transport, waves and the language of science. Emphasizes an explanation of everyday experiences and phenomena by asking questions about fundamental scientific concepts.

PHYS 110L. Physical Science Liberal Arts Majors Lab. (0).

PHYS 120. Musical Acoustics. (4).
Explores musical sound from a physics perspective. Basic physical principles underlying the production, transmission and perception of musical sound. Vibrations, waves, elementary acoustics with applications to a wide range of musical topics. Spectral analysis of waveforms. Studio format class equivalent to 3 hours lecture + 2 hours lab per week.

PHYS 201. Mechanics and Thermodynamics-Algebra. (4).
This algebra-based introductory course covers the mathematical description of motion, Newton's Laws, linear and circular motion, oscillatory motion and waves. Topics from thermodynamics include heat transfer, ideal gas laws, cyclic processes and entropy. Lecture, 3 hours/week; Laboratory, 2 hours/week. Prerequisite: MATH 151 or equivalent. (fall).

PHYS 201L. Mechanics and Thermodynamics- Lab. (0).

PHYS 202. Electricity, Magnetism, Optics -Algebra. (4).
This algebra-based introductory course covers electrostatics, DC and AC electric currents, magnetism, Maxwell's equations, and geometric and physical optics. Lecture, 3 hours/week; Laboratory, 2 hours/week. Prerequisite: PHYS 201, PHYS 211 or permission of the instructor. (spring).

PHYS 202L. Electricity, Magnetism, & Optics - Lab. (0).

PHYS 209. Energy and Society. (4).
This introductory course is a discussion and empirical examination of the science of energy, its production, distribution, and consumption. Energy efficiency of automobiles and buildings. Energy production using fossil fuels, alternative energy, and renewable sources. Issues of economics, distribution and development. Students enrolled in the class MUST concurrently enroll in the corresponding laboratory course, PHYS 209L. Prerequisite: MATH 110 or equivalent.

PHYS 209L. Energy and Society Lab. (0).

PHYS 211. Mechanics and Thermodynamics-Calculus. (5).
This calculus-based introductory course covers the mathematical description of motion, Newton's Laws, linear and circular motion, oscillatory motion and waves. Topics from thermodynamics include heat transfer, ideal gas laws, cyclic processes and entropy. Lecture, 4 hours/week; Laboratory, 2 hours/week. Prerequisite or corequisite: MATH 251. (fall).

PHYS 211L. Mechanics and Thermodynamics-Lab. (0).

PHYS 211S. Supplmental Inst: PHYS 211. (0).
This is the Supplemental Instruction Blackboard Platform attached to PHYS 211. As a student enrolled in this section, you are automatically enrolled in the attached Supplemental Instruction Blackboard Platform. Supplemental Instruction (SI) is an academic support program designed to improve student success in challenging foundation courses. SI is a well-researched program that has been shown to improve students' letter grades by a half to a full grade, with consistent participation. With the SI model, a SI Leader (a student who has successfully completed the course with a B+ or better in the past, and who has an overall GPA of 3.0 or higher) is embedded into the course, attending all course meetings. The SI Leader then facilitates the scheduling and running of group SI study sessions throughout the week. There will typically be three one hour SI Sessions or two 90 minute SI Sessions per week. The SI Blackboard Platform is hosted by your SI Leader, who will utilize it to take confidential attendance at SI Sessions, to make general announcements to the class members, and to share helpful resources and study materials for SI Sessions. Participation in the SI study sessions is completely optional and always free, and you may come to as many or as few sessions as you would like over the semester. Your course professor does not receive any information about attendance, so you can be certain that your participation will be kept confidential.

PHYS 212. Electricity, Magnetism, and Optics -. (5).
This calculus-based introductory course covers electrostatics, DC and AC electric currents, magnetism, Maxwell's equations and geometric and physical optics. Lecture, 4 hours/week; Laboratory, 2 hours/week. Prerequisites: PHYS 211 (recommended) or PHYS 201; prerequisite or corequisite: MATH 252. (spring).

PHYS 212L. Electricity, Magnetism & Optics Lab. (0).

PHYS 282. Selected Topics. (1-4).

PHYS 282C. ST:. (1-4).
Select Topic approved to fill core requirement.

PHYS 282L. Selected Topics Lab. (0).

Upper Division

PHYS 303. Radiation and Nuclear Physics. (4).
The study of foundations of quantum mechanics, atomic spectra, radioactive emissions, radiation health issues, nuclear reactions and elementary particle physics. Lecture, 3 hours/week; Laboratory, 3 hours/week. Prerequisites: MATH 252; PHYS 202 or PHYS 212.

PHYS 303L. Modern Physics Lab. (0).

PHYS 309. Applied Electronics. (4).
Includes the study of DC and AC circuit analysis, network theorems, digital logic and logic network design, analog circuit design and digital computer interface. Lecture, 3 hours/week; Laboratory, 3 hours/week. Prerequisites: MATH 151; PHYS 202 or PHYS 212 or high school physics. (spring, odd years).

PHYS 309L. Applied Electronics Lab. (0).

PHYS 340. Advanced Experimental Physics. (4).
This course focuses on performing experimentally-based investigations in physics. Students develop skills programming data acquisition interfaces, using advanced equipment and performing data analysis. Important research skills covered include literature searches, experiment design and theory, laboratory techniques, and communication of research through oral presentations and written material. Topics investigated are drawn from multiple areas such as quantum physics, electricity and magnetism, optics and astronomy. Lecture 3 hours/week; laboratory 3 hours/week. PrerequisitesPhys 212 and MATH 252.

PHYS 370. Digital Electronics. (3).
Includes logic, number systems, buses, memory and register design and in-depth architecture. Lecture, 2 hours/week; Laboratory, 3 hours/week. Prerequisite: MATH 151.

PHYS 400. Senior Research Seminar. (4).
Independent study and research, interdisciplinary topic of current interest selected by the participants. Ongoing independent research results are presented for group discussions. Submittal of a research paper is required. Prerequisite: senior standing.

PHYS 410. Classical Mechanics. (4).
Includes the study of single-particle dynamics, reference systems, oscillations, Lagrangian and Hamiltonian mechanics. Prerequisites: MATH 261, MATH 265; PHYS 212.

PHYS 415. Statistical Physics and Thermodynamics. (4).
Development of the microscopic basis for fundamental thermodynamic principles and thermal properties cells, heat engines and classical and quantum distribution functions. Pre-requisites: MATH 261, MATH 265; PHYS 212.

PHYS 420. Electrodynamics. (4).
Solution techniques of Maxwell's equations are developed for static and time dependent electric and magnetic fields. Specific topics include: The electrical potential and Laplace's equation, boundary value problems, multipole expansions, electric and magnetic fields in matter, electrodynamics, and the propagation of electromagnetic fields through media. Also includes introduction to special relativity and relativistic electrodynamics. Prerequisites: MATH 261,MATH 265 and PHYS 212. Recommended: PHYS 440.

PHYS 425. Geometric and Physical Optics. (3).
The study of electro-magnetic waves, reflection and refraction, interference, diffraction, Fourier optics, fiber optics and nonlinear effects. Prerequisites: MATH 261, MATH 265; PHYS 212.

PHYS 430. Quantum Physics. (4).
An introduction to quantum theory, beginning with the Schrödinger equation and the statistical interpretation of the wave function. One-dimensional applications, include the harmonic oscillator, square-well potentials and tunneling. Three dimensional applications include, the theory of angular momentum, spin, the hydrogen atom, identical particles, time-independent perturbation theory and the Pauli exclusion principle. Other approximate solution techniques with applications to atoms, molecules, and solids are presented. Prerequisites: MATH 261, MATH 265 PHYS 212. Recommended: PHYS 440.

PHYS 440. Mathematical Methods of Physics. (4).
Mathematics with a focus to meet the needs of students with a major or minor in physics or engineering disciplines. Topics include: complex variables, linear algebra, coordinate transformations, vector analysis, Fourier series and transforms; Laplace transforms, the Dirac delta function, Green functions, calculus of variations and solution techniques for partial differential equations with specific applications to Laplace's equation. Prerequisites: MATH 261 and PHYS 212. Recommended: MATH 265.

PHYS 482. Selected Topics. (1-4).

PHYS 482L. Sel Topics: Lab. (1-4).

PHYS 490. Independent Study. (1-4).

PHYS 492. Internship. (2-4).

PHYS 496. Directed Research. (1-3).

PHYS 497. Departmental Honors. (4).
This course allows academically motivated students the opportunity to explore a research topic of their choosing at a level of depth beyond the one-semester Capstone course. Students will complete two semesters of Physics 497 to satisfy the requirements of the Physics department Honors program. Upon completion of the two semesters, the student will present in a public forum, such as the CLU Festival of Scholars, or equivalent.

Political Science

The mission of the Political Science Department at California Lutheran University is to provide a personalized education of distinction that fosters students' intellectual and critical powers, and develop their capacities to apply the study of politics to the conditions of political life. The six program goals are:

1. reflect on the relationship between ethics and politics;

2. develop individual powers of inquiry and critical thought;

3. achieve a breadth of knowledge about the world and its diversity;

4. relate theories of politics to the practice of everyday life;

5. understand at least one primary research method appropriate to the study of politics;

6. examine the relationship of a selected area of investigation to the broader study of politics.

In service to this mission, the curriculum and program activities promote an understanding and appreciation of civic engagement/global citizenship, diversity, and experiential learning. The Department is committed to the belief that it is important to link scholarship, teaching and applied knowledge to the academic study of politics. To fulfill this spirit, there is a required experiential learning component in the program, such as off-campus studies, internships, or other experiential activities. Students are offered opportunities to study abroad, engage in community development and service projects, and intern or volunteer at law firms, non-profit organizations, or governmental agencies in Washington, DC, and throughout Los Angeles and Ventura Counties.

Bachelor of Arts in Political Science

36 credits minimum, 20 credits upper division.

Select two of the following:		4
POLS 102	Theory & Practice American Government	4
POLS 207	Contemporary Issues in Public Policy	4
POLS 200	Introduction to Global Studies	4
POLS 222	Introduction to Political Science	4
Select one of the following:		
POLS 321	Ancient Political Thought	4

POLS 322	Modern Political Thought	4
POLS 324	American Political Thought	4
Required		
POLS 320	Scope and Methods of Political Science	4
POLS 476	Capstone - Global Leaders and Leadership	4
Experiential Learning Requirement		
Students are required to engage in experiential learning. With pre-approval of the department chair, study abroad, LCWS, service learning, applied practicum and/or internships may also satisfy this requirement.		
POLS 415	Model United Nations	
POLS 485	Experiential Practicum,	
Political Science Electives (at least 8 credits upper division)		15

In addition to the program requirements, students fulfill the 36 credits minimum for the major by selecting one of three emphases: 1) General, 2) International Relations, or 3) Law and Public Policy.

Minor in Political Science

20 credits minimum, 12 credits upper division.

Select two of the following:		8
POLS 102	Theory & Practice American Government (POLS 102 is Theory and Practice of American Government)	
POLS 222	Introduction to Political Science	
POLS 207	Contemporary Issues in Public Policy	
POLS 200	Introduction to Global Studies	
Select any three additional upper-division Political Science Courses		12
Total Hours		**20**

1. General Emphasis

36 credits minimum, 20 credits upper division. Any Political Science course listed in the catalog can be applied to the general emphasis. Note: Additional courses may be substituted with the approval of the Department Chair.

2. International Relations Emphasis

36 credits minimum, 20 credits upper division. Note: Additional courses may be substituted with the approval of the Department Chair.

Select two of the following:		8
POLS 341	European Government and Politics	
POLS 360	International Relations	
POLS 365	American Foreign Policy	
POLS 367	Comparative Politics	
POLS 461	International Law and Organization	
POLS 482	Selected Topics	
Select two of the following:		8
POLS 382	History and Politics of Latin America	
POLS 384	History/Politics Modern Middle East	
POLS 388	History and Politics of East Asia	
POLS 443	Government and Politics of Africa	

3. Law and Public Policy Emphasis

36 credits minimum, 20 credits upper division. Note: Additional courses may be substituted with the approval of the Department Chair.

Required:		
POLS 207	Contemporary Issues in Public Policy	4
Select two of the following:		
POLS 210	Multiculturalism, Race & Politics in U.S	4

POLS 303	Parties, Interest Groups & Pub Opinion	4
POLS 307	California Politics	4
POLS 317	Politics of Community Development	4
POLS 365	American Foreign Policy	4
POLS 403	Public Administration and Public Policy	4
POLS 412	Civil Rights Movement	4
POLS 416	Social Movemt & Politics Global Change	4
POLS 418	Women and Politics	4
POLS 419	Internet and Politics	4
POLS 427	American Political Institutions	4
Select one of the following:		
POLS 105	Introduction to Law and Legal Process	4
POLS 401	American Constitutional Law	4
POLS 404	Constitutional Law in Criminal Justice	4
POLS 405	Freedom of Communication	4
POLS 414	Environmental Law and Policy	4
POLS 461	International Law and Organization	4
POLS 481	Law and Society	4

Courses

Lower Division

POLS 102. Theory & Practice American Government. (4).
Theory and Practice of American and institutions of the American governmental system. Topics include fundamental principles of democracy; the United States Constitution; the executive, legislative and judicial branches of the national government; political parties and interest groups; and state and local political institutions.

POLS 105. Introduction to Law and Legal Process. (4).
Seeks a broad and critical understanding of the historical and philosophical foundations of law. Topics include sources of legal tradition, the impact of law on society, judicial decision-making, and legal restraints and impediments. The course will familiarize the student with electronic legal sources. (cross-listed with CRIM 105).

POLS 200. Introduction to Global Studies. (4).
This course analyzes how social forces and processes have and are transforming the lives of individuals. Issues such as war, peace and justice are examined from a political perspective that reflects them as global rather than national concerns. (cross-listed with GLST 101).

POLS 205. American National Government. (4).
This intensive study of the structures and functions of the national government gives special attention to the legislative and executive branches in the policy-making and administrative processes.

POLS 206. Globalizing Los Angeles. (4).
Using lecture, class discussion, student presentations, film, performance, and lived experience, we will engage issues related to the conceptualization of locality and space, of culture and character, and of security and violence in what Janet Abu-Lughod has described as America's third global city, Los Angeles.

POLS 207. Contemporary Issues in Public Policy. (4).
This course provides students with an introduction to the public policy process in the United States. The course will focus on how problems get identified, which issues make it to the public agenda, the factors that structure individual policy choices and the implementation/evaluation of polices. This process will be illustrated by examining contemporary social, economic and foreign policy issues in the United States.

POLS 210. Multiculturalism, Race & Politics in U.S. (4).
This course explores the multicultural, racial, and political landscape in the United States. The emphasis is on multiculturalism and race as forms of cultural identification and political gains and losses. Politics in this course is broadly defined as who gets what, when, and how; and politics is not confined to the political arena. Political gains, for example, can be located in the business and cultural arenas. In this sense, this course focuses on the political activity of groups on the national and local levels. The political, social, and cultural characteristics of various ethnic groups, including their organization and differentiation will emerge in this course.

POLS 212. Media and Politics. (4).
An introduction into the role of media in the political process. The course will study propaganda and manipulation by newspapers, television, radio, magazines and especially films.

POLS 222. Introduction to Political Science. (4).
Explains the meaning of political life in the modern world and some of the ideas behind its democratic and non-democratic forms. Involves a systematic and comparative study of political structures, institutions, behaviors and processes.

POLS 282. Selected Topics. (1-4).

POLS 282C. St: (core). (1-4).
Select Topic approved for core requirement.

Upper Division

POLS 303. Parties, Interest Groups & Pub Opinion. (4).
Introduces the dynamics and significance of political parties, the role of interest groups, problems of campaigns and elections, and the impact of public opinion on the democratic process.

POLS 307. California Politics. (4).
This course examines the political dynamics of the Golden State from a variety of viewpoints (historical, economic, geographic, and social). We will examine how resources are distributed through policy outcomes and the effect of political institutions and civil society on these outcomes.

POLS 308. Politics in Cinema. (4).
Explores the political nature of cinema and the ways in which political culture, issues and themes are expressed in and through cinema. Particular emphasis is placed on American political culture and practices. (cross-listed with COMM 308).

POLS 316. Political Communication. (4).
This course investigates the interaction between news media, audiences and strategic political communicators in the United States. Special emphasis is give to the role of the news media in politics, the use of campaign practices and techniques in elections, the effects of media messages on audiences, the impact of new medical technologies on news and campaigns, and facets shaping news production such as journalistic routines, medial economics, and the strategic management of news by politicians.

POLS 317. Politics of Community Development. (4).
This course provides an overview of the political and social challenges that confront residents, organizers and leaders in making their communities better places to live. The course explores the factors associated with community stability and prosperity, strategies for doing community development work and economic/governance structures that support community empowerment efforts. The course will give students the opportunity to engage in local Ventura County community building efforts.

POLS 320. Scope and Methods of Political Science. (4).
An introductory study of the history, nature and current development of political science, with special emphasis on the methods dealing with problems of political science and the techniques of research in politics.

POLS 321. Ancient Political Thought. (4).
Presents the scope and nature of political ideas, philosophy and discussion in the Western ancient political tradition and focuses on the major philosophers from Plato to St. Thomas Aquinas and the major streams of ideas and philosophy flowing from them.

POLS 322. Modern Political Thought. (4).
A systematic analysis of the political ideas of great Western and non-Western writers. Particular contributions to political theory are examined, with special emphasis on the concept of human nature and the state, the role of "law" in politics, the problem of political change and the relationship between authority and freedom. (spring).

POLS 323. Jurisprudence. (4).
This course examines several salient issues in the philosophy of law including an analysis of (i)the nature of law; (ii)the relations of law to mortality; (iii) how judges decide cases; and (iv) how the law is or should be intrerpreted; and (v) how to brief and argue cases. Most importantly, this course examines the major theoretical approaches to the law including Natural Law, Positive Law, Law as Principle, American Legal Realism, Critical Legal Studies, and Law and Economics.

POLS 324. American Political Thought. (4).
A survey of the development of American ideas concerning political authority from the colonial period to the present. Special emphasis is placed on the transformation of liberalism in the 20th century under the impact of industrialization and the shift from the concept of the "free" individual to the organization person.

POLS 341. European Government and Politics. (4).
A study of the current governments and politics of Great Britain, France, the German Federal Republic and the former Soviet Union. The historical origins of these governments are briefly studied and their institutions analyzed as manifestations of their social and political culture and traditions, and the impact of external forces.

POLS 360. International Relations. (4).
An introduction to the problems of relations among the nations of the world, including the basic factors that influence international relations and the channels of settlement of international problems.

POLS 365. American Foreign Policy. (4).
A survey of the factors and forces entering into the formation and implementation of American foreign policy, with special emphasis on contemporary problems. Includes studying the relationship between the means and sources of American power and the goals and objectives of American policy.

POLS 367. Comparative Politics. (4).
This course focuses on understanding how and why nation-states have adopted and implemented various forms of political and economic systems. Using country-case study analyses, the course examines how political ideologies, political culture and history, institutions and geography shape political and economic development in different regions of the world.

POLS 382. History and Politics of Latin America. (4).
Surveys the politics and history of Latin America from the early encounters of Native Americans with Europeans to the present. The evolution of Latin American institutions (political, cultural and economic) will be traced from 1492 until the present.

POLS 384. History/Politics Modern Middle East. (4).
An examination of the historical background and contemporary politics of this vital area in world affairs. The politics and economics of oil, the Arab-Israeli conflict, the revival of Islam and the problems of modernization and development are studied in detail.

POLS 386. History and Politics of South Asia. (4).
An examination of the history, culture and politics of South Asia through the Hindu, Muslim and British periods to the present. The impact of these legacies on the problems of state-building, economic development, social change and foreign policy in contemporary India, Pakistan, Bangladesh, Sri Lanka and Nepal is approached from a comparative and regional perspective.

POLS 388. History and Politics of East Asia. (4).
An introduction to the political thought and institutions of East Asia. Primary attention is paid to China, which traditionally had a strong influence on the pattern of political development in the region and today seeks to renew its influence.

POLS 392. Internship Via Luther College Program. (1-8).

POLS 401. American Constitutional Law. (4).
An introduction to public law and an analysis of some of the major contemporary issues of American constitutionalism, including the place of the Supreme Court, nation-state relationships, legal controls on government action, and civil rights and liberties.

POLS 402. Post-Modernism: Politics & Philosophy. (4).
Postmodernism explores the relationship between art, science, and politics in contemporary philosophy. The course begins with a consideration of the legacies of Freud, Nietzsche, and Marx and continues with an analysis of such authors as Breton, Heidegger, Benjamin, Cortázar, Borges, Derrida, Foucault, Heisenberg, and Rorty. Uses film (including students' own short surrealist films) literature, and philosophical texts.

POLS 403. Public Administration and Public Policy. (4).
An introduction to modern theories of administration; the relation of administration to the political process; and the analysis of administrative organization and processes including planning, personnel, finance and law.

POLS 404. Constitutional Law in Criminal Justice. (4).
Emphasizes Supreme Court decisions and constitutional issues relevant to the Fourth, Fifth, Sixth, Eighth and Fourteenth amendments. Students are expected to research and present cases from the text and other legal sources. Prerequisite: junior standing or permission of instructor. (cross-listed with CRIM 404).

POLS 405. Freedom of Communication. (4).
A study of the limits placed on freedom of expression in the United States. Through examining leading U.S. court decisions and relevant statutes, students will learn the broad principles and legal reasoning underlying First Amendment jurisprudence, including the legal, philosophical and political issues entailed in the rights of free expression. Students will then examine how these principles have been applied to the regulation of the various communication industries including the print media, broadcasting and cable television. (cross-listed with COMM 405).

POLS 411. Ethnic Conflict and Civil War. (4).
This course examines discord within multiethnic societies by analyzing how nationalist, racial, ethnic and/or religious identities are used to foster societal conflict such as civil war and genocide. This course is divided into four parts.

POLS 412. Civil Rights Movement. (4).
Examines the African struggle for equal rights in the United States. The civil rights movement of the 1950s and 1960s will be the primary vehicle directing the flow of the course. Included will be civil rights struggles by other groups such as women, Asians and Latinos to illustrate similarities and influences with the African American struggle. Tactics and strategies will be examined for their effectiveness and ineffectiveness in the realization of goals and objectives. A final aspect of the course will be to observe and analyze the impact of the civil rights movement on the 1990s.

POLS 413. Music and the Civil Rights Movement. (4).
The purpose of this course is to examine the southern civil rights movement (CRM) from 1954 to 1968. This course integrates discussion and analysis of the CRM with music. Music was very important to the Movement because it inspired both participants and supporters to continue the struggle until several victories were won. Emphasis in this course is on matching the music with a political event, ideology, and/or individual. This course includes discussion on the personal involvement in political and social activities by the singers and performers themselves. Tactics and strategies of the CRM are examined and their relationships to music are explored by relying on music with explicitly political lyrics and messages as well as those with lyrics and composition that convey spiritual and festive elements.

POLS 414. Environmental Law and Policy. (4).
A study of the regulatory environment in California and the U.S. as it applies to environmental issues, problems and the environmental industry. Includes a critical analysis of environmental challenges and the possible legal and political responses to them.

POLS 415. Model United Nations. (1).
This course is an in depth study and preparation for California Lutheran University's delegation to Model United Nations (MUN) meetings. The issues dealt with at MUN meetings are examined in this class. The course begins with an overview and then proceeds into an analysis of the role of the United Nations in world politics and international relations. Particular emphasis is placed on the demographics, politics, and foreign policies of the countries represented by CLU at the MUN meetings. Students are, for example, expected to explore the internal and external factors that lead to a particular country's foreign policies.

POLS 416. Social Movemt & Politics Global Change. (4).
Global processes shape both domestic and transnational political mobilization. Early 21st century global change has, for example, in some cases resulted in increased forms of social, economic, and political inequalities. In response some effected groups have managed to achieve some political gains and favorable economic policies through political mobilization and social movements. This course examines social movements and the processes surrounding mobilization of peoples into social movements for change. This course explores how the globalization of economic, social, and political life has affected social movements.

POLS 418. Women and Politics. (4).
This course is designed to explore the various ways that women shape and are shaped by political life at the local, national and global levels. The course examines specific policies as they relate to women as both policymakers and subjects of policy.

POLS 419. Internet and Politics. (4).
The Internet has changed the nature of human interaction and collaboration in unprecedented ways. Of particular interest to political scientists is how these changes have affected the political process. This course will examine the ways in which the Internet has changed politics. We will look at the Internet's effect in the gathering of public information, the formulation of public opinion, the structure of campaigns, political mobilization, policy advocacy and the generation of citizen input into the political process.

POLS 422. Caribbean Politics and Culture. (4).
This course looks at the development, culture, and politics of the Caribbean region. In doing so, this course examines key characteristics, such as culture, cultural identity, politics, and the complex relationship between these entities.

POLS 427. American Political Institutions. (4).
This course uses an American Political Development approach to examine the evolution of US political institutions (Congress, the executive, the courts and political parties.) The course will examine the design of the American system in comparative perspective and guide students through an exploration of how the current system came to be and how its evolution shaped and was shaped by political events.

POLS 432. Political Violence and Revolutions. (4).
In this course we analyze the use of non-traditional warfare throughout history, including terrorism and guerilla insurgency, to promote political and social change. Topics include just war theory, theories of revolution, and the social and political consequences of political violence.

POLS 440. Terrorism. (4).
The course focuses on the violence of terrorism and the strategic uses and justification of violence in political and religious life. The course explores the ideology and methods of terrorism by and against governments. An examination of legal and extralegal policies designed to counter terrorism are explored. Prerequisites: junior standing or permission of instructor.(cross-listed with CRIM 440).

POLS 443. Government and Politics of Africa. (4).
After a brief description of the major politically relevant characteristics of Africa and key events in its colonial history, the course details the institutional structures and political processes of the newly independent African states. An evaluation of the problems of institutional transformation and political stabilization is included. (on demand).

POLS 445. Legal Reasoning. (4).
This course is designed for junior and senior students interested in law school, graduate school in public policy, or any profession touched by the law. (cross-listed with CRIM 445).

POLS 461. International Law and Organization. (4).
An examination of the basic principles of international law and organization, focusing on political foundations of the law of war and peace and contemporary problems of the United Nations.

POLS 465. Global Political Economy. (4).
This course introduces some of the fundamental relationships between politics and economics, on both the domestic and international levels. Its purpose is to examine how these two aspects of human behavior are mutually dependent.

POLS 476. Capstone - Global Leaders and Leadership. (4).
This course will examine and analyze global political leaders and groups. Political leadership requires skills that it shares with leadership in any area of life and those that are particular to politics. The goal of the course is to provide an understanding of the role of political leaders and groups in various political systems and situations. The relationships between leadership and democracy will be a primary theme throughout the course, but world leaders from various political systems will be studied. We will also discuss problems and questions that leaders across political systems have to deal with. In addition, the course will emphasize discussion of conflicting theories of effective leadership.

POLS 477. Cityscapes. (4).
Through art, politics, and philosophy, this course offers an in-depth study of the cultural landscape of selected global cities. Along with texts, films, and music from such centers as Prague and Mexico city, students develop their own "cityscape" from a region of their choice (often based on their off-campus experience) as their final projects. Open to all students, this course fulfills the requirement for a honors seminar and is the capstone for the Global Studies major. Cross-listed with Glst 477.

POLS 478. The Pacific Rim. (4).
Analyzes the Pacific Ocean as the new center for world trade and considers the various possibilities for an emerging trade bloc formalizing that trade. (cross-listed with Bus 478).

POLS 481. Law and Society. (4).
An examination of the interactions between the various components of a society's legal system (police, courts, prisons, etc.) and the individuals and groups residing therein, focusing on problems and proposed solutions.

POLS 482. Selected Topics. (1-4).

POLS 482C. ST: (core). (1-4).
Select Topic required core requirement.

POLS 483. Field Work in Political Science. (2-4).
Supervised internships in agencies of national, state or local governments and political parties, providing work experience and opportunity for practical observation. Periodic conferences with the instructor and supervising official are required. (on demand).

POLS 485. Experiential Practicum. (1).
The goal of the course is to provide the student with a vehicle to analyze their experience. To register for the 1-credit course, students must have studied abroad or completed a domestic internship related to the field of Political Science. Prerequisite: POLS 320; and POLS 102, POLS 200, POLS 207, POLS 210, or POLS 222.

POLS 490. Independent Study. (1-4).

POLS 492. Internship. (1-4).
(graded P/NC only).

POLS 496. Directed Research. (1-3).

POLS 497. Departmental Honors. (4).

POLS 498. Goodness, Truth, and Beauty. (4).
This course examines the relationship between contemporary philosophy and contemporary biology in relation to the major triad of categories dealing with aesthetics, ethics, and the search for truth.

Psychology

Human psychology is the result of biological, developmental, emotional, cognitive, and social processes. Psychologists study these processes through the application of the scientific method and apply their findings to better understand human behavior.

While lecture and reading assignments are part of every course, faculty in the department encourage students to be active participants in learning through laboratory and case study projects. The four junior/senior capstone courses are practicums emphasizing the integration and application of theory and concepts, ethics, oral and written communication, and research methodology.

Cal Lutheran’s Psychology Department has a chapter of Psi Chi, an international honor society for psychology majors, and each year several of our students receive support to present their research projects at regional and national conferences.

The bachelor’s degree in psychology is excellent preparation for graduate work in psychology, law and business. With a bachelor’s degree, employment opportunities can be found in psychiatric rehabilitation programs, as research assistants and in the business world. Those with master’s degrees may work in clinics and institutions, teach at a two-year college or work as school psychologists and counselors. For some clinical and research work, a doctorate is required.

Bachelor of Arts in Psychology

36 credits minimum; 24 credits upper division.

Required Courses		
PSYC 200	General Psychology	4
PSYC 222	Abnormal Psychology	4
PSYC 312	Research Design and Statistics I	4
PSYC 313	Research Design and Statistics II	4
PSYC 331	Physiological Psychology	4
Take one of the following:		4

PSYC 304	Child and Adolescent Development	
PSYC 305	Adult Development and Aging	
PSYC 325	Theories of Personality	
PSYC 401	Social Psychology	
PSYC 417	Cultural Psychology	
Select one of the following:		4
PSYC 315	Principles of Learning and Memory	
PSYC 340	History and Systems of Psychology	
PSYC 416	Human Behavior:principles & Application	
PSYC 421	Human Cognition	
PSYC 450	Sensation and Perception	
Select one of the following:		4
PSYC 430	Applied Psychology Practicum	
PSYC 435	Counseling and Psychotherapy	
PSYC 494	Clinical Practicum	
Take one Psychology elective course (lower or upper division)		4

Bachelor of Science in Psychology

44 Credits--32 Upper Division

Required		
PSYC 200	General Psychology	4
PSYC 222	Abnormal Psychology	4
PSYC 312	Research Design and Statistics I	4
PSYC 313	Research Design and Statistics II	4
PSYC 331	Physiological Psychology	4
PSYC 412	Advanced Research Design and Statistics	4
PSYC 494	Clinical Practicum	4
or PSYC 495	Research Practicum	
Take one course from the following:		
PSYC 304	Child and Adolescent Development	4
PSYC 305	Adult Development and Aging	4
PSYC 325	Theories of Personality	4
PSYC 401	Social Psychology	4
PSYC 417	Cultural Psychology	4
Take one course from the following:		
PSYC 315	Principles of Learning and Memory	4
PSYC 340	History and Systems of Psychology	4
PSYC 416	Human Behavior:principles & Application	4
PSYC 421	Human Cognition	4
PSYC 450	Sensation and Perception	4
Take 8 additional credits 4 must be upper division		8

Emphasis Area Options:

Because psychology may be applied to a wide range of human endeavors, students may add an emphasis area to the B.A. or B.S. to increase their marketability at graduation. Students select courses from an approved list of interdisciplinary courses to complete one of the following emphasis areas: Behavioral/Clinical Applications, Business/Organizational Applications, Family and Child Development, Health and Wellness Applications, Law and Criminal Behavior Applications, Psychobiology, Sports Psychology Applications.

Family and Child Development Applications

Required Courses:		
PSYC 304	Child and Adolescent Development	4
PSYC 305	Adult Development and Aging	4

PSYC 340	History and Systems of Psychology	4
PSYC 422	Child Psychopathology	4
Take 4 from the following		
COMM 301	Persuasive Communication	4
COMM 315	Small Group Communication	4
or COMM 335	Interpersonal Communication	
CRIM 350	Juvenile Delinquency	4
ENGL 312	The Teaching of Writing	3
ENGL 316	First and Second Language Acquisition	4
EXSC 302	Motor Development Across a Life Span	3
PSYC 325	Theories of Personality	4
PSYC 330	Psychological Assessment	4
PSYC 416	Human Behavior:principles & Application	4
PSYC 417	Cultural Psychology	4
PSYC 492	Internship	1-4
SOC 300	Sexuality and Society	4
Take NO more than 1 from the following		
ART 341	Visual Arts in Education	3
ENGL 335	Children's Literature	3
TA 440	Creative Dramatics for Children & Youth	3
Law and Criminal Behavior Applications		
Required		
CRIM 341	Criminal Psychology	4
or PSYC 341	Criminal Psychology	
Take 5 courses from		
CRIM 340	Violence & Victimization	4
CRIM 350	Juvenile Delinquency	4
CRIM 370	Deviance in U.S. Society	4
CRIM 430	Gender, Race, Ethnicity and Crime	4
CRIM 451	Forensic Investigations	4
or PSYC 451	Forensic Investigations	
Take at least one from the following:		
CRIM 105	Introduction to Law and Legal Process	4
or POLS 105	Introduction to Law and Legal Process	
CRIM 276	Criminal and Procedural Law	4
POLS 401	American Constitutional Law	4
POLS 481	Law and Society	4
Take 1 from the following		
CRIM 320	Critical Issues in Policing	4
CRIM 330	Contemporary Corrections	4
CRIM 404	Constitutional Law in Criminal Justice	4
or POLS 404	Constitutional Law in Criminal Justice	
CRIM 355	Family Violence	4
CRIM 410	Substance Abuse	4
CRIM 440	Terrorism	4
or POLS 440	Terrorism	
PSYC 417	Cultural Psychology	4
SOC 360	Racial and Ethnic Relations	4
Business/Organizational Applications		
Required		
COMM 306	Business and Professional Communication	4
PSYC 330	Psychological Assessment	4

PSYC 482	Selected Topic (Industrial/Organizational Psychology)	4
Take 3 from the following		
BUS 381	Info Systems & Organization Design	4
BUS 448	Organization Development	4
COMM 335	Interpersonal Communication	4
ECON 312	Quantitative Analysis in Business	4
PHIL 300	Ethics	4
or PHIL 350	Technology and Value	
PSYC 203	Understanding Emotion	4
PSYC 401	Social Psychology	4
Take at least one from the following		
BUS 255	Environment of Business	4
BUS 367	Behavior in Organizations	4
BUS 368	Human Resource Mangement	4
BUS 446	Theories and Practice of Leadership	4
BUS 449	Managerial Leadership: Core Competencies	4
Clinical & Behavioral Applications		
Required		
PSYC 325	Theories of Personality	4
PSYC 330	Psychological Assessment	4
PSYC 435	Counseling and Psychotherapy	4
Take 2 from the following		
ENGL 350	Studies in African-American Literature	4
ENGL 361	Contemporary Chicano Literature	4
or SPAN 361	Contemporary Chicano Literature	
PHIL 260	Topics in World Philosophy	4
PHIL 355	Chinese Philosophy and Culture	4
POLS 210	Multiculturalism, Race & Politics in U.S	4
POLS 412	Civil Rights Movement	4
POLS 418	Women and Politics	4
PSYC 215	The Psychology of Sex and Gender	4
PSYC 417	Cultural Psychology	4
SOC 230	Course SOC 230 Not Found	4
SOC 300	Sexuality and Society	4
SOC 322	Contemporary Issues in Gender Studies	4
SOC 360	Racial and Ethnic Relations	4
Take 3 from this list or from above		
CRIM 410	Substance Abuse	4
PSYC 203	Understanding Emotion	4
PSYC 304	Child and Adolescent Development	4
or PSYC 305	Adult Development and Aging	
PSYC 345	Health Psychology	4
PSYC 421	Human Cognition	4
PSYC 422	Child Psychopathology	4
Psychobiology Applications		
Required		
BIOL 121	Introduction to Cells and Organisms	3
Take 3 from the following:		
BIOL 223	Human Anatomy	4
BIOL 224	Human Physiology	4
BIOL 331	Genetics	4
CHEM 151	General Chemistry	4

PSYC 421	Human Cognition	4
PSYC 450	Sensation and Perception	4
Take 2 from the following		
BIOL 425	Biochemistry	4
BIOL 426	Molecular Biology	4
BIOL 461	Vertebrate Physiology	4
CHEM 152	General Chemistry II	4
PSYC 345	Health Psychology	4
Health & Wellness Applications		
Required		
PSYC 345	Health Psychology	4
SOC 321	Medical Sociology	4
Take 2 from the following		
BIOL 223	Human Anatomy	4
BIOL 224	Human Physiology	4
EXSC 201	Functional Anatomy	4
EXSC 202	Exercise Physiology	4
Take 3 courses from the following		
BIOL 121	Introduction to Cells and Organisms	3
CHEM 151	General Chemistry	4
EXSC 303	Nutrition	3
PHYS 201	Mechanics and Thermodynamics-Algebra	4
PSYC 203	Understanding Emotion	4
PSYC 304	Child and Adolescent Development	4
PSYC 305	Adult Development and Aging	4
PSYC 401	Social Psychology	4
PSYC 416	Human Behavior:principles & Application	4
PSYC 417	Cultural Psychology	4
PSYC 492	Internship	1-4
Sports Psychology Applications		
Required		
PSYC 304	Child and Adolescent Development	4
or PSYC 305	Adult Development and Aging	
PSYC 338	Sport Psychology	4
PSYC 345	Health Psychology	4
Take 1 from the following		
PSYC 203	Understanding Emotion	4
PSYC 315	Principles of Learning and Memory	4
PSYC 416	Human Behavior:principles & Application	4
PSYC 421	Human Cognition	4
PSYC 450	Sensation and Perception	4
Take 2 from the following		
EXSC 201	Functional Anatomy	4
EXSC 251	Individual & Dual Sports & Activities	2
or EXSC 252	Team Sports	
EXSC 302	Motor Development Across a Life Span	3
EXSC 461	Exercise Psychology	4
EXSC 480	Social Psychology of Sport	4
EXSC 492	Internship	1-4

Minor in Psychology

19 credits, 12 credits upper division.

PSYC 200	General Psychology	4
Three Upper Division Psychology Courses		12
Psychology Elective Credits (lower or upper division)		3
Total Hours		**19**

Candidates for a California Secondary Teaching Credential should contact the School of Education Office for a complete list of course requirements for a Single Subject Waiver in Social Science.

Courses

Lower Division

PSYC 200. General Psychology. (4).
Covers the concepts and principles pertinent to psychological processes as social behavior, development, perception, thinking and symbolic processes, physiology, personality and psychological disorders. Introduces students to the empirical foundation of the discipline of psychology. Prerequisite to all courses in psychology except PSYC 203, Psyc 207 and PSYC 215.

PSYC 203. Understanding Emotion. (4).
This course provides an introduction to the study of emotions. Themes covered include the biological basis of emotions, individual differences in emotionality, emotions in social relationships, cultural understanding of emotions, emotions and psychopathology, and Ganzheitspsychologie. Emphasis on research methodology and ethics is also covered.

PSYC 215. The Psychology of Sex and Gender. (4).
An exploration of research and issues surrounding gender from a psychosocial perspective, with an emphasis on the interaction between biological and social theories. The implications of social roles, status, and gender-related traits on relationships and health that are central to students' daily lives are emphasized throughout. Methodological flaws the may impact the observance of sex differences are also examined.

PSYC 222. Abnormal Psychology. (4).
A survey and critique of traditional diagnostic categories of mental illness, as well as theory and research findings regarding their causes and treatment. Students will be introduced to a variety of approaches, including psychoanalytic, cognitive, behavioral, humanistic and biological models. Prerequisite: PSYC 200.

PSYC 282C. ST: (core). (1-4).
Select Topic approved for core.

Upper Division

PSYC 304. Child and Adolescent Development. (4).
Study of theories and principles pertaining to the developmental characteristics of children and adolescents in terms of the physical, mental, emotional and social development of the individual. Meets the gender/ethnic studies requirement.

PSYC 305. Adult Development and Aging. (4).
Study of theories and principles pertaining to the developmental characteristics of adults, including the aged, in terms of the physical, mental, emotional and social development of the individual. Meets the gender/ethnic studies requirement.

PSYC 312. Research Design and Statistics I. (4).
Research Design and Statistics 1 is the first of a two-course sequence in Psychology designed to prepare undergraduate psychology majors to develop the knowledge and skills needed to design, implement and analyze psychological research. This course will introduce students to a variety of research designs and statistical analyses including descriptive statistics, correlation, t-tests, and ANOVA. (Prerequisite: MATH 115 of MATH 151 or equivalent).

PSYC 313. Research Design and Statistics II. (4).
Research Design and Statistics II is the second course in a two-course sequence designed to assist undergraduate psychology majors in developing the knowledge and skills needed to design, implement, analyze, and present psychological research. Building on the skills learned in PSYC 312; students will continue to develop knowledge about psychological research with a focus on correlational, experimental, and quasi-experimental designs. Students will design and implement one or more research projects. The project will culminate in an APA-style research paper and poster presentation. This course is a writing intensive course (Prerequisite: C- or above in PSYC 312).

PSYC 315. Principles of Learning and Memory. (4).
Explorationof the adaptive processes of learning in organisms including habituation, Classical Conditioning and instrumental conditioning. Additional emphasis on animal learning and memory processes, and animal cognition. Topics are discussed from an empirical foundation.

PSYC 321. Human Cognition. (4).
Examines perception, attention, memory, language and problem solving. In addition to studying research and theory, students experience and observe cognitive processes in computer labs and class demonstrations. Cognitive deficits and rehabilitation are discussed in each topic area.

PSYC 325. Theories of Personality. (4).
The analysis of the theories of personality in terms of structure, dynamics and development. Biological, social and cultural determination of personality are considered, as well as characteristic research and research methods.

PSYC 330. Psychological Assessment. (4).
Studies the principles and practices of group and individual testing in the fields of intelligence, aptitude, achievement, personality and vocational interest. Includes an introduction to the MMPI-2 and Wechsler tests and projective techniques.

PSYC 331. Physiological Psychology. (4).
Studies the physiological aspects of human behavior, with special emphasis on neurological structure and functions as related to sensation, psychopathology, and other psychological processes. Prerequisite: PSYC 200.

PSYC 338. Sport Psychology. (4).
This course is designed to help students both learn theory and then apply practical as well as theoretical information as it relates to the psychology of sports in its various forms. Various mental training skills that can enhance one's athletic performance will also be covered. Some of the areas related to this class that will be explored this semester include stress, motivation, goal-setting, leadership, and imagery. Personality theory, as it relates to athletic competition, as well as competition in the "real world," will also be investigated. The class periods will consist of three components: 1) lecture, 2) discussions, and 3) a period of time during which films and small group exercises will take place.

PSYC 340. History and Systems of Psychology. (4).
An overview of the historical foundations of contemporary psychology, including an examination of major systems of thought and theoretical applications of each in the areas of sensation, perception, learning, motivation, emotion, personality and social behavior.

PSYC 341. Criminal Psychology. (4).
Students examine theory, research, law and case studies to gain an understanding of the behavior of violent offenders. Research into biological, psychological and social causes is examined and evaluated. Additional topics include the role of the forensic psychologist, the science of profiling, and the definitions and use of the insanity defense. (cross-listed with CRIM 341).

PSYC 342. Art and Psychology. (3).
This course is offered in the Art and Psychology departments for those students who are interested in the synergy between art and psychology. It satisfies the CORE 21 Participatory Art requirement. It is especially relevant for students with majors in art or psychology or both who are interested in an MFT/ATR (registered art therapist) graduate program. For all others, the course provides an overview of art history, design, production and aesthetics with an emphasis on psychological theories and current neuroscience research. Child development and family systems are addressed in relation to therapeutic uses of art. Visual thinking and creativity are explored and utilized in the production of self-expressive art works. Cross-listed with ART-342.

PSYC 345. Health Psychology. (4).
Examines the use of behavior therapy procedures in relation to the prevention and treatment of various disorders such as chronic pain, cancer, hypertension, alcoholism, smoking and eating disorders. The use of psychological issues and treatment procedures as they relate to etiology and maintenance of these disorders is emphasized and specialized areas such as clinical behavioral pediatrics, type A behavior and terminal illness are discussed.

PSYC 401. Social Psychology. (4).
Studies the influence of personal, group and social systems on individual attitudes and behavior. Includes socialization, social perception, attraction, aggression, prejudice, conformity, altruism and related topics, as well as the discussion of theories, methods and contemporary research.

PSYC 412. Advanced Research Design and Statistics. (4).
Advanced Research Design and Statistics is a required course for undergraduate psychology majors seeking a bachelor of science degree in psychology. This course is designed to provide students with an opportunity to build on their knowledge of correlational and experimental research methodologies and basic approaches to statistical analyses. Taught as a seminar course, students will be required to design and implement an original research project which utilizes a mixed methodological approach. In addition, students will be introduced to the theoretical underpinnings of advanced statistical analyses (Prerequisite: PSYC 313).

PSYC 416. Human Behavior:principles & Application. (4).
Covers the principles and procedures of Applied Behavior Analysis, Classical Conditioning, and Bandura's Social Cognitive Theory as they apply to multiple areas of human behavior. In addition to trying out various behavioral interventions and measures on themselves, students read and discuss current literature in behavior analysis related to the etiology and treatment of behavior disorders, health practices, anxiety disorders, childhood disorders and interpersonal relationships.

PSYC 417. Cultural Psychology. (4).
This course provides a systematic overview of knowledge about cultural organization of human psychological functions, and how psychology as a research discipline can study these functions. Strong theoretical and methodological orientation is included. Prerequisite: PSYC 200.

PSYC 421. Human Cognition. (4).
This course examines cognitive processes in humans. Emphasis is placed on research about perception, attention, memory, language, problem solving, and the means by which this research can be applied to our daily lives. .In addition to studying research and theory, students experience and observe cognitive processes in computer labs and class demonstrations. Cognitive deficits are discussed in many topic areas.

PSYC 422. Child Psychopathology. (4).
This course is designed to give students an introduction to abnormal child psychology. We will study the major disorders typically diagnosed in childhood, including the DSM-IV-TR diagnostic criteria, the current information on the etiology of the disorders, as well as the current research on the most effective assessment and treatment for these disorders.

PSYC 430. Applied Psychology Practicum. (4).
This course involves the application of psychological principles to personal and social problems of everyday life. Topics include positive psychology, problem solving, stress, career development and intimate relationships. Theory is integrated with practical application. Students conduct and present an individual self- change project and complete some hours of community service.

PSYC 435. Counseling and Psychotherapy. (4).
An introduction to the theories, problems and techniques of counseling and therapy. Prerequisites: PSYC 222 and PSYC 325.

PSYC 450. Sensation and Perception. (4).
Introduction to the basic sensory and perceptual processes of humans with an emphasis on vision and audition.

PSYC 451. Forensic Investigations. (4).
Forensic investigations will familiarize students with the process of criminal and forensic investigations as they relate to the criminal justice process. Students will learn the various applications in criminal investigations which include forensics, interview/interrogation, search and seizure, use of DNA, policies and procedures. We will study the legal aspects of investigations and rules regulating the documentation, collection and analysis of evidence. We will explore the various investigative techniques used to detect, prevent, and study crime and behavior. This is a lecture-based and discussion course, so we will rely upon both audible and visual learning theories. The text will be used during lecture hours, but the reading assignments occur outside of class hours. Supplemental materials will be distributed in class and/or posted upon the class website. There will also be several experiential learning activities outside of the classroom. These will be announced in advance. Cross-listed with CRIM 451. Prerequisite: CRIM 101 or PSYC 200 and junior or senior standing.

PSYC 482. Selected Topic. (4).

PSYC 482C. ST: (core). (1-4).
Select Topic approved fill core requirement.

PSYC 485. Clinical & Social Psychology South Afric. (4).
This course introduces you to South African society and culture through the lenses of social and clinical psychology. South Africa has a unique history and society that presents distinct social, developmental, and clinical experiences that its population shares. Students will learn about the history and society of South Africa in order to better understand its culture and the psychology of its population. In addition, students will study how clinical psychology is practiced in this country in order to address its members mental health needs. This course will focus specifically on the social and relational elements of this country and its mental health practices. Through this process, students will develop cross-cultural competencies and they learn about and experience the unique elements of South African culture and psychology, as well as the universal human foundations that are shared in U.S. society.

PSYC 490. Independent Study. (1-4).

PSYC 492. Internship. (1-4).
(graded P/NC only).

PSYC 494. Clinical Practicum. (4).
This course has two components- a weekly seminar and six hours per week in a field setting working with a client who is mentally ill, intellectually disabled, behaviorally disordered, or individuals with ASD. Under the supervision of the instructor and the clinical staff at their placement, students develop, implement and evaluate a behaviorally based clinical intervention for their client. While the instructor can assist students in finding a placement, students are ultimately responsible for securing one. Prerequisite: PSYC 222 and PSYC 416 or PSY 315; enrollment by permission of the instructor. Also, Psych 494 serves as a Capstone for both the BA and the BS in Psychology.

PSYC 495. Research Practicum. (4).
This course offers students the opportunity to design, carry out, and present out their own research study. Students will gain a working knowledge of all aspects of research, which include planning and design of studies, project coordination, administration of measures, data management, and both written and oral presentation of their findings.

PSYC 496. Directed Research. (1-3).
By Permission Only.

PSYC 497. Departmental Honors. (4).
By Permission Only.

Religion

The religion curriculum at California Lutheran University challenges students to engage in the academic study of religion and to explore the religious questions raised in multiple faith traditions, such as the existence and nature of God, how personal and community ethics are shaped, how religion informs our living in a complex and global society, and the role of scriptures in the lives of the faithful. Courses include themes or topics across multiple religious traditions, as well as in-depth studies of specific religious traditions, including Christianity, Judaism, Islam and Sikhism.

The religion degree program at Cal Lutheran provides a solid grounding in the academic study of religion, using the tools of critical thinking, analysis of primary sources, and engagement with diverse religious traditions locally and globally. This program supports the liberal arts emphasis of the University and prepares students to understand and negotiate the myriad complexities of religion they will face after graduation, whether they work in business, law, local government, social services, education, medicine, administration, sales, or the environment. In addition to teaching students the skills of critical thinking and sustained community engagement needed for many careers today, the Religion Major also prepares students for graduate study in religion. Pre-seminary advising is also available to majors and non-majors alike.

Opportunities exist for students to do internships, experiential learning, mentored research, and independent studies, allowing them to explore areas of potential career interest.

Bachelor of Arts in Religion

36 credits minimum.

RLTH 100	Religion, Identity and Vocation	4
or RLTH 300	Religion, Identity and Vocation	
RLTH 493	Research and Methods	2
RLTH 494	Research and Writing	2
One Course in "Sacred Literature and Languages"		
RLTH 315	Classical Hebrew Lang/Lit I	4
RLTH 316	Classical Hebrew Lang/Lit II	4
RLTH 317	Introduction to Biblical Greek I	4
RLTH 318	Introduction to Biblical Greek II	4
RLTH 320	Bible in the Ancient World	4
RLTH 321	The Bible and the Contemporary World	4
RLTH 323	St. Paul, Identity & Community Org	4
RLTH 328	Exploring the Qur'an	4
One Course in "Theology, Ethics and the Arts"		
RLTH 344	God in Christian Thought	4
RLTH 347	Liberation and Theology	4
RLTH 349	Queer Theology	4
RLTH 350	Contemporary Christian Ethics	4
RLTH 351	Global Ethics	4
RLTH 353	Violence, Religion and Politics	4
RLTH 354	Theology and Business Ethics	4
RLTH 355	Cooperation in Modern India	4
RLTH 356	Sexual Ethics	4
RLTH 381	Religion, Food and the Environment	4
RLTH 382	Religion and Public Life	4
RLTH 384	Religion and Ecological Ethics	4
RLTH 391	Children, Youth and Family Ministry	4
RLTH 392	Christian Liturgy and Worship	4
RLTH 393	Spirituality and the Arts	4
ART 412	Christian Art in the Middle Ages	4
One Course in "Religious Traditions"		
RLTH 331	Topics Medival/Early Modern Christianity	4
RLTH 332	Luther and the 16th Century Reformations	4
RLTH 334	The American Religious Experience	4
RLTH 360	Jesus in Film and History	4
RLTH 365	Women and Religion	4
RLTH 374	Jews and Judaism	4
RLTH 375	Muslims in the Modern World	4
RLTH 379	Sikhism	4
RLTH 395	Lutheran Spirituality	4
RLTH 396	Christian Spirituality	4

RLTH 397	Islamic Spirituality	4
RLTH 398	Sacred Space and Ritual	4
Four Upper Division Religion and Theology Courses which follow an articulated focus		

Minor in Religion:

20 credits minimum;

RLTH 100	Religion, Identity and Vocation	4
or RLTH 300	Religion, Identity and Vocation	
Choose four more courses from at least two different 300-level religion areas		16
Sacred Liternature and Languages, Theology, Ethics and The Arts or Religious Traditions		
Total Hours		**20**

Courses

Lower Division

RLTH 100. Religion, Identity and Vocation. (4).
This course introduces the study of religion. It pursues questions concerning the history, meaning, and interpretation of religious texts and action, and the broader contexts in which religion evolves. In additional to selective focus on the Christian tradition, this course considers core values of Lutheran higher education such as pluralism, interfaith cooperation, and sustainability. Additional religious traditions may be included.

RLTH 291. Intergrative Seminar Vocation & Leadrshp. (3).
Through reading, group discussion, community engagement, and personal reflection, this course equips students to situate their own vocations and leadership styles in the context of communities to which they belong. Prerequisite: Permission of the Instructor.

RLTH 292. Interfaith Storytelling and Organizing. (2).

Upper Division

RLTH 300. Religion, Identity and Vocation. (4).
This course introduces the study of religion.It pursues questions concerning the history, meaning and intrepretation of religious texts and action, and the broader contexts in which religion evolves. In addition to selective focus on the Christian tradition, this course considers core values of Lutheran higher education such as pluralism, interfaith cooperation and sustainability. Additional religious traditions may be included. This course satisfied the Speaking Intensive Core requirement and the RTHL 100 core requirement. It is recommended for transfer students of junior and senior status who have not taken RTHL 100.

RLTH 315. Classical Hebrew Lang/Lit I. (4).
This course is the first of a two-semster sequence of study leading to a reading knowledge of the Hebrew Bible/Old Testament and onther ancient Hebrew texts. Basic Hebrew grammar and vocabulary are studies in conjunction with questons of the literary, religious, and linguistic culture of ancient Israel and early Judaism.

RLTH 316. Classical Hebrew Lang/Lit II. (4).
This course is the second of a two-semester sequence of study leading to a reading knowledge of the Hebrew Bible/Old Testament and other ancient Hebrew texts. Basic Hebrew grammar and vocabulary are studies in conjenction with questins of the literary, religious, and linguistic culture of ancient Israel and early Judaism. (Cross listed with Hebrew 316; this cuorse fulfills the Core 21 Language Requirement).

RLTH 317. Introduction to Biblical Greek I. (4).
A beginning study of biblical Greek that builds a foundation in the essentials of grammar, vocabulary, and translation. Includes readings in Mark and Philippians, as well as (in the second semester) discussion of theological implications.

RLTH 318. Introduction to Biblical Greek II. (4).
A beginning study of biblical Greek that builds a foundation in the essentials of grammar, vocabulary, and translation. Includes readings in Mark and Philippians, as well as (in the second semester) discussion of theological implications.

RLTH 320. Bible in the Ancient World. (4).
This course surveys biblical writings and examines them in their ancient social, political, and cultural contexts. Students learn comparative methods of literary and historical intrepretation with special attention to how reconstructions of the ancient world affect our understanding of these writings. The selection of biblical writings will depend on the instructor.

RLTH 321. The Bible and the Contemporary World. (4).
The Bible is an enduring expression of the Jewish and Christian faiths. It is put to myriad uses and read in a fascinating variety of ways in many different contexts. This course explores the Bible in comtemporary history, interpretation, social and political life, theology, and the arts, paying special attention to both its materiality/inconicity and the way its themes are engaged by communities around the world.

RLTH 323. St. Paul, Identity & Community Org. (4).
The Apostle Paul wrote letters that have influenced how people live in community for almost 2000 years. This course examines how Paul argues, encourages, negotiates, and embodies ways of bringing diverse people together in one community. Students then consider Paul's strategies in light of comtemporary identities that often divide us today (race, gender, religion, social status, education, and privilege) in order to analyze Paul's proposed solutions and to explore how communities today might navigate identity politics and community unity. This course imcorporates site visits and/or service learning assignments.

RLTH 328. Exploring the Qur'an. (4).
This course will expose students to the historical context of the Qur'an and the ways in which Muslims and non-Muslims interpret and inteface with the Qur'an. Student will read selections of the Qur'an and interpretations in addition to learning the role of the Qur'an in the lives of Muslims.

RLTH 331. Topics Medival/Early Modern Christianity. (4).
A survey of the emergence, growth, and development of the Christian movement from the time of the apostles to the disintegration of the Roman Empire in the West and to the fall of Constantinople in the East. This course will focus on Christianity as actually experienced and practiced by its earlier adherents in the multinational context of empire, and will look at textual, artistic, and material sources of evidence to gain a sense of the Christian past.

RLTH 332. Luther and the 16th Century Reformations. (4).
A survey of the development of Christianity in the post-Roman West, focusing on the rise of papacy, the development of distinctive Western Christian practices and doctrines, and the important role of the church in shaping European society. Special attention will be given to ways the medieval church handled difference and dissent, and to the reform movements of the later Middle Ages and the Protestant and Catholic reformations they brought about.

RLTH 334. The American Religious Experience. (4).
The course traces the historical role(s) of religion in the United States of America from Native American religious traditions, through the dominance of Christianity in its multiple expressions, to the modern-day reality of pluralism. Themes include but are not limited to the relationship between religion and politics; the importance of the U.S. as a land of (religious) opportunity; religion and money; pluralism as a religious idea and/or challenge; and social frameworks such as class, sports, gender and sexuality. Offered every fall.

RLTH 344. God in Christian Thought. (4).
An examination of traditional and contemporary Christian understandings of God, including the person and attributes of God, God's creative work, the divine-human relationship, sin, and the traditional problem of evil.

RLTH 347. Liberation and Theology. (4).
An introduction to theologies of liberation in Latin America and in Ventura County, This course asks how social, economic, and political readings of the Bible can be used to dominate and liberate communities.

RLTH 349. Queer Theology. (4).
This seminar course seeks to ask and respond to the theological questions within the context of queer theory. Moving beyond LGBTQ liberation theology, it seeks to (dis)integrate traditional understandings of the divine and consider the theological implications of identity, particulary by dis-/e-/rupting binaries such as good and evil, female and male, straight and gay, divine and human. Offered every other fall.

RLTH 350. Contemporary Christian Ethics. (4).
An introduction to contemporary Christian ethics and its relationship to the Bible and Christian communities; and thinking on such important personal and social issues as sexual behavior, human reproduction, racial and ethnic relations, the taking of human life, poverty and economic issues, and the environment.

RLTH 351. Global Ethics. (4).
A variety of issues have arisen which need to be examined from global perspective: political repression, social change, terrorism and war, economic globalization, immigration, human rights, health, and the environment. This course examines these issues from the perspectives of global religions, ethics, social theory, and social movements.

RLTH 353. Violence, Religion and Politics. (4).
A study of various forms of violence, such as sexual and domestic violence, political repression, terrorism and war. The course examines religious justification of and resistance to violence, using cases from diverse locations and religions.

RLTH 354. Theology and Business Ethics. (4).
This course applies ethical theory to business decisions within the context of theological reflection. With a strategic focus, the course will investigate the relationship between theological ethics and the economic concerns of managers. The course is particularly designed to help students become effective ethical agents by developing the skills to apply ethical principle to strategic business decisions. (cross-listed with BUS 354).

RLTH 355. Cooperation in Modern India. (4).
From colonial encounters to the contemporary period, this course traces the roots of twentieth century interreligious conflict in and between India, Pakistan, Bangladesh, and Sri Lanka. Based on the principles of the merergining field of Interfaith Studies, we will take an interdisciplinary approach to understand the underlying causes of conflict, as well as enacted and potential solutions. The course demands intensive reading, regular writing, seminar-style participation, and original research.

RLTH 356. Sexual Ethics. (4).
A study of sexual ethics from religious and examination of understandings of gender, sexuality, and sexual identities to discussion of issues such as marriage and family; contraception, abortion and reproductive technologies; sexual violence, and HIV/AIDS.

RLTH 360. Jesus in Film and History. (4).
A study of the historical person of Jesus through readings in the gospels, historical Jesus research from the past two centuries, and the various cinematic portraits of Jesus from the silent picture era to the present.

RLTH 365. Women and Religion. (4).
A consideration of women and women's issues within the context of the study of world religious traditions.

RLTH 372. South Asian Thought. (4).
Drawing on the religious traditions of South Asia (modern India, Pakistan, Bangladesh, and Sri Lanka, students will consider the varieties of the religious experience, historically and comparatively represented by the adherents of these religious communities.

RLTH 373. Global Jesus. (4).
Who is Jesus? This course begins with the four gospel accounts of Jesus' life and ministry to learn and how various first century jewish and Roman contexts shaped specific portrayals of Jesus. Then we examine contemporary global prespectives on Jeus. Students research and analyze how Jesus is portrayed in the art, literature, politics, cultures and social constructions of 5-7 non-western countries. Students consider the ways in which cultures shape contemporary theological portrayals of Jesus.

RLTH 374. Jews and Judaism. (4).
A study of the elements of traditional Judaism in biblical, rabbinic and modern times.

RLTH 375. Muslims in the Modern World. (4).
In this introductory course, students learn the history of Islam from the Prophet Mohammed and the roots of the religion in Arab culture, to the spread of Islam as a global religion across many cultures. Students will analyze the variety of social, political, and cultural ways in which Muslims live out their faith around the world and in the U.S. Global Emphases may change year to year but will include 3-5 different geographical areas such as: Egypt, Asia, Turkey, Africa, Spain, Indonesia, and Europe.

RLTH 376. Islam in America. (4).
This course provides an introduction to the presence of Muslims in the United States, starting with a historical survey spanning African Muslim slaves brought in the antebellum period to anti-Muslim rhetoric in 21st century, paying attention to current events in the US involving Muslims. We explore American Muslim communal and demographic diversity, political and civic organizations, political participation, religious practices as well as family, education, music, art, and cultural diversity. Special attention is paid to questions of gender, race, and citizenship, as well as to issues of religious authority and authenticity. The course engages this material within the contexts of both American religious history and Islam as a global tradition.

RLTH 378. Asian Religions in the United States. (4).
This course introduces students to the history of Buddhism, Hinduism, Sikhism and Jainism as religions that originated in the Indian Subcontintent (aka, South Asia; modern India, Pakistan, Bangladesh, and Sri Lanka)), as well as the impact that Islam had on the same. It then traces the migrations of these faiths around the world and their practitioners to the shores of the United States. Drawing on the religious traditions of South Asia, students will consider the varieties of the religious experience, historically and comparatively represented by the adherents of these religious communities. The course will focus on the lived realities of these traditions in the United States. Class period will entail a combination of discussions and lectures intended to illuminate those texts.

RLTH 379. Sikhism. (4).
The Sikh religion, or Sikhism, offers students an educative example of how a religious tradition emerges in the full light of history to become one of the youngest of the "world religions". In this course, students will share in the tradition's intellectual, spiritul, and cultural heritage while exploring the question of how to study religions. By the course's end, students will be able to recapitulate major moments in the tradition's history, and also offer informed comment on its future.

RLTH 381. Religion, Food and the Environment. (4).
Humans eat food. Human cultural and religious phenomena relate intimately to patterns of eating-which is why anthropologists, sociologists, historians, and scholars of religions have long been fascinated with the relationships between sacred stores and ritual practices involving food. This course takes an interdisciplinary approach to studying the intersections between religion, food, and environments. Students will address questions about religious law, mythic narratives, ritual practice, symbolic meaning, identity formation, and animal and ecological ethics, as we explore Jewish kosher observance, Christian Eucharistic practice, Islamic halal, and other kinds of religious eating. Special attention will be given throughout the course to issues of race, ethnicity, and gender across multiple social identities.

RLTH 382. Religion and Public Life. (4).
In modern democracies there is often a provision for religious freedom alongside an exception that the public be secular. Students will explore religious freedom and freedom of conscience in light of the First Amendment and Anglo-Protestant bias. Governed by seminar practices of writing, speaking, and listening, students will examine case studies and constitutional debates; describe and assess the practice of religion in public life; and explain the dynamics of religious pluralism and secularization.

RLTH 384. Religion and Ecological Ethics. (4).
Religion and ecological ethics is the challenging work of 1)gaining clarity about our positions, attitudes, and assumptioins with respect to "the environment" by drawing from the disciplines of both religious and philosophical ethics; 2) developing rigorous ways to think about complex issues such as climate change, environmental injustice, ethical treatment of animals, farming and food justice, and others; and 3) outlining practical approaches to local/global issues and short/long term actions. It also demands that we think carefully about how our conceptions of "nature," "environment," "wilderness," etc. shape our attitudes and practices.

RLTH 390. Servant Leadership. (4).
The course will investigate how the deepest meaning of leadership is embodied in the commitment to the grouwth and well-being of people and the communities in which they belong, all the while meeting organizational purposes and ends.

RLTH 391. Children, Youth and Family Ministry. (4).
Through course readings, practica, guest speakers, and self-reflection, students will be introduced to the theologies, approaches, and organizational models of ministry with children, youth, and families. Students will investigate the analyses of others through written assignments and exams and will construct their own articulations of the purpose and practice of ministry. By hosting guest speakers, practicing theological skills, and locating resources, students will relate their own identities and leadership styles to the identities and leadership styles of fellow classmates and scholar-practitioners.

RLTH 392. Christian Liturgy and Worship. (4).
An introduction to the Christian liturgical tradition, particularly that of Western Christianity. It will include some comparison with non-Christian religious customs, and will give importance to the development of worship in the Protestant traditions. The course's approach is historical, but it may also include some practical training if appropriate to student needs. Christian hymnody and liturgical music will also be introduced, with an emphasis on the distinctive Lutheran contributions in those areas.

RLTH 393. Spirituality and the Arts. (4).
This course explores the use of the arts in (Christian) spirituality, focusing on visual arts, literature and poetry, music, and other forms of special interest to students. We will consider how both works of art and the practice of artistic creation and performance become iconic or transparent to human spiritual experience.

RLTH 394. Jewish Spirituality. (4).
Jewish Spirituality.

RLTH 395. Lutheran Spirituality. (4).
This course examines key figures and developments n the lively history of Lutheran spirituality. The first half of the course centers in Luther's spirituality and glimpses of later European Lutheran spirituality of Dietich Bonhoeffer and expanding inth U.S., global and ecological Lutheran voices.

RLTH 396. Christian Spirituality. (4).
This course provides an introduction to diverse forms of Christian spirituality through attention to themes of solitude, community, Sabbath, prayer, discernment, social justice, spiritual practice, and ecology. In this course students will critically engage a range of primary and secondary texts.

RLTH 397. Islamic Spirituality. (4).
Spirituality is an integral of every religious tradition. In recent years, Sufism, or a deep historical tradition of Islamic spirituality, has often been considered separate from Islam itself. This course investigates the historical origins of Sufism and its transnational and local dynamics in the modern world.

RLTH 398. Sacred Space and Ritual. (4).
This course introduces students to theories of space and place applied in the study of religion. Using case studies from one or more non-western religious traditions, studens survey sacred spaces in historical and contemporary global contexts. Themes covered may include places of worship and pilgrimage, religious rituals, shared and contested sacred spaces, and the role and construction of gender in sacred spaces. The non-western religious traditions covered in this course will depend on the specialization of instructor.

RLTH 412. Christian Art in the Middle Ages. (4).
Students survey the religious art of the Middle Ages - primarily Christian, but also some early Jewish and Islamic developments - identifying significant works of architecture, sculpture, and painting, while exploring Christian concepts and beliefs, liturgy and worship. Students consider art in relation to cultural needs, examining works in historical, religious social, economic, and political contexts. Students become familiar with visual forms, styles, narratives, and symbols of Christian art, as well as with broader, unifying themes shared by different cultures. The course content covers twelve centuries and geographically spans the Western edges of Europe to the Middle East. We also pay attention to instances of cultural exchange (the circulation of ideas, art forms, and artists through Europe and the Middle East). (cross-listed with ART 412).

RLTH 485. Travel Seminar: Medival Celtic Christian. (4).
This course investigates medieval Celtic Christianity. Any time a religious tradition is introduced into a culture, both the tradition and the culture are changed; this is what happened when Christianity encountered the Celtic cultures of the lands off the northwest edge of what we now call Western Europe. Some of the changes would have a profound influence on Christianity far beyond the time and space in which they arose, and that influence has experienced a renewed popularity for many Christians today. Our overarching goal in this class is to discover possible answers to the question: "Is there something that we can call 'Celtic Christianity'?" If the answer to that question is "yes," we will follow it up with a second: "What does Celtic Christianity look like, and how can we identify it?".

RLTH 490. Independent Study. (1-4).

RLTH 492. Internship. (2-4).

RLTH 493. Research and Methods. (2).
This course serves as part one of the capstone sequence for Religion and Theology and Christian Leadership Majors. In this course majors of junior and senior standing meet in a seminar style cohort to identify, develop and articulate their capstone research project proposal. Students will explore methodologies in the field of religion and practice the following skills: daily writing weekly planning sessions, exploring, articulating, testing and developing a research topic, and cultivating a communal approach to giving and receiving feedback on their research.

RLTH 494. Research and Writing. (2).
This course serves as part two of the capstone sequence for Religion and Theology and Christian Leadership Majors. In this course, majors of junior or senior standing meet in a seminar style cohort to research, write, and present their capstone research project. Students will practice the following skills; daily writing, weekly planning sessions, writing multiple drafts, and cultivating a communal approach to giving and receiving feedback with their research cohort and faculty instructor.

RLTH 496. Directed Research. (2-4).

Science

Scientific Computing is the field of study concerned with modeling and analyzing natural and engineered processes using computational techniques. Scientific Computing is a multidisciplinary field of study, both contributing to and benefiting from computer science, mathematics, and the natural and physical sciences.

The Applied Scientific Computing minor offers students a foundation in scientific computing. The program is designed to encourage students in all scientific disciplines with an interest in a multidisciplinary perspective on the sciences.

Minor in Applied Scientific Computing

17 credits minimum; 9 credits upper division

SCI 370	Scientific Inquiry in the Digital Age	4
SCI 470	Scientific Computing Seminar	2
MATH 251	Calculus I	4
or MATH 252	Calculus II	
SCI/CSC 205	Programming for Scientists	4
or CSC 210	Introduction to Computer Programming	
Any course in the natural and physical sciences numbered 200 or higher with a lab section		3-4
Total Hours		**17-18**

Notes:

MATH 252 can be replaced with any Math course with MATH 252 as a prerequisite.

CSC 210 can be replaced with any Computer Science course with CSC 210 as a prerequisite.

All courses must be approved by a faculty advisor associated with the scientific computing program at CLU.

Courses

Lower Division

SCI 101. Exploring Research Through STEM. (3).
In SCI-101 students are introduced to research in STEM by participating in research experiences in the laboratory and the field. Typically, research areas will include biology, chemistry, computer science, exercise science, mathematics, and physics. Faculty from a variety of STEM disciplines provide instruction through active learning, and students build collaboration skills working in teams and with peer mentors. Student teams present their final products at a poster session open to the campus community. By permission only.

SCI 205. Programming for Scientists. (4).
This course introduces the principles of computer programming, problem-solving methods, and algorithm development from a scientific perspective. The programming languages covered are C (a compiled language popular among engineers and mathematicians), and Perl (a scripting language popular among bioengineers) both in wide use in scientific fields. Also covered are introductory software engineering techniques and tools necessary to convert a functional specification to a properly functioning program. Examples and assignments will be drawn from the natural sciences. (Cross listed with CSC 205).

Upper Division

SCI 370. Scientific Inquiry in the Digital Age. (4).
A team-taught seminar on the philosophy of the sciences - natural, physical, and mathematical - and the practical application of these philosophies. Emphasis will be placed on the role of scientific computing in the sciences. Prerequisites: MATH 251, SCI 205 / CSC 205 or CSC 210, and a course in the natural or physical sciences with lab work.

SCI 470. Scientific Computing Seminar. (2).
A research seminar with content designed to fit student need. Students will engage in the modeling and analysis of processes. Students will be expected to synthesize their experiences from all areas of the minor, culminating in a report using scientific computing methods and tools to analyze a sufficiently complex real world date set or process. Prerequisite: SCI 370.

SCI 496. Directed Research. (0).

SCI 496A. Arcadia University. (6).

SCI 496F. School for Field Studies Fellowship. (4).

SCI 496I. Absolute Internship. (1).

SCI 496O. Off Campus Research/Internships. (0).

Sociology

The mission of the Sociology Department is to provide students with opportunities to gain the knowledge and skills required to study groups, organizations, subcultures, cultures, and societies. Our students study the dynamics of social interactions, identities, inequalities, and social change by investigating social structures, norms and values which shape our lives, our institutions, and our societies.

The primary goals of the Sociology Department are as follows:

1. **Develop a sociological imagination in our students**. The sociological imagination is defined as the ability to grasp the relationship between the individual and society in order to understand how larger social patterns influence the lives of individuals and, conversely, how individuals can exercise agency to effect change in society. Key to the development of a sociological imagination is fostering the growth of students' creative and critical thinking skills.

2. **Provide a strong disciplinary foundation**. The foundation of the discipline of sociology rests upon two areas: research methods and social theory. Two required courses in research methods, one in quantitative methods, one in qualitative methods, provide the knowledge and skills necessary to design ethical and rigorous studies that involve the collection and analysis of empirical evidence. Two required courses, one in classical sociological theories and one in contemporary social theories, provide sociological perspectives that inform the selection of research methods for a particular project and guide the analysis of collected data. Together, these courses provide students with the abilities to produce theoretically driven and empirically grounded scholarship.

3. **Encourage growth in each student's ethical judgment and understanding of identity.** We emphasize the development of ethical judgment in the production of and use of sociological knowledge because sociological knowledge has applied value when fostering intellectual growth and emotional maturity in students. In addition, we encourage students to examine diverse, complex, and situated identities, while increasing their awareness and understanding of the sources of social power which shape their own and others' experiences.

4. **Prepare students to live meaningful and productive lives**. The sociology department is committed to helping student live meaningful lives that are filled with an ever-present critical awareness of social dynamics and with a commitment to bring about positive social change. In addition, the sociology department offers courses which develop a broad base of knowledge and skills applicable to a variety of occupational fields and various areas of graduate study.

Bachelor of Arts in Sociology

38 credits minimum, 30 credits minimum upper division.

Choose one from the following: (3-4 units)		3-4
SOC 101	Introduction to Sociology	4
SOC 103	Contemporary Global Issues	4
SOC 407	Classical Sociological Theory	4
Choose one from the following		4
SOC 420	Contemporary Social Theory	4
SOC 421	Applied Sociology: Becoming an Agent	4
SOC 430	Quantitative Methods	4
SOC 440	Ethnographic Methods - Capstone	4
Sociology Electives (Minimum 14 must be Upper Division) [1]		Minimum 18

[1] One elective may be taken from other departments as long as the course is pre-approved by the Sociology Chair as having significant sociological content.

Minor in Sociology

18-20 credits minimum, 11-12 credits upper division.

Choose one from the following:		3-4
SOC 101	Introduction to Sociology	

SOC 103	Contemporary Global Issues	
Sociology Elective Credits (15-16 units, at least 11-12 must be Upper Division)		15-16
Total Hours		**18-20**

Courses

Lower Division

SOC 101. Introduction to Sociology. (4).
Provides the foundational concepts and theories used by sociologists to understand social life. The student will be introduced to the power of social forces to affect human behavior - culture, socialization, social structure, inequality, social institutions such as family, religion, education and the effects of social change.

SOC 103. Contemporary Global Issues. (4).
A critical review and assessment will be undertaken of the origin and present condition of the major global issues and how these issues are being addressed by the local and international organizations. We will also explore the subjects of human trafficking, human rights, coexistence among peoples of different cultures, and other critical global issues such as poverty eradication, environmental degradation, health crises and family/gender issues. (cross-listed with GLST 103).

SOC 200. Sexuality and Society. (4).
This course, a lower division version of SOC 300, is geared towards those who are not completing a major or minor in sociology. Primarily focusing on the United States, this course examines sexuality through a sociological lens. We will explore how sexual attitudes and behaviors have changed over time, looking at which sexual attitudes and behaviors are considered "normal" vs. "deviant," and "moral" vs. "immoral" in mainstream society and different subcultures. At both the interpersonal and societal levels, the course will examine how these beliefs influence societal responses to current social problems related to sexuality: adolescent sexuality, teen pregnancy, contraception, STDs, sex education, sexualized violence, prostitution, pornography, sexual orientation, changing gender roles, and portrayals of sex in popular culture. (Taking this course for credit disallows taking SOC 300 for credit.).

SOC 204. American Indian Studies. (4).
This course introduces students to the interdisciplinary field of American Indian Studies. The course covers three general areas related to American Indians. The first part of the course explores American Indian lifeways before sustained European invasion. The second part examines the dramatic consequences of invasion between 1492 and 1850, and includes an examination of Indian slavery, removal and reservation, and genocide. Special attention will be given to how American ideology, politics, and economic interests shaped Indian policies and practices. The third part examines the more critical issues facing American Indians, such as federal recognition, racism in the media, and poverty. Because American Indian women remain one of the most disadvantaged groups in the United States, the course pays particular attention to the consequences of Indian boarding schools and inadequate health care for Indian women. Each part will includes readings written from the perspectives of American Indians.

SOC 210. Introduction to Gender Studies. (4).
This interdisciplinary course uses a social constructionist perspective to explore some major issues in contemporary women's studies: cultural constructions of femininity; women's roles in and perspectives on education, religion, politics, law, economics, and health care; women and the arts; feminist theories and philosophies. (cross-listed with WOMS 210).

SOC 214. Introduction to Public Health. (4).
This course introduces students to key public health concepts and provides a foundational understanding of the history, systems, and practice of public health. Students learn the process of how health issues in a population are identified, treated and prevented through public health efforts and utilizing epidemiologic tools. Additionally, the social, behavioral and environmental factors that impact health are examined within a public health framework. The course also explores how factors such as age, race/ethnicity, sex/gender, social class, and dis/ability status impact lifelong health. Through real world examples and the current political, economic, and cultural news of the day, students gain a clear understanding of the scope of today's public health problems and possible solutions.

SOC 221. Popular Culture. (4).
An introduction to important readings on popular culture from the perspectives of sociology and communication studies. The study of popular culture takes the forms, content, values and norms of popular culture products as data for analysis and critique. Students will focus on mass communication forms of popular culture such as movies, advertisements, television shows, magazines, music, and music videos. This course will focus on the period from 1945 to the present. (cross-listed with COMM 221).

SOC 282. Selected Topic. (1-4).

SOC 282C. ST: (core). (1-4).
Select Topic approved for core.

SOC 285. Travel Course:Japanese Society/Culture. (2).
Japan has been one of the most economically advanced countries since the rise of globalization, yet unlike Europe and the U.S., it is a country of no Western origin. While globalization has accelerated the process of Americanization, Japan still retains uniquely Japanese customs, values/beliefs and social institutions. The course will meet during the spring semester and examine Japanese society/culture and the impact of globalization through documentary films, academic articles, popular magazines, and Internet sources. Right after the end of the semester, the students will visit Japan for approximately two weeks to directly observe interactions of Japanese people and experience Japanese life-style. Back in the U.S., the students are required to write a reflection paper on their experiences in Japan. Minimum Sophomore standing.

Upper Division

SOC 300. Sexuality and Society. (4).
Primarily focusing on the United States, this course examines sexuality through a sociological lens. We will explore how sexual attitudes and behaviors have changed over time, looking at which sexual attitudes and behaviors are considered "normal" vs. "deviant," and "moral" vs. "immoral" in mainstream society and different subcultures. At both the interpersonal and societal levels, the course will examine how these beliefs influence societal responses to current social problems related to sexuality: adolescent sexuality, teen pregnancy, contraception, STDs, sex education, sexualized violence, prostitution, pornography, sexual orientation, changing gender roles, and portrayals of sex in popular culture. Minimum Sophomore standing.

SOC 318. Immigration in the Global Age. (4).
International immigration is an integral part of the globalization processes. This course explores the key current theoretical and empirical debates in the study of this global phenomenon. The course covers transnational networks, the formation and implementation of labor recruitment (including human trafficking), migration policies, political conflict, economic and social adaptation, the development of socio-cultural traditions (ethnic identities0, and the transformation of gender relations. Minimum Sophomore standing. (cross-listed with GLST 318).

SOC 320. Religion and Culture. (4).
Investigates the relationship between religion and various forms of culture in contemporary American society, including literature, art, television, film, and popular music. Special emphasis will be given to the culture wars, the sacred in everyday life, and the production and reception of religious culture.

SOC 321. Medical Sociology. (4).
An introduction to the examination of health, illness, and healing from a sociological perspective. The course will address relevant sociological theories and research methods. The field of medical sociology operates independently from the medical profession and takes the perspective, values, norms, and practices of medicine as data for analysis and critique. This course will primarily focus on issues of health, illness, and healing in the U.S. Minimum Sophomore standing.

SOC 322. Contemporary Issues in Gender Studies. (4).
The course examines the significance of gender in structuring experiences and social institutions with an emphasis on the reproduction of gender-based privileges. Specific course topics will vary as the course delves into a selected area in which gender plays a significant role. Topics might include identities, the body, masculinities, globalization, consumer culture, work, and media. Minimum Sophomore standing.

SOC 330. Death and Dying. (4).
It is in thinking about death that we begin to understand the meaning of life. Using sociological, psychological and spiritual perspectives, this course will examine such topics as American cultural influences on the meaning of death, how we die in a technological age, hospice and palliative care, euthanasia, the medicalization of death, the grieving process, suicide and homocide, how children come to understand mortality, and cross-cultural perspectives on death and dying. Students will also critically analyze their own perspectives on end-of-life issues and consider how to prepare for, pay for and experience the end of life. Through this pragmatic and theoretical approach, students will not only reflect on their own mortality, but be empowered to live their lives more fully. The course will use active-learning methods (e.g., journaling, field trips, guest speakers, interviewing, debate, oral presentations as well as applied and interactive exercises).

SOC 334. Sociology of Education. (4).
This course provides an overview of sociological theories of education and current research about education in the United States. Analysis will include the school as a social institution comprised of specific roles, values, and norms. We will examine the role of schooling in both reproducing and challenging social inequalities with an emphasis on how social class, race, gender, ethnicity, immigration, and sexual orientation impact the organization of school, the development of curricula, and the experiences of students. Minimum Sophomore standing.

SOC 340. Family and Intimate Relationships. (4).
The course examines the peculiarity of the "modern" Western family system from historical and cross cultural perspectives. The course will explore the transformative effects of globalization and the post-industrial economy on family practices, structures, and intimate relationships. In addition, the course will address the intersections between family life and social structures, such as race/ethnicity, social class, and sexuality. Minimum Sophomore standing.

SOC 360. Racial and Ethnic Relations. (4).
The course examines the historical, political, economic, and cultural dimensions of racial and ethnic relations in the United States from the mid-1800s to the present, with an emphasis on racism. Includes an investigation of the link between residential segregation and opportunity for African Americans, a critical interrogation of whiteness and white privilege, and an exploration of racism in California, particularly for California Indians. Minimum Sophomore standing.

SOC 370. Deviance in U.S. Society. (4).
Introduces students to sociological concepts of deviance, social control, social power, and identity construction/management. Focusing on the topic of deviance, an exploration of how groups of people have the power to shape and apply social definitions of "normalcy" and "morality" will provide an analytical lens through which to look at the consequences for those labeled as "deviant." Minimum junior standing. (cross-listed with CRIM 370).

SOC 407. Classical Sociological Theory. (4).
A survey of the most significant developments in classical sociological theory, emphasizing the critical reading of primary source materials. The characteristics and origins of major sociological paradigms are explored, including the works of Marx, Weber, and Durkheim. Prerequisite: SOC 101; Minimum Junior standing.

SOC 413. Global Aspects of Sociology and Sport. (4).
Sport, a fundamentally social phenomenon, reveals regular and recurrent patterns. Globally, sport has become highly organized, institutionalized, bureaucratized, and commercialized. Technology has standardized sport, created new sports, increased spectator interest and access, and produced new levels of excellence in sport. Sport, a prominent influence in socializing children around the world, allows study of positive aspects of human behavior (e.g., leadership, cooperation and tolerance) and also negative issues (e.g., sexism, racism and violence. This course explores the debate about sport and globalization from a sociological perspective through an analysis of different aspects and dimensions of both phenomenons as vehicles for critically evaluating the tensions between the amateur and the professional, the national and the international, tradition and modernity, community and individualism. Case studies will focus on non-Western cultures,.

SOC 420. Contemporary Social Theory. (4).
This course is a critical examination of significant developments in contemporary social theory, such as symbolic interactionism, postmodernism, poststructuralism, critical theory, feminist theory, and queer theory. Prerequisites: SOC 407; Minimum Junior standing.

SOC 421. Applied Sociology: Becoming an Agent. (4).
The course explores the ways in which sociological knowledge and skills are applied to tackling various social problems and improving the lives of people both inside and outside of American society. Students learn what occupational opportunities in serving communities and their members exist, and will develop skills in networking and effective cross-cultural communication.

SOC 430. Quantitative Methods. (4).
This class will prepare students to critically analyze and conduct quantitative sociological research. Emphasis is on the use of surveys, the primary quantitative method used in social research. Students will learn the principles of study design and deductive logic for the purpose of carrying out quantitative data analysis. Pre-requisite: SOC 101, Minimum Sophomore standing.

SOC 440. Ethnographic Methods - Capstone. (4).
Skill development prepares students to conduct qualitative sociological research. Emphasizes ethnographic techniques including: intensive interviewing, direct observation, coding, participant observation, and report writing. Students develop and execute a field research project involving data collection, analysis, and a report. Minimum Junior standing. Pre-requisite: SOC 101 or equivalent.

SOC 482. Selected Topics. (1-4).

SOC 482C. ST: (core). (1-4).
Select Topic approved for core.

SOC 485. Seminar. (2-4).

SOC 490. Independent Study. (1-4).

SOC 492. Internship. (1-4).
(graded P/NC only).

SOC 495. Exploring Japanese Society, Pop Culture. (2).

SOC 496. Directed Research. (1-3).

Sports Management

Sports Management Major (BS)

Sports Management. A truly interdisciplinary major that combines the best of business, liberal studies, and science. Be prepared for tomorrow's wide world of sports including marketing, psychology, coaching, management, and behavioral sciences from both US and global perspectives. Real world applications combined with exceptional faculty contribute to a broad set of competencies to get you ready for a job in the field of sports management.

The Sports Management minor is designed for students majoring in subjects other than business – providing a solid foundation in the management of sporting enterprises.

The minor spans multiple disciplines, including business (p. 95), sociology (p. 245) and psychology (p. 231), to give you a well-rounded perspective on the subject.

See Business, Psychology and Sociology for faculty and course descriptions.

Required Business Courses		
BUS 251	Principles of Accounting	4
BUS 253	Financial Info in Bus Organization	4
BUS 367	Behavior in Organizations	4
ECON 311	Statistical Methods	4
Required Sports Management Courses		
BUS 347	Introduction to Sports Management	4
BUS 411	Sports-Related Marketing	4

SPMG 322	Ethical & Legal Aspects of Sports	4
SOC 413	Global Aspects of Sociology and Sport	4
SPMG 488	The Business of Sports	4
SPMG 492	Internship	2-6
SPMG 497	Capstone	4
Electives (Take 1 Course)		
BUS 381	Info Systems & Organization Design	4
BUS 443	Event Planning and Management	4
COMM 317	Sports, Media and Society	4
COMM 404	Broadcast Sports Production	4
PSYC 338	Sport Psychology	4
SPMG 411	Sport Analytics and Research Methods	4
SPMG 417	Sports Facilities, Design and Management	4

Minor in Sports Management

20 Credits Minimum

Required Courses:		
BUS 347	Introduction to Sports Management	4
BUS 411	Sports-Related Marketing	4
Take 12 credits from the following:		
BUS 431	Brand Development & Customer Exp	4
BUS 492	Internship	1-4
COMM 404	Broadcast Sports Production	4
PSYC 338	Sport Psychology	4
SOC 413	Global Aspects of Sociology and Sport	4

Courses

SPMG 322. Ethical & Legal Aspects of Sports. (4).
This course provides an extensive overview of legal principles and ethical issues in sport. This course introduces the different fields of law and issues (Federal Amendment, torts, contracts, labor relations) as they relate to sport. In addition, this course examines the basic philosophical issues concerning ethics and moral reasoning and how these issues relate to sport. Furthermore, this course is designed to help future sport administrators develop an ethical decision making process. Topics discussed include the concepts of morality, personal philosophy regarding social responsibility, theories of ethics, professional code of ethics, and legal requirements.

SPMG 411. Sport Analytics and Research Methods. (4).
The class will discuss the theory, development, and application of analytics in sports. Students will learn about the application of analytics in sports for purposes of in-game strategy, player performance, team management, sports operations, and fantasy competitions, among many other topics. The class will consist of lectures, guest speakers from the sports industry and academia, and culminate with a group project. Methods of research and research design for collecting data will also be discussed.

SPMG 417. Sports Facilities, Design and Management. (4).
Investigates the design and planning processes inherent in developing sustainable supporting facilities for organized sports at multiple levels including recreational, secondary school, post secondary, and professional venues. Includes investigation of components including playing fields and courts, site selection and development phases, facilities operation, safety and risk management, and development of contributing areas.

SPMG 488. The Business of Sports. (4).
This course offers a selective examination of various aspects of the business of sport. While the course is anchored on the concepts central to the study of sport management (e.g., Managerial Leadership, Finance and Economics, Marketing, Law, and Ethics), it also grows out of considerable work in the history of sports. So, expect lots of examples and case studies that are historical in nature. The major themes of the course are reflected in the course schedule and include the emergence of professional teams and leagues, tensions between amateurism and professionalism, strategies for developing athletic talent, the globalization of sports, the interaction of business and politics in sport, sports communication technologies, funding and design of sports facilities, and issues of race and gender.

SPMG 492. Internship. (2-6).

SPMG 497. Capstone. (4).
The Sport Management Capstone Course focuses on the process, production, and presentation of an applied research/data-based project for a property, cause, issue, or event concerning some issue regarding the management of sport. Sport Management Capstone Projects and the associated artifacts End Products created are tangible assets that can be shown to prospective employers as a demonstration of the application of students' practical sport management knowledge base, research and analytical skills, conceptual ability, writing skills, professionalism, and overall creativity. Prerequisite: senior standing.

Theatre and Dance

A degree in theatre arts prepares students for performances and technical production in live theatre, film, television and multimedia. California Lutheran University's Theatre Arts and Dance Department offers a series of fundamental and advanced courses in theatre performance, design and technology, music theatre, and dance. Students have numerous opportunities to participate in its Mainstage, Blackbox and Film and Video productions.

An average of four major live theatre productions, including musicals, are staged each year, along with performance opportunities in Improvisational Theater, original films and videos and the student-produced Blackbox series. Dance performances provide student dancers opportunities to showcase their talent. Students are encouraged to take positions of responsibility in all areas of production including publicity, sound, light, makeup, scene and costume design.

Every theatre arts major has the opportunity to direct or design a play production on campus. Cal Lutheran students have brought home national and regional awards from the Kennedy Center/American College Theatre Festival. Students are encouraged to work as professional theatre interns during the summer with Camp Shakespeare and the Kingsmen Shakespeare Company, a professional theatre company performing on campus. Students also intern at local art centers like the Thousand Oaks Civic Arts Plaza. The University's close proximity to Los Angeles provides an arena for students to explore a variety of screen, stage, television and musical presentations and connections with industry professionals.

Many Cal Lutheran theatre arts graduates have achieved careers in the competitive world of professional theatre, film, and television. The theatre arts curriculum also provides practical performance, management, communication, and work skills that relate to many other career fields. Cal Lutheran theatre arts graduates have been accepted into graduate theatre programs at universities throughout the United States.

Theatre Arts Scholarship

Visual and Performing Arts scholarships in Theatre Arts are available to those students who have a high school 3.0 grade point average and whose talent, interest, or experience indicates that they would contribute to our program. Awards are made to talented students whether they are theatre arts majors or non-theatre arts majors. Application for the scholarship and scheduling of an audition/interview should be completed prior to February 1. For further information, please contact the Chair of the Theatre Arts Department.

For Dance Minor Requirements see Dance

Bachelor of Arts in Theatre Arts

41 credits minimum, 31 credits upper division.

Performance Emphasis Requirements

TA 133	Acting I	4
TA 160	Production Lab: Costumes	1
or TA 161	Production Lab: Scenery	
TA 167	Design & Production for Stage & Media	4
TA 331	Advanced Scene Study	4
TA 333	Acting: Styles	4
TA 334	Stage Speech	2
TA 335	Movement for the Stage	2
TA 342	History of Theatre and Drama I	4
TA 343	History of Theatre and Drama II	4
TA 367	Light/Sound Design for Stage and Media	4
or TA 368	Scenic Design for Stage and Media	
or TA 369	Costume Design for Stage and Media	
TA 475	Directing I, (Content replaced by TA 477)	4
TA 477	20th Century Theatre-Capstone	4
Total Hours		**41**

Technical Theatre Emphasis Requirements

TA 133	Acting I	4
TA 160	Production Lab: Costumes	1
or TA 161	Production Lab: Scenery	
TA 162	Production Lab: Sound/Lighting	1
TA 163	Production Lab: Makeup	1
TA 167	Design & Production for Stage & Media	4
TA 342	History of Theatre and Drama I	4
TA 343	History of Theatre and Drama II	4
TA 360	Advanced Production Lab (2 credits total - 1 credit each)	1
TA 360	Advanced Production Lab	1
TA 367	Light/Sound Design for Stage and Media	4
TA 368	Scenic Design for Stage and Media	4
TA 369	Costume Design for Stage and Media	4
TA 477	20th Century Theatre-Capstone	4
Total Hours		**37**

Theatre Arts Major (Performance Emphasis) with additional Interdisciplinary Emphasis in Musical Theatre Requirements

12 credits minimum.

MUS 142	Course MUS 142 Not Found	1
or MUS 342	Course MUS 342 Not Found	
MUS 142	Course MUS 142 Not Found (two courses minimum)	1
or MUS 342	Course MUS 342 Not Found	
MUS 107	Music Theory I	2
MUS 109	Musicianship Skills I	1
MUS 111	Keyboard Harmony I	1
MUS 403	History of Musical Theater	2
TA 337	Dance for Music Theatre	2
TA 370	Acting for Music Theatre	2
Total Hours		**12**

Requirements for a Minor in Theatre Arts

21 credits minimum, 12 credits upper division.

TA 131	Beginning Acting	4
or TA 133	Acting I	
TA 160	Production Lab: Costumes	1
or TA 161	Production Lab: Scenery	
TA 342	History of Theatre and Drama I	4
TA 475	Directing I,	4
TA 477	20th Century Theatre-Capstone	4
One elective in theatre		4
Total Hours		**21**

Courses

Lower Division

TA 101. Introduction to the Theatre Arts. (4).
A fundamental survey of the theatre arts that explores playwriting, criticism, direction, acting, and technical and design aspects from concept to production. The class emphasizes the ways gender and diversity issues have affected and continue to affect theatre.

TA 102. Introduction to Dance. (4).
A lecture/activity course devoted to the study of dance in its many cultural and societal contexts. The course is designed to increase knowledge of the aesthetic, socio-cultural, and vocational roles played by dancers from the art form's historical roots to contemporary trends. Reading, writing, critical analysis and physical activity are included.

TA 104. Voice Development Broadcasting/Film/Comm. (4).
This course will enable students to develop voice acting skills, which can be applied to broadcasting, instructional film, animation, commercials and documentaries. The course will also provide an introduction to the history of the voice acting field and will provide information about professional opportunities. (cross-listed with COMM 104).

TA 112. Alexander Technique. (1-2).
Introduces students to the principles of the Alexander Technique and the application of these principles in their major areas. The principles develop increased mind and body coordination and are most commonly applied to acting, singing, public speaking, musical instrument performance and athletic performance. (cross-listed with ACTV 112).

TA 120. Aerobic Dance. (1).

TA 121. Folk and Square Dance. (1).

TA 122. Modern Dance I. (1).

TA 123. Modern Dance II. (1).

TA 124. Polynesian Dance. (1).

TA 125. Swing Dance. (1).

TA 126. Ballroom Dance. (1).

TA 127. Ballet. (1).

TA 130. Tap Dance. (1).

TA 131. Beginning Acting. (4).
An introduction to the fundamental techniques of acting as a basis for developing oral and physical communication skills. Individual and group participation is emphasized.

TA 133. Acting I. (4).
Emphasizes the study of external and internal approaches to characterization; students participate in the analysis and performance of monologues and scenes. For majors, minors or students with acting experience.

TA 152. Mainstage Productions. (1).
Credit may be received for significant participation in a Mainstage Theatre production. 152 is intended for freshmen and sophomores. 352 is intended for juniors and seniors.

TA 160. Production Lab: Costumes. (1).
An introduction to the tools and materials used in the production of costumes for the stage. Involves significant participation in the technical phase of stage production.

TA 161. Production Lab: Scenery. (1).
An introduction to the tools and materials used in the production of scenery and props for the stage. Involves significant participation in the technical phase of stage production.

TA 162. Production Lab: Sound/Lighting. (1).
An introduction to the tools and equipment used in the production of sound and lighting for the stage. Involves significant participation in the technical phase of stage production. Prerequisites: TA 160, TA 161, or TA 167.

TA 163. Production Lab: Makeup. (1).
Students explore the basic concepts and techniques of makeup used on stage and in media through lectures and practice and work on university productions.

TA 167. Design & Production for Stage & Media. (4).
An introduction to the theories and practices of design and production for the stage and in the studio, including venue structures, design conceptualization and drawing, color theory, visual styles, basic CAD drafting, light theory and theatre safety.

TA 222. Drafting/Computer Aided Drafting (CAD). (2).
The purpose of this course is to learn the basics of drafting for the theatre through not only traditional hand drafting, but also through the use of CAD programs such as AutoCAD and VectorWorks. This will be done through the introduction of drafting standards and principles with relation to hand drafting. Those principles will then be shifted into execution through the use of CAD.

TA 267. Introduction to CAD. (2).

TA 282. Selected Topics. (1-4).

TA 282C. ST: (core). (1-4).
Select Topic approved for core.

Upper Division

TA 305. Playwriting. (4).
This workshop course focuses on basic playwriting skills, with an emphasis on mastering plot, character, and dialogue development. Students will write and revise an original piece (cross-listed with ENGL 305).

TA 312. Alexander Technique. (1-2).
Introduces students to the principles of the Alexander Technique and the application of these principles in their major areas. The principles develop increased mind and body coordination and are most commonly applied to acting, singing, public speaking, musical instrument performance and athletic performance. (cross-listed with ACTV 312 and MUS 312).

TA 331. Advanced Scene Study. (4).
Advanced study of acting approaches focusing on 19th and 20th century plays. Students will analyze characters and perform scenes from selected realistic plays. Prerequisite: TA 131 or TA 133.

TA 332. Introduction to Improvisation. (1).
An introduction to the principles of improvisation as applied to acting technique. Students will perform comedy and serious improvisation.

TA 333. Acting: Styles. (4).
Intensive work in acting styles from various theatrical periods, including Greek, Shakespeare, Restoration, 20th century, and Avant-Garde. Prerequisites: TA 131 or TA 133 or consent of instructor.

TA 334. Stage Speech. (2).
The class will focus on the principles of vocal production for the stage, including alignment, respiration, phonation, resonance, and articulation. In addition, students will become familiar with the International Phonetic Alphabet, and utilize it for dialect work. Prerequisite: TA 131 or TA 133.

TA 335. Movement for the Stage. (2).
The study of the theories, applications and practices of body awareness, direction and movement as applied by actors in a variety of theatrical styles. Prerequisite: TA 131 or TA 133.

TA 337. Dance for Music Theatre. (2).
This course provides students the opportunity to learn and perform dance styles most common to musical theatre. Tap, jazz, character and basic partnering will be choreographed into three or four dances that will be performed at the end of the course. Course will also cover the history of dance in musical theatre in America. Prerequisite: Previous dance experience. (cross-listed with Mus 337).

TA 338. Beginning Mesiner Technique. (1).
Beginning Meisner is the study of an acting technique developed by actor Sanford Meisner based upon the Stanislavski system. The goal of his technique is to live truthfully in imaginary circumstances and may be applied to any style of acting. Course work will include application to monologue and scene work.

TA 339. Advanced Meisner Technique. (1).
Advanced Meisner is based on the teachings of Sanford Meisner. It builds on techniques from the beginning class adding character elements, shared circumstances and independent activities. This technique promotes living truthfully in imaginary circumstances and may be applied to any acting style. Prerequisite: TA 338.

TA 342. History of Theatre and Drama I. (4).
This course is the first half of a two semester historical survey sequence that provides students with a solid grounding in the development of theatre and drama from the ancient Greeks to the present. Prerequisite: ENGL 111 (cross-listed with ENGL 342).

TA 343. History of Theatre and Drama II. (4).
This course is the second half of a two semester historical survey sequence that provides students with a solid grounding in the development of theatre and drama from the ancient Greeks to the present. Prerequisite: ENGL 111 (cross-listed with ENGL 343).

TA 352. Mainstage Productions. (1).
Credit may be received for significant participation in a Mainstage Theatre production. 152 is intended for freshmen and sophomores. 352 is intended for juniors and seniors.

TA 360. Advanced Production Lab. (1).
Involves significant participation in the supervision and execution of scenery, costumes, props, sound, lights, or publicity in a University production. Prerequisite: TA 160, TA 161, TA 162 or TA 163.

TA 365. Makeup Design I for Stage and Media. (2).
Students explore the concepts of corrective makeup design through lecture and practice. Must also register for TA-366, MakeupDesign II Stage and Media.

TA 367. Light/Sound Design for Stage and Media. (4).
The study of lighting and sound as art forms with an emphasis on design concepts. Practical explorations of theories of light, color, and sound; the technology of production and control as applied to designing for the stage and media. Prerequisite: TA 167 or consent of instructor.

TA 368. Scenic Design for Stage and Media. (4).
Presents problems in scenic design, painting, perspective, and execution of models and working drawings. Prerequisite: TA 167 or consent of instructor.

TA 369. Costume Design for Stage and Media. (4).
A practical study of costumes for the stage. The course examines the history of clothing design, color theory, rendering techniques and design process from concept to execution. Students also explore the concepts of theatrical makeup and design through lecture and practice. Prerequisite: TA 167 or consent of instructor. (cross-listed with Art 369).

TA 370. Acting for Music Theatre. (2).
Musical Theatre Workshop is designed to develop a technique for musical solo and audition performances. The course will include song analysis, an acting approach to song and choice of material and technique. (cross-listed with MUS 370).

TA 403. History of Musical Theater. (2).

TA 431. Advanced Improvisation Techniques. (1).
The course is an advanced course in techniques and theories of improvisation. Students will hone improvisational skills in games and exercises and prepare for monthly performances. Audition/Permission of instructor required.

TA 432. Acting Shakespeare. (1).
This course is an advanced study of Shakespeare for actors. Students will develop an understanding of preparing Shakespearean characters and text for audition and performance. Prerequisite: TA 133 or permission of instructor.

TA 433. Acting for the Camera. (4).
Acting for the Camera provides students with techniques applicable to film and television performance. Students will apply skills to hands-on experience in front of the camera. Topics will include audition techniques, subtleties between film, television and commercial performance, and methods for transitioning from stage to camera. Prerequisite: TA 131 or TA 133.

TA 440. Creative Dramatics for Children & Youth. (3).
Surveys the techniques and resources for children to express themselves through informal dramatics within the classroom or recreational situation. Prerequisite: consent of instructor. (cross-listed with Educ 440).

TA 451. Creative Project/Portfolio. (1).
A faculty supervised and reviewed demonstration of significant theatrical creative work in portfolio, production or showcase format. Senior Theatre Arts majors only.

TA 452. Shakespeare. (4).
A study of selected plays and the sonnets of Shakespeare, with attention to theatrical, cultural and literary background. (cross-listed with ENGL 452).

TA 475. Directing I. (4).
The study of stage direction theory, play analysis, directorial practices and interpretation. Emphasis is placed on preparation and direction of scenes for class performance.

TA 477. 20th Century Theatre-Capstone. (4).
Further intense study of directing and dramaturgy for the stage covering 20th century drama. Included is the preparation and direction of a scene for class presentation.

TA 482. Selected Topics. (1-4).

TA 482C. ST: (core). (1-4).
Select Topic approved for core.

TA 490. Independent Study. (1-4).

TA 492. Internship. (1-4).
(graded P/NC only).

TA 496. Directed Research. (1-3).

Theology and Christian Leadership

In addition to the traditional religion major, the Religion Department offers a second major, Theology and Christian Leadership. Designed for students who want training in specific areas of lay ministry and professional ministry development, this interdisciplinary major includes religion courses as well as courses in other departments across the College. Students will select one of three areas for specialization:

1. Spirituality and the Arts
2. Not for Profit & Social Sector
3. Children, Youth, and Family Ministry

Bachelor of Arts in Theology and Christian Leadership

36 credits minimum.

RLTH 100	Religion, Identity and Vocation	4
or RLTH 300	Religion, Identity and Vocation	

RLTH 291	Intergrative Seminar Vocation & Leadrshp	3
or RLTH 292	Interfaith Storytelling and Organizing	
RLTH 493	Research and Methods	2
RLTH 494	Research and Writing	2
RLTH 492	Internship	2-4
Select any upper division religion course in the 300 or 400 range as an elective		4
RLTH 372	South Asian Thought	4
RLTH 373	Global Jesus	4
RLTH 374	Jews and Judaism	4
RLTH 375	Muslims in the Modern World	4
RLTH 379	Sikhism	4
RLTH 395	Lutheran Spirituality	4
RLTH 396	Christian Spirituality	4
RLTH 397	Islamic Spirituality	4

Minor in Theology and Christian Leadership

20 credits required

RLTH 100	Religion, Identity and Vocation	4
or RLTH 300	Religion, Identity and Vocation	
RLTH 291	Intergrative Seminar Vocation & Leadrshp	3
or RLTH 292	Interfaith Storytelling and Organizing	
RLTH 492	Internship	2-4
One Upper Division Religion Course of the 300 or 400 level (elective)		4
Select one of the following Emphasis courses:		4
RLTH 393	Spirituality and the Arts	4
RLTH 323	St. Paul, Identity & Community Org	4
RLTH 391	Children, Youth and Family Ministry	4
Select four credits from the following emphasis course:		4
Spirituality and the Arts		**4**
ART 342	Art and Psychology	3
ART 414	Philosophy of Art	4
ART 341	Visual Arts in Education	3
MUS 301	History and Literature of Music	3
or MUS 302	History and Literature of Music	
MUS 312	Alexander Technique	1-2
MUS 439	Creating Music	3
ENGL 302	Creative Writing: Fiction	4
ENGL 303	Creative Writing: Poetry,	4,
ENGL 304	Creative Writing: Creative Nonfiction	4
ENGL 305	Playwriting,	4,
ENGL 306	Course ENGL 306 Not Found	
TA 335	Movement for the Stage	2
TA 337	Dance for Music Theatre	2
Not for Profit and Social Sector		
BUS 251	Principles of Accounting	4
BUS 301	Communication for Managers	4
or COMM 306	Business and Professional Communication	
BUS 342	Marketing Research/Consumer Behavior	4
or BUS 375	Principles of Marketing	
or BUS 445		
BUS 361	Human Resource Management	4

or BUS 367	Behavior in Organizations	
or BUS 449	Managerial Leadership: Core Competencies	
or COMM 335	Interpersonal Communication	
BUS 381	Info Systems & Organization Design	4
or COMM 348	Website Design and Publishing	
BUS 422	Non-Profit Leadership	4
BUS 501	Introduction to Financial Planning	3
COMM 335	Interpersonal Communication	
Children Youth and Family Ministry		**4**
COMM 348	Website Design and Publishing	4
CRIM 340	Violence & Victimization	4
CRIM 350	Juvenile Delinquency	4
PSYC 304	Child and Adolescent Development	4
PSYC 305	Adult Development and Aging	4
PSYC 325	Theories of Personality	4
SOC 300	Sexuality and Society	4
SOC 320	Religion and Culture	4
SOC 370	Deviance in U.S. Society	4
TA 440	Creative Dramatics for Children & Youth	3
Total Hours		**144-139**

Courses

Lower Division

RLTH 100. Religion, Identity and Vocation. (4).
This course introduces the study of religion. It pursues questions concerning the history, meaning, and interpretation of religious texts and action, and the broader contexts in which religion evolves. In additional to selective focus on the Christian tradition, this course considers core values of Lutheran higher education such as pluralism, interfaith cooperation, and sustainability. Additional religious traditions may be included.

RLTH 291. Intergrative Seminar Vocation & Leadrshp. (3).
Through reading, group discussion, community engagement, and personal reflection, this course equips students to situate their own vocations and leadership styles in the context of communities to which they belong. Prerequisite: Permission of the Instructor.

RLTH 292. Interfaith Storytelling and Organizing. (2).

Upper Division

RLTH 300. Religion, Identity and Vocation. (4).
This course introduces the study of religion.It pursues questions concerning the history, meaning and intrepretation of religious texts and action, and the broader contexts in which religion evolves. In addition to selective focus on the Christian tradition, this course considers core values of Lutheran higher education such as pluralism, interfaith cooperation and sustainability. Additional religious traditions may be included. This course satisfied the Speaking Intensive Core requirement and the RTHL 100 core requirement. It is recommended for transfer students of junior and senior status who have not taken RTHL 100.

RLTH 315. Classical Hebrew Lang/Lit I. (4).
This course is the first of a two-semster sequence of study leading to a reading knowledge of the Hebrew Bible/Old Testament and onther ancient Hebrew texts. Basic Hebrew grammar and vocabulary are studies in conjunction with questons of the literary, religious, and linguistic culture of ancient Israel and early Judaism.

RLTH 316. Classical Hebrew Lang/Lit II. (4).
This course is the second of a two-semester sequence of study leading to a reading knowledge of the Hebrew Bible/Old Testament and other ancient Hebrew texts. Basic Hebrew grammar and vocabulary are studies in conjenction with questins of the literary, religious, and linguistic culture of ancient Israel and early Judaism. (Cross listed with Hebrew 316; this cuorse fulfills the Core 21 Language Requirement).

RLTH 317. Introduction to Biblical Greek I. (4).
A beginning study of biblical Greek that builds a foundation in the essentials of grammar, vocabulary, and translation. Includes readings in Mark and Philippians, as well as (in the second semester) discussion of theological implications.

RLTH 318. Introduction to Biblical Greek II. (4).
A beginning study of biblical Greek that builds a foundation in the essentials of grammar, vocabulary, and translation. Includes readings in Mark and Philippians, as well as (in the second semester) discussion of theological implications.

RLTH 320. Bible in the Ancient World. (4).
This course surveys biblical writings and examines them in their ancient social, political, and cultural contexts. Students learn comparative methods of literary and historical intrepretation with special attention to how reconstructions of the ancient world affect our understanding of these writings. The selection of biblical writings will depend on the instructor.

RLTH 321. The Bible and the Contemporary World. (4).
The Bible is an enduring expression of the Jewish and Christian faiths. It is put to myriad uses and read in a fascinating variety of ways in many different contexts. This course explores the Bible in comtemporary history, interpretation, social and political life, theology, and the arts, paying special attention to both its materiality/inconicity and the way its themes are engaged by communities around the world.

RLTH 323. St. Paul, Identity & Community Org. (4).
The Apostle Paul wrote letters that have influenced how people live in community for almost 2000 years. This course examines how Paul argues, encourages, negotiates, and embodies ways of bringing diverse people together in one community. Students then consider Paul's strategies in light of comtemporary identities that often divide us today (race, gender, religion, social status, education, and privilege) in order to analyze Paul's proposed solutions and to explore how communities today might navigate identity politics and community unity. This course imcorporates site visits and/or service learning assignments.

RLTH 328. Exploring the Qur'an. (4).
This course will expose students to the historical context of the Qur'an and the ways in which Muslims and non-Muslims interpret and inteface with the Qur'an. Student will read selections of the Qur'an and interpretations in addition to learning the role of the Qur'an in the lives of Muslims.

RLTH 331. Topics Medival/Early Modern Christianity. (4).
A survey of the emergence, growth, and development of the Christian movement from the time of the apostles to the disintegration of the Roman Empire in the West and to the fall of Constantinople in the East. This course will focus on Christianity as actually experienced and practiced by its earlier adherents in the multinational context of empire, and will look at textual, artistic, and material sources of evidence to gain a sense of the Christian past.

RLTH 332. Luther and the 16th Century Reformations. (4).
A survey of the development of Christianity in the post-Roman West, focusing on the rise of papacy, the development of distinctive Western Christian practices and doctrines, and the important role of the church in shaping European society. Special attention will be given to ways the medieval church handled difference and dissent, and to the reform movements of the later Middle Ages and the Protestant and Catholic reformations they brought about.

RLTH 334. The American Religious Experience. (4).
The course traces the historical role(s) of religion in the United States of America from Native American religious traditions, through the dominance of Christianity in its multiple expressions, to the modern-day reality of pluralism. Themes include but are not limited to the relationship between religion and politics; the importance of the U.S. as a land of (religious) opportunity; religion and money; pluralism as a religious idea and/or challenge; and social frameworks such as class, sports, gender and sexuality. Offered every fall.

RLTH 344. God in Christian Thought. (4).
An examination of traditional and contemporary Christian understandings of God, including the person and attributes of God, God's creative work, the divine-human relationship, sin, and the traditional problem of evil.

RLTH 347. Liberation and Theology. (4).
An introduction to theologies of liberation in Latin America and in Ventura County, This course asks how social, economic, and political readings of the Bible can be used to dominate and liberate communities.

RLTH 349. Queer Theology. (4).
This seminar course seeks to ask and respond to the theological questions within the context of queer theory. Moving beyond LGBTQ liberation theology, it seeks to (dis)integrate traditional understandings of the divine and consider the theological implications of identity, particulary by dis-/e-/rupting binaries such as good and evil, female and male, straight and gay, divine and human. Offered every other fall.

RLTH 350. Contemporary Christian Ethics. (4).
An introduction to contemporary Christian ethics and its relationship to the Bible and Christian communities; and thinking on such important personal and social issues as sexual behavior, human reproduction, racial and ethnic relations, the taking of human life, poverty and economic issues, and the environment.

RLTH 351. Global Ethics. (4).
A variety of issues have arisen which need to be examined from global perspective: political repression, social change, terrorism and war, economic globalization, immigration, human rights, health, and the environment. This course examines these issues from the perspectives of global religions, ethics, social theory, and social movements.

RLTH 353. Violence, Religion and Politics. (4).
A study of various forms of violence, such as sexual and domestic violence, political repression, terrorism and war. The course examines religious justification of and resistance to violence, using cases from diverse locations and religions.

RLTH 354. Theology and Business Ethics. (4).
This course applies ethical theory to business decisions within the context of theological reflection. With a strategic focus, the course will investigate the relationship between theological ethics and the economic concerns of managers. The course is particularly designed to help students become effective ethical agents by developing the skills to apply ethical principle to strategic business decisions. (cross-listed with BUS 354).

RLTH 355. Cooperation in Modern India. (4).
From colonial encounters to the contemporary period, this course traces the roots of twentieth century interreligious conflict in and between India, Pakistan, Bangladesh, and Sri Lanka. Based on the principles of the merergining field of Interfaith Studies, we will take an interdisciplinary approach to understand the underlying causes of conflict, as well as enacted and potential solutions. The course demands intensive reading, regular writing, seminar-style participation, and original research.

RLTH 356. Sexual Ethics. (4).
A study of sexual ethics from religious and examination of understandings of gender, sexuality, and sexual identities to discussion of issues such as marriage and family; contraception, abortion and reproductive technologies; sexual violence, and HIV/AIDS.

RLTH 360. Jesus in Film and History. (4).
A study of the historical person of Jesus through readings in the gospels, historical Jesus research from the past two centuries, and the various cinematic portraits of Jesus from the silent picture era to the present.

RLTH 365. Women and Religion. (4).
A consideration of women and women's issues within the context of the study of world religious traditions.

RLTH 372. South Asian Thought. (4).
Drawing on the religious traditions of South Asia (modern India, Pakistan, Bangladesh, and Sri Lanka, students will consider the varieties of the religious experience, historically and comparatively represented by the adherents of these religious communities.

RLTH 373. Global Jesus. (4).
Who is Jesus? This course begins with the four gospel accounts of Jesus' life and ministry to learn and how various first century jewish and Roman contexts shaped specific portrayals of Jesus. Then we examine contemporary global prespectives on Jeus. Students research and analyze how Jesus is portrayed in the art, literature, politics, cultures and social constructions of 5-7 non-western countries. Students consider the ways in which cultures shape contemporary theological portrayals of Jesus.

RLTH 374. Jews and Judaism. (4).
A study of the elements of traditional Judaism in biblical, rabbinic and modern times.

RLTH 375. Muslims in the Modern World. (4).
In this introductory course, students learn the history of Islam from the Prophet Mohammed and the roots of the religion in Arab culture, to the spread of Islam as a global religion across many cultures. Students will analyze the variety of social, political, and cultural ways in which Muslims live out their faith around the world and in the U.S. Global Emphases may change year to year but will include 3-5 different geographical areas such as: Egypt, Asia, Turkey, Africa, Spain, Indonesia, and Europe.

RLTH 376. Islam in America. (4).
This course provides an introduction to the presence of Muslims in the United States, starting with a historical survey spanning African Muslim slaves brought in the antebellum period to anti-Muslim rhetoric in 21st century, paying attention to current events in the US involving Muslims. We explore American Muslim communal and demographic diversity, political and civic organizations, political participation, religious practices as well as family, education, music, art, and cultural diversity. Special attention is paid to questions of gender, race, and citizenship, as well as to issues of religious authority and authenticity. The course engages this material within the contexts of both American religious history and Islam as a global tradition.

RLTH 378. Asian Religions in the United States. (4).
This course introduces students to the history of Buddhism, Hinduism, Sikhism and Jainism as religions that originated in the Indian Subcontintent (aka, South Asia; modern India, Pakistan, Bangladesh, and Sri Lanka)), as well as the impact that Islam had on the same. It then traces the migrations of these faiths around the world and their practitioners to the shores of the United States. Drawing on the religious traditions of South Asia, students will consider the varieties of the religious experience, historically and comparatively represented by the adherents of these religious communities. The course will focus on the lived realities of these traditions in the United States. Class period will entail a combination of discussions and lectures intended to illuminate those texts.

RLTH 379. Sikhism. (4).
The Sikh religion, or Sikhism, offers students an educative example of how a religious tradition emerges in the full light of history to become one of the youngest of the "world religions". In this course, students will share in the tradition's intellectual, spiritul, and cultural heritage while exploring the question of how to study religions. By the course's end, students will be able to recapitulate major moments in the tradition's history, and also offer informed comment on its future.

RLTH 381. Religion, Food and the Environment. (4).
Humans eat food. Human cultural and religious phenomena relate intimately to patterns of eating-which is why anthropologists, sociologists, historians, and scholars of religions have long been fascinated with the relationships between sacred stores and ritual practices involving food. This course takes an interdisciplinary approach to studying the intersections between religion, food, and environments. Students will address questions about religious law, mythic narratives, ritual practice, symbolic meaning, identity formation, and animal and ecological ethics, as we explore Jewish kosher observance, Christian Eucharistic practice, Islamic halal, and other kinds of religious eating. Special attention will be given throughout the course to issues of race, ethnicity, and gender across multiple social identities.

RLTH 382. Religion and Public Life. (4).
In modern democracies there is often a provision for religious freedom alongside an exception that the public be secular. Students will explore religious freedom and freedom of conscience in light of the First Amendment and Anglo-Protestant bias. Governed by seminar practices of writing, speaking, and listening, students will examine case studies and constitutional debates; describe and assess the practice of religion in public life; and explain the dynamics of religious pluralism and secularization.

RLTH 384. Religion and Ecological Ethics. (4).
Religion and ecological ethics is the challenging work of 1)gaining clarity about our positions, attitudes, and assumptioins with respect to "the environment" by drawing from the disciplines of both religious and philosophical ethics; 2) developing rigorous ways to think about complex issues such as climate change, environmental injustice, ethical treatment of animals, farming and food justice, and others; and 3) outlining practical approaches to local/global issues and short/long term actions. It also demands that we think carefully about how our conceptions of "nature," "environment," "wilderness," etc. shape our attitudes and practices.

RLTH 390. Servant Leadership. (4).
The course will investigate how the deepest meaning of leadership is embodied in the commitment to the grouwth and well-being of people and the communities in which they belong, all the while meeting organizational purposes and ends.

RLTH 391. Children, Youth and Family Ministry. (4).
Through course readings, practica, guest speakers, and self-reflection, students will be introduced to the theologies, approaches, and organizational models of ministry with children, youth, and families. Students will investigate the analyses of others through written assignments and exams and will construct their own articulations of the purpose and practice of ministry. By hosting guest speakers, practicing theological skills, and locating resources, students will relate their own identities and leadership styles to the identities and leadership styles of fellow classmates and scholar-practitioners.

RLTH 392. Christian Liturgy and Worship. (4).
An introduction to the Christian liturgical tradition, particularly that of Western Christianity. It will include some comparison with non-Christian religious customs, and will give importance to the development of worship in the Protestant traditions. The course's approach is historical, but it may also include some practical training if appropriate to student needs. Christian hymnody and liturgical music will also be introduced, with an emphasis on the distinctive Lutheran contributions in those areas.

RLTH 393. Spirituality and the Arts. (4).
This course explores the use of the arts in (Christian) spirituality, focusing on visual arts, literature and poetry, music, and other forms of special interest to students. We will consider how both works of art and the practice of artistic creation and performance become iconic or transparent to human spiritual experience.

RLTH 394. Jewish Spirituality. (4).
Jewish Spirituality.

RLTH 395. Lutheran Spirituality. (4).
This course examines key figures and developments n the lively history of Lutheran spirituality. The first half of the course centers in Luther's spirituality and glimpses of later European Lutheran spirituality of Dietich Bonhoeffer and expanding inth U.S., global and ecological Lutheran voices.

RLTH 396. Christian Spirituality. (4).
This course provides an introduction to diverse forms of Christian spirituality through attention to themes of solitude, community, Sabbath, prayer, discernment, social justice, spiritual practice, and ecology. In this course students will critically engage a range of primary and secondary texts.

RLTH 397. Islamic Spirituality. (4).
Spirituality is an integral of every religious tradition. In recent years, Sufism, or a deep historical tradition of Islamic spirituality, has often been considered separate from Islam itself. This course investigates the historical origins of Sufism and its transnational and local dynamics in the modern world.

RLTH 398. Sacred Space and Ritual. (4).
This course introduces students to theories of space and place applied in the study of religion. Using case studies from one or more non-western religious traditions, studens survey sacred spaces in historical and contemporary global contexts. Themes covered may include places of worship and pilgrimage, religious rituals, shared and contested sacred spaces, and the role and construction of gender in sacred spaces. The non-western religious traditions covered in this course will depend on the specialization of instructor.

RLTH 412. Christian Art in the Middle Ages. (4).
Students survey the religious art of the Middle Ages - primarily Christian, but also some early Jewish and Islamic developments - identifying significant works of architecture, sculpture, and painting, while exploring Christian concepts and beliefs, liturgy and worship. Students consider art in relation to cultural needs, examining works in historical, religious social, economic, and political contexts. Students become familiar with visual forms, styles, narratives, and symbols of Christian art, as well as with broader, unifying themes shared by different cultures. The course content covers twelve centuries and geographically spans the Western edges of Europe to the Middle East. We also pay attention to instances of cultural exchange (the circulation of ideas, art forms, and artists through Europe and the Middle East). (cross-listed with ART 412).

RLTH 485. Travel Seminar: Medival Celtic Christian. (4).
This course investigates medieval Celtic Christianity. Any time a religious tradition is introduced into a culture, both the tradition and the culture are changed; this is what happened when Christianity encountered the Celtic cultures of the lands off the northwest edge of what we now call Western Europe. Some of the changes would have a profound influence on Christianity far beyond the time and space in which they arose, and that influence has experienced a renewed popularity for many Christians today. Our overarching goal in this class is to discover possible answers to the question: "Is there something that we can call 'Celtic Christianity'?" If the answer to that question is "yes," we will follow it up with a second: "What does Celtic Christianity look like, and how can we identify it?".

RLTH 490. Independent Study. (1-4).

RLTH 492. Internship. (2-4).

RLTH 493. Research and Methods. (2).
This course serves as part one of the capstone sequence for Religion and Theology and Christian Leadership Majors. In this course majors of junior and senior standing meet in a seminar style cohort to identify, develop and articulate their capstone research project proposal. Students will explore methodologies in the field of religion and practice the following skills: daily writing weekly planning sessions, exploring, articulating, testing and developing a research topic, and cultivating a communal approach to giving and receiving feedback on their research.

RLTH 494. Research and Writing. (2).
This course serves as part two of the capstone sequence for Religion and Theology and Christian Leadership Majors. In this course, majors of junior or senior standing meet in a seminar style cohort to research, write, and present their capstone research project. Students will practice the following skills; daily writing, weekly planning sessions, writing multiple drafts, and cultivating a communal approach to giving and receiving feedback with their research cohort and faculty instructor.

RLTH 496. Directed Research. (2-4).

University

Courses

Lower Division

UNIV 101. First Year Seminar. (1).
New Student Orientation seminar in which students learn about college life, resources on campus, and skills needed for maximizing their college experience, in addition to creating a support network of peers, faculty and staff. ?.

UNIV 102. Introduction to Personal Finance. (1).
The course is designed to introduce students to start a financial journey. There are four sections in this course to help students prepare to earn and to spend money through your life. The first section of the course provides an overview of the financial journey and necessary tools. The second section will build the blocks for the financial journey such as earning, tax, credit scores, checking/saving accounts, loans, housing decision, and savings. The third section will address investment and risk management. The last section helps students plan for the future by building a Financial Plan. Prerequisite: None.

UNIV 207. Mentor Leadership. (1).
The Peer Advisor component of the first year of transfer student experience represents an ideal opportunity to positively influence undergraduate students' academics and personal success. Peer Advisors impact student development by supporting the acquisition and application of academic strategies, creating familiarity with campus resources and their appropriate use, and creating a sense of community at CLU in the first year. This important role can also be defined as a mentor. This course is designed to teach Peer Advisors the skills necessary to become mentors, and provides them with information and opportunities to help new students with their transition to college. We will examine various theories, and style types while honing in on leadership styles that are often found in mentors.

UNIV 208. Pre-Health Seminar. (1).
This course is designed to have students investigate topics in the medical field through written assignments, discussions and in-class active exercises and reflect on the student's own commitment and efforts towards a career in the health sciences. Also, the course highlights resources and provides detailed guidance on how to prepare, apply, and be successfully admitted to graduate programs in the health sciences, including planning for academic courses, co-curricular activities such as clinical volunteer commitments, and standardized tests. The students complete 10 written assignments that are researched, cited and explore their motivations for a career in, and knowledge of, medicine.

UNIV 282. Selected Topic. (1-4).
Selected Topic.

Upper Division

UNIV 400. Current Topics in Internal Medicine. (1).
This seminar provides an in-depth look at topics and current practices in the field of internal medicine. This class is intended for Pre-Med students that have complete their introductory Biology courses and Organic Chemistry. Physicians from UCLA Health will be giving seminars on current topics in medicine ranging from preventative care, disease, treatments, policy, ethics and the economics of healthcare. Students will attend seminars and write responses to prompt related to the seminar content.

UNIV 482. Selected Topic. (1).
Selected Topic.

UNIV 496. Directed Research. (3.00).

Visual Arts

VISUAL ARTS

The visual arts play a significant role in human civilization–as a form of personal and cultural expression, entertainment, historical documentation and information-sharing. Cal Lutheran's Department of Visual Arts celebrates the variety of forms and approaches–from the fine arts like painting, drawing and sculpture, to the digital arts like graphic design, animation, special effects, game design and photography. In addition to hands-on, project-based art that nourishes self-expression and fosters the imagination, you can study art history, art education, along with theory and design to enhance your critical thinking in the context of the creative process. When you study in Cal Lutheran's Department of Visual Arts, you'll gain skills and experiences to prepare you for visual-based occupations in education, advertising, game design, graphic design, digital special effects, exhibition, publishing or other creative industries.

For majors under this department and course descriptions please refer to Art (p. 72) and Multimedia (p. 200)

Bachelor's Degree for Professionals

The Bachelor's Degree for Professionals is an expression of California Lutheran University's commitment to life-long learning. The Bachelor's Degree for Professionals program offers the same high quality education that is found in the traditional daytime program, but is tailored to meet the special needs of working adult students. The program's creative learning environment, liberal arts and professional curriculum, dedicated academic counselors, and exceptional faculty offer a unique opportunity for the post-traditional learner who is seeking personal and professional advancement and development.

Admission

Who May Apply?

The Bachelor's Degree for Professionals program has set the following minimum admission requirements. You may apply if you:

1. have graduated from high school or possess a G.E.D. certificate
2. have completed 24 transferable semester hours of college credit
3. have a cumulative grade point average of at least 2.25
4. have 2-3 years of work or extensive volunteer/internship experience, must include a resume

Current or previous California Lutheran University traditional undergraduate students desiring to transfer to the Bachelor's Degree for Professionals program will be considered on a case-by-case basis. The stated application process must be followed and all minimum guidelines met. Additionally in order to be considered for admission to the Professionals program, traditional undergraduate students must have at least 25% of their major and/or CORE requirements left to complete prior to admission to the program.

How to Apply

1. Schedule an appointment with an admission counselor for a preliminary transcript evaluation of unofficial transcripts and academic advisement;
2. Complete an on-line application (https://www.callutheran.edu/professionals/admission/apply.html);
3. Have official transcripts from all previously attended colleges sent to the Transfer Admissions office.

At the time of your admission interview or shortly thereafter, you will be notified of the admission decision. If admitted, you will be sent information about registration procedures. Upon your acceptance, transfer credits from other colleges will be officially evaluated by the registrar's office and the results sent to you before the end of your first term.

Readmission of Former Bachelor's Degree for Professionals Students

If you were formerly enrolled as a Bachelor's Degree for Professionals student (or an Adult Degree Evening Program student) but have not attended four or more consecutive terms and were not on an approved extended leave of absence, you must apply for readmission by submitting an updated application form and meeting with an admission counselor. The curriculum requirements in effect at the time of your readmission will apply.

Academic Policies

Please see the main catalog for all academic policies (p. 48). Below are policies that are specific to the Bachelor's Degree for Professionals Program.

Alternatives for Acquiring Credit

- College Level Examination Program (CLEP) (see Admission (p. 10))
- Credit by Examination (see Academic Programs (p. 39))
- Independent Study (see Academic Programs (p. 39))

Course Load

Since most Bachelor's Degree for Professionals students are also employed, a normal course load is considered to be two courses per term (six to eight units). The number of units you take, however, is up to you as long as you don't exceed 10 units per term. If you would like to take more than 10 units per term, you must seek the approval of your academic counselor and the Director of the Bachelor's Degree for Professionals program. Please contact the Financial Aid office regarding questions related to course load and financial aid.

Concurrent Enrollment

If you are admitted as a Bachelor's Degree for Professionals student and wish to enroll in courses within the traditional undergraduate Cal Lutheran program or in another college or university, you must obtain approval from the Director of the Bachelor's Degree for Professionals program prior to enrolling in the course(s). Normally, requests for concurrent enrollment at another institution will not be granted unless you demonstrate a compelling need to take the course at that location.

Leave of Absence

By notifying their academic counselor, students may request to take a leave of absence for up to one year/four consecutive terms. Under certain circumstances, students may be approved to take an extended leave of absence, totaling two years/eight consecutive terms. Students need to speak with their academic counselor to begin the request process. Students exceeding the approved time for their leave of absence will be inactivated from the program and will have to reapply to be readmitted. The curriculum requirements in effect at the time of readmission will apply.

Financial Information

Tuition and Fees

Refer to Callutheran.edu/financial-aid/tuition-fees/ (http://www.callutheran.edu/financial-aid/tuition-fees/) for current tuition and fees.

Tuition is due and payable on or before the first class meeting unless you have made alternative payment arrangements with the Student Accounts personnel in the Business Office. Late payment fees are assessed on delinquent accounts. Students with delinquent accounts cannot register for the new term until fees for the prior term have been paid. All financial obligations must be met before academic records (diplomas, grade reports and transcripts) will be released. You may contact the Business Office or refer to WebAdvisor for information regarding your student account status.

Student Status

Student enrollment status definition for Bachelor's Degree for Professionals:

- **Full-time** = six units or more
- **Three-quarter time** = five units
- **Half-time** = three units

Bachelor's Degree for Professionals students must be at least half-time (three units) to be eligible for federal loans. Limited financial aid may be available for less than half-time status.

Financial Assistance

A financial aid counselor is available to help you apply for financial need and discuss various forms of financial assistance. Please click on the following link for various forms of financial assistance: https://www.callutheran.edu/professionals/financial-aid/types-of-aid-html (https://www.callutheran.edu/professionals/financial-aid/types-of-aid-html/).

How to Apply for Financial Aid:

1. Complete the following forms:
   a. FAFSA (Free Application for Federal Student Aid) available online at www.fafsa.gov (http://www.fafsa.gov)
   b. Bachelor's Degree for Professionals Application for Student Financial Aid online at www.callutheran.edu/financial_aid/forms/ (http://www.callutheran.edu/financial_aid/forms/)
2. Turn in all completed financial aid forms and necessary supporting documentation to the Financial Aid Office by the deadlines indicated.
3. Accept the financial aid offered, in whole or part, by the reply date indicated on your award letter.
4. If borrowing loans, you will be required to complete the loan application (Master Promissory Note) and Entrance Counseling process if needed.

You must be officially admitted to the University and registered for classes to receive financial aid.

Return of Funds Policies for Federal Aid

Students who receive federal aid[1] are subject to federal return of funds policies. If the payment period for which a student received funds (term) is not completed and the student withdraws from all courses, then the student is only eligible for a percentage of the aid equal to the percentage of the period completed. The following is an example of this concept:

Krista enrolls in the fall term but drops out before the end of the term. She actually completes 35 percent of the term and, therefore, is only eligible for 35 percent of the aid awarded for that period (amount earned).

If the aid earned is more than the amount that was actually disbursed to the student (credited to their account), then California Lutheran University will offer the student a post withdrawal disbursement according to certain conditions such as whether or not a valid Student Aid Report has been received, the status of the verification process, etc.

If the amount disbursed is more than the amount earned, then California Lutheran University must return the amount unearned to the U.S. Department of Education. The student will then be responsible for any balance owed to California Lutheran University caused by the return of funds.

For additional information, please contact the Office of Financial Aid at (805)493-3115.

[1] Federal aid covered by the Return of Funds policies includes the Unsubsidized Stafford Loan, Subsidized Stafford Loan, and Pell Grant.

Degree Requirements

General Degree Requirements

The requirements for the degrees of Bachelor of Arts and Bachelor of Science are designed to provide you with a broad program of liberal arts study and an opportunity to concentrate in the field of special interest. It is intended that at the undergraduate level the emphasis be placed on acquiring a broad education in many subjects, leaving highly specialized and professional studies to the graduate school level.

Bachelor's Degree for Professionals academic counselors will assist you in preparing an individualized degree plan; nevertheless, you are ultimately responsible for seeing that your academic program includes all requirements for graduation.

1. Students must complete 124 semester credits. At least 40 of these must be upper division, that is, junior or senior level courses (courses numbered 300-499).
2. 30 of the final 40 credits must be completed in residence. This requirement cannot be met using credit by examination, CLEP or community college.
3. Students must earn at least a 2.0 grade point average for all CLU work and also achieve a 2.0 on all combined CLU and other college work.

The number of credits applied toward any baccalaureate degree may be limited by the following:

1. Credits used to meet the requirement for a bachelor’s degree may not be used for a credential or master’s degree.
2. No more than three semester credits combined of physical activity (ACTV) and intercollegiate athletics (ATHL) may be counted toward the 124 credits required for graduation. (Exercise Science majors may count no more than seven credits.)
3. Credit in career/work experience may be earned at Cal Lutheran, but no more than eight credits are applicable toward the minimum requirements for the degree. Students may receive a maximum of four units in a semester (or summer).
4. A maximum of 20 semester credits of transfer online, correspondence and/or extension work may be counted toward the degree. Correspondence and extension work may not be included in the major. To be accepted, the correspondence and extension course work must be applicable to a bachelor’s degree at the granting institution. Approved transfer online courses are only those that are approved by the department in which credit will be granted and which include proctored exams. Approved online courses accepted in transfer may be included in the major.
5. A maximum of 32 credits by exam may be applied to the degree; eight upper division units can be included in this total. Credit by exam includes, but is not limited to, institutional exams, CLEP and Advanced Placement (AP) exams.
6. A total of 40 combined credits obtained from credits by exam and online/correspondence may be applied toward the degree.
7. At least 75 percent of the required courses for a major or minor must be unduplicated with any other major or minor.
8. Bachelor's Degree for Professionals students may earn no more than four units of Independent Study in any given semester and may count no more than eight units of Independent Study credit toward the total number of units required for the bachelor’s degree
9. A single course may satisfy a maximum of four (4) graduation or program requirements.
10. Petitions for exceptions to policy must be made within **one year of the missed deadline for the occurrence** requiring an exception. This limit includes petitions for such requests as late adds and late drops of courses.

Major Requirements

All students must complete an academic major as part of the requirements for the baccalaureate degree. Requirements for an academic major are as follows:

1. Completion of at least 32 credits in an area of concentration for the Bachelor of Arts or at least 36 credits for the Bachelor of Science.
2. 33% of a major's upper-division required courses and required electives must be taken in residence at Cal Lutheran. Internships and independent studies are excluded from this calculation unless they are required for the major.
3. A minimum grade point average of 2.0 is required in the major. Required support courses are not included in the major GPA.
4. At least 75 percent of the required courses for a major must be unduplicated with any other major or minor.

Minor Requirements

Minors consist of a coherent set of related courses in a particular disciplinary or interdisciplinary area. An academic minor is not required for a degree; however, if a student elects to earn a minor, he or she

1. must complete the specified 15-20 credits within the minor desired;
2. may not major and minor in the same department;
3. must complete at least eight to 12 credits in upper division courses and at least two of those courses must be completed in residence at Cal Lutheran;
4. must achieve a minimum GPA of 2.0;
5. may not count internships toward the minor unless specifically required by the minor;

6. may use only one independent study course to meet minor requirements;
7. at least 75 percent of the required courses for a minor must be unduplicated with any other major or minor.

General Education Requirements

You may have transferred some or all of the required general education courses from previous course work. However, if you still need any of the courses, you will find them as part of the Bachelor's Degree for Professionals curriculum. General education includes:

1. **Proficiencies**
   a. ***Written Communication***:
      i. ENGL 110
      ii. ENGL 111 –Freshman English with a grade of C or better
      iii. One upper division writing intensive course
   b. ***One speaking intensive course***
   c. ***Mathematical Reasoning:***
   One course (beyond intermediate algebra) or satisfactory score on the designated exam. Depending on the student's score on the math placement test, the student may be required to take MATH 110 Intermediate Algebra as a prerequisite for higher level courses.
2. **Perspectives**
   a. ***Humanities:***
   One religion course and three additional courses selected from religion, literature, philosophy, history or humanities.
   b. ***Social Sciences:***
   Two courses in different disciplines selected from specifically approved cultural anthropology, criminal justice, economics, cultural geography, political science, psychology, and sociology courses.
   c. ***Natural Sciences:***
   One course with a lab component: physical anthropology, astronomy, biology, chemistry, physical geography, geology, physics. Senior transfers (90 or more credits) who have completed two science courses without laboratory components will have met the natural sciences requirement.
   d. ***Visual and Performing Arts:***
   One course, at least two credits.
3. **Cultures and Civilizations***
   a. ***U.S. Diversity*** – one course
4. **Integrated Studies***
   a. ***Integrated Studies Capstone*** – one course (This course is part of the requirements for your major and may also be used to complete a perspectives requirement.)

NOTE: Students transferring from California community colleges who, prior to transfer to Cal Lutheran, have fully satisfied the Intersegmental General Education Transfer Curriculum (IGETC) need only complete the religion and oral communication requirements to meet the Bachelor's Degree for Professionals general education requirements. Students who do not complete the IGETC will follow the Cal Lutheran's general education requirements as stated above.

NOTE: Students transferring from California community colleges who, prior to transfer to Cal Lutheran, have fully satisfied the CSU GE-Breadth Certification need only complete one upper division religion course and a third humanities course (if three humanities courses are not completed as part of the CSU GE-Breadth) to meet the CORE-21 general education requirements.

* The courses marked with an asterisk are not additional credit or course requirements. They are content requirements which may be met through a selection of courses which also meet major, elective, or other core requirements.

Course Additions

Students may not add courses after the add/drop deadline. After the first class session, all late adds require instructor permission. Students will not be added to closed or waitlisted courses. Contact your academic counselor to discuss.

Graduation

Students must file out an Application for Degree and submit an accompanying graduate fee (regardless of commencement ceremony participation). Students must also meet with their academic counselor for a required graduation appointment, submit a Graduation Agreement, and adhere to all other University graduation policies.

Accounting - Bachelor's Degree for Professionals

Bachelor of Science in Accounting

76-78 credits in major 60 being upper division.

BUS 251	Principles of Accounting	4
BUS 252	Managerial Accounting	4
BUS 352A	Intermediate Accounting	4
BUS 352B	Intermediate Accounting II	4
BUS 353	Accounting Information Systems	4
BUS 367	Behavior in Organizations	4
BUS 374	Business Law	4
BUS 391	Principles of Finance	4
BUS 451	Cost Accounting - Computer Application	4
BUS 452	Tax I	4
BUS 453	Auditing	4
BUS 454	Advanced Accounting	4
BUS 455	Ethics for the Accounting Professional	4
BUS 462	Tax II	4
BUS 484	Senior Seminar in Accounting - Capstone	4
ECON 311	Statistical Methods	4
Economics		
ECON 203	General Economics	4
or		
ECON 200/201	Introduction to Micro-Economics and Introduction to MacRo Economics	6
Communications		
BUS 301	Communication for Managers	4
or COMM 306	Business and Professional Communication	
Math		
MATH 245	Applied Calculus	4

Courses

Lower Division

BUS 151. Introduction to Business. (4).
Students will have instruction in various business and economic topics (Marketing, Management, Finance, Personal Financial Planning, Economics, etc.) to better prepare them for making informed choices in selecting their ultimate degree and emphasis areas of study. Students will benefit from an introduction to advising and academic guidance. They will have an opportunity to meet with and be instructed by various faculty members from the school of business on a "guest professor" basis. Students in this course will participate in benchmarking exercises to contribute to outcomes assessment reports.

BUS 251. Principles of Accounting. (4).
An introduction to the basic assumptions that underlie modern accounting: the principles, procedures and methods applied in the preparation of financial statements.

BUS 252. Managerial Accounting. (4).
An examination of how accounting data is used, communicated and interpreted for internal use. Emphasis is placed on planning, control and decision making, particularly in a manufacturing setting. This course will include instruction in and application of computer spreadsheet programs. The student will be required to use word-processing and spreadsheet programs for work submitted during this course. In addition, an introduction to and use of Internet research resources are included in the course syllabus. Prerequisite: BUS 251.

BUS 253. Financial Info in Bus Organization. (4).
This course is designed for non-business majors who are not required to take Principles of Accounting or Managerial Accounting. The intent of the course is to provide students with sufficient background in accounting and finance to allow them to function more effectively in their chosen careers. To that end, the course will cover the basics of financial accounting and managerial accounting, with some additional material typically covered in finance and economics courses.

BUS 255. Environment of Business. (4).
This course provides an introduction to and an overview of topics and disciplines addressed and taught in a typical Schools of Management curriculum. The topics are important background for the non-business major. It is an introductory-level treatment of course topics required in business emphasis areas: Accounting, Finance, Marketing, Management, Economics, and others. Career Services on campus are the basis for assignments with a focus on career readiness. Spreadsheet software is taught and used for completing assignments for the course. Importantly, expectations and standards for further coursework will be communicated so students are better able to set goals for success in their academic pursuits and chosen career.

BUS 257. Practicum in Accounting. (2).
Basic principles of accounting will be presented as a review for a solid foundation in GAAP and accounting. The course will include theory, as well as the completion of hands on financial statements using Excel and other software.

BUS 260. Personal Financial Planning & Risk Mgmt. (4).
Focuses on the general principles of financial planning, including: the financial planning process, the regulatory and ethical environment, consumer protection law, personal financial statements, budgeting, debt financing, educational planning, and client communication. Also provides an in-depth introduction to risk management and insurance, including life, health, disability, long-term care, property and casualty, umbrella liability and annuities.

BUS 275. Intro to Advertising. (3).
An exploration of advertising from the management-marketing, consumer and communications creativity viewpoint. Focus is on general principles and broad perspectives with particular emphasis on strategy and how advertising fits into the total sales program.

BUS 282. Selected Topics. (1-4).

BUS 282C. ST: Select Topic (core). (1-4).
Select topic approved to satisfy core.

Upper Division

BUS 301. Communication for Managers. (4).
The study of business communications methods with emphasis on planning, organizing, preparing and presenting major reports. Significant use of computer skills will be included, as well as design and structure of communication materials for the highest levels of impact.

BUS 330. Fundaments of Sustainable Business. (4).
The course provides comprehensive introduction to the sustainability concept & its major themes such as renewable resources, clean enerby & fuel orgnizations and other stakeholders in building the organizations's business model & strategies for a sustainable future is examined. Student explore opportunities for individuals & companies.

BUS 341. Prin Estate & Income Tax Planning. (4).
Examines estate planning documents, estate tax minimization strategies, the transfer of property via probate, titling, contracts, trusts and gifting, and forms of business entity. The coverage on federal income tax planning will primarily be focused in the following three areas: tax-planning considerations, tax computations and tax-planning strategies.

BUS 342. Marketing Research/Consumer Behavior. (4).
A detailed focus on marketing research, strategy, statistical techniques and decision-theory concepts. Includes the nature of the influences affecting consumer behaviors, values, lifestyles, market segmentation, motivation and attitudes that form consumer marketing decisions. Prerequisite: junior standing.

BUS 343. Employee Benefits & Retirement Planning. (4).
This course will provide an understanding of how corporate and individual retirement planning integrates together for the benefit of the business owner, executive and employee. Topics include retirement needs analysis, social security benefits, qualified and non-qualified plans, rules governing qualified plans, individual retirement accounts, retirement income planning and employee benefits.

BUS 344. Copywriting/Storyboarding Broadcast Adv. (4).
Designed as a "hands-on" communication and business course, this course provides an overview of broadcast media and develops skills in basic advertising/public relations campaign production techniques including scripting, copywriting and storyboarding. (cross-listed with COMM 344).

BUS 347. Introduction to Sports Management. (4).
Includes (a)sport law - impact of the legal process on sport, (b)sport economics - how the price and market system, income and employment affect the sport enterprise, (c)sport marketing/promotion - effect of marketing and promotion on the economic well-being of the organization,(d)sports administration - overview of the total responsibilities of the sport administrator, including planning, organizing, staffing, directing, and controlling the sports enterprise.

BUS 350. Data Communication and Networks. (4).
Includes a discussion of distributed data processing, communication techniques, wide-area and local-area networks, integrated services digital network, open-systems interconnections, security and network management.

BUS 352A. Intermediate Accounting. (4).
Includes detailed coverage of accounting theory and practice as applied to the corporate form of business. Topics include income statement, earnings per share, income tax allocation, compound interest, revenue recognition, price-level accounting, an introduction to fund accounting and a thorough treatment of balance sheet accounts. Prerequisites: BUS 251 (for BUS 352A), BUS 352A (for BUS 352B).

BUS 352B. Intermediate Accounting II. (4).
Includes detailed coverage of accounting theory and practice as applied to the corporate form of business. Topics include income statement, earnings per share, income tax allocation, compound interest, revenue recognition, price-level accounting, an introduction to fund accounting and a thorough treatment of balance sheet accounts. Prerequisites: BUS 251 (for BUS 352A), BUS 352A (for BUS 352B).

BUS 353. Accounting Information Systems. (4).
This is an introductory course in accounting information systems. The course is designed to cover five major themes: 1) Conceptual foundations of accounting information systems 2) Control and audit of accounting information systems 3) Accounting information systems applications 4) The REA data model 5) The systems development process. Pre-requisite: BUS 252.

BUS 354. Theology and Business Ethics. (4).
This course applies ethical theory to business decisions within the context of theological reflection. With a strategic focus, the course will investigate the relationship between theological ethics and the economic concerns of managers. The course is particularly designed to help students become effective ethical agents by developing the skills to apply ethical principle to strategic business decisions. (cross-listed with REL 354).

BUS 355. Client/Server Fundamentals. (4).
Discusses modern technology in network communication and cooperative computation. Topics include client/server design concepts, software expectations, hardware requirements, service support and training issues. Prerequisite: CSC 220 or CSC 300.

BUS 361. Human Resource Management. (4).
A study of the use of the human resources within the organization. Includes recruiting, selecting and training employees, wage administration and union relations. Focus is on government regulation of employment practices, including Equal Opportunity Employment and affirmative action.

BUS 365. Organization Theory. (4).
Analysis and design of modern organizations with an emphasis on organizational technology. Perspectives include organization design, organization effectiveness and changing organization culture, and the organization and its external environment. Attention is given to emerging global realities. Integrates theoretical knowledge with practical applications.

BUS 367. Behavior in Organizations. (4).
An introduction to the methods and findings of the behavioral sciences on the persisting human problems of organizations. Attention is given to the roles of individual attributes, group dynamics and organizational structure in determining levels of performance at work. Prerequisite: junior standing.

BUS 368. Human Resource Mangement. (4).
A study of the use of the human resources within the organization. Includes recruiting, selecting and training employees, wage administration and union relations. Focus is on government regulation of employment practices, including Equal Opportunity Employment and affirmative action. Prerequisite: BUS 367.

BUS 369. Negotiation and Persuasion. (4).
This course covers theories, strategies, and ethics underlying negotiation and persuasion in contemporary organizations and societies. Students will learn the concepts and principles pertinent to real world negotiation process. It provides the students the knowledge and skills needed for effective negotiation and persuasion, psychological persuasive exchanges of the social contract, assessments of communication styles during negotiation and persuasion processes, empirical foundation of the discipline of relationship sales. Prerequisite: BUS 367 (Recommended).

BUS 370. Multimedia Technology. (4).
Introduces modern multimedia technologies. Topics include basic concepts, principles, sound images, animation, standards, hardware and software requirements, new technologies, current research and practice, and future directions.

BUS 374. Business Law. (4).
The study of law as it relates to business. Topics include contracts, agencies, commercial paper, personal property, sales, real property and insurance.

BUS 375. Principles of Marketing. (4).
The study of marketing methods and practices. Topics include policies and problems related to consumers, pricing, advertising, management information systems and distribution and management of the marketing function. Prerequisite: junior standing. (cross-listed with COMM 375).

BUS 376. Sales Management. (4).
This course concerns the sales and sales management functions as they exist in business-to-business sales settings. The course discusses current problems in sales management and the design of effective sales management processes and systems. Prerequisite: BUS 375.

BUS 380. Principles of Advertising. (4).
An exploration of advertising from an integrated marketing communications perspective. Focus is on general principles and broad perspectives with particular emphasis on strategy and the role of advertising in an integrated program. Students will examine consumer motivation, planning and development, the creative process and campaign execution and evaluation. (cross-listed with COMM 380).

BUS 381. Info Systems & Organization Design. (4).
This course investigates the nature and uses of various types of information systems in business organizations, including decision support systems, expert systems, executive and management information systems, and communication systems. Examines the relationships between information system use and business strategy and the applications of information systems in the development of competitive advantage. Surveys the major components of business information systems (hardware, networks, data and applications) and investigates the interrelationships between information, systems, organizational structure, processes and strategy.

BUS 391. Principles of Finance. (4).
Introduces students to the field of finance through an applied conceptual framework using problem sets and computer software to analyze various financial dilemmas. Topics include security valuation, risk analysis, working capital management, financial budgeting and planning, time value of money concepts, financial ratio analysis and capital budgeting. Prerequisite: BUS 252; MATH 115, 145, or 245.

BUS 392. Intermediate Finance. (4).
Students learn to appreciate the usefulness and limitations of financial statements in valuation concepts and financial analysis and are made aware of the value of the role of financial information in capital markets. Concepts are reinforced through problem sets. Prerequisite: BUS 391.

BUS 393. Corporate Finance. (4).
Provides a conceptual framework for analyzing the major types of investment and financial decisions of corporations. The course reviews modern financial theory related to capital structure, cost of capital, dividend policy, intermediate and long-term financing, corporate restructuring and capital budgeting. Employs a mix of problem sets and cases. Prerequisite: BUS 391.

BUS 394. Global Business. (4).
This course covers global trade and its effect on the world economy. Includes the problems of the multinational firm and the impact of numerous environmental factors on the conduct of business across national boundaries, including but not limited to regional, cultural, and treaty-based boundaries. Some elements of "international" terminology remain due to nation-based regulatory, currency, and other requirements.

BUS 395. Financial Strategy. (4).
Deals with corporate financial strategies primarily in the areas of valuation, capital structure, external financing, bankruptcy, mergers and acquisitions. These issues are addressed mostly in the context of case studies that illustrate how ideas studied in introductory finance courses are applied to real-world situations. Prerequisite: BUS 391.

BUS 396. Personal Financial Plan & Risk Mgmt. (4).
Focuses on the general principles of financial planning, including: the financial planning process, the regulatory and ethical environment, consumer protection law, personal financial statements, budgeting, debt financing, educational planning, and client communication. Also provides an in-depth introduction to risk management and insurance, including life, health, disability, long-term care, property and casualty, umbrella liability and annuities.

BUS 398. Raising Capital. (4).
Raising capital is an important part of many, if not all, businesses. This course covers many aspects of finance that are relevant to raising capital, using advanced modeling. Topics include cash management, forecasting, the analysis of capital needs, valuation, sources of capital: venture capital, angel capital, crowdfunding, IPO, and Initial Coin Offering, capital table, shareholder equity, and etc. Prerequisites: BUS 391 or ENT 301.

BUS 400. Graphical User Interface. (4).
An introductory course to user interface fundamentals. Topics include development methodologies, evaluation techniques, user-interface building tools, considerations in the design phase, identification of design rules and successful delivery of the design. Prerequisite: CSC 220 or CSC 300.

BUS 410. Database Management Systems. (4).
Studies the concepts and structures necessary to design and operate a database management system. Topics include data modeling, relational database design and database querying.

BUS 411. Sports-Related Marketing. (4).
An introduction to management and marketing issues in the sports industry, with a particular emphasis on major and minor league professional sports. Students will receive a broad overview of the structure of sports and its relationship to the dominant culture, the economy and the media. (cross-listed with COMM 411).

BUS 412. Entertainment Industry Marketing. (4).
Entertainment has become the dominant experience of consumers in a celebrity-driven culture. Technological innovations from the Internet/Web to social networking to mobile devices and the cloud have disrupted the entertainment industry - film, music and TV. Social media have enabled consumers become co-producers and changed the business models of the entertainment industry. How have social networks altered advertising and marketing by entertainment firms? What are the implications of a globalized market for producers and consumers of entertainment? What are the ethical and environmental sustainability implications of these changes - does consumer empowerment come at the expense of citizen empowerment? Students will examine these issues and develop skills and perspectives to evaluate marketing approaches in the entertainment industry.Cross-listed COMM-412.

BUS 418. Business in China and India. (4).
Students investigate China and India in terms of the macro forces and factors that comprise the business environment in these "big emerging markets." Students work to understand the demographic, economic, socio-cultural, political-legal, technological and natural forces that influence business in China and India. They compare and contrast how business is conducted within the two countries as well as with foreign enterprises, and they assess current and emerging opportunities for business in the region. Through readings, online research, discussions, and case analyses, students learn what appear to be critical factors for business success in China and India.

BUS 420. White-Collar Crime. (4).
This course will provide students with a critical examination of white-collar crime and deviance, its impact on society, and what might be done to address this social problem. Cross-listed with CRIM 420.

BUS 422. Non-Profit Leadership. (4).
This course will provide an introduction to principles and practices of leadership with a focus on the challenges facing management in nonprofit organizations. The elements of the course include a survey of important issues facing the nonprofit sector and best practices with a focus on personal leadership development and implementation. Topics will include governance, strategic planning, volunteer retention, organizational leadership, strategic partnerships and fundraising. Study includes incorporation of experiential service learning opportunities to enhance development of core leadership skills and models. The assessments of student learning to be used in this course are outlined below.

BUS 425. Arts Management and Museology. (4).
This is a cross-disciplinary course merging Management, Art and Museum Studies to give students an insider view of the art world. By the end of the term students will have mastered multiple business models and will have executed an art exhibition from start to finish, including all aspects of curation, marketing and writing. Junior standing required. Cross-listed with ART-425.

BUS 429. Executive Roundtable. (4).
This course is designed to provide students with an appreciation of how management and finance theory are integrated into the strategies of the modern corporation. Each week, a different company executive provides a real-world perspective on how decisions are made and strategies are implemented in the modern corporation.

BUS 430. Integrated Marketing Communication. (4).
This course explores the role of communications in marketing management, the strategic integration of promotional tools, and the application of generic IMC concepts in various social and organizational contexts-commercial, non-profit, domestic, and international. Communication trends and technologies are illuminated. The impact of marketing communications on individuals and on society as a whole is critically evaluated. Through readings, discussions, and analyzing cases, students learn how communications objectives are accomplished through carefully chosen combinations of public relations, advertising, sales promotion, personal selling, database and online marketing. Prerequisite: BUS 375 / COMM 375 Principles of Marketing.

BUS 431. Brand Development & Customer Exp. (4).
Students will study the keyconcept, contexts & processes of brand management. This course will focus on consumer brand engagement.

BUS 432. Non-Profit Leadership. (4).
This course will provide an introduction to principles and practices of leadership with a focus on the challenges facing management in nonprofit organizations. The elements of the course include a survey of important issues facing the nonprofit sector and best practices with a focus on personal leadership development and implementation. Topics include governance, strategic planning, volunteer retention, organizational leadership, strategic partnerships and fundraising. Study includes incorporation of experiential service learning opportunities to enhance development of core leadership skills and models.

BUS 435. Fund Raising for Non-Profit Organization. (4).
The primary goal of this course is to acquaint you with the vocabulary and the basic strategies and tactics of professional fundraising. While the course won't make you an expert at fundraising, it will offer you valuable perspective about how to find the money necessary to fund operations. We also want to go from the theoretical into the practical with the use of projects to allow you to test our your ideas in the real world.

BUS 439. Senior Seminar Mgmt Thought & Practice. (4).
The consideration of classic and contemporary writings on issues related to the management of the business enterprise and the role of business in the larger society. Prerequisite: senior standing.

BUS 440. Marketing Simulations. (4).
Emphasis is placed on the marketing planning function, consumer identification and buyer behavior, marketing strategies and price-value relationships.

BUS 442. Advertising Campaigns. (4).
Advances the principles learned in introductory advertising and marketing courses and includes the application of principles learned through the completion of an actual consumer-oriented marketing/advertising campaign. Includes lecture and lab. Prerequisites: BUS 375, senior standing. (cross-listed with COMM 442).

BUS 443. Event Planning and Management. (4).
The study of the theory and practice of various forms of event planning and management. The class will be using a hands-on approach and will include lessons on budget, décor, entertainment, types, and security issues. (cross-listed with COMM 443).

BUS 446. Theories and Practice of Leadership. (4).
Examines leadership from theoretical, historical and practical perspectives. Includes topics of trait, behavioral and contingency theories; the influence process; management vs. leadership, leadership and followership. Survey of leadership theory and research; characteristics of leaders, theories of leadership origins and psychological and social correlates. Interaction of personal and organizational factors in determining leadership effectiveness.

BUS 447. Social Marketing. (4).
Reflecting the needs of social entrepreneurs, NGOs and nonprofit organizations, the course explores the use of marketing to effect behavioral changes for the benefit of individuals, society and the global environment. Social marketing is viewed in various organizational and cultural contexts, both domestic and international. Trends and technologies are critically evaluated. Through reading, discussion and practical application, students learn how social marketing objectives are accomplished through carefully chosen combinations of research, planning, implementation and program evaluation. Prerequisite: BUS 375 / COMM 375.

BUS 448. Organization Development. (4).
The study of planned change in organizations including diagnosis of the organization and implementation of organization development interventions. Emphasis on teamwork in organizations and survey development. Prerequisite: senior standing.

BUS 449. Managerial Leadership: Core Competencies. (4).
Focuses on the development of the core competencies and skills needed for effective managerial leadership at all levels of the organization. Each skill component will follow a five-step developmental pedagogy: (1) Assessment, (2) Learning, (3) Analysis, (4) Practice and (5) Application. Prerequisite: senior standing.

BUS 450. Advanced Public Relations. (4).
Students strengthen their command of the processes and techniques of public relations and apply them strategically to real-world PR stations. They apply the full process of public relations management, including research and analysis, planning, implementation, and control and evaluation, while producing a strategic PR plan and professional media kit. They role-play crisis communications planning and response in an emergency PR exercise. Ethical considerations in PR management are examined; the impact of current PR practices on individuals and society are critically evaluated. Prerequisite: COMM 342.

BUS 451. Cost Accounting - Computer Application. (4).
Advanced study of the procedures used to determine costs for manufacturing operations. Includes process and differential costing, overhead allocation, profit-volume analysis, joint products and by-products and responsibility accounting. Emphasis is placed on making informed business decisions based on quantifiable data. Prerequisites: BUS 252; junior standing.

BUS 452. Tax I. (4).
A study of current federal tax laws and issues as they pertain to the individual taxpayer. Cases are used to provide practical experience in implementation of tax law interpretations; emphasis is placed on the evolution of the philosophy that drives development of the federal tax code. Prerequisite: BUS 251. (offered one semester each year).

BUS 453. Auditing. (4).
Covers the legal responsibilities, theory and procedures in the conduct of an audit and the making of an audit report. Prerequisite: BUS 352B. (offered one semester each year).

BUS 454. Advanced Accounting. (4).
Accounting for business combinations and the preparation of consolidated financial statements. Also includes accounting for partnerships, consignments, foreign currency translation, fund accounting and international accounting. Prerequisite: BUS 352B. (offered one semester each year).

BUS 455. Ethics for the Accounting Professional. (4).
This course focuses on the role accountants and the accounting profession have in both business as well as in society as a whole. Students learn the history, legal, and ethical responsibilities of the accounting profession in addition to various legislation that has impacted it over recent years. The course will review the legal, regulatory and professional responsibilities of accountants, tax preparers and auditors. The course will also cover the teachings of various ethicists, sociologists and philosophers through the review of their theorems and approaches to ethical reasoning and behavior on an individual, organizational and societal level. This course introduces students to ethical reasoning, integrity, objectivity, independence and the use of a strong moral compass in guiding them as an accounting professional. The course will utilize a textbook and case studies in addition to guest speakers who will share their professional perspectives and experiences. There will be a review of the AICAPA's Code of Professional Conduct, and professional guidelines and codes of conduct in accounting.

BUS 458. Personal Investment Planning. (4).
Students will examine the investment concepts of time value of money and risk and return, characteristics and taxation of investment vehicles and personal investing strategy. They will also learn about concepts of modern portfolio theory, including: risk-tolerance, time horizon, asset positioning, asset allocation, diversification, risk-adjusted return and portfolio rebalancing.

BUS 460. Leadership Development. (4).
Focuses on developing and identifying the contibutors to and need for individual leadership competencies. Provides an overview of specific leadership development instruments, psychological contibutors to leadership effectiveness, and introspective evaluation of current leadership application. Prerequsite: senior standing.

BUS 461. Advanced Human Resource Management. (4).
Studies advanced human resource management problems and practices and is intended for students interested in a professional career as a human resource management specialist. Topics include selection, placement, employee development and employee relations in private and public sector organizations. Prerequisite: BUS 361.

BUS 462. Tax II. (4).
A study of tax laws and issues pertaining to business entities such as partnerships, C-corporations and S-corporations. Focuses on the taxation of estates and trusts and expands the study of personal taxation introduced in Tax I. Prerequisite: BUS 452. (offered one semester each year).

BUS 464. Project and Change Management. (UG).
Project and change management is the theory and practice of providing a product, service or result that satisfies customer requirements, constraints, and expectations while accommodating changes. Successful project management involves planning and execution through tailored communications and evolving relationships. This course provides in-depth discussions and applications of project management concepts and processes. Prerequisites:.

BUS 466. Digital Marketing. (4).
Students will study concepts related to digital platforms and how they are leveraged by brands to market the strategic customer experience. The course will help students develop an understanding of the digital customer journey touch points. Students will explore how advertising and marketing technologies interact to create seamless experiences across products and services. Prerequisites: BUS-375 or COMM-375.

BUS 469. Strategic Management (capstone). (4).
Complex business cases integrating the fields of marketing, finance, law, accounting, economics and industrial management provide a realistic view of how general managers deal with conceptual business problems. Cases include analysis of strategic, interpersonal business problems. Prerequisite: senior standing and completion of BUS 374, 375, 367, 381 and 391.

BUS 470. Executive Roundtable Capstone. (4).
This course is designed to provide students with an appreciation of how management and finance theory are integrated into the strategies of the modern corporation. Each week, a different company executive provides a real-world perspective on how decisions are made and strategies are implemented in the modern corporation. The course will conclude with a comprehensive writing assignment, and will serve as a capstone option for invited students in the Business Administration degree program. Pre-requisite: BUS 374, 375, 367, 381 and 391.

BUS 471. Real Estate Finance and Investments. (4).
The course is designed to introduce students to the many different facets of real estate - e.g. consumption good, a key element of our economy, an investment, and a career opportunity. The course will introduce students to the unique characteristics of real estate and provide a framework for decisions regarding the investments in real estate. The first section of the course provides an overview of real estate and introduces the critical analytic tool of time value of money. The second section provides the basic principles underlying the valuation of real estate - both residential and commercial. The last section of the course discusses financing real estate and focuses on residential mortgage financing. Prerequisite: BUS-391.

BUS 472. International Finance. (4).
Focuses on the financial environment surrounding multinational businesses involved in international trade, investment and financing. Covers management of current assets and liabilities, including foreign financing decisions and techniques, and investigates foreign investment decisions, feasibility analysis and capital budgeting. The course uses problem sets and case studies to reinforce the concepts discussed in class. Prerequisite: BUS 391. Recommended: senior standing.

BUS 473. Marketing Management. (4).
Focuses on the effective design and management of the marketing function in a business organization and the development of effective marketing programs. Topics include strategic marketing plans organization and incentive structures for the sales force, product launch, marketing communication and integration with other essential management functions. Prerequisites: BUS 375, senior standing.

BUS 474. International Marketing. (4).
An exploration of international marketing conditions with emphasis on foreign market research; trade promotion; political, legal, economic and cultural environments; product and service adaptability; and the development of strategic marketing plans for multinational competition. Prerequisite: BUS 375.

BUS 475. Investment Analysis/Portfolio Developmt. (4).
Provides the necessary background to critically evaluate both the practical and academic literature on investments. Stocks and bonds are addressed in market equilibrium and within the context of portfolio development. The capital asset pricing model, market efficiency and the investment environment are covered. Prerequisite: BUS 391.

BUS 476. Global Business Behavior. (4).
A review of current organizational development approaches developed in the United States and elsewhere for possible global application. Cultural influences fostering or hindering the development of effective humanistic organizations are explored. Prerequisite: BUS 394 or consent of instructor.

BUS 477. Personal Financial Planning. (4).
An in-depth study of personal budgeting and long-term planning, investment opportunities, credit, financial institutions, insurance, risk preferences and goals. Prerequisite: junior standing.

BUS 481. Financial Plan Development Course. (4).
This experiential Capstone course focuses on the activities that a financial planning professional will need to accomplish in order to create viable comprehensive plans for their clients. Students will integrate the concepts learned in the pre-requisite courses by writing and presenting an integrative, comprehensive financial plan. Pre-requisites: each of the other four courses in the minor.

BUS 482. Selected Topics. (4).

BUS 482C. ST: Select Topic (core). (1-4).
Select Topic approved for core requirement.

BUS 484. Senior Seminar in Accounting - Capstone. (4).
In this rigorous course, the emphasis will be on the application of GAAP and OCBOA rules and regulations in the preparation of financial statements using a variety of software application. There will be numerous situations where students will use their analytical skills and prepare written documents used by CPAs and accountants. Prerequisite: BUS 453 & BUS 454.

BUS 485. Seminar. (2-4).

BUS 490. Independent Study. (1-4).

BUS 492. Internship. (1-4).

BUS 493. Field Studies. (2).

BUS 496. Directed Research. (1-3).

Business Management - Bachelor's Degree for Professionals

Bachelor of Science in Business Management

39 credits minimum; 28 upper division credits. 2.0 minimum GPA.

BUS 251	Principles of Accounting	4
BUS 252	Managerial Accounting	4
BUS 367	Behavior in Organizations	4
BUS 374	,Business Law	4
BUS 375	Principles of Marketing	4
BUS 381	Info Systems & Organization Design	4
BUS 391	Principles of Finance,	4
BUS 469	Strategic Management (capstone)	4
BUS 476	Global Business Behavior	4
ECON 311	Statistical Methods	4

Required Supporting Courses

ECON 203	General Economics	4
or		
ECON 200/201	Introduction to Micro-Economics and Introduction to MacRo Economics	6
MATH 245	Applied Calculus	4
COMM 306	Business and Professional Communication	4
or BUS 301	Communication for Managers	
Select one of the following:		4
PHIL 370	Business Ethics	
RLTH 350	Contemporary Christian Ethics	

Minor in Business Administration

20 credits minimum; 12 upper division credits. 2.0 minimum GPA.

BUS 251	Principles of Accounting	4
BUS 252	Managerial Accounting	4
BUS 391	Principles of Finance,	4
Select two of the following:		
BUS 367	Behavior in Organizations	4
BUS 374	,Business Law	4
BUS 375	Principles of Marketing	4
BUS 381	Info Systems & Organization Design	4
ECON 311	Statistical Methods	4

Required Supporting Course:

ECON 200/201	Introduction to Micro-Economics and Introduction to MacRo Economics	4-6
or ECON 203	General Economics	

Courses

Lower Division

BUS 151. Introduction to Business. (4).
Students will have instruction in various business and economic topics (Marketing, Management, Finance, Personal Financial Planning, Economics, etc.) to better prepare them for making informed choices in selecting their ultimate degree and emphasis areas of study. Students will benefit from an introduction to advising and academic guidance. They will have an opportunity to meet with and be instructed by various faculty members from the school of business on a "guest professor" basis. Students in this course will participate in benchmarking exercises to contribute to outcomes assessment reports.

BUS 251. Principles of Accounting. (4).
An introduction to the basic assumptions that underlie modern accounting: the principles, procedures and methods applied in the preparation of financial statements.

BUS 252. Managerial Accounting. (4).
An examination of how accounting data is used, communicated and interpreted for internal use. Emphasis is placed on planning, control and decision making, particularly in a manufacturing setting. This course will include instruction in and application of computer spreadsheet programs. The student will be required to use word-processing and spreadsheet programs for work submitted during this course. In addition, an introduction to and use of Internet research resources are included in the course syllabus. Prerequisite: BUS 251.

BUS 253. Financial Info in Bus Organization. (4).
This course is designed for non-business majors who are not required to take Principles of Accounting or Managerial Accounting. The intent of the course is to provide students with sufficient background in accounting and finance to allow them to function more effectively in their chosen careers. To that end, the course will cover the basics of financial accounting and managerial accounting, with some additional material typically covered in finance and economics courses.

BUS 255. Environment of Business. (4).
This course provides an introduction to and an overview of topics and disciplines addressed and taught in a typical Schools of Management curriculum. The topics are important background for the non-business major. It is an introductory-level treatment of course topics required in business emphasis areas: Accounting, Finance, Marketing, Management, Economics, and others. Career Services on campus are the basis for assignments with a focus on career readiness. Spreadsheet software is taught and used for completing assignments for the course. Importantly, expectations and standards for further coursework will be communicated so students are better able to set goals for success in their academic pursuits and chosen career.

BUS 257. Practicum in Accounting. (2).
Basic principles of accounting will be presented as a review for a solid foundation in GAAP and accounting. The course will include theory, as well as the completion of hands on financial statements using Excel and other software.

BUS 260. Personal Financial Planning & Risk Mgmt. (4).
Focuses on the general principles of financial planning, including: the financial planning process, the regulatory and ethical environment, consumer protection law, personal financial statements, budgeting, debt financing, educational planning, and client communication. Also provides an in-depth introduction to risk management and insurance, including life, health, disability, long-term care, property and casualty, umbrella liability and annuities.

BUS 275. Intro to Advertising. (3).
An exploration of advertising from the management-marketing, consumer and communications creativity viewpoint. Focus is on general principles and broad perspectives with particular emphasis on strategy and how advertising fits into the total sales program.

BUS 282. Selected Topics. (1-4).

BUS 282C. ST: Select Topic (core). (1-4).
Select topic approved to satisfy core.

Upper Division

BUS 301. Communication for Managers. (4).
The study of business communications methods with emphasis on planning, organizing, preparing and presenting major reports. Significant use of computer skills will be included, as well as design and structure of communication materials for the highest levels of impact.

BUS 330. Fundaments of Sustainable Business. (4).
The course provides comprehensive introduction to the sustainability concept & its major themes such as renewable resources, clean enerby & fuel orgnizations and other stakeholders in building the organizations's business model & strategies for a sustainable future is examined. Student explore opportunities for individuals & companies.

BUS 341. Prin Estate & Income Tax Planning. (4).
Examines estate planning documents, estate tax minimization strategies, the transfer of property via probate, titling, contracts, trusts and gifting, and forms of business entity. The coverage on federal income tax planning will primarily be focused in the following three areas: tax-planning considerations, tax computations and tax-planning strategies.

BUS 342. Marketing Research/Consumer Behavior. (4).
A detailed focus on marketing research, strategy, statistical techniques and decision-theory concepts. Includes the nature of the influences affecting consumer behaviors, values, lifestyles, market segmentation, motivation and attitudes that form consumer marketing decisions. Prerequisite: junior standing.

BUS 343. Employee Benefits & Retirement Planning. (4).
This course will provide an understanding of how corporate and individual retirement planning integrates together for the benefit of the business owner, executive and employee. Topics include retirement needs analysis, social security benefits, qualified and non-qualified plans, rules governing qualified plans, individual retirement accounts, retirement income planning and employee benefits.

BUS 344. Copywriting/Storyboarding Broadcast Adv. (4).
Designed as a "hands-on" communication and business course, this course provides an overview of broadcast media and develops skills in basic advertising/public relations campaign production techniques including scripting, copywriting and storyboarding. (cross-listed with COMM 344).

BUS 347. Introduction to Sports Management. (4).
Includes (a)sport law - impact of the legal process on sport, (b)sport economics - how the price and market system, income and employment affect the sport enterprise, (c)sport marketing/promotion - effect of marketing and promotion on the economic well-being of the organization,(d)sports administration - overview of the total responsibilities of the sport administrator, including planning, organizing, staffing, directing, and controlling the sports enterprise.

BUS 350. Data Communication and Networks. (4).
Includes a discussion of distributed data processing, communication techniques, wide-area and local-area networks, integrated services digital network, open-systems interconnections, security and network management.

BUS 352A. Intermediate Accounting. (4).
Includes detailed coverage of accounting theory and practice as applied to the corporate form of business. Topics include income statement, earnings per share, income tax allocation, compound interest, revenue recognition, price-level accounting, an introduction to fund accounting and a thorough treatment of balance sheet accounts. Prerequisites: BUS 251 (for BUS 352A), BUS 352A (for BUS 352B).

BUS 352B. Intermediate Accounting II. (4).
Includes detailed coverage of accounting theory and practice as applied to the corporate form of business. Topics include income statement, earnings per share, income tax allocation, compound interest, revenue recognition, price-level accounting, an introduction to fund accounting and a thorough treatment of balance sheet accounts. Prerequisites: BUS 251 (for BUS 352A), BUS 352A (for BUS 352B).

BUS 353. Accounting Information Systems. (4).
This is an introductory course in accounting information systems. The course is designed to cover five major themes: 1) Conceptual foundations of accounting information systems 2) Control and audit of accounting information systems 3) Accounting information systems applications 4) The REA data model 5) The systems development process. Pre-requisite: BUS 252.

BUS 354. Theology and Business Ethics. (4).
This course applies ethical theory to business decisions within the context of theological reflection. With a strategic focus, the course will investigate the relationship between theological ethics and the economic concerns of managers. The course is particularly designed to help students become effective ethical agents by developing the skills to apply ethical principle to strategic business decisions. (cross-listed with REL 354).

BUS 355. Client/Server Fundamentals. (4).
Discusses modern technology in network communication and cooperative computation. Topics include client/server design concepts, software expectations, hardware requirements, service support and training issues. Prerequisite: CSC 220 or CSC 300.

BUS 361. Human Resource Management. (4).
A study of the use of the human resources within the organization. Includes recruiting, selecting and training employees, wage administration and union relations. Focus is on government regulation of employment practices, including Equal Opportunity Employment and affirmative action.

BUS 365. Organization Theory. (4).
Analysis and design of modern organizations with an emphasis on organizational technology. Perspectives include organization design, organization effectiveness and changing organization culture, and the organization and its external environment. Attention is given to emerging global realities. Integrates theoretical knowledge with practical applications.

BUS 367. Behavior in Organizations. (4).
An introduction to the methods and findings of the behavioral sciences on the persisting human problems of organizations. Attention is given to the roles of individual attributes, group dynamics and organizational structure in determining levels of performance at work. Prerequisite: junior standing.

BUS 368. Human Resource Mangement. (4).
A study of the use of the human resources within the organization. Includes recruiting, selecting and training employees, wage administration and union relations. Focus is on government regulation of employment practices, including Equal Opportunity Employment and affirmative action. Prerequisite: BUS 367.

BUS 369. Negotiation and Persuasion. (4).
This course covers theories, strategies, and ethics underlying negotiation and persuasion in contemporary organizations and societies. Students will learn the concepts and principles pertinent to real world negotiation process. It provides the students the knowledge and skills needed for effective negotiation and persuasion, psychological persuasive exchanges of the social contract, assessments of communication styles during negotiation and persuasion processes, empirical foundation of the discipline of relationship sales. Prerequisite: BUS 367 (Recommended).

BUS 370. Multimedia Technology. (4).
Introduces modern multimedia technologies. Topics include basic concepts, principles, sound images, animation, standards, hardware and software requirements, new technologies, current research and practice, and future directions.

BUS 374. Business Law. (4).
The study of law as it relates to business. Topics include contracts, agencies, commercial paper, personal property, sales, real property and insurance.

BUS 375. Principles of Marketing. (4).
The study of marketing methods and practices. Topics include policies and problems related to consumers, pricing, advertising, management information systems and distribution and management of the marketing function. Prerequisite: junior standing. (cross-listed with COMM 375).

BUS 376. Sales Management. (4).
This course concerns the sales and sales management functions as they exist in business-to-business sales settings. The course discusses current problems in sales management and the design of effective sales management processes and systems. Prerequisite: BUS 375.

BUS 380. Principles of Advertising. (4).
An exploration of advertising from an integrated marketing communications perspective. Focus is on general principles and broad perspectives with particular emphasis on strategy and the role of advertising in an integrated program. Students will examine consumer motivation, planning and development, the creative process and campaign execution and evaluation. (cross-listed with COMM 380).

BUS 381. Info Systems & Organization Design. (4).
This course investigates the nature and uses of various types of information systems in business organizations, including decision support systems, expert systems, executive and management information systems, and communication systems. Examines the relationships between information system use and business strategy and the applications of information systems in the development of competitive advantage. Surveys the major components of business information systems (hardware, networks, data and applications) and investigates the interrelationships between information, systems, organizational structure, processes and strategy.

BUS 391. Principles of Finance. (4).
Introduces students to the field of finance through an applied conceptual framework using problem sets and computer software to analyze various financial dilemmas. Topics include security valuation, risk analysis, working capital management, financial budgeting and planning, time value of money concepts, financial ratio analysis and capital budgeting. Prerequisite: BUS 252; MATH 115, 145, or 245.

BUS 392. Intermediate Finance. (4).
Students learn to appreciate the usefulness and limitations of financial statements in valuation concepts and financial analysis and are made aware of the value of the role of financial information in capital markets. Concepts are reinforced through problem sets. Prerequisite: BUS 391.

BUS 393. Corporate Finance. (4).
Provides a conceptual framework for analyzing the major types of investment and financial decisions of corporations. The course reviews modern financial theory related to capital structure, cost of capital, dividend policy, intermediate and long-term financing, corporate restructuring and capital budgeting. Employs a mix of problem sets and cases. Prerequisite: BUS 391.

BUS 394. Global Business. (4).
This course covers global trade and its effect on the world economy. Includes the problems of the multinational firm and the impact of numerous environmental factors on the conduct of business across national boundaries, including but not limited to regional, cultural, and treaty-based boundaries. Some elements of "international" terminology remain due to nation-based regulatory, currency, and other requirements.

BUS 395. Financial Strategy. (4).
Deals with corporate financial strategies primarily in the areas of valuation, capital structure, external financing, bankruptcy, mergers and acquisitions. These issues are addressed mostly in the context of case studies that illustrate how ideas studied in introductory finance courses are applied to real-world situations. Prerequisite: BUS 391.

BUS 396. Personal Financial Plan & Risk Mgmt. (4).
Focuses on the general principles of financial planning, including: the financial planning process, the regulatory and ethical environment, consumer protection law, personal financial statements, budgeting, debt financing, educational planning, and client communication. Also provides an in-depth introduction to risk management and insurance, including life, health, disability, long-term care, property and casualty, umbrella liability and annuities.

BUS 398. Raising Capital. (4).
Raising capital is an important part of many, if not all, businesses. This course covers many aspects of finance that are relevant to raising capital, using advanced modeling. Topics include cash management, forecasting, the analysis of capital needs, valuation, sources of capital: venture capital, angel capital, crowdfunding, IPO, and Initial Coin Offering, capital table, shareholder equity, and etc. Prerequisites: BUS 391 or ENT 301.

BUS 400. Graphical User Interface. (4).
An introductory course to user interface fundamentals. Topics include development methodologies, evaluation techniques, user-interface building tools, considerations in the design phase, identification of design rules and successful delivery of the design. Prerequisite: CSC 220 or CSC 300.

BUS 410. Database Management Systems. (4).
Studies the concepts and structures necessary to design and operate a database management system. Topics include data modeling, relational database design and database querying.

BUS 411. Sports-Related Marketing. (4).
An introduction to management and marketing issues in the sports industry, with a particular emphasis on major and minor league professional sports. Students will receive a broad overview of the structure of sports and its relationship to the dominant culture, the economy and the media. (cross-listed with COMM 411).

BUS 412. Entertainment Industry Marketing. (4).
Entertainment has become the dominant experience of consumers in a celebrity-driven culture. Technological innovations from the Internet/Web to social networking to mobile devices and the cloud have disrupted the entertainment industry - film, music and TV. Social media have enabled consumers become co-producers and changed the business models of the entertainment industry. How have social networks altered advertising and marketing by entertainment firms? What are the implications of a globalized market for producers and consumers of entertainment? What are the ethical and environmental sustainability implications of these changes - does consumer empowerment come at the expense of citizen empowerment? Students will examine these issues and develop skills and perspectives to evaluate marketing approaches in the entertainment industry.Cross-listed COMM-412.

BUS 418. Business in China and India. (4).
Students investigate China and India in terms of the macro forces and factors that comprise the business environment in these "big emerging markets." Students work to understand the demographic, economic, socio-cultural, political-legal, technological and natural forces that influence business in China and India. They compare and contrast how business is conducted within the two countries as well as with foreign enterprises, and they assess current and emerging opportunities for business in the region. Through readings, online research, discussions, and case analyses, students learn what appear to be critical factors for business success in China and India.

BUS 420. White-Collar Crime. (4).
This course will provide students with a critical examination of white-collar crime and deviance, its impact on society, and what might be done to address this social problem. Cross-listed with CRIM 420.

BUS 422. Non-Profit Leadership. (4).
This course will provide an introduction to principles and practices of leadership with a focus on the challenges facing management in nonprofit organizations. The elements of the course include a survey of important issues facing the nonprofit sector and best practices with a focus on personal leadership development and implementation. Topics will include governance, strategic planning, volunteer retention, organizational leadership, strategic partnerships and fundraising. Study includes incorporation of experiential service learning opportunities to enhance development of core leadership skills and models. The assessments of student learning to be used in this course are outlined below.

BUS 425. Arts Management and Museology. (4).
This is a cross-disciplinary course merging Management, Art and Museum Studies to give students an insider view of the art world. By the end of the term students will have mastered multiple business models and will have executed an art exhibition from start to finish, including all aspects of curation, marketing and writing. Junior standing required. Cross-listed with ART-425.

BUS 429. Executive Roundtable. (4).
This course is designed to provide students with an appreciation of how management and finance theory are integrated into the strategies of the modern corporation. Each week, a different company executive provides a real-world perspective on how decisions are made and strategies are implemented in the modern corporation.

BUS 430. Integrated Marketing Communication. (4).
This course explores the role of communications in marketing management, the strategic integration of promotional tools, and the application of generic IMC concepts in various social and organizational contexts-commercial, non-profit, domestic, and international. Communication trends and technologies are illuminated. The impact of marketing communications on individuals and on society as a whole is critically evaluated. Through readings, discussions, and analyzing cases, students learn how communications objectives are accomplished through carefully chosen combinations of public relations, advertising, sales promotion, personal selling, database and online marketing. Prerequisite: BUS 375 / COMM 375 Principles of Marketing.

BUS 431. Brand Development & Customer Exp. (4).
Students will study the keyconcept, contexts & processes of brand management. This course will focus on consumer brand engagement.

BUS 432. Non-Profit Leadership. (4).
This course will provide an introduction to principles and practices of leadership with a focus on the challenges facing management in nonprofit organizations. The elements of the course include a survey of important issues facing the nonprofit sector and best practices with a focus on personal leadership development and implementation. Topics include governance, strategic planning, volunteer retention, organizational leadership, strategic partnerships and fundraising. Study includes incorporation of experiential service learning opportunities to enhance development of core leadership skills and models.

BUS 435. Fund Raising for Non-Profit Organization. (4).
The primary goal of this course is to acquaint you with the vocabulary and the basic strategies and tactics of professional fundraising. While the course won't make you an expert at fundraising, it will offer you valuable perspective about how to find the money necessary to fund operations. We also want to go from the theoretical into the practical with the use of projects to allow you to test our your ideas in the real world.

BUS 439. Senior Seminar Mgmt Thought & Practice. (4).
The consideration of classic and contemporary writings on issues related to the management of the business enterprise and the role of business in the larger society. Prerequisite: senior standing.

BUS 440. Marketing Simulations. (4).
Emphasis is placed on the marketing planning function, consumer identification and buyer behavior, marketing strategies and price-value relationships.

BUS 442. Advertising Campaigns. (4).
Advances the principles learned in introductory advertising and marketing courses and includes the application of principles learned through the completion of an actual consumer-oriented marketing/advertising campaign. Includes lecture and lab. Prerequisites: BUS 375, senior standing. (cross-listed with COMM 442).

BUS 443. Event Planning and Management. (4).
The study of the theory and practice of various forms of event planning and management. The class will be using a hands-on approach and will include lessons on budget, décor, entertainment, types, and security issues. (cross-listed with COMM 443).

BUS 446. Theories and Practice of Leadership. (4).
Examines leadership from theoretical, historical and practical perspectives. Includes topics of trait, behavioral and contingency theories; the influence process; management vs. leadership, leadership and followership. Survey of leadership theory and research; characteristics of leaders, theories of leadership origins and psychological and social correlates. Interaction of personal and organizational factors in determining leadership effectiveness.

BUS 447. Social Marketing. (4).
Reflecting the needs of social entrepreneurs, NGOs and nonprofit organizations, the course explores the use of marketing to effect behavioral changes for the benefit of individuals, society and the global environment. Social marketing is viewed in various organizational and cultural contexts, both domestic and international. Trends and technologies are critically evaluated. Through reading, discussion and practical application, students learn how social marketing objectives are accomplished through carefully chosen combinations of research, planning, implementation and program evaluation. Prerequisite: BUS 375 / COMM 375.

BUS 448. Organization Development. (4).
The study of planned change in organizations including diagnosis of the organization and implementation of organization development interventions. Emphasis on teamwork in organizations and survey development. Prerequisite: senior standing.

BUS 449. Managerial Leadership: Core Competencies. (4).
Focuses on the development of the core competencies and skills needed for effective managerial leadership at all levels of the organization. Each skill component will follow a five-step developmental pedagogy: (1) Assessment, (2) Learning, (3) Analysis, (4) Practice and (5) Application. Prerequisite: senior standing.

BUS 450. Advanced Public Relations. (4).
Students strengthen their command of the processes and techniques of public relations and apply them strategically to real-world PR stations. They apply the full process of public relations management, including research and analysis, planning, implementation, and control and evaluation, while producing a strategic PR plan and professional media kit. They role-play crisis communications planning and response in an emergency PR exercise. Ethical considerations in PR management are examined; the impact of current PR practices on individuals and society are critically evaluated. Prerequisite: COMM 342.

BUS 451. Cost Accounting - Computer Application. (4).
Advanced study of the procedures used to determine costs for manufacturing operations. Includes process and differential costing, overhead allocation, profit-volume analysis, joint products and by-products and responsibility accounting. Emphasis is placed on making informed business decisions based on quantifiable data. Prerequisites: BUS 252; junior standing.

BUS 452. Tax I. (4).
A study of current federal tax laws and issues as they pertain to the individual taxpayer. Cases are used to provide practical experience in implementation of tax law interpretations; emphasis is placed on the evolution of the philosophy that drives development of the federal tax code. Prerequisite: BUS 251. (offered one semester each year).

BUS 453. Auditing. (4).
Covers the legal responsibilities, theory and procedures in the conduct of an audit and the making of an audit report. Prerequisite: BUS 352B. (offered one semester each year).

BUS 454. Advanced Accounting. (4).
Accounting for business combinations and the preparation of consolidated financial statements. Also includes accounting for partnerships, consignments, foreign currency translation, fund accounting and international accounting. Prerequisite: BUS 352B. (offered one semester each year).

BUS 455. Ethics for the Accounting Professional. (4).
This course focuses on the role accountants and the accounting profession have in both business as well as in society as a whole. Students learn the history, legal, and ethical responsibilities of the accounting profession in addition to various legislation that has impacted it over recent years. The course will review the legal, regulatory and professional responsibilities of accountants, tax preparers and auditors. The course will also cover the teachings of various ethicists, sociologists and philosophers through the review of their theorems and approaches to ethical reasoning and behavior on an individual, organizational and societal level. This course introduces students to ethical reasoning, integrity, objectivity, independence and the use of a strong moral compass in guiding them as an accounting professional. The course will utilize a textbook and case studies in addition to guest speakers who will share their professional perspectives and experiences. There will be a review of the AICAPA's Code of Professional Conduct, and professional guidelines and codes of conduct in accounting.

BUS 458. Personal Investment Planning. (4).
Students will examine the investment concepts of time value of money and risk and return, characteristics and taxation of investment vehicles and personal investing strategy. They will also learn about concepts of modern portfolio theory, including: risk-tolerance, time horizon, asset positioning, asset allocation, diversification, risk-adjusted return and portfolio rebalancing.

BUS 460. Leadership Development. (4).
Focuses on developing and identifying the contibutors to and need for individual leadership competencies. Provides an overview of specific leadership development instruments, psychological contibutors to leadership effectiveness, and introspective evaluation of current leadership application. Prerequsite: senior standing.

BUS 461. Advanced Human Resource Management. (4).
Studies advanced human resource management problems and practices and is intended for students interested in a professional career as a human resource management specialist. Topics include selection, placement, employee development and employee relations in private and public sector organizations. Prerequisite: BUS 361.

BUS 462. Tax II. (4).
A study of tax laws and issues pertaining to business entities such as partnerships, C-corporations and S-corporations. Focuses on the taxation of estates and trusts and expands the study of personal taxation introduced in Tax I. Prerequisite: BUS 452. (offered one semester each year).

BUS 464. Project and Change Management. (UG).
Project and change management is the theory and practice of providing a product, service or result that satisfies customer requirements, constraints, and expectations while accommodating changes. Successful project management involves planning and execution through tailored communications and evolving relationships. This course provides in-depth discussions and applications of project management concepts and processes. Prerequisites:.

BUS 466. Digital Marketing. (4).
Students will study concepts related to digital platforms and how they are leveraged by brands to market the strategic customer experience. The course will help students develop an understanding of the digital customer journey touch points. Students will explore how advertising and marketing technologies interact to create seamless experiences across products and services. Prerequisites: BUS-375 or COMM-375.

BUS 469. Strategic Management (capstone). (4).
Complex business cases integrating the fields of marketing, finance, law, accounting, economics and industrial management provide a realistic view of how general managers deal with conceptual business problems. Cases include analysis of strategic, interpersonal business problems. Prerequisite: senior standing and completion of BUS 374, 375, 367, 381 and 391.

BUS 470. Executive Roundtable Capstone. (4).
This course is designed to provide students with an appreciation of how management and finance theory are integrated into the strategies of the modern corporation. Each week, a different company executive provides a real-world perspective on how decisions are made and strategies are implemented in the modern corporation. The course will conclude with a comprehensive writing assignment, and will serve as a capstone option for invited students in the Business Administration degree program. Pre-requisite: BUS 374, 375, 367, 381 and 391.

BUS 471. Real Estate Finance and Investments. (4).
The course is designed to introduce students to the many different facets of real estate - e.g. consumption good, a key element of our economy, an investment, and a career opportunity. The course will introduce students to the unique characteristics of real estate and provide a framework for decisions regarding the investments in real estate. The first section of the course provides an overview of real estate and introduces the critical analytic tool of time value of money. The second section provides the basic principles underlying the valuation of real estate - both residential and commercial. The last section of the course discusses financing real estate and focuses on residential mortgage financing. Prerequisite: BUS-391.

BUS 472. International Finance. (4).
Focuses on the financial environment surrounding multinational businesses involved in international trade, investment and financing. Covers management of current assets and liabilities, including foreign financing decisions and techniques, and investigates foreign investment decisions, feasibility analysis and capital budgeting. The course uses problem sets and case studies to reinforce the concepts discussed in class. Prerequisite: BUS 391. Recommended: senior standing.

BUS 473. Marketing Management. (4).
Focuses on the effective design and management of the marketing function in a business organization and the development of effective marketing programs. Topics include strategic marketing plans organization and incentive structures for the sales force, product launch, marketing communication and integration with other essential management functions. Prerequisites: BUS 375, senior standing.

BUS 474. International Marketing. (4).
An exploration of international marketing conditions with emphasis on foreign market research; trade promotion; political, legal, economic and cultural environments; product and service adaptability; and the development of strategic marketing plans for multinational competition. Prerequisite: BUS 375.

BUS 475. Investment Analysis/Portfolio Developmt. (4).
Provides the necessary background to critically evaluate both the practical and academic literature on investments. Stocks and bonds are addressed in market equilibrium and within the context of portfolio development. The capital asset pricing model, market efficiency and the investment environment are covered. Prerequisite: BUS 391.

BUS 476. Global Business Behavior. (4).
A review of current organizational development approaches developed in the United States and elsewhere for possible global application. Cultural influences fostering or hindering the development of effective humanistic organizations are explored. Prerequisite: BUS 394 or consent of instructor.

BUS 477. Personal Financial Planning. (4).
An in-depth study of personal budgeting and long-term planning, investment opportunities, credit, financial institutions, insurance, risk preferences and goals. Prerequisite: junior standing.

BUS 481. Financial Plan Development Course. (4).
This experiential Capstone course focuses on the activities that a financial planning professional will need to accomplish in order to create viable comprehensive plans for their clients. Students will integrate the concepts learned in the pre-requisite courses by writing and presenting an integrative, comprehensive financial plan. Pre-requisites: each of the other four courses in the minor.

BUS 482. Selected Topics. (4).

BUS 482C. ST: Select Topic (core). (1-4).
Select Topic approved for core requirement.

BUS 484. Senior Seminar in Accounting - Capstone. (4).
In this rigorous course, the emphasis will be on the application of GAAP and OCBOA rules and regulations in the preparation of financial statements using a variety of software application. There will be numerous situations where students will use their analytical skills and prepare written documents used by CPAs and accountants. Prerequisite: BUS 453 & BUS 454.

BUS 485. Seminar. (2-4).

BUS 490. Independent Study. (1-4).

BUS 492. Internship. (1-4).

BUS 493. Field Studies. (2).

BUS 496. Directed Research. (1-3).

Communication - Bachelor's Degree for Professionals

Bachelor of Arts in Communication

39 credits minimum; 24 credits upper division.

Required Courses:		
COMM 101	Introduction to Mass Communication	4
COMM 231	Media Writing	4
COMM 350	Communication Theories-Capstone	4
COMM 351	Research Methods	4
Select one of the following:		
COMM 490	Independent Study	1-4
or COMM 492	Internship	
Select one of the following:		
COMM 306	Business and Professional Communication	4
or COMM 375	Principles of Marketing	
Complete the following:		
COMM 301	Persuasive Communication	4
COMM 308	Politics in Cinema	4
COMM 315	Small Group Communication	4
COMM 405	Freedom of Communication	4
FILM 306	Screenwriting	3

Minor in Communication

20 credits, 12 credits upper division

COMM 101	Introduction to Mass Communication	4
COMM 231	Media Writing	4
COMM 350	Communication Theories-Capstone	4
Additional Communication Upper Division Credits		8

Courses

Lower Division

COMM 101. Introduction to Mass Communication. (4).
A preliminary study of communication theory with particular emphasis on mediated communication, including Internet, television, radio, film and print. Fulfills CORE 21 Speaking Intensive requirement.

COMM 103. Public Speaking. (3).
Students master the theory and practice of various forms of oral communication, including impromptu speaking, informative speaking. Fulfills the CORE 21 Speaking Intensive requirement.

COMM 104. Voice Development. (4).
This course will enable students to develop voice acting skills, which can be applied to broadcasting, instructional film, animation, commercials and documentaries. The course will also provide an introduction to the history of the voice acting field and will provide information about professional opportunities. Fulfills CORE 21 Visual and Performing Arts Participative and Speaking Intensive Requirement. (cross-listed with TA 104).

COMM 200. Broadcasting and the Media Industry. (4).
A survey of the broadcasting, cable and other broadband media including the Internet; an introduction to the socio-cultural, legal/regulatory, economic, competitive and technological environment, with emphasis on programming, advertising, audience research and other management issues in the context of digitalization of media.

COMM 221. Popular Culture. (4).
An introduction to important readings on popular culture from the perspectives of sociology and communication studies. The study of popular culture takes the forms, content, values and norms of popular culture products as data for analysis and critique. Students will focus on mass communication forms of popular culture such as movies, advertisements, television shows, magazines, music and music videos. This course will focus on the period from 1945 to the present. (cross-listed with SOC 221).

COMM 231. Media Writing. (4).
Instruction and practice in producing a variety of written content for news media; an introduction to reporting, techniques of interviewing news sources; story structure, consistent/concise editing style with clarity and speed; and writing with accuracy and fairness. Other aspects of media such as basics of writing for public relations and broadcast are also introduced. Prerequisite: Engl-111.

COMM 233. Argumentation & Advocacy. (1).
An exploration of the study and practice of parliamentary debate, emphasizing interactive critical thinking skills through case construction and defending arguments. Argumentation will be utilized to investigate social problems using formal and informal practice of the use of evidence, motivation, organization, proof, refutation, and argument. Students will develop research, critical thinking, and oral presentation skills on contemporary public policy, law, mass media, entertainment, interpersonal, and intercultural relations. Students are expected to debate or volunteer at collegiate tournaments. (cross-listed with Pols 233).

COMM 282. Sel Topics. (1-4).

COMM 282C. ST: Select Topic (core). (1-4).
Select Topic approved for core.

COMM 285. Imagining Venice. (4).
Explore the rich symbolism and significance of Venice throughout frameworks of history, culture, visual communication, and art production. A semester of study prepares you for a two-week trip to Italy with the majority of the time spent in Venice experiencing the modern life of this endangered city and creating watercolors along its picturesque canals and islands. Fulfills CORE 21 Visual & Performing Arts Participative requirement (Cross listed with ART-285).

Upper Division

COMM 301. Persuasive Communication. (4).
A study of the theories, principles and ethics of persuasive communication including an analysis of factors influencing persuasion in public address, advertising, interpersonal, social and mediated communication.

COMM 304. Radio Industry. (4).
This class covers history, production techniques, times sales, formats, commercial copy, news writing and voice-over. The goal is to prepare the student who desires employment in the radio industry.

COMM 306. Business and Professional Communication. (4).
A study of the principles involved in communicating in a professional environment. This class covers organizational communication and cultures, including team communication, conflict negotiation, leadership styles, group decision-making techniques, and business ethics. Students have several opportunities to practice oral communication principles in simulated settings. Fulfills CORE 21 Speaking Intensive requirement.

COMM 308. Politics in Cinema. (4).
Explores the political nature of cinema and the ways in which political culture, issues and themes are expressed in and through cinema. Particular emphasis is placed on American political culture and practices. Fulfills CORE 21 Social Sciences requirement. (cross-listed with POLS 308).

COMM 311. Intercultural Communication. (4).
In a multicultural, globalized world, individuals often find themselves faced with challenging values, customs, practices and material situations. Students will understand and apply dimensions of culture and principles of intercultural communication at the level of organizations, social institutions, ethnic groups, and nations. Fulfills CORE 21 Global Perspectives requirement.

COMM 312. International Media. (4).
This course explores the global importance of media systems and communication industries around the world, with particular emphasis on those of Asia, the Middle East, and South America. The course investigates a wide range of media industries and content (including entertainment, journalism, and advertising) from various historical, sociological, political, technological, legal, and economic perspectives. This course also analyzes the impact that the Internet has on domestic media production and international distribution. Fulfills CORE 21 Global Perspectives requirement.

COMM 315. Small Group Communication. (4).
A study of the types of group discussion with opportunity for student participation. Special emphasis is placed on an examination of group interaction as it relates to discussion. Fulfills CORE 21 U.S. Diversity requirement.

COMM 316. Political Communication. (4).
This course investigates the interaction between news media, audiences, and strategic political communicators in the United States. Special emphasis will be given to the role of the news media in politics; the use of campaign practices and techniques in elections; the effects of media messages on audiences; the impact of new media technologies on news and campaigns; and factors shaping news production such as journalistic routines, media economics, and the strategic management of news by politicians.

COMM 317. Sports, Media and Society. (4).
This course is designed to help students more critically view the role of sport media in global culture. The influence of/relationship between sport media and issues such as race, gender, sexuality (homophobia), nationalism, capitalism/consumerism, violence and civic life will be examined. Issues in relation to ethics and the production of sport media also will be examined.

COMM 330. Film Studies. (4).
This course provides a solid grounding in the major elements of film, including genre, narrative, acting, design, cinematography, sound, and editing. Students will become critically informed viewers able to understand and analyze film or to pursue additional studies in film history or film theory. This course does not meet the literature requirement. (cross-listed with ENGL 330). Prerequisite: ENGL 111.

COMM 331. Content Creation for Digital Platforms. (4).
In this course, students will develop a critical perspective to engage with digital technologies and to articulate the rationale of incorporating digital content into media such as public relations and journalism. The class emphasizes both acquiring production skills and understanding the theories and specificities of digital media. The class will prepare students for creating and sharing different types of interactive media content by introducing digital content creation tools. Prereq: COMM 231.

COMM 335. Interpersonal Communication. (4).
A study of the basic communication processes that occur within the context of personal relationships. The field of personal relationships is interdisciplinary, with research from areas such as communication, family studies, and social psychology contributing to knowledge. The course covers essential concepts involved in interpersonal communication processes, including developing and escalating relationships, maintaining fair and satisfying relationships, and coping with conflict and relational challenges. Fulfills CORE 21 U.S. Diversity requirement.

COMM 336. Nonverbal Communication. (4).
This course is designed to introduce students to key concepts, theories, and research findings in the field of nonverbal communication. The course covers classic components of nonverbal communication, such as kinesics (body movement), haptics (touch), proxemics (space), and physical appearance, as well as current research on the functions of nonverbal communication, such as attraction, persuasion, and deception. Course content is interdisciplinary in nature, and includes theory and research from communication, psychology, linguistics, anthropology, and sociology. Fulfills CORE 21 Social Sciences requirement.

COMM 342. Principles of Public Relations. (4).
An exploration of the evolution of public relations (PR) as a strategic communication process that builds relationships between organizations and their publics. Students will examine the history, roles, functions and purposes of PR, and analyze ethical and professional issues. Focus is on contemporary practices, including social media strategy. Both nonprofit and for-profit organizational structures are considered.

COMM 344. Storyboarding. (4).
Learn to plan out and graphically organize a visually based story by creating a series of sequential images that allow artists, directors, and/or cinematographers to visualize the shots necessary to make a TV or web advertisement, animation sequence, film, play, graphic novel or other form of visual media.

COMM 346. Copyediting, Layout and Design. (4).
The course emphasizes not only fundamental rules of grammar, punctuation and spelling but also use of AP style and macrolevel editing issues of clarity, conciseness, thoroughness as well as ethical decision-making. Students also practice layout and design for different print media products such as newspapers and media kits. Prerequisites: Comm-231.

COMM 348. Website Design and Publishing. (4).
Learn to design, create and upload web sites for personal and professional use. Skills taught include mobile-friendly web site creation using raw HTML and CSS as well as WYSIWYG software. No programming experience required, basic familiarity with computers desirable.

COMM 350. Communication Theories-Capstone. (4).
An advanced study of communication theories based on professional literature. Theories are drawn from a variety of disciplines, including psychology, sociology, linguistics and anthropology, which allow the student to study communication phenomena from a variety of competing and complementary perspectives. Students also study the scientific method and the relationship between theory and research. Course assignments include completion and presentation of a major research paper. Fulfills CORE 21 Writing Intensive and Social Sciences requirements.

COMM 351. Research Methods. (4).
This course is designed to introduce research methods used in the field of communication and in social science in general. It examines how research is planned and designed, explores both quantitative and qualitative methods, introduces students to processes of date collection and analysis, and gives them experience in conducting original research. Fulfills CORE 21 Social Science requirement.

COMM 360. Film Theories. (4).
Learn to analyze cinema through the frame of significant theoretical perspectives such as Marxist, psychoanalytic, feminist, critical race, queer, and postcolonial criticism. Course assignments include reading published film analyses and completing and presenting a major research paper. Fulfills CORE 21 Writing Intensive, and U.S. Diversity requirements.

COMM 375. Principles of Marketing. (4).
The study of marketing methods and practices. Topics include policies and problems related to consumers, pricing, advertising, management information systems and distribution and management of the marketing function. Prerequisite: junior standing. (cross-listed with BUS 375).

COMM 380. Principles of Advertising. (4).
An exploration of advertising from an integrated marketing communications perspective. Focus is on general principles and broad perspectives with particular emphasis on strategy and the role of advertising in an integrated program. Students will examine consumer motivation, planning and development, the creative process and campaign execution and evaluation. (cross-listed with BUS 380).

COMM 404. Broadcast Sports Production. (4).
The course will teach students to create live streaming sports broadcasts. Students will learn advanced editing and motion graphics techniques. Students are required to attend university sports events in the course of this class. Prerequisites: FILM 207 or FILM 208.

COMM 405. Freedom of Communication. (4).
A study of the legal and ethical principles underlying freedom of expression and the limits placed on freedom of expression in the United States. Through examining leading U.S. court decisions, students will learn the broad principles and legal reasoning underlying First Amendment jurisprudence, including the legal, ethical, philosophical and political issues entailed in the rights of free expression. (cross-listed with POLS 405).

COMM 406. Legal Issues & the New Media. (4).
A study of law, regulatory policies and ethical principles shaping media, especially the internet. The course will examine the impact of regulatory models on the development and use of communication technology. Although this course will focus on contemporary legal and ethical issues, these will be situated within the history of U.S. jurisprudence and Constitutional law.

COMM 407. Broadcast News Production. (4).
Create live news broadcasts every two weeks. Learn to write, shoot and edit news stories. In the class, you will be the producer, director and anchor for CLUTV news. Emphasis will be placed on advanced editing skills. Prerequisite: FILM 207 or FILM 208.

COMM 410. Latinx Media in the United States. (3).
This course guides students through an in-depth examination of U.S.-based Latinx and Spanish-language media by critically examining primary texts created by people who identify as members of the Latina/Latino/Latinx community, as well as media created by others about this community. The course provides a lens for understanding the highly varied needs and goals of various Spanish-language media markets around the country due to the specific experiences, perspectives, and cultural ideologies of the population each market serves. The course also introduces mediated communication from several U.S.-based markets. This class is taught in English.

COMM 411. Sports-Related Marketing. (4).
An introduction to management and marketing issues in the sports industry, with a particular emphasis on major and minor league professional sports. Students will receive a broad overview of the structure of sports and its relationship to the dominant culture, the economy and the media. (cross-listed with BUS 411).

COMM 412. Entertainment Industry Marketing. (4).
Entertainment has become the dominant experience of consumers in a celebrity-driven culture. Technological innovations, including the Internet, social networking and mobile devices, have disrupted the entertainment industry - film, music and TV. Social media have enabled consumers to become co-producers and changed the business models of the entertainment industry. Students will examine these issues and develop skills and perspectives to evaluate marketing approaches in the entertainment industry. (cross-listed as BUS 412). Pre-requisite: COMM 375.

COMM 431. Working on the Echo. (2).
Practical working experience on the University's student newspaper includes reporting, editing, photography, desktop publishing and business management. May be taken four times for credit. All majors are welcome. Prerequisite: COMM 231 or permission of the instructor.

COMM 434. iCLU. (2).
Practical working experience on the University's student-run radio station. May be taken four times for credit. All majors welcome.

COMM 435. Photojournalism. (4).
COMM 435 is an upper division digital photography class covering news, commercial and fine art photojournalism. In this class, students learn techniques required for using the camera as a reporting and illustrating tool for print and online media. Types of events include hard news,sports, editorial, as well as using the camera for fine art documentary and narrative photography. Cross listed with ART 435. Pre-requisite: ART 236.

COMM 442. Advertising Campaigns. (4).
An opportunity for students to apply principles learned in introductory advertising and marketing courses to case studies and real-world scenarios. Focus is on the creative and strategic development of viable advertising campaigns. Prerequisite: Comm-375 or Comm-380, senior standing (cross-listed with Bus-442).

COMM 443. Event Planning and Management. (4).
The study of the theory and practice of various forms of event planning and management. The class will be using a hands-on approach and will include lessons on budget, décor, entertainment, types, and security issues. (cross-listed with BUS 443).

COMM 445. Comiccomm: Globalism, Zeitgeist & Art. (4).
ComicComm: Globalism, Zeitgeist and the Art of Visual Communication covers the development of comic books/graphic novels from the earliest forms of sequential art through 19th century European, Japanese and Asain comics. The course then concentrates on 20th-21st century comics, bandes dessinees, and manga. The coures looks at the ways in which comics embody or challenge the ideologies of the culture in which they originate and how they respond to real-world controversies and disasters. It tracks cultural hybridism in comic art, the effects of participatory fan culture on the industry and issues of race, religion and philosophy as addressed by genre. Students write and illustrate their own comics: mastering the visual language of comics and manga; drawing figures and settings; and framing action and narrative in sequential format. Students' work may be fictional, biographical or documentary. The work is drawn and manipulated on iPads provided by the Library.

COMM 450. Public Relations Campaigns. (4).
An opportunity for students to apply processes, techniques, methods and ethical principles of public relations to case studies and real-world scenarios. Students will be involved in the full scope of PR management-research, planning, implementation and evaluation-to develop viable strategic PR plans. Prerequisite: COMM 342.

COMM 482. Selected Topics. (1-4).

COMM 482C. ST: Select Topic (core). (1-4).
Select Topic approved for core.

COMM 485. Travel Seminars. (1-4).

COMM 490. Independent Study. (1-4).

COMM 492. Internship. (1-4).
Students must find and participate in an internship appropriate to their career choice, at 60 hours of work per course credit, and also attend COMM 492 class meetings in the same semester to fulfill the communication internship requirement. Internship contracts are available through the Career Services Center; the sponsoring faculty section must be filled out by the professor teaching the COMM 492 section chosen. Contact the course professor for a copy of the department's internship guidelines and COMM 492 class details. (graded P/NC only).

COMM 495. Explore Japanese Society Popular Culture. (2).

COMM 496. Directed Research. (1-3).

COMM 497. Departmental Honors. (1-4).

Computer Informations Systems - Bachelor's Degree for Professionals

Bachelor of Science in Computer Information Systems

48 credits minimum; 36 upper division credits. 2.0 minimum GPA.

CSC 210	Introduction to Computer Programming	4
CSC 331	Systems Analysis	4
CSC 350	Data Communication & Networks	4
CSC 410	Database Management Systems	4
CSC 499	Capstone	4
BUS 367	Behavior in Organizations	4
BUS 381	Info Systems & Organization Design	4
MATH 241	Discrete Mathematics	4
Electives [1]		16
Total Hours		**48**

[1] Sixteen (16) additional upper division Computer Science credits in which up to 8 credits can be substituted by recommended Business Administration courses.

Minor in Computer Information Systems

20 credits minimum, 12 credits upper division

Computer Science credits		12
BUS 367	Behavior in Organizations	4
BUS 381	Info Systems & Organization Design	4
Total Hours		**20**

Please note that CSC-210 is the official beginning course for Computer Science and Computer Information Systems majors and minors. To be eligible for registering CSC-210, students are expected to successfully complete CSC110 or pass the CSC110 placement test (passing score is 80/100).

Courses

Lower Division

CSC 110. Concepts of Programming. (4).
Introduction of logic concepts in programming. Breadth approach to essential elements of computer programming. Text based operating systems such as DOS will be discussed. Topics covered are problem solving concepts, computer systems, disk operating systems, computer programming languages, programming fundamentals, testing and debugging, conditions and branching, loops, flowcharts, compound statements, non-compound statements, top-down program design.

CSC 205. Programming for Scientists. (4).
This course introduces the principles of computer programming, problem-solving methods, and algorithm development from a scientific perspective. The programming languages covered are C (a compiled language popular among engineers and mathematicians), and Perl (a scripting language popular among bioengineers) both in wide use in scientific fields. Also covered are introductory software engineering techniques and tools necessary to convert a functional specification to a properly functioning program. Examples and assignments will be drawn from the natural sciences. (Cross listed with SCI 205).

CSC 210. Introduction to Computer Programming. (4).
First-semester computer programming course. This course introduces the principles of computer science, problem-solving methods and algorithm development using a high-level language. This is a programming class primarily for computer science, computer information systems, mathematics, and science majors. The ability to use a computer is essential. Prerequisites: CSC 110 or permission of instructor, MATH 110 or equivalent.

CSC 220. Advanced Computer Programming. (4).
A second-semester computer programming course. This course takes a state-of-the-art approach to software design/development with object-oriented techniques. Topics include algorithm analysis, string processing, internal search/sort methods, complex data structures, design strategies, and code reusability. Prerequisite: CSC 210.

CSC 282C. ST: Select Topic (core). (1-4).
Select Topic approved for core.

Upper Division

CSC 300. Visual Programming. (4).
Advanced programming course which focuses on the design of visual user-interface in the Windows environment. Topics include basic forms, simple structures, variables, control mechanism, types and expressions, complex data structure, looping, functions, procedures, selections, multiple forms, files and arrays. Prerequisite: CSC 210.

CSC 310. Algorithms. (4).
Continues the study of the design and analysis of algorithms, particularly those handling complex data structures and non-numeric processes. Includes an introduction to algorithm design techniques, algorithm verification and the impact of parallel computation on algorithms, operating systems and architectures. A brief introduction is given to artificial intelligence focusing on data representation and heuristic search methods. Prerequisites: CSC 210, MATH 241.

CSC 315. Object-Oriented Design and Analysis. (4).
Discusses the features and advantages of an object-oriented approach to problem solving. Topics include abstraction, inheritance, polymorphism, object-oriented design, analysis, implementation and testing. Prerequisites: CSC 210.

CSC 321. Computer Organization and Architecture. (4).
Principles of computer organization and architecture are introduced from a layered point of view, beginning at data representation and progressing through the machine language execution cycle. Representative software-hardware tradeoffs in the implementation of various computer system components will be presented. The design and interface to a variety of peripheral devices will also be discussed. The emphasis will be on the hardware aspects of a computer system. Prerequisites: CSC 210, MATH 241.

CSC 322. Introduction to Robotics. (4).
An introductory study of the field of robotics-devices designed and programmed to perform various tasks. Topics include; hardware design (mechanical and electronic); software design; power subsystems; sensors; actuators; effectors; applications; comparison to biological systems; safety; societal impact and ethics. Student will study theory (lecture component) and build/program a robot (laboratory component). Prereq: Math-151.

CSC 325. Organization of Programming Languages. (4).
Covers introduction of major language histories, common components, built-in structures, compositions of basic structures, language specification, analysis techniques, runtime behavior, de-facto standards, and future developments. Prerequisites: CSC 210, MATH 241.

CSC 331. Systems Analysis. (4).
This is the first course in system engineering that stresses the system development life cycle. Students learn ways of organizing the structure and process of building very large-scale systems that may or may not involve computers. Includes information gathering, design tradeoffs, implementation strategies, product liability, acceptable risk analysis and project follow-up. Prerequisites: CSC 210, MATH 241.

CSC 335. Software Engineering. (4).
Presents a formal approach to state-of-the-art techniques for software design and development, involving students in a team approach to organizing, managing and developing software. Prerequisites: CSC 210, MATH 241.

CSC 340. Operating Systems. (4).
Discusses the major functionality and principles behind all major operating systems tasks, including user interface, hardware sharing among users, data sharing among processes, user protections, resources scheduling among users, multi-user environment, multi-processing and real-time systems. Prerequisites: CSC 210, MATH 241.

CSC 344. Web Design. (4).
Studies the backbone of dynamic Web documents. Subjects include Web design standards, and Web-based application programming to make layout, tables, style sheets, templates, libraries, frames and rollovers. HTML and script languages such as Java Scripts, GUI design paint tools and plug-ins are studied in depth. Prerequisites: CSC 210, MATH 241.

CSC 350. Data Communication & Networks. (4).
Includes discussion of distributed data processing, communication techniques, wide-area and local-area networks, integrated services digital network, open-systems interconnection, security and network management. Prerequisites: CSC 210, MATH 241.

CSC 355. Client/Server Fundamentals. (4).
Discusses modern technology in network communication and cooperative computation. Topics include discussion of client/server design concept, software expectation, hardware requirement, service, support and training issues. Prerequisites: CSC 210.

CSC 360. Computer System Security. (4).
An introduction of security issues in computer system and data communications, including Data Encryption Standard, public-key systems, digital signatures, ciphers, data compression, data manipulation and supporting techniques. Prerequisites: CSC 210, MATH 241.

CSC 370. Multimedia Technology. (4).
Introduces modern multimedia technologies. Topics include basic concepts, principles, sound, image, animation, standards, hardware and software requirements, new technologies, current research and practice, and future directions. Prerequisites: CSC 210, MATH 151.

CSC 400. Graphical User Interface. (4).
An introductory course to user interface design fundamentals. Topics include development methodologies, evaluation techniques, user-interface building tools, considerations in the design phase, identification of applicable design rules, and successful delivery of the design. Prerequisite: CSC 210.

CSC 405. Graphics. (4).
Review of graphic display architecture and graphic input devices. Coverage includes two- and three-dimensional drawing, viewing, clipping, transformations, shading and data structures for graphics systems. Prerequisites: CSC 220, MATH 241.

CSC 410. Database Management Systems. (4).
Studies the concepts and structures necessary to design and operate a database management system. Topics include data modeling, relational database design, and database querying. Prerequisites: CSC 210, MATH 241.

CSC 435. Competition Problem Solving. (4).
This course challenges students in real-world problem solving and prepares for the prestigious Association of Computing Machinery International Collegiate Programming Contest (ACM-ICPC). What is a good problem solving? It can be one that delivers the correct result. What is then a good competition problem solving? It is one that delivers the correct result in the expected amount of computation time. While there are a few classic problem-solving approaches, students in this course will learn to devise techniques in a deeper manner because most real-world problems command new approaches instead of the mere application of classic ones. Such skill will be of great importance for future advancement in both the industry as well as the academics.

CSC 482. Selected Topics. (1-4).

CSC 482C. ST: Select Topic (core). (1-4).
Select Topic approved for core.

CSC 490. Independent Study. (1-4).

CSC 492. Internship. (1-4).
(graded P/NC only).

CSC 493. Field Study. (1-2).

CSC 496. Directed Research. (1-3).

CSC 499. Capstone. (4).
Undergraduate research or development project. The exact nature of the project is negotiated with the sponsoring professor.

Computer Science - Bachelor's Degree for Professionals

Bachelor of Science in Computer Science

48 credits minimum; 36 upper division credits. 2.0 minimum GPA.

CSC 210	Introduction to Computer Programming	4
CSC 220	Advanced Computer Programming	4
CSC 335	Software Engineering	4

CSC 340	Operating Systems	4
CSC 350	Data Communication & Networks	4
CSC 499	Capstone	4
Additional Upper Division Computer Science Credits		20
MATH 241	Discrete Mathematics	4
Total Hours		**48**

Minor in Computer Science

20 credits minimum, 12 credits upper division.

Please note that CSC-210 is the official beginning course for Computer Science and Computer Information Systems majors and minors. To be eligible for registering CSC-210, students are expected to successfully complete CSC110 or pass the CSC110 placement test (passing score is 80/100).

Courses

Lower Division

CSC 110. Concepts of Programming. (4).
Introduction of logic concepts in programming. Breadth approach to essential elements of computer programming. Text based operating systems such as DOS will be discussed. Topics covered are problem solving concepts, computer systems, disk operating systems, computer programming languages, programming fundamentals, testing and debugging, conditions and branching, loops, flowcharts, compound statements, non-compound statements, top-down program design.

CSC 205. Programming for Scientists. (4).
This course introduces the principles of computer programming, problem-solving methods, and algorithm development from a scientific perspective. The programming languages covered are C (a compiled language popular among engineers and mathematicians), and Perl (a scripting language popular among bioengineers) both in wide use in scientific fields. Also covered are introductory software engineering techniques and tools necessary to convert a functional specification to a properly functioning program. Examples and assignments will be drawn from the natural sciences. (Cross listed with SCI 205).

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CSC 282C. ST: Select Topic (core). (1-4).
Select Topic approved for core.

Upper Division

CSC 300. Visual Programming. (4).
Advanced programming course which focuses on the design of visual user-interface in the Windows environment. Topics include basic forms, simple structures, variables, control mechanism, types and expressions, complex data structure, looping, functions, procedures, selections, multiple forms, files and arrays. Prerequisite: CSC 210.

CSC 310. Algorithms. (4).
Continues the study of the design and analysis of algorithms, particularly those handling complex data structures and non-numeric processes. Includes an introduction to algorithm design techniques, algorithm verification and the impact of parallel computation on algorithms, operating systems and architectures. A brief introduction is given to artificial intelligence focusing on data representation and heuristic search methods. Prerequisites: CSC 210, MATH 241.

CSC 315. Object-Oriented Design and Analysis. (4).
Discusses the features and advantages of an object-oriented approach to problem solving. Topics include abstraction, inheritance, polymorphism, object-oriented design, analysis, implementation and testing. Prerequisites: CSC 210.

CSC 321. Computer Organization and Architecture. (4).
Principles of computer organization and architecture are introduced from a layered point of view, beginning at data representation and progressing through the machine language execution cycle. Representative software-hardware tradeoffs in the implementation of various computer system components will be presented. The design and interface to a variety of peripheral devices will also be discussed. The emphasis will be on the hardware aspects of a computer system. Prerequisites: CSC 210, MATH 241.

CSC 322. Introduction to Robotics. (4).
An introductory study of the field of robotics-devices designed and programmed to perform various tasks. Topics include; hardware design (mechanical and electronic); software design; power subsystems; sensors; actuators; effectors; applications; comparison to biological systems; safety; societal impact and ethics. Student will study theory (lecture component) and build/program a robot (laboratory component). Prereq: Math-151.

CSC 325. Organization of Programming Languages. (4).
Covers introduction of major language histories, common components, built-in structures, compositions of basic structures, language specification, analysis techniques, runtime behavior, de-facto standards, and future developments. Prerequisites: CSC 210, MATH 241.

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This is the first course in system engineering that stresses the system development life cycle. Students learn ways of organizing the structure and process of building very large-scale systems that may or may not involve computers. Includes information gathering, design tradeoffs, implementation strategies, product liability, acceptable risk analysis and project follow-up. Prerequisites: CSC 210, MATH 241.

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CSC 340. Operating Systems. (4).
Discusses the major functionality and principles behind all major operating systems tasks, including user interface, hardware sharing among users, data sharing among processes, user protections, resources scheduling among users, multi-user environment, multi-processing and real-time systems. Prerequisites: CSC 210, MATH 241.

CSC 344. Web Design. (4).
Studies the backbone of dynamic Web documents. Subjects include Web design standards, and Web-based application programming to make layout, tables, style sheets, templates, libraries, frames and rollovers. HTML and script languages such as Java Scripts, GUI design paint tools and plug-ins are studied in depth. Prerequisites: CSC 210, MATH 241.

CSC 350. Data Communication & Networks. (4).
Includes discussion of distributed data processing, communication techniques, wide-area and local-area networks, integrated services digital network, open-systems interconnection, security and network management. Prerequisites: CSC 210, MATH 241.

CSC 355. Client/Server Fundamentals. (4).
Discusses modern technology in network communication and cooperative computation. Topics include discussion of client/server design concept, software expectation, hardware requirement, service, support and training issues. Prerequisites: CSC 210.

CSC 360. Computer System Security. (4).
An introduction of security issues in computer system and data communications, including Data Encryption Standard, public-key systems, digital signatures, ciphers, data compression, data manipulation and supporting techniques. Prerequisites: CSC 210, MATH 241.

CSC 370. Multimedia Technology. (4).
Introduces modern multimedia technologies. Topics include basic concepts, principles, sound, image, animation, standards, hardware and software requirements, new technologies, current research and practice, and future directions. Prerequisites: CSC 210, MATH 151.

CSC 400. Graphical User Interface. (4).
An introductory course to user interface design fundamentals. Topics include development methodologies, evaluation techniques, user-interface building tools, considerations in the design phase, identification of applicable design rules, and successful delivery of the design. Prerequisite: CSC 210.

CSC 405. Graphics. (4).
Review of graphic display architecture and graphic input devices. Coverage includes two- and three-dimensional drawing, viewing, clipping, transformations, shading and data structures for graphics systems. Prerequisites: CSC 220, MATH 241.

CSC 410. Database Management Systems. (4).
Studies the concepts and structures necessary to design and operate a database management system. Topics include data modeling, relational database design, and database querying. Prerequisites: CSC 210, MATH 241.

CSC 435. Competition Problem Solving. (4).
This course challenges students in real-world problem solving and prepares for the prestigious Association of Computing Machinery International Collegiate Programming Contest (ACM-ICPC). What is a good problem solving? It can be one that delivers the correct result. What is then a good competition problem solving? It is one that delivers the correct result in the expected amount of computation time. While there are a few classic problem-solving approaches, students in this course will learn to devise techniques in a deeper manner because most real-world problems command new approaches instead of the mere application of classic ones. Such skill will be of great importance for future advancement in both the industry as well as the academics.

CSC 482. Selected Topics. (1-4).

CSC 482C. ST: Select Topic (core). (1-4).
Select Topic approved for core.

CSC 490. Independent Study. (1-4).

CSC 492. Internship. (1-4).
(graded P/NC only).

CSC 493. Field Study. (1-2).

CSC 496. Directed Research. (1-3).

CSC 499. Capstone. (4).
Undergraduate research or development project. The exact nature of the project is negotiated with the sponsoring professor.

Criminology and Criminal Justice - Bachelor's Degree for Professionals

Criminology and Criminal Justice

42-44 Credits

Required Courses for Major		
CRIM 101	Introduction to Criminal Justice	4
CRIM 276	Criminal and Procedural Law	4
CRIM 335	Criminology	4
CRIM 412	Methods of Research and Statistics	4
CRIM 460	Senior Seminar: Criminal Justice	4
Choose one of the following:		
CRIM 482	Selected Topics	2-4
or CRIM 492	Internship	
Elective Courses in Major		
Choose 5 upper division Criminology and Criminal Justice courses		20

Courses

Lower Division

CRIM 101. Introduction to Criminal Justice. (4).
Introduces the student to the fundamental concepts, institutions, and formal and informal structures of American criminal justice. Includes a description and analysis of standard measures of criminal justice activity, crime reduction strategies and contemporary suggestions for improving criminal justice.

CRIM 105. Introduction to Law and Legal Process. (4).
Provides a critical understanding of the historical and philosophical foundations of law; topics include sources of legal tradition, the impact of law on society, judicial decision-making, and legal restraints and impediments. The course will familiarize students with electronic legal sources. Required for the Legal Studies minor, not required for the Criminal Justice major. (Cross-listed with POLS 105).

CRIM 276. Criminal and Procedural Law. (4).
A study of the concepts of criminal and procedural law as a social force; the historical development of law and constitutional provisions, legal definitions, classification of crime, case law and methodology of the study of law.

CRIM 282C. ST: Select Topic (core). (1-4).
Select Topic approved for core requirement.

Upper Division

CRIM 320. Critical Issues in Policing. (4).
Examines the social, legal and political issues affecting policing in a democratic society, including police accountability, responsibility, community policing, individual and organizational deviance, civil liability and the role of technology. Students analyze contemporary research as related to the police role. Pre-requisite: CRIM-101 or permission of the instructor.

CRIM 330. Contemporary Corrections. (4).
Examines current correctional practices (diversion, community supervision, institutionalization and special problems confronting correctional efforts) in light of historical, philosophical and social developments. Pre-requisite: CRIM 101 and sophomore standing or permission of instructor.

CRIM 335. Criminology. (4).
The analysis of the nature, causes and distribution of crime, with an emphasis on the relationship between theoretical explanations of crime and contemporary social responses. Contemporary research supporting crime control/prevention efforts is examined. Prerequisite: CRIM 101 or permission of instructor.

CRIM 340. Violence & Victimization. (4).
Victimology addresses the sources of violence, the relationships between victims and offenders, the interactions between victims and the criminal justice system, and the social, legal and institutional responses to violence and victimization. There is specific focus on the victims of violent crimes such as spousal abuse, workplace violence, predatory crime, and terrorism. Prerequisite: junior standing or permission of instructor.

CRIM 341. Criminal Psychology. (4).
Students examine theory, research, law and case studies to gain an understanding of the behavior of violent offenders. Research into biological, psychological and social causes is examined and evaluated. Additional topics include the role of the forensic psychologist, the science of profiling and the definitions and use of the insanity defense. Prerequisite: CRIM 101, junior standing or permission of instructor. (cross-listed with PSYC 341).

CRIM 350. Juvenile Delinquency. (4).
A study of the social and psychological factors contributing to juvenile delinquency and the societal and governmental attempts to prevent and control individual delinquent behavior. The role of the juvenile court and common intervention strategies are also examined.

CRIM 355. Family Violence. (4).
This course examines the ramifications of family violence as well as the broad issues surrounding domestic violence from an interdisciplinary perspective. Violence against women typologies and theories such as cycle of violence, dominance and control are among the sociological and psychological perspectives covered and crimes such as battering, sexual assault, child abuse, and elder abuse are analyzed in a broad social and political context. The legal perspectives on proactive arrest policies, restraining orders, and anti-stalking legislation that have emerged across the United States also are examined. Special attention is given to how these crimes affect women, men, children, and elders, and how the criminal justice system may better address the needs of victims and offenders. Prerequisite: Crim-101 or permission of the instructor.

CRIM 365. Comparative Justice Systems. (4).
Comparative justice systems analyzes crime patterns and justice procedures of common law or Western justice systems, with non-Western nations around the world. Specific emphasis on comparing criminal laws, law enforcement, the judicial process, and punishment philosophies of different countries. The course satisfies the global studies requirement. Prerequisite: Crim. 101 or permission of instructor.

CRIM 370. Deviance in U.S. Society. (4).
Introduces students to sociological concepts of deviance, social control, social power, and identity construction/management. Focusing on the topic of deviance, an explanation of how groups of people have the power to shape and apply social definitions of "normalcy" and "morality" will provide an analytical lens through which to look at the consequences for those labeled as "deviant." Minimum of sophomore standing. (cross-listed with SOC 370).

CRIM 392. Internship Via Luther College Program. (1-6).

CRIM 404. Constitutional Law in Criminal Justice. (4).
Emphasizes Supreme Court decisions and constitutional issues relevant to the Fourth, Fifth, Sixth, Eighth and Fourteenth amendments. Students are expected to research and present cases from the text and other legal sources. Prerequisite: junior standing or permission of instructor. (cross-listed with POLS 404).

CRIM 410. Substance Abuse. (4).
An overview of drug use in a historical and social context, primarily in the United States. The course covers alcohol and other controlled substances, paying particular attention to the implications of past and current drug use practices and policies for criminal justice agencies. Prerequisites: CRIM 101 and junior standing.

CRIM 412. Methods of Research and Statistics. (4).
The study of the major methods of research used in social inquiry. Emphasis is on the use of social surveys, qualitative interviews, data analysis and interpretation. The students will also make use of the computer by applying statistical software to data entry and analysis, finding patterns in the data, testing hypotheses and presenting findings using tables and graphs. Prerequisites: CRIM 101 and junior standing.

CRIM 420. White-Collar Crime. (4).
This course will provide students with a critical examination of white-collar crime and deviance, its impact on society, and what might be done to address this social problem. Cross-listed with BUS 420. Pre-requisite: Junior standing or permission of instructor.

CRIM 430. Gender, Race, Ethnicity and Crime. (4).
This course critically examines the impact of gender, race, ethnicity and class on crime and how the criminal justice system operates within these contexts. Also examines the impact of perception, stigmatization, theory, law and social policy on minorities and women as offenders, victims, and practitioners.

CRIM 440. Terrorism. (4).
The course focuses on the violence of terrorism and the strategic uses and justification of violence in political and religious life. The course explores the ideology and methods of terrorism by and against governments. An examination of legal and extralegal policies designed to counter terrorism are explored. Prerequisites: junior standing or permission of instructor. (cross-listed with POLS 440).

CRIM 445. Legal Reasoning. (4).
This course is designed for junior and senior students interested in law school, graduate school in public policy, or any profession touched by the law. (cross-listed with POLS 445).

CRIM 451. Forensic Investigations. (4).
Forensic investigations will familiarize students with the process of criminal and forensic investigations as they relate to the criminal justice process. Students will learn the various applications in criminal investigations which include forensics, interview/interrogation, search and seizure, use of DNA, policies and procedures. We will study the legal aspects of investigations and rules regulating the documentation, collection and analysis of evidence. We will explore the various investigative techniques used to detect, prevent, and study crime and behavior. This is a lecture-based and discussion course, so we will rely upon both audible and visual learning theories. The text will be used during lecture hours, but the reading assignments occur outside of class hours. Supplemental materials will be distributed in class and/or posted upon the class website. There will also be several experiential learning activities outside of the classroom. These will be announced in advance. Cross-listed with PSYC 451. Prerequisite: CRIM 101 or PSYC 200 and junior or senior standing.

CRIM 460. Senior Seminar: Criminal Justice. (4).
A social, political, legal and philosophical examination of contemporary criminal justice policy. Includes analysis of ethical issues confronting the police, courts and corrections and their impact on criminal justice practitioners, clients and the public. Prerequisites: senior standing, completion of all required major courses.

CRIM 482. Selected Topics. (1-4).

CRIM 482C. ST: Select Topic (core). (1-4).
Select Topic approved for core.

CRIM 490. Independent Study. (1-4).

CRIM 492. Internship. (2-4).
Criminal justice majors are required to complete an internship in a criminal justice agency or related area in their junior or senior year. (graded P/NC only).

CRIM 496. Directed Research. (1-3).

Organizational Leadership - Bachelor's Degree for Professionals

Bachelor of Science in Organizational Leadership

44 credits minimum; 40 upper division credits in Business Administration, Communication, Psychology and Religion. 2.0 minimum GPA.

BUS 301	Communication for Managers	4
or COMM 306	Business and Professional Communication	
BUS 367	Behavior in Organizations	4
ECON 311	Statistical Methods	4
PSYC 200	General Psychology	4
PSYC 401	Social Psychology	4
BUS 368	Human Resource Mangement	4
BUS 446	Theories and Practice of Leadership	4
BUS 448	Organization Development	4
BUS 449	Managerial Leadership: Core Competencies	4
BUS 460	Leadership Development (Capstone)	4
Select one of the following:		
PHIL 370	Business Ethics	4
RLTH 350	Contemporary Christian Ethics	4

Psychology - Bachelor's Degree for Professionals

Bachelor of Arts in Psychology

36 credits minimum; 24 credits upper division. 2.0 minimum GPA.

PSYC 200	General Psychology	4
PSYC 222	Abnormal Psychology	4
PSYC 312	Research Design and Statistics I	4
PSYC 313	Research Design and Statistics II	4
PSYC 331	Physiological Psychology	4
Select one of the following:		4
PSYC 304	Child and Adolescent Development	4

PSYC 325	Theories of Personality	4
PSYC 401	Social Psychology	4
Select one of the following:		4
PSYC 315	Principles of Learning and Memory	4
PSYC 340	History and Systems of Psychology	4
PSYC 416	Human Behavior:principles & Application	4
		4
CAPSTONE		
PSYC 435	Counseling and Psychotherapy	4
Additional Psychology Credits		4

Minor in Psychology

19 credits minimum; 12 credits upper division. 2.0 minimum GPA.

PSYC 200	General Psychology	4
Psychology Electives (12 credits must be upper division)		15
Total Hours		**19**

Courses

Lower Division

PSYC 200. General Psychology. (4).
Covers the concepts and principles pertinent to psychological processes as social behavior, development, perception, thinking and symbolic processes, physiology, personality and psychological disorders. Introduces students to the empirical foundation of the discipline of psychology. Prerequisite to all courses in psychology except PSYC 203, Psyc 207 and PSYC 215.

PSYC 203. Understanding Emotion. (4).
This course provides an introduction to the study of emotions. Themes covered include the biological basis of emotions, individual differences in emotionality, emotions in social relationships, cultural understanding of emotions, emotions and psychopathology, and Ganzheitspsychologie. Emphasis on research methodology and ethics is also covered.

PSYC 215. The Psychology of Sex and Gender. (4).
An exploration of research and issues surrounding gender from a psychosocial perspective, with an emphasis on the interaction between biological and social theories. The implications of social roles, status, and gender-related traits on relationships and health that are central to students' daily lives are emphasized throughout. Methodological flaws the may impact the observance of sex differences are also examined.

PSYC 222. Abnormal Psychology. (4).
A survey and critique of traditional diagnostic categories of mental illness, as well as theory and research findings regarding their causes and treatment. Students will be introduced to a variety of approaches, including psychoanalytic, cognitive, behavioral, humanistic and biological models. Prerequisite: PSYC 200.

PSYC 282C. ST: (core). (1-4).
Select Topic approved for core.

Upper Division

PSYC 304. Child and Adolescent Development. (4).
Study of theories and principles pertaining to the developmental characteristics of children and adolescents in terms of the physical, mental, emotional and social development of the individual. Meets the gender/ethnic studies requirement.

PSYC 305. Adult Development and Aging. (4).
Study of theories and principles pertaining to the developmental characteristics of adults, including the aged, in terms of the physical, mental, emotional and social development of the individual. Meets the gender/ethnic studies requirement.

PSYC 312. Research Design and Statistics I. (4).
Research Design and Statistics 1 is the first of a two-course sequence in Psychology designed to prepare undergraduate psychology majors to develop the knowledge and skills needed to design, implement and analyze psychological research. This course will introduce students to a variety of research designs and statistical analyses including descriptive statistics, correlation, t-tests, and ANOVA. (Prerequisite: MATH 115 of MATH 151 or equivalent).

PSYC 313. Research Design and Statistics II. (4).
Research Design and Statistics II is the second course in a two-course sequence designed to assist undergraduate psychology majors in developing the knowledge and skills needed to design, implement, analyze, and present psychological research. Building on the skills learned in PSYC 312; students will continue to develop knowledge about psychological research with a focus on correlational, experimental, and quasi-experimental designs. Students will design and implement one or more research projects. The project will culminate in an APA-style research paper and poster presentation. This course is a writing intensive course (Prerequisite: C- or above in PSYC 312).

PSYC 315. Principles of Learning and Memory. (4).
Explorationof the adaptive processes of learning in organisms including habituation, Classical Conditioning and instrumental conditioning. Additional emphasis on animal learning and memory processes, and animal cognition. Topics are discussed from an empirical foundation.

PSYC 321. Human Cognition. (4).
Examines perception, attention, memory, language and problem solving. In addition to studying research and theory, students experience and observe cognitive processes in computer labs and class demonstrations. Cognitive deficits and rehabilitation are discussed in each topic area.

PSYC 325. Theories of Personality. (4).
The analysis of the theories of personality in terms of structure, dynamics and development. Biological, social and cultural determination of personality are considered, as well as characteristic research and research methods.

PSYC 330. Psychological Assessment. (4).
Studies the principles and practices of group and individual testing in the fields of intelligence, aptitude, achievement, personality and vocational interest. Includes an introduction to the MMPI-2 and Wechsler tests and projective techniques.

PSYC 331. Physiological Psychology. (4).
Studies the physiological aspects of human behavior, with special emphasis on neurological structure and functions as related to sensation, psychopathology, and other psychological processes. Prerequisite: PSYC 200.

PSYC 338. Sport Psychology. (4).
This course is designed to help students both learn theory and then apply practical as well as theoretical information as it relates to the psychology of sports in its various forms. Various mental training skills that can enhance one's athletic performance will also be covered. Some of the areas related to this class that will be explored this semester include stress, motivation, goal-setting, leadership, and imagery. Personality theory, as it relates to athletic competition, as well as competition in the "real world," will also be investigated. The class periods will consist of three components: 1) lecture, 2) discussions, and 3) a period of time during which films and small group exercises will take place.

PSYC 340. History and Systems of Psychology. (4).
An overview of the historical foundations of contemporary psychology, including an examination of major systems of thought and theoretical applications of each in the areas of sensation, perception, learning, motivation, emotion, personality and social behavior.

PSYC 341. Criminal Psychology. (4).
Students examine theory, research, law and case studies to gain an understanding of the behavior of violent offenders. Research into biological, psychological and social causes is examined and evaluated. Additional topics include the role of the forensic psychologist, the science of profiling, and the definitions and use of the insanity defense. (cross-listed with CRIM 341).

PSYC 342. Art and Psychology. (3).
This course is offered in the Art and Psychology departments for those students who are interested in the synergy between art and psychology. It satisfies the CORE 21 Participatory Art requirement. It is especially relevant for students with majors in art or psychology or both who are interested in an MFT/ATR (registered art therapist) graduate program. For all others, the course provides an overview of art history, design, production and aesthetics with an emphasis on psychological theories and current neuroscience research. Child development and family systems are addressed in relation to therapeutic uses of art. Visual thinking and creativity are explored and utilized in the production of self-expressive art works. Cross-listed with ART-342.

PSYC 345. Health Psychology. (4).
Examines the use of behavior therapy procedures in relation to the prevention and treatment of various disorders such as chronic pain, cancer, hypertension, alcoholism, smoking and eating disorders. The use of psychological issues and treatment procedures as they relate to etiology and maintenance of these disorders is emphasized and specialized areas such as clinical behavioral pediatrics, type A behavior and terminal illness are discussed.

PSYC 401. Social Psychology. (4).
Studies the influence of personal, group and social systems on individual attitudes and behavior. Includes socialization, social perception, attraction, aggression, prejudice, conformity, altruism and related topics, as well as the discussion of theories, methods and contemporary research.

PSYC 412. Advanced Research Design and Statistics. (4).
Advanced Research Design and Statistics is a required course for undergraduate psychology majors seeking a bachelor of science degree in psychology. This course is designed to provide students with an opportunity to build on their knowledge of correlational and experimental research methodologies and basic approaches to statistical analyses. Taught as a seminar course, students will be required to design and implement an original research project which utilizes a mixed methodological approach. In addition, students will be introduced to the theoretical underpinnings of advanced statistical analyses (Prerequisite: PSYC 313).

PSYC 416. Human Behavior:principles & Application. (4).
Covers the principles and procedures of Applied Behavior Analysis, Classical Conditioning, and Bandura's Social Cognitive Theory as they apply to multiple areas of human behavior. In addition to trying out various behavioral interventions and measures on themselves, students read and discuss current literature in behavior analysis related to the etiology and treatment of behavior disorders, health practices, anxiety disorders, childhood disorders and interpersonal relationships.

PSYC 417. Cultural Psychology. (4).
This course provides a systematic overview of knowledge about cultural organization of human psychological functions, and how psychology as a research discipline can study these functions. Strong theoretical and methodological orientation is included. Prerequisite: PSYC 200.

PSYC 421. Human Cognition. (4).
This course examines cognitive processes in humans. Emphasis is placed on research about perception, attention, memory, language, problem solving, and the means by which this research can be applied to our daily lives. .In addition to studying research and theory, students experience and observe cognitive processes in computer labs and class demonstrations. Cognitive deficits are discussed in many topic areas.

PSYC 422. Child Psychopathology. (4).
This course is designed to give students an introduction to abnormal child psychology. We will study the major disorders typically diagnosed in childhood, including the DSM-IV-TR diagnostic criteria, the current information on the etiology of the disorders, as well as the current research on the most effective assessment and treatment for these disorders.

PSYC 430. Applied Psychology Practicum. (4).
This course involves the application of psychological principles to personal and social problems of everyday life. Topics include positive psychology, problem solving, stress, career development and intimate relationships. Theory is integrated with practical application. Students conduct and present an individual self- change project and complete some hours of community service.

PSYC 435. Counseling and Psychotherapy. (4).
An introduction to the theories, problems and techniques of counseling and therapy. Prerequisites: PSYC 222 and PSYC 325.

PSYC 450. Sensation and Perception. (4).
Introduction to the basic sensory and perceptual processes of humans with an emphasis on vision and audition.

PSYC 451. Forensic Investigations. (4).
Forensic investigations will familiarize students with the process of criminal and forensic investigations as they relate to the criminal justice process. Students will learn the various applications in criminal investigations which include forensics, interview/interrogation, search and seizure, use of DNA, policies and procedures. We will study the legal aspects of investigations and rules regulating the documentation, collection and analysis of evidence. We will explore the various investigative techniques used to detect, prevent, and study crime and behavior. This is a lecture-based and discussion course, so we will rely upon both audible and visual learning theories. The text will be used during lecture hours, but the reading assignments occur outside of class hours. Supplemental materials will be distributed in class and/or posted upon the class website. There will also be several experiential learning activities outside of the classroom. These will be announced in advance. Cross-listed with CRIM 451. Prerequisite: CRIM 101 or PSYC 200 and junior or senior standing.

PSYC 482. Selected Topic. (4).

PSYC 482C. ST: (core). (1-4).
Select Topic approved fill core requirement.

PSYC 485. Clinical & Social Psychology South Afric. (4).
This course introduces you to South African society and culture through the lenses of social and clinical psychology. South Africa has a unique history and society that presents distinct social, developmental, and clinical experiences that its population shares. Students will learn about the history and society of South Africa in order to better understand its culture and the psychology of its population. In addition, students will study how clinical psychology is practiced in this country in order to address its members mental health needs. This course will focus specifically on the social and relational elements of this country and its mental health practices. Through this process, students will develop cross-cultural competencies and they learn about and experience the unique elements of South African culture and psychology, as well as the universal human foundations that are shared in U.S. society.

PSYC 490. Independent Study. (1-4).

PSYC 492. Internship. (1-4).
(graded P/NC only).

PSYC 494. Clinical Practicum. (4).
This course has two components- a weekly seminar and six hours per week in a field setting working with a client who is mentally ill, intellectually disabled, behaviorally disordered, or individuals with ASD. Under the supervision of the instructor and the clinical staff at their placement, students develop, implement and evaluate a behaviorally based clinical intervention for their client. While the instructor can assist students in finding a placement, students are ultimately responsible for securing one. Prerequisite: PSYC 222 and PSYC 416 or PSY 315; enrollment by permission of the instructor. Also, Psych 494 serves as a Capstone for both the BA and the BS in Psychology.

PSYC 495. Research Practicum. (4).
This course offers students the opportunity to design, carry out, and present out their own research study. Students will gain a working knowledge of all aspects of research, which include planning and design of studies, project coordination, administration of measures, data management, and both written and oral presentation of their findings.

PSYC 496. Directed Research. (1-3).
By Permission Only.

PSYC 497. Departmental Honors. (4).
By Permission Only.

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