



2012–2014

University of Redlands

Catalog



Mission Statement

The University of Redlands is a private, independent liberal arts university committed to providing a personalized education that frees students to make enlightened choices.

Redlands emphasizes academic rigor, curricular diversity, and innovative teaching. Redlands fosters a community of scholars and encourages a pluralistic notion of values by challenging assumptions and stereotypes in both classes and activities. A Redlands education goes beyond training to embrace a reflective understanding of our world; it proceeds from information to insight, from knowledge to meaning.

Welcoming intellectually curious students of diverse religious, ethnic, national, and socioeconomic backgrounds, the University seeks to develop responsible citizenship as part of a complete education. Redlands encourages a community atmosphere with exceptional opportunity for student leadership and interaction. For working adults, the University offers innovative academic programs at convenient locations and times.

Redlands blends liberal arts and professional programs, applied and theoretical study, traditional majors and self-designed contracts for graduation. Small classes enable each student to participate in class discussion, to work closely with professors, and to receive extensive individual attention. Redlands remains sensitive to contemporary trends in society and challenges students to commit themselves to a lifetime of learning.

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Introduction to the University

Located in Redlands, California, the University of Redlands is an independent, coeducational liberal arts and sciences university of 4,600 students. Approximately 2,500 of these students are enrolled in the College of Arts and Sciences, with over 75% residing in on-campus housing. The remainder of the student body is enrolled in the University's programs for working adults in business or education, attending classes either on campus or at locations throughout Southern California.

The University is accredited by the Western Association of Schools and Colleges and is governed by a Board of Trustees. It is one of 280 colleges and universities in the country to have an active chapter of Phi Beta Kappa.

Founded in 1907 by the American Baptists, Redlands maintains an informal association with that denomination. The University has always been widely inclusive. We value the diversity of our faculty, staff, student body, and trustees. As the first catalog declared in 1909:

The University of Redlands will avoid sectarianism and narrowness in its teachings and policy. It is a school to which anyone may come for college training without having his denominational preference interfered with in the least. Its aim is to educate the heart as well as the head, and to develop the student physically, intellectually, and morally.

For over 100 years, the University of Redlands has offered its select student body a high-quality, personalized education that blends liberal arts and professional preparation.

The University defines itself as a community of scholars and encourages a value-centered education by challenging assumptions and stressing moral concerns in both classes and activities. A commitment to liberal education forms the foundation of the University's programs. Skills and values developed in this context not only support specific disciplines but also promote professional flexibility and personal growth.

In seeking to develop responsible citizenship as part of a complete education, faculty members and other personnel strive to provide students with a variety of opportunities for learning and personal growth through excellent teaching and close personal interaction beyond the classroom. Intense

intellectual activity is complemented by time for quiet reflection as well as programs for cultural enrichment, community involvement, recreation, and social life.

The University's full-time faculty consists of 211 teaching faculty, librarians, and coaches. Ninety-one percent of the teaching faculty hold a Ph.D. or other terminal degree.

The College of Arts and Sciences

The College of Arts and Sciences offers undergraduate majors and minors in more than 40 departments and programs grounded in the liberal arts. A smaller number of graduate programs are offered at the master's level in Communicative Disorders, Geographic Information Systems (GIS), and the School of Music. Numerous opportunities exist for students to take advantage of special honors courses on campus and approved off-campus study programs throughout the world.

The faculty of the College of Arts and Sciences is both talented and dedicated to the learning process. Classes are generally small, and individual attention to students is a hallmark of a Redlands education. In addition to their work with students in regular classes, faculty members mentor students in many ways, from First-Year Seminars (where faculty members serve as academic advisors as well as teachers of first-year students) to guiding students in selecting, planning, and completing majors. Faculty members work closely with students in such areas as individualized studies, field work, community service learning, and summer research projects, leading May Term travel courses, supervising internships, guiding senior projects, and advising for postgraduate education and careers.

Students in the College of Arts and Sciences may enroll in almost any course (assuming they satisfy prerequisites), regardless of major, and are encouraged both to study in depth in a major and to explore the range of ways of knowing and creating through the Liberal Arts Foundation and additional elective courses.

Introduction to the University

The Johnston Center for Integrative Studies

The College of Arts and Sciences' Johnston Center for Integrative Studies allows students to design their own education in consultation with faculty advisors. Students write contracts for their courses and receive narrative evaluations in lieu of traditional grades. The Center has received national acclaim for its innovative approaches to education.

The School of Education

Founded in 1924, the School of Education has prepared leaders in California public and private education. Teachers, counselors, and administrators have selected Redlands for its long tradition of academic excellence, personalized approach to instruction, innovative programs, and focus on educational justice. The School offers multiple- and single-subject teacher credential programs to University undergraduate students and to applicants who have earned their baccalaureate degrees. The School also has five master's programs: educational administration, school counseling, curriculum and instruction, higher education, and clinical mental health. For those holding master's degrees, the reading certificate, the CLAD certificate, the pupil personnel services, and both preliminary and professional-level administrative services credentials are offered as credential-only programs. Intern credentials are available to students who receive contract offers from districts while still enrolled in their degree programs. Students may also pursue the Doctorate in Leadership for Educational Justice (Ed.D.). Professional development and teacher induction courses are taught in partnership with area school districts. All credentials are accredited by the California Commission on Teacher Credentialing. The teacher credentials are aligned with the SB2042 standards, and service credentials meet current state standards. Students receive personal attention from an outstanding full-time faculty, seasoned adjunct practitioners, and experienced field supervisors. The curriculum purposefully blends theory and application, integrating professional development and

personal reflection into each of its programs of study. The School also features the Center for Educational Justice, which sponsors institutes, symposia, workshops, and other educational efforts related to social advocacy, research, and policy development.

The School of Business

In 1976, the University founded the Alfred North Whitehead College for Lifelong Learning, dedicated to providing high-quality education for adult students who are employed and wish to undertake advanced undergraduate or graduate study. Recognizing the evolution of its adult business programs, the University formally launched the School of Business in the Fall of 2001. The School now has over 35 years of experience in delivering business programs to working adult professionals. Its mission is to train the business leaders of tomorrow in critical thinking and analysis skills, enhance their communication abilities, teach functional business skill sets, and develop community relationships that allow our graduates to deploy their education to improve their companies and communities. The core emphases of the School are global business, ethics, sustainability, and geographic information systems. These emphases are recognized through the Banta Center for Business, Ethics, and Society, the Institute for Spatial Economic Analysis, the Center for Business and Applied GIS, and our International Business Initiatives, which offer students travel opportunities focusing on global business and sustainability in Asia, India, Scandinavia, England, and southern Europe. Undergraduate programs are offered in business and management. Graduate programs are offered in business administration, information technology, and management. School of Business courses are held on the main campus and in seven other locations throughout Southern California.

The School of Continuing Studies

The School of Continuing Studies extends the academic excellence of the University by providing high-quality, non-degree courses, workshops, and certificate programs for adult working students. The School offers

courses and certificate programs in areas such as accounting, marketing, organizational leadership, project management, human resources management, and health-care administration. Classes are taught on the main campus and seven regional campuses throughout Southern California. The School of Continuing Studies offers customized certificate programs, workshops, and courses for individual businesses and organizations based on their specific requirements and tailored to their organizational needs.

The Campus Setting

Located in Southern California 65 miles east of downtown Los Angeles, the University of Redlands is noted for its spacious tree-lined campus and its accessibility to a variety of diverse natural and cultural attractions. The natural beauty of the campus is enhanced by its proximity to high and low deserts, ski resorts, and hiking trails in nearby mountains. Beaches and amusement attractions are little more than an hour's drive. Equally accessible are nationally known art galleries, libraries, theatres, and music centers. The University's home, the historic city of Redlands, is regarded as one of Southern California's most livable cities.

The University itself serves the surrounding community as a rich source of cultural and educational programming. It is home to the Redlands Symphony Orchestra and sponsors numerous performances in music and theatre, as well as exhibits in the Peppers Art Gallery. It also provides a forum for the exchange of ideas, as speakers of national and international importance visit the campus each year to participate in the Convocation Series, President's High Tables, Visiting Writers Series, the Charlotte S. Huck Children's Literature Festival, and events sponsored by the Jameson Center for the Study of Religion and Ethics. Members of the faculty also present public lectures, mini-courses, and discussions on a range of topics of current interest throughout the year.

Sixty-four buildings, including 12 residence halls housing over 75% of the students in the College of Arts and Sciences, are situated on the 160-acre campus. The University

has one apartment complex and 15 organizational houses which offer students a variety of living environments from which to choose. The campus is also home to the Orton Center, a modern conference building; the 1,500-seat Memorial Chapel, site of many major events as well as voluntary weekly worship services; the 350-seat Glenn Wallichs Festival Theatre; the Alumni-Greek Amphitheatre; and the Alumni House.

The Fine and Performing Arts

The new Center for the Arts offers 42,000 square feet of state-of-the-art facilities for art and theatre students. The new Art Building provides classrooms, workshops, art studios, and faculty offices for the Art Department. In addition, the Glenn Wallichs Theatre building has been expanded to include the new Frederick Loewe Theatre, a flexible black box theatre.

Each year the Redlands Symphony Association, in cooperation with the University of Redlands School of Music, presents a full season of concerts featuring the Redlands Symphony Orchestra. Student tickets for these concerts are available for reduced rates.

The University Choir, closely linked to campus life, presents the annual Christmas festival, "The Feast of Lights." Music majors use their talents to perform in a variety of events, including recitals, jazz, symphonic, and orchestral concerts both on and off campus.

Music and theatre are closely associated at Redlands. The School of Music and the Theatre Department each present major offerings each semester and host guest artists and musical master classes in addition to dramatic productions. Students are encouraged to participate in all phases of these programs.

Peppers Art Gallery exhibits original works by visiting artists, students, and faculty representing a wide range of media and styles.

The Hunsaker University Center

Located in front of Armacost Library, the Hunsaker University Center is known as the "living room" of the campus. Its buildings contain the main student dining hall, a "grab and go" food service area, a market, a luncheon restaurant, the student bookstore,

Introduction to the University

seminar and discussion rooms, offices for student government, student mail boxes, and a post office. The Center is named in honor of Richard and Virginia Moses Hunsaker, both graduates of the Class of 1952 and major donors to the University.

The Hunsaker University Center includes the Offices of Student Life, Residence Life and Housing, Community Service Learning, Student Leadership and Involvement, Campus Events, and Campus Diversity and Inclusion, which incorporates the Multicultural Center, Pride Center, and Women's Center as well as First-Generation Student Programs and Native American Student Programs.

The Armacost Library

The Armacost Library plays an integral role in the intellectual and cultural life of the University of Redlands. The Library contains more than 700,000 books, periodicals, CDs, videos, DVDs, music scores, maps, government documents, archival documents, microforms, and e-books. Special collections housed in the Library include the Farquhar Collection of California and the Great Southwest, the MacNair Far Eastern Collection, the Irvine Map Library, the Hawaii-Pacific Collection, and the Barney Childs Collection. Additionally, the Library has been a federal document depository since 1934 and houses an impressive collection of U.S. government documents and maps.

Librarians actively support students, faculty, and other members of the University community, providing information literacy instruction and research assistance both in person and virtually, and helping them locate, evaluate, and use information in various formats. The Library's online catalog and numerous databases, many of which provide access to full-text journal articles, allow research to occur anywhere. On campus, the comfortable seating, quiet study space, and group study areas, along with more than 40 computer workstations and the campus wireless network, make the Library an attractive place to study and research.

To facilitate research, materials that the Library does not own can be obtained through an efficient, far-reaching Interlibrary

Loan service. Students may also take advantage of local collections from nearby libraries through membership in the Inland Empire Academic Libraries Cooperative, which allows students from member schools to borrow materials from nearby academic libraries.

The Academic Computer Center

The Fletcher Jones Foundation Computer Center, located in the lower level of the Armacost Library, supports and enriches the University's academic programs. The Fletcher Jones Center is home to the General Computer Lab, five computer classrooms, and six collaborative learning spaces. The General Computer Lab features both PC and Macintosh computers, scanners, and laser printers that are available for assigned academic work and research. Faculty and students from the College of Arts and Sciences and the Schools of Education and Business use the projection-equipped computer classrooms for instructional sessions and special projects. A variety of productivity and course-related software is provided in all of the Fletcher Jones Center computer classrooms, as well as in the computer classrooms located across the main campus and at the regional centers. The collaborative learning spaces are comfortable, quiet work areas, with furnishings and technology designed to encourage group work on course projects.

Media Services, also located in the lower level of the Armacost Library, offers equipment for instructional purposes, including data projectors and laptops, video cameras, TVs, VCRs, overhead projectors, slide projectors, and cassette tape recorders. Enterprise Services manages the high-speed fiber optic campus data network which connects all administrative offices, academic computing facilities, and residence halls. ResNet assists students in connecting their personal computers and smart devices to the data network.

Academic Standards

Please refer to the Table of Contents for a detailed list of topics covered in this section. Unless otherwise noted, policies apply University-wide. Please refer to the Academic Standards Chapters of the School of Education and the School of Business for policies specific to those schools.

ACADEMIC STANDING AND ACADEMIC ACTIONS

Undergraduate Academic Standing—College of Arts and Sciences

Satisfactory Academic Standing

A student who is making reasonable progress toward graduation (measured by completed credits toward graduation) and who is not subject to academic probation or academic disqualification (see below) is considered to be in good standing. A minimum cumulative GPA of 2.00 in all work taken at the University, and in the major, minor, and related fields, is necessary to graduate.

Athletic Eligibility

In order to participate in varsity Intercollegiate Athletics, all student-athletes must be enrolled full-time (minimum of 12 units) for the entire competitive season and maintain a minimum 2.00 cumulative GPA. Athletic eligibility is not granted to those students who have not met all eligibility standards set by the NCAA, the SCIAAC and the University of Redlands. Additionally, students on academic probation must successfully petition the academic dean in order to continue their participation in intercollegiate athletics while on probation status.

Academic Warning, Probation, and Disqualification

Undergraduates who fail to meet the minimum requirements for good standing may be placed on probation or disqualified. Students who encounter academic difficulty are strongly encouraged to seek assistance from faculty, their academic advisors, and the Student Services Center.

Students receive letters specifying the terms of academic probation. Students on

academic probation may not carry an overload of academic credits.

Academic Warning

Students will receive an academic warning if they have a semester GPA between 1.01 and 1.99, even if their cumulative GPA is 2.00 or higher. Students placed on warning receive a letter indicating this status, but (because they are considered to be in good standing) this action is not reflected on transcripts.

Academic Probation

Academic probation indicates that a student's difficulties are serious and his or her continuation at the University has been placed in question. Students have two consecutive semesters to restore their cumulative GPA to the 2.00 required for continuing registration and for graduation. Either of the following conditions will result in academic probation:

1. a cumulative GPA below 2.00;
2. a semester GPA of 1.00 or lower regardless of the cumulative GPA.

Students on academic probation must complete at least 12 credits per semester and must achieve a GPA of at least 2.00 in each semester of academic probation, or they will be academically disqualified.

Continued Academic Probation

Students whose academic difficulties remain serious will continue on academic probation. Students are continued on academic probation if they have two consecutive semesters with a GPA below 2.00. Students continued on academic probation must complete at least 12 credits per semester and must achieve a GPA of at least 2.00 in each semester of academic probation, or they will be academically disqualified.

Academic Disqualification

Academic disqualification bars a student from further study at the University of Redlands for at least one year. Students are subject to academic disqualification if their cumulative GPA falls below 2.00 for three consecutive semesters or if they fail to achieve a semester GPA of at least a 2.00 during a semester of academic probation.

Academic Standards

Restoration to Satisfactory Academic Standing

Students are automatically restored to good standing when their cumulative GPA reaches 2.00. Students should be aware that in addition to an overall GPA of 2.00 or higher, they must attain a cumulative GPA of 2.00 or higher in their major, minor, and related fields to qualify for graduation.

Reinstatement from Academic Disqualification

Academic disqualification may be appealed to the Academic Review Board (ARB). Appeals include the following documentation:

1. a personal statement from the student analyzing her/his academic load, work commitment, social and extracurricular activities, any other factors that might have contributed to poor performance, and the specific actions the student has taken and will take in the future to correct the situation (required);
2. a letter of support from the student's academic advisor indicating a plan for restoration to satisfactory academic standing (required);
3. a letter from the chair of the student's major program indicating that the student should be readmitted and will be able to complete her/his major program by the time she/he intends to graduate (required—provided the student has declared a major);
4. additional letters of support from faculty, staff, administrators, or others (optional);
5. for students who have spent time away from the University of Redlands since academic disqualification, official transcripts of work completed during that time away forwarded to the ARB (required) or letters of support from their places of employment as applicable (optional);
6. supporting documents from qualified professionals for students who have experienced medical difficulties or other unusual circumstances.

Students who appeal successfully will have the action on their transcripts changed from Academic Disqualification to Academic Probation.

Academic Standing—Johnston Center for Integrative Studies

Given the narrative evaluation system used for Johnston courses, decisions of reasonable progress and academic standing—warning, probation, and disqualification—are made by the Center Director according to the following procedure. Evaluation of reasonable progress and recommendation of academic eligibility for scholarship support to the Financial Aid office follow the same procedure.

After the end of each semester, the Johnston Director and the Johnston Registrar review the files of students experiencing academic difficulty. Materials addressed in the files include evaluations and the status of the student's graduation contract. Students whose records indicate difficulty are placed on either academic warning or academic probation. Students who continue to have serious difficulties after a semester of academic probation are subject to either academic disqualification or disqualification from the Johnston Center. Students are notified of the decision prior to the start of the following term. All academic actions, except warnings, are noted on student transcripts.

A cumulative GPA is not used to determine academic standing for Johnston students until a student has accumulated at least half of the work completed at the University of Redlands has been numerically graded. When a cumulative GPA is used, it is considered in conjunction with information provided in the narrative evaluations. Conditions for restoring good standing can be found in the "Academic Warning, Probation, and Disqualification" section of this section. Since financial aid awards are tied to reasonable progress and, in some instances, quality of overall academic performance, the Center Director also assesses the records of those students on financial aid. Evaluation of reasonable progress and the level of performance is presented to the Financial Aid office. Appeals of the evaluation are addressed to the Center Director.

Graduate Academic Standing

A minimum cumulative GPA of 3.00 (based on a 4.00 scale) in all graduate work taken at the University of Redlands is required to qualify for a degree. A student whose cumulative GPA falls below 3.00 at the end of any term will be placed on probation and allowed one term to restore the cumulative grade point average to 3.00. Any student who fails to restore his or her cumulative GPA to 3.00 at the end of the probationary period will be academically disqualified. Academic disqualification also occurs if a student receives one grade of 0.0 or two grades of 1.0.

Credit for a course graded below 2.0 (under the numerical grade option) cannot be applied toward a graduate degree. However, the course may be retaken with the second grade determining acceptability toward both the degree and the grade point average. The first grade will remain on the student's permanent record but will not become part of the cumulative grade point average.

Theses are graded only as High Pass, Pass, or Fail, as determined by the examining committee upon completion of the oral examination. Such grades are not included in the calculation of the GPA, nor are they recorded on the transcript.

THE ACADEMIC REVIEW BOARD (ARB)

The Academic Review Board, which reports to the Committee on Academic Planning and Standards, has the following responsibilities with regard to academic matters:

1. to review and approve all recommendations of the Office of Academic Affairs regarding the academic status of students as established by the guidelines of the Faculty Assembly;
2. to review, upon receiving a valid appeal from a student, any decision to disqualify the student for academic reasons;
3. to hear the case and make a decision regarding the sanction to be imposed on any student accused of violating the Policy on Academic Honesty;
4. to rule, in consultation with the department or individual involved, on any

request by a student for a variance or exemption from any of the general graduation requirements (such exemptions are seldom given);

5. to act on appeals by students who have failed to comply with University deadlines in cases where exceptional circumstances made compliance impossible;
6. to review exceptions to satisfactory academic progress to determine financial aid eligibility;
7. to review petitions appealing disputed grades and determine whether changes are appropriate. (Students are responsible for following the procedures outlined under "Disputed Grades.")

A student may bring a matter to the attention of the ARB by filing a formal petition with the Registrar's office. Policy does not permit individuals to appear concerning any case except those involving academic dishonesty; the Board acts only on written statements and documentation. A student must present a very strong case to be exempted from the usual rules of the University. Decisions of the Board are final.

Disputed Grades Policy

The grade an instructor awards cannot be changed by anyone other than the instructor of record. A disputed grade given by a University of Redlands instructor may be appealed to the ARB for mediation and resolution. Decisions of the Board in such cases are final and are not subject to further appeal. If the appeal is approved, the ARB may recommend that the student's registration for the course be changed to the Credit/No Credit (CN) grade option and recorded as CR (Credit) or NC (No Credit) as appropriate given the instructor's grade. Credit and No Credit grades are not computed in GPAs. (See "Credit/No Credit Grading Option.")

Grounds for Appealing Grades

The following are considered grounds for appeal of a grade:

1. capricious and inconsistent grading standards;
2. significant deviation from criteria stated in the course syllabus;
3. personal vindictiveness or prejudice on the part of the instructor;

Academic Standards

4. gross professional incompetence or grossly unprofessional behavior on the part of the instructor; or
5. unreasonable expectations or requirements made by an instructor that are grossly inconsistent with standard practice and expectations.

Decisions Regarding the Appeal of Grades

The burden of proof rests entirely with the petitioner. The decision of the committee, which is final, includes the following options:

1. no action, in which case the disputed grade will stand;
2. change of grading option to Credit/No Credit. Credit is awarded for 2.0 or higher (undergraduate) or 2.7 or higher (graduate); or
3. withdrawal from the course. The student's transcript will reflect a "W" for the course.

If a change of grading option is permitted by the Board, a letter explaining the change will be held in the student's file. Under these circumstances, a change to Credit does not affect the applicability of the course to major requirements or, for Arts and Sciences students, to Liberal Arts Foundation requirements.

Procedure

The following steps must be taken for an appeal to be reviewed by the Board. **Petitions that do not follow procedures will not be considered.**

1. The student first should discuss any complaints with the instructor.
2. If the student remains dissatisfied, she or he should contact the department chair or program director, who may review the case and attempt to mediate the dispute.
3. If a dispute remains unresolved, an appeal may be brought to the ARB.
4. Appeals of grades must be filed no later than six weeks into the following semester for Arts and Sciences students or six weeks following the end of the class in question for School of Business and School of Education students. Appeals must be submitted in writing. Supporting documents and statements

by others must be filed at the same time as the petition.

5. The chair of the Academic Review Board will invite a written response from the instructor involved.
6. Policy does not permit individuals to appear concerning any case except those involving academic honesty. The Board acts only on written statements and documentation.
7. Results of the appeal are communicated by the chair of the board to the petitioner, faculty member(s) involved, Office of Academic Affairs, and the Office of the Registrar.

Submission of a petition indicates that the student understands the disputed grade policy and agrees to accept the ARB's decision.

ACADEMIC HONESTY

Academic honesty stands at the center of intellectual pursuits in the academic community. Faculty and student scholarship in all forms, individual and collaborative, expresses our understanding and esteem for intellectual honesty. Nurturing and sustaining a climate of honesty are the responsibilities of every member of the community. This policy statement includes standards of academic honesty, obligations and responsibilities of the members of the academic community for cultivating a climate of academic honesty, violations of academic honesty, and the procedures for addressing academic dishonesty.

I. Standards of Academic Honesty

Basic standards of honesty and academic integrity include, but are not limited to:

1. independently producing all homework, papers, laboratory reports, computer files on disks, and examinations submitted under one's own name;
2. properly and appropriately referencing all work that draws on the ideas, words, and work of others to credit those thinkers;
3. identifying the co-authors or co-contributors of all work done in collaboration;
4. completing examinations without giving or receiving assistance or tampering with the examination;
5. submitting one's own original work for each course;

6. respecting computer software copyrights, computer security systems, and file privacy of individuals, and protecting computer system performance;
7. accurately and completely disclosing research data, manuscripts, books or other documents, academic records/credentials, transcripts, and letters of recommendation; and
8. allowing equal access to any library materials and comparable or related academic resources.

II. Obligations and Responsibilities for Cultivating a Climate of Honesty

Faculty and administrators are expected to:

1. work together to design orientation and first-year experiences that introduce students to academic life, to the “currency of ideas” that fuel our intellectual pursuits, and to University standards. Experiences that make independent intellectual work possible are engaging in intellectual discussion, learning how to use the library and obtain academic assistance, learning how to engage in research, referencing the work of others, and becoming familiar with the *catalog* (students needing additional information on proper referencing are advised to consult such sources as J. Garibaldi and W.S. Aschert’s *MLA Handbook for Writers of Research Papers* or H.R. Fowler’s *Little, Brown Handbook*; a selection of such handbooks can be found at the Writing Lab or Armacost Library and are available for purchase at the University Bookstore);
2. demonstrate intellectual honesty in their individual research as well as in their use of others’ work and ideas (careful referencing of sources used for lectures and hand-out materials provides students with examples of intellectual honesty that communicate more than speeches and printed policies);
3. promote discussions of ideas, including a recognition and consideration of majority and minority perspectives (seldom is there only one perspective on a topic; intellectual honesty includes a recognition of various points of view);

4. clearly delineate the parameters on homework, labs, and group projects in the syllabus of each course (syllabi are course-specific, and faculty need not restate University policies stated in the *catalog*; faculty should make efforts to communicate clearly the learning objectives to be achieved and to explain how work will be graded; questions about collaboration and assistance should be discussed in the classroom);
5. include statements about academic honesty with examinations, if they so choose, as a way of bringing students face-to-face with standards of academic honesty (each opportunity to declare oneself as working honestly reinforces the standards to which we are committed as a community);
6. act on cases of suspected violations of academic honesty as outlined below in section IV.1.

Students are expected to:

1. prepare adequately for all academic exercises (thorough preparation will decrease the temptation of cheating);
2. make sure they understand the parameters on assignments in each course;
3. condemn acts of academic dishonesty on the part of others (this includes a responsibility to report suspected violations of academic honesty as outlined below in section IV.2);
4. refuse to cheat or assist others in dishonest acts (this includes a responsibility to ensure that others may not cheat for them)

III. Violations of Academic Honesty

Academic dishonesty is any act that subverts or compromises the integrity of instruction or research. This includes knowingly assisting any person in the commission of such an act. Offenses include, but are not limited to, the acts described in sections 1 through 4 below.

1. Misrepresenting one’s background or abilities by:
 - A. falsifying, misusing, omitting, or tampering with information (written, oral, or electronic)—such as test scores, transcripts, letters of recommendation, resumes, statements of purpose,

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- or any other document—to gain initial or continued access to the University’s programs or facilities;
- B. offering as one’s own work the words, ideas, or arguments of another person without appropriate attribution by quotation, reference, or footnote—including, but not limited to, plagiarism (plagiarism occurs when the words of another are reproduced without acknowledgment or when the ideas or arguments of another are paraphrased and presented in such a way as to lead the reader to believe that they originated with the writer; it is the responsibility of all University students to understand the methods of proper attribution and to apply those principles in all written submissions);
 - C. bringing to an examination or using crib sheets, supplemental notes, or comparable aids during an examination except as specifically permitted by the instructor;
 - D. unauthorized communication during an examination or unauthorized collaboration in the presentation of reports, laboratory reports, or take-home examinations; copying or giving aid, or otherwise failing to abide by the University’s or instructor’s rules governing the exercise or examination without the instructor’s specific permission;
 - E. soliciting, obtaining, possessing, or providing to another person an examination or portions of an examination prior or subsequent to the administration of the examination without the authorization of the instructor;
 - F. acquiring from other persons, commercial organizations, or other sources (e.g., electronic sources)—or using unauthorized assistance and submitting as one’s own work—term papers, research papers, computer files, or comparable documents prepared in whole or in part by others;
 - G. submitting work in the name of another student or arranging for another student to substitute for oneself during an examination or in the completion of coursework;
 - H. falsifying data collected in the conduct of research or presenting falsified data in papers, manuscripts, books, or other documents submitted for publication or for course or degree requirements;
 - I. presenting the same or substantially the same written work—term paper, research report, essay or the like—as part of the course requirement for more than one course, without the express prior written permission of each instructor involved.
2. Impeding fair and equal access to the educational and research process by:
 - A. altering or changing an examination or comparable document so as to mislead other users or readers;
 - B. infringing upon the right of others to fair and equal access to any library materials and comparable or related academic resources, including tampering with or damaging any library materials or comparable academic resources (written or electronic);
 - C. attempting to prevent access by other users to the University’s computer system and its resources, attempting to degrade the computer system’s performance, or attempting to copy or destroy files or programs without authorization.
 3. Misrepresenting one’s relationship with the University by:
 - A. altering, changing, forging, or misusing academic records or any official University form regarding oneself or others;
 - B. causing any false information to be presented at an academic proceeding or intentionally destroying evidence important to an academic proceeding;
 4. Offering bribes (e.g., monetary remuneration, gifts, or favors) to any University representative in exchange for special consideration or waiver of procedures.

IV. Procedures for Addressing Academic Dishonesty

1. Procedures for Addressing Faculty Academic Dishonesty

- A. Reporting Alleged Offenses Against Academic Honesty.** When a member of the University community suspects an incident of faculty academic dishonesty, documentary evidence or other means supporting that suspicion will be reported to the dean of the appropriate school or college. The dean will refer the case to the Faculty Review Committee within one week for further review and investigation.
- B. Sanctions.** The Faculty Review Committee must notify the accused member of the University community of the charges within two weeks; within two weeks from the date of notification, the accused person must acknowledge receipt of the charges and work with the chair of the committee to determine a mutually agreed upon timetable for disposition of the case. Upon the recommendation of the Faculty Review Committee, a faculty member found to be in violation of the University Academic Honesty Policy is subject to sanctions up to and including dismissal under the guidelines and provisions specified in the appropriate section (Dismissal) of the *University of Redlands Faculty Handbook*.

- C. Appeals.** The decision rendered by the Faculty Review Committee can be appealed to the Faculty Grievance Committee within two weeks of the decision. (See the appropriate section of the *University of Redlands Faculty Handbook*.)

2. Procedures for Addressing Student Academic Dishonesty

- A. Reporting Alleged Offenses Against Academic Honesty.** Faculty are expected to report alleged offenses in a timely manner. When a faculty member suspects an incident of academic dishonesty and establishes through conversation, documentary evidence, or other means

that the suspicion is reasonable, the faculty member must contact the Registrar to determine if it is a first offense. The Registrar checks the student's file to see if there is documentation of a prior offense. The faculty member is then expected to contact the student for a personal conference to discuss the allegation. (1) If it is a first offense, the faculty member has two options: (a) the faculty member may impose a sanction, or (b) the faculty member may refer the case directly to the Academic Review Board (hereafter ARB). The range of sanctions that may be applied by the faculty member includes the following: repetition of the examination or assignment, completion of an additional assignment or examination, failure on the examination or assignment, failure in the course. When the faculty member applies a sanction, a letter of documentation must be sent by the faculty member to an administrator designated by the Office of Academic Affairs (hereafter, the facilitator). The facilitator will send to the student, by registered mail, the original letter of documentation; the facilitator also will include information concerning the appeal process and its time lines. A copy of the original documentation letter must be delivered to the Registrar to be available in case of any subsequent offense. The letter will remain sealed in the student's file unless called for by the ARB. For the first offense, the student has recourse of appeal to the ARB through the facilitator. The student then has twelve (12) calendar days from the date of receipt of the documentation letter to contact the facilitator and indicate a desire to initiate an appeal. If the student does not respond within twelve (12) calendar days, it is assumed the student has received the letter, waived the right to appeal, and accepted the sanction. If the student chooses to appeal, the ARB

Academic Standards

will determine the guilt or innocence of the student. For the first offense, the ARB may overturn the faculty sanction if the student is found not guilty. The faculty sanction will not be overturned, modified, or amended by the ARB if the student is found guilty.

(2) If the incident is a second or subsequent offense, a written description of the incident must be sent directly to the ARB. The facilitator will initiate formal charges by informing, by registered mail, the accused student of the charges and that such charges will be presented to the ARB. A student charged with an offense has the right to a formal hearing before the ARB.

- B. When any student suspects an incident of academic dishonesty and establishes through conversation, documentary evidence, or other means that the suspicion is reasonable, the student has a responsibility (1) to report the infraction to the faculty member teaching the course or to the appropriate academic administrator (in cases related to the library, computer center, etc.) or (2) to refer the case in writing directly to the ARB. The faculty member/administrator will deal with the infraction in the manner described in IV.1 or 4. If the case is referred directly to the ARB, the facilitator will initiate formal charges by informing, by registered mail, the accused student of the charges. Such charges will be presented to the ARB. A student charged has the right to a formal hearing before the ARB.
- C. When any other University-related individual (e.g., administrator or staff) suspects an incident of academic dishonesty and establishes through conversation, documentary evidence, or other means that the suspicion is reasonable, the individual must refer the case in writing directly to the ARB. The facilitator will initiate formal charges by informing, by registered mail, the accused student of the charges and that such charges will

be presented to the ARB. A student charged with an offense has the right to a formal hearing before the ARB.

- D. After receiving notification of the charges from the facilitator, the student is responsible for arranging a meeting with the facilitator within twelve (12) calendar days. The student may be accompanied to the meeting by a person of his or her choice, but may not be represented by an attorney. If more than one student is charged in a particular incident, each student may meet privately with the facilitator.

The facilitator will explain the procedures to each student charged and will define the rights and responsibilities of all parties to the charges as indicated in this policy, including the right of the student to select an advisor. The Office of Academic Affairs will develop a list of volunteer advisors from administrators, faculty, and upper-division students.

The advisor assists the student in the preparation of the case, provides advice during the hearing if it takes place, or assists in preparation of an appeal, if necessary. The advisor may be selected from the list of available advisors or may be any student, faculty member, friend, or family member. The student may enlist the professional assistance of an attorney in preparation of the case or appeal; but an attorney may not act as legal counsel at the hearing. Upon request, the facilitator will assist the student in identifying an advisor.

A student charged with an offense against the Academic Honesty Policy who wishes to appeal in writing must submit his or her written appeal no later than six (6) weeks, not counting scheduled breaks in the academic calendar, following receipt of notification of the infraction. A student who wishes to appeal to the Academic Review Board (ARB) in person must make himself or herself available so that a hearing can be scheduled

to occur no later than six (6) weeks, not counting scheduled breaks in the academic calendar, following receipt of the infractions. Failure to meet these deadlines will be regarded as acceptance of any sanction(s) imposed as a result of the infraction.

3. The Academic Review Board (ARB)

The Academic Review Board meets throughout the year at the call of its chairperson and hears cases of academic dishonesty and student academic grievances brought to its attention. The ARB consists of two faculty from the College of Arts and Sciences, one from the School of Business, one from the School of Education, and two students (one from the School of Business or the School of Education, and one from the College of Arts and Sciences). Representatives of the offices of the Registrar and Student Services will function as consultants to the board. If any member of the ARB is party to the case before the Board, that member shall not participate in the hearing.

4. Waiver of Hearing

The student may waive the right to a hearing and admit to the charges in writing. In cases of admitted guilt, the ARB will assign the appropriate sanction, readmission procedures if appropriate, disposition of the record, and other matters pertinent to the case. Within twelve (12) calendar days following the receipt of the waiver of hearing, the chair of the ARB will send a registered letter to the student specifying the assigned sanction. The chair will also send a confidential notice of the decision to the individual who initiated the charges. The right to a hearing is automatically waived if, without reasonable cause, the student fails to respond to the letter of notification within twelve (12) calendar days of its receipt.

5. The Hearing

The hearing is an internal University matter. Only members of the immediate University community who are invited to attend by the Chair of the ARB are

permitted to attend. This community is defined as current students, faculty, administrators, or staff members. In rare cases, the Chair of the ARB may, by virtue of their relevance to the case at hand, invite other person or persons to appear. The Chair's ruling on all matters determining who may attend the hearing will be considered definitive. The following persons must be present at the hearing: the person initiating the charges, the facilitator, and the members of the ARB as defined in 3 above. After proper notification (see 2, 3, and 4 above), if the student against whom charges are brought does not attend the hearing, the hearing will proceed without him or her. All of the persons identified are participants in the hearing and may initiate or respond to questions by other participants. If the student's advisor is a member of the University community as defined above, the advisor may be present throughout the hearing and may, with the approval of the Chair, address the ARB on behalf of the student charged, but only on matters directly relevant to the charge. Witnesses may be present only during their own testimony and may be recalled. Any student, faculty member, or other person who is asked to testify at a hearing is expected to do so. It is expected that all statements made to the ARB, while not provided under oath, will be truthful.

It will be assumed that the student is innocent of the charges until proven guilty. Any student charged will be provided adequate opportunity to present his or her version of the case and will be allowed to call relevant witnesses. The Chair of the ARB will ensure that the hearing be conducted in a fair, objective, and dignified fashion, with special attention to the protection of rights of all participants. The Chair is responsible for maintaining order during the hearing and for ensuring that testimony is succinct, precise, and relevant to the charge. The Chair will announce a recess, if requested, for the student charged

Academic Standards

to consult with his or her advisors. In the case of a second offense, the ARB will have access to the contents of the sealed envelope from the student's file if requested. When the ARB is satisfied that all relevant evidence has been presented and that all participants have been afforded the opportunity to state their versions of the case or to provide relevant information, the ARB will retire to executive session to consider the evidence and reach a decision. The ARB will find a student guilty of the stated offense if and only if it is satisfied by the preponderance of the evidence presented that the student's actions meet the description of an offense against academic honesty provided above (Section III). In addition to determining whether the evidence presented justifies a finding of guilt of the charge, the ARB may choose to consider extenuating circumstances in its report. The ARB determines guilt or innocence of the specific charge by majority written vote. The Chair maintains a record of the vote.

If the ARB finds the student not guilty of the charges, the student will be permitted to drop the course in which the charges arose without academic penalty. If the course is dropped, the record of the course will be removed from the student's transcript.

If the ARB finds the student guilty of the charges, it will decide on a sanction by majority written vote. The Chair of the ARB will inform the student by registered mail of the sanction and its effective dates. The Chair of the ARB will send a confidential notice of the decision to the individual who initiated the charges.

The ARB has the option of prescribing a sanction different from the standard sanctions described below, but may do so only in cases of extraordinary extenuating circumstances. The student will be informed by the facilitator that an appeal may be directed to the appropriate academic dean. The written appeal, based solely upon issues of procedure or clear abuse of discretion,

must be forwarded to the appropriate dean within twelve (12) calendar days of receipt of the letter indicating the assigned sanction. The sanction will become effective immediately unless an appeal is filed in a timely manner. If an appeal is filed in a timely manner, but is denied, the sanction will become effective as originally assigned. If the appeal is approved, the sanction may be modified or dropped by the appropriate dean.

6. The Range of Sanctions

Sanctions from the ARB for instances of academic dishonesty will include, but will not be limited to, the following: failure in the assignment, failure in that portion of the course directly related to the falsified work, failure in the course, suspension from school (usually taking effect at the beginning of the semester following the one in which the violation occurred), permanent dismissal from the University, or revocation of admission. Academic dishonesty discovered after the conferring of a degree may result in revocation of the degree upon vote of the Board of Trustees.

In the case of suspension or dismissal, the designation "Academic Suspension" or "Academic Dismissal" will be recorded on the permanent record and transcript. If a student returns from academic suspension, transcript notation of that action will be removed after successful completion of one semester at the University of Redlands.

7. Records

The Registrar is responsible for maintaining the records of individual cases of alleged academic dishonesty and their disposition. Access to such records is subject to the University's policies governing access to student records. The fact that a student has been accused or found guilty of an offense against academic honesty will not be indicated on the student's transcript.

If a student is found guilty, records of the case will be retained in a sealed envelope in the student's file for internal reference only. Under no circumstances

will such information be copied, micro-filmed, or sent as part of the permanent record. When a student leaves the University permanently, all records (except notation of suspension or dismissal on the permanent record and transcript) will be removed from the student's file and retained in the files of the Academic Review Board.

ACADEMIC RECORDS

Public Information

The University of Redlands maintains student records in compliance with the Federal Family Educational Rights and Privacy Act of 1974 (as amended)(FERPA), which assures students and parents of their right to privacy of information. The University also complies with the California Education Code, Sections 22509 through 22509.18, which states that the management of student records shall be a matter of federal and state law and regulation.

The following is considered public information and may be released or published without the student's consent:

Student name, date, and place of birth; major field of study; dates of attendance; degrees, honors, and awards received; most recent educational institution attended; campus address, telephone number, and student-assigned e-mail; home address and telephone number; participation in special academic programs; participation in recognized student activities; participation in officially recognized sports; class level, weight, and height of athletic team members.

Students who wish the above information withheld must sign a request to that effect in the Registrar's office.

Release of Academic Information

Confidential information is defined as any information not included in the Public Information section above. Current University policy makes accessible to parents or legal guardians copies of their dependent's academic record when a written request and proof of dependency are submitted to the Registrar's office. The University will not release confidential information for

independent students (students over the age of 23 or defined as "independent" by University Financial Aid Policy) without the written request of the student. A copy of the University of Redlands policy on student records can be obtained from the Registrar's office.

Review of Academic Records

Students have a right to review their academic records.

Transcripts

A transcript of a student's complete academic record is issued only upon the student's signed request. Transcripts will be withheld if the student is financially obligated to the University or has obligations under financial aid contracts.

Students should allow two weeks for processing. See the appropriate Tuition and Fees section of this *Catalog* for the cost of transcripts.

Transcripts submitted to the University of Redlands for admission or credit transfer become the property of the University of Redlands and cannot be returned to the student, copied, or forwarded to other institutions.

Recording of Degrees

University degrees are conferred four times each year. Degree requirements (required coursework, non-coursework, and necessary supporting documents) must be completed by the last day of the month the degree is to be conferred.

The official dates are as follows:

Commencement day
May 31
August 31
December 31

ATTENDANCE

College of Arts and Sciences

Students are expected to attend all classes regularly. Each professor has the right to establish regulations regarding attendance (e.g., the relation between attendance and the final grade). Students who miss the first class

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of the semester may be dropped from the class by the professor.

The Office of the Dean of Student Life routinely notifies instructors when medical problems indicate an Arts and Sciences student cannot attend classes or when an emergency situation arises that requires a student to leave school temporarily.

AUDITING FOR NO CREDIT

College of Arts and Sciences

Undergraduate

A student may audit a course with the approval of the Registrar and the instructor of the course. No charge is made for a full-time student within the limit of 38 credits for the full year or 19 credits for the half year. The fees for students other than full time are listed in the College of Arts and Sciences Tuition and Fees section of this *Catalog*. The instructor will not process or grade any exams or papers of an auditing student.

Graduate

A full-time student may audit a maximum of one course during the Fall or Spring of an Arts and Sciences semester, or one course during a School of Education or School of Business term, with payment of an additional fee. Students who register for less than a full load will be required to pay the usual fee for any audited course. No student may audit a course without the consent of the instructor.

CAPSTONE REQUIREMENT

In all degree and some non-degree programs at the University of Redlands, students must complete a capstone requirement prior to graduation. Capstone projects represent the culmination of students' academic accomplishments. Capstone activities offer students the opportunity to synthesize topics and practice skills learned in their academic programs. The nature of capstone projects varies, but they should represent students' best practices in their fields of study

CLASSIFICATION OF STUDENTS

Undergraduate Standing

Undergraduate Class Level

Students are classified by level based on academic credits completed:

Freshman	0–31
Sophomore	32–63
Junior	64–95
Senior	96 or more

Student Load: College of Arts and Sciences

Full-Time Student Load

All undergraduates must pursue full-time studies unless admitted to Special Status. The normal load for undergraduates is 16 semester credits. When registration falls below 12 credits, students are not eligible to participate in certain extracurricular activities, such as athletics, and jeopardize their financial aid status.

Overloads

Students who take more than 19 units in a semester or more than three units in a May Term will be charged an excess-credit fee. See the College of Arts and Sciences Tuition and Fees section of this *Catalog*.

Degree-Seeking Candidates

A student who wishes to be considered for degree status should formally apply before undertaking coursework. No more than 16 credits of work taken at Redlands prior to formal admission can be applied toward an undergraduate degree. A student must be admitted as a degree-seeking candidate prior to completing the last 32 credits toward graduation. Any student who pursues degree candidacy must follow approved admission policies. Admission status will be determined by the Dean of Admissions. Graduation requirements are based either on the catalog year in effect for the year of formal admission or catalog year in effect for the year of graduation. A student cannot select graduation requirements from more than one catalog. If University programs or policies change, students must take the responsibility (with

written departmental approval) to adjust their programs to comply with current standards. Students who intend to work toward an advanced degree, but who are required to complete prerequisite work, must apply for graduate status through the appropriate department.

Special Status Degree-Seeking Students

- With permission, students may pursue an undergraduate degree on a special part-time basis. Most students in this category are not of traditional college age and hold permanent employment and/or have family obligations.
- University employees (with the exception of full-time faculty) may pursue a degree program on a part-time basis in compliance with personnel policies.
- Students who have completed four full years at the University, or transfer students with at least 32 credits at Redlands, may take coursework on a part-time basis to meet graduation requirements.

Special Status Non-Degree Students

- An individual who wishes to take courses for enrichment may take no more than 8 credits per semester and must receive permission from the Registrar. With permission, students may take courses any number of semesters under this category. A student should provide a transcript of work previously completed when seeking permission from the Registrar.
- Upon recommendation of the academic dean, high school students may take college-level work for high school credit on a space-available basis, with the approval of a high school representative such as the principal or a counselor.
- University employees (including faculty) may, in accordance with personnel policies, undertake part-time studies for the purpose of personal enrichment.

Guest Student Status

A student may attend the University on a full-time or part-time basis as a degree candidate from another institution. It is the student's

responsibility to ascertain the transferability of credit back to the original institution. Applicable financial aid should be transferred from the degree-granting institution.

Graduate Standing

There are four classifications of graduate students: (1) Regular, (2) Provisional, (3) Limited, and (4) Special. All students working toward a degree must be admitted to either regular or provisional standing.

Regular Graduate Standing

Regular graduate standing is a prerequisite for acceptance to candidacy for a master's degree and is granted by the appropriate dean upon recommendation from the director or chair of the program for which application is made. The basic requirements for Regular Graduate Standing are as follows:

1. bachelor or higher-level degree from a regionally accredited college or university;
2. a minimum undergraduate GPA of at least 2.5 on a scale of 4.0 (*Note: Some programs may require a higher minimum GPA.*); and
3. maintenance of a satisfactory academic standing. (See the paragraph titled, "Graduate Academic Standing" at the beginning of this section.)

Provisional Graduate Standing

Provisional graduate standing may be granted to a student for one of the following reasons: 1) application for Regular Graduate Standing is incomplete for reasons beyond the applicant's control (applicants should be cautioned that this applies in very few instances), or 2) a decision is made by program faculty to evaluate more of a student's work before recommending Regular Graduate Standing.

Provisional graduate standing may be granted for no more than one term or four courses for either full-time or part-time students, and registration is limited to a maximum of 12 credits before achieving regular graduate standing.

Limited Graduate Standing

Limited graduate standing may be granted to a student who is approved as a credential candidate in education or to applicants

Academic Standards

for full-time, non-degree study. However, for those who later seek regular graduate standing, no more than 6 credits earned under limited graduate standing may be applied toward a degree program.

Special Status Graduate Standing

Special status graduate standing is available only to students who are taking individual courses on a part-time basis and do not intend to become candidates for a degree or credential program. Departments set their own criteria for special status graduate students. However, for those who later seek regular graduate standing, no more than 6 credits earned under Special Graduate Standing may be applied toward a degree program.

Advanced undergraduates who do not qualify for any type of graduate standing may take graduate courses only with permission of the chair of the program obtained by means of a form submitted at the time of registration.

Candidacy

Some programs require students intending to complete a master's degree to file a petition for candidacy and submit it for review and approval by the program faculty and appropriate dean. At least 15 credits must be completed at the University of Redlands after the petition is approved. All remaining requirements for the degree must be completed within a period of three to five years—depending on the program. Refer to individual programs for more details.

CONCURRENT COURSEWORK

College of Arts and Sciences

Students who wish to take work at other institutions either concurrently, during May term, or during summer sessions may transfer only courses with a grade of 2.0 or better, subject to approval by the Registrar in advance of the term in which the course is taken. Quality grade points (derived from numeric grading) are not awarded for transfer work and credits from these courses are not calculated into the GPA. The total credit for all work taken concurrently at the University and by correspondence, extension, or at another institution should not exceed 19 credits per semester.

For further information, please refer to Transfer Credit in this section of the *Catalog*.

COURSE SYLLABI

University policy requires that instructors provide a syllabus to all students at the beginning of each course. The syllabus must include course objectives, an outline of the topics to be covered, a schedule (by date or topic) of major quizzes and examinations, the dates on which major assignments are due, and a detailed statement of grading explaining how test and assignment scores are translated into reportable grades. The syllabus must also state the minimum requirements for receiving credit in the course. (See Credit/No Credit Grading Option.)

CREDIT BY EXAMINATION

Undergraduate

Any degree-seeking student in good standing may challenge courses by examination. Departments may specify certain courses as inappropriate for credit by examination, but must permit full-time students in good standing to challenge any course not specified as unavailable for challenge. In challenging a course, the student must be prepared to demonstrate appropriate knowledge of the material covered without any guidance or direction by a faculty member. The appropriate knowledge should not be less than a 2.0 level of competency (more stringent requirements may be set by individual instructors). Courses previously taken or audited may not be challenged. No credit is given when the purpose of an examination is to determine the proper level at which students should begin their studies, e.g., in art, music, foreign language, or mathematics.

Upon payment of a processing fee, students who satisfy a course by challenge will receive the approved credit on their academic record and a mark of C.E. Grades and grade points will not be given. No entry of any type will be made on the academic record if the examination is failed. See the Tuition and Fees section of this *Catalog*.

For all undergraduates, a maximum of 16 credits from such successful challenges may

be applied toward the baccalaureate degree. A challenge to a major program course must be completed at least six weeks before the particular course is to begin. Students should contact the appropriate department chair for information on this option.

Graduate

A graduate student in good standing may obtain up to 3 course credits by special examination in courses offered by the University of Redlands. Application for credit by examination must be made in advance to the appropriate dean. That approval, along with that of the department concerned and a receipt from the Business office indicating payment of a special fee, are necessary before the examination may be taken.

CREDIT OBSOLESCENCE

Graduate

No course that has been completed more than six years before the date of graduation will be counted toward a University of Redlands master's degree.

EXAMINATIONS

College of Arts and Sciences

Faculty members may administer quizzes and tests during the semester at their discretion, but are expected to announce major examinations (those that exceed one hour in length) no less than one week in advance.

Final examinations must be held according to the examination schedule of the Academic Affairs office. University regulations require a final examination or major integrative work for every course.

Students usually will not be permitted to make up missed final examinations. However, if absence from any announced hour examination or final examination is required because of an emergency (such as personal or family illness), the examination may be made up if the instructor is provided with written verification of the emergency from a physician, parent, or guardian.

Students who are absent from quizzes or examinations because of intercollegiate athletics, field trips, tours, or the like will be

permitted to make up the quiz or examination only if they obtain approval in advance from the instructor of the class involved. Coaches and faculty members planning field trips are expected to inform their students of such events well in advance. Students are then responsible for making suitable arrangements—in advance—with faculty of any courses from which they will be absent.

ACADEMIC CREDIT DEFINITION

One unit of semester credit is awarded for the amount of work an average student would accomplish in a minimum of 40 hours (undergraduate) and 45 hours (graduate), including the hours spent in the laboratory or classroom.

GRADING SYSTEMS

Undergraduate Grading System

4.0 or 3.7

A Outstanding. The student displayed exceptional grasp of the material, frequently with evidence of intellectual insight and original thought.

3.3, 3.0, or 2.7

B Excellent. The student's work demonstrated a thorough grasp of the material with occasional errors and omissions. Assignments were thoroughly and completely done, with careful attention to detail and clarity and with evidence of intellectual insight.

2.3, 2.0, or 1.7

C Acceptable. The quality of work was acceptable, meeting minimal course standards, but was not exceptional. Performance on examinations and other assignments was satisfactory and demonstrated that the student was keeping up with the material and attending to detail.

1.3, 1.0, or 0.7

D Poor. The quality of work was not always satisfactory but overall was passing. Assigned work was not always done or, when done, was inadequate. Performance on examinations and other

Academic Standards

work was generally weak with regard to understanding of subject, proper formulation of ideas, and thoroughness.

0.0

F Failing. A grade of "F" indicates that the student failed the course. The quality and/or quantity of work was not of college level. A failing grade may be assigned for a variety of reasons such as failure to complete course requirements as outlined in the syllabus, inability to comprehend course material or ineptitude in dealing with it, consistently unsatisfactory performance on examinations and/or assignments, or excessive absences.

CR Grade of 2.0 or better in CN course

NC Grade below 2.0 in CN course

I Incomplete

AU Audit

CE Credit by Examination

W Withdraw

EV Evaluation included in academic record

VZ Evaluation satisfactory, not yet in file

VI Incomplete Evaluation

VF Failure to complete terms of evaluation contract

Z No grade submitted by instructor (a temporary grade)

Performance on examinations and other assignments was satisfactory and demonstrated that the student was keeping up with the material and attending to detail.

Graduate students will not receive credit for a course awarded a grade of 1.7 or below. A cumulative grade point average below 3.0 is not sufficient for good standing in graduate programs.

C-, D, F 1.7, 1.3, 1.0, 0.7, 0.0

Unacceptable for graduate credit.

CR Grade of 2.7 or better in CN course

NC Grade below 2.7 in CN course

I Incomplete

AU Audit

CE Credit by Examination

W Withdraw

Z No grade submitted by instructor (a temporary grade)

Graduate Grading System

4.0 or 3.7

A Outstanding. The student displayed exceptional grasp of the material, frequently with evidence of intellectual insight and original thought.

3.3 or 3.0

B Excellent. The student's work demonstrated a thorough grasp of the material with occasional errors and omissions. Assignments were thoroughly and completely done, with careful attention to detail and clarity and with evidence of intellectual insight.

2.7, 2.3, or 2.0

B/C Acceptable. The quality of work was acceptable, meeting minimal course standards, but was not exceptional.

Grading System Options

Numeric Grade Option (NU)

It is assumed that all courses are taken for a numeric grade. Arts and Sciences students may choose an alternate grading option (Credit/No Credit or Evaluation), if it is available and if they do so by the deadline published in the Academic Calendar. Courses in the major and those taken to fulfill Liberal Arts Foundation requirements must be taken for a numeric grade, except in those instances where the course is offered on a CN basis only or when the instructor has agreed to provide a narrative evaluation. School of Business students may choose an alternate grading option, if it is available, only for independent studies that do not fulfill degree program requirements. The alternate grading option must be declared at the time of registration.

Evaluation Option (EV)

A student may receive, by agreement with the professor, a written evaluation of work in any course. The evaluation becomes part of the student's permanent academic record.

Credit/No Credit Grading Option (CN)

Grades of CR (Credit) and NC (No Credit) do not enter into the computation of a student's grade point average (GPA). University policy requires that the quality of work must be equivalent to a grade of 2.0 or better for an undergraduate and 2.7 or better for a graduate student to receive "Credit." More stringent requirements may be set by individual instructors. Arts and Sciences students may elect to take only one course of up to 6 credits for Credit/No Credit in any one semester. Catalog courses offered on a CN-only basis are not included in this total.

Incomplete Grades (I)

An instructor may submit a grade of Incomplete (I) when coursework is of acceptable quality but has not been finished because of illness or some other extraordinary circumstance. It is not given for poor or neglected work. If no alternate grade is provided, a grade of 0.0 or NC, as appropriate, is recorded automatically on the incomplete deadline date. Arts and Sciences students should refer to the Academic Calendar for the deadline. Arts and Sciences students cross-registered in School of Business or School of Education courses must meet the School of Business and School of Education deadline. School of Business and School of Education students cross-registered in Arts and Sciences courses must meet the Arts and Sciences deadline.

Repeating Courses

A student may repeat any course but only the grade and credits earned the second, or latest, time are counted toward graduation and in the cumulative and semester GPAs. Notation of the first or earlier attempts remains on the academic record. Courses may be repeated only for the same grading option as when the course was initially taken. Students must inform the Registrar's office when they repeat a course. Repeating courses outside of the University of Redlands does not remove transcript notations of courses previously taken at the University of Redlands.

Prerequisite Courses

For admission to a course that requires a prerequisite, a student must either have satisfactorily completed a prerequisite course with a grade of 1.7 or higher or must obtain the consent of the instructor. More stringent requirements may be set by individual departments.

INDIVIDUALIZED STUDY— COLLEGE OF ARTS AND SCIENCES

The College of Arts and Sciences offers a variety of means by which students may work individually with faculty. Such individualized study provides students with the option of designing their own courses and working with faculty on a one-to-one basis. These learning experiences may be disciplinary, interdisciplinary, or from areas outside the current curriculum. Students may take advantage of directed study, internship, or honors research.

The following provisions apply to all individualized study:

1. Appropriate forms for each individualized study must be completed by the student and faculty/Internship Program sponsor and approved by the Registrar by the close of registration for the term in which the work is to be done. Students may petition the Academic Review Board for later registration only if prior planning was not possible—e.g., if the individual is a new student or if a class in which a student enrolled was subsequently canceled.
2. No course offered in the regular curriculum may be taken as individualized study during the regular academic year.
3. Only one category of individualized study (directed study, department internships, honors research) may be taken in any given semester.
4. Up to 4 credits of individualized study may be taken during a given term and up to a total of 12 credits may be counted toward the 128 earned hours of academic credit required for graduation. Up to 8 credits of any one category of individualized study may be taken.

Academic Standards

Directed Study (department alpha) 170, 270, 370, 470, 670

This provides students the opportunity to gain experience with learning on a one-to-one basis. Prerequisite: for 370, 470, and 670, previous coursework or experience in the field to be studied. 2–4 credits. CN grading only.

Departmental Internships (department alpha) 385, 485*

**Some departments list internships specifically by number; some do not.*

Academic internships enable students to gain work experience in the career field of their choice at either the exploratory or more advanced level. Specialized internships provide extensive opportunities for advanced students in specific fields of study; these are usually taken after other coursework has been completed in the area. 2–4 credits. CN grading only.

Honors Research

Highly qualified students are eligible to apply for departmental honors programs during their junior year. Once accepted into a program, students begin work on their individual honors project during the first semester of the senior year. For more information, see the appropriate department chair.

Honors Research: (department alpha) 499

Available only to students who are approved honors candidates, this entails 2 to 4 credits per semester, but no more than 8 credits total may be applied toward the bachelor's degree. Acceptance of these credits toward requirements for a major is at the discretion of the department. 2–4 credits. CN grading only.

REGISTRATION

College of Arts and Sciences

New students plan their program in consultation with their faculty advisors during the orientation periods that precede registration day and the start of classes. Currently enrolled students register for their courses during the preceding semester.

Validation of registration takes place at Check-In at designated times prior to the first day of class in each term. Students who fail to complete Check-In during the designated period must pay a late Check-In fee. (See the College of Arts and Sciences Tuition and Fees and College of Arts and Sciences Academic Calendar sections of this *Catalog*.)

Changes in registration may be made at the beginning of each session. The relevant dates are listed in the Academic Calendar section of this *Catalog* and in the Schedule of Classes. All courses for which a student is registered at the end of the add-drop period will appear on the student's permanent record.

OFFICIAL WITHDRAWAL OR LEAVE OF ABSENCE

A student who needs or desires to take a Withdrawal (WDL) or take a Leave of Absence (LOA) from the University of Redlands must schedule an appointment with the Office of Student Life and complete an exit interview. A WDL or LOA is considered official once the student gives notification of their intent and the Request Form has been completed by the associate or assistant dean of Student Life. The Request Form will state the intentions of the student to discontinue the course(s) in which s/he is registered and the effective date the WDL or LOA will be implemented, which is then recorded by the Registrar's Office. If a student fails to complete the exit interview, the applicable date will become the midpoint of the term, unless the University can document a later date. In certain circumstances, if a later date (of a student's last academic activity) is substantiated, this date can be used in lieu of the midpoint of the term.

During a student's leave of absence, the University maintains all of his or her official

records on an active basis. Students returning from a leave of absence of one year or less are not required to be formally readmitted. Students will be expected to fulfill the graduation requirements in effect at the date of their original matriculation. Students who do not return from a leave of absence within one year are withdrawn from the University. To return, they must be formally readmitted.

RE-ENROLLMENT

College of Arts and Sciences

Students who have withdrawn and seek readmission must submit a readmission application to the Office of Admissions (for undergraduates) or to the appropriate program office (for graduate students). Readmitted students must meet the graduation requirements in effect at the time of readmission. A student cannot select graduation requirements from more than one catalog.

TRANSFER CREDIT

College of Arts and Sciences

Subject to approval by the Registrar, courses (but not grades) taken at other regionally accredited institutions will be accepted for credit. The University will accept up to 66 credits from regionally accredited two-year colleges and 96 credits from regionally accredited four-year colleges, but the last 32 credits prior to graduation must be completed at the University of Redlands. A grade of 2.0 (C) or higher is required. A student will not be granted credit for any prior transferable coursework that is not declared at admission or during the first semester of attendance. Students already admitted to Redlands who wish to take work at other institutions, either concurrently or during May term or summer sessions, may transfer only work with a grade of 2.0 (C) or higher subject to approval by the Registrar in advance of the term in which the course is taken.

Transfer courses must be approved by the department or program if they are to be applied to a major or minor. Additional work may be required at the discretion of the department or program.

Students seeking credit from the University of Redlands for courses taken through a Redlands-approved but not regionally accredited institution can do so only by enrolling for a directed study course approved by a Redlands faculty member. Quality grade points (derived from numeric grading) are not awarded for transfer work, and credits from these courses are not calculated into the GPA. Students must provide appropriate evidence that they have completed the proposed work as required by the sponsoring faculty member or department. Students receiving credit in this manner will be charged a fee rather than tuition. See the College of Arts and Sciences Tuition and Fees section of this *Catalog* for more details.

Correspondence and extension courses taken at fully regionally accredited institutions may be accepted for credit only if approved in advance by the Registrar.

The maximum credit for all work taken concurrently at the University and by correspondence, extension, or at another institution may not exceed a total of 19 credits per semester.

Advanced Placement and International Baccalaureate

The University of Redlands will grant credit for Advanced Placement Tests and International Baccalaureate courses. For Advanced Placement Tests, each department assigning credit establishes its own requirement for a level of acceptance and number of credits accepted. The minimum level of acceptance is a score of three. Please refer to individual departments for further details. For International Baccalaureate higher-level courses, the minimum level of acceptance is a score of five. Scores of five and six earn 4 credits and scores of seven earn 8 credits.

Many high schools have arrangements with nearby post-secondary institutions, allowing students to take regular college courses while still in high school. The University of Redlands will accept credits for transferable courses if the courses are posted for credits on the transcript of the college where the courses were taken. Regardless of how many college credits are earned before graduating from high school,

Academic Standards

the student must go through the application process required of all entering freshmen.

The maximum amount of credit accepted through Advanced Placement, International Baccalaureate, and college courses taken for high school credit is the equivalent of 32 semester credits.

VETERANS

Veterans or their dependents may be entitled to Veterans Administration education benefits as students of the University of Redlands. Veterans who receive VA educational benefits are responsible for notifying the VA Certifying Official at the University of Redlands of any change in academic program, class load, address, or marital, or dependent status. Questions about benefits or status should be directed to the VA Certifying Official by calling 909-748-8478.

College of Arts and Sciences Academic Calendar

Note: The Academic Calendar for 2013-2014 will be included in the *Catalog* supplement to be published in the summer of 2013.

2012–2013

FALL 2012

Wednesday, August 29	New students and Johnston students arrive
August 29-September 2	New-Student Week, new students register
Sunday, September 2	Continuing students arrive
Tuesday, September 4	Classes begin
Friday, September 7	Check-in deadline
Tuesday, September 18	Final day to add classes, final day to submit Individualized Study contracts
Tuesday, September 25	Final day to submit Johnston regular course contracts
October 8-9	Study days
Friday, October 12	Final day to drop classes and change grading options and unit values
October 22 to Nov 16	Advising and registration period for Spring and May Term 2013
Friday, October 26	Final day to record a grade for Spring, May Term, or Summer 2012 as Incomplete
November 21-23	Thanksgiving recess
Monday, December 3	Deadline for departmental honors awards to be completed for Fall 2012 graduates
Monday, December 10	Last day of classes
Tuesday, December 11	Study day
December 12-16	Final exams
Monday, December 17	Winter recess begins
Wednesday, December 19	Deadline for Fall 2012 grade submission: Noon
Friday, February 1	Final day to submit Johnston evaluations for Fall 2012

SPRING 2013

Sunday, January 6	All students arrive on campus
Monday, January 7	Classes begin
Friday, January 11	Check-in deadline
Friday, January 18	Final day to add classes, submit Individualized Study contracts
Friday, January 25	Final day to submit Johnston regular course contracts
Friday, February 15	Final day to drop classes, change grading options and unit value
February 25-March 1	Term break (facilities close)
Monday, March 4	Classes resume
Friday, March 8	Final day to record a grade for Fall 2012 Incomplete

College of Arts and Sciences Academic Calendar

March 11-March 29	Advising and registration period for Fall 2013
Monday, April 1	Publication deadline for departmental honors awards to be completed for Spring 2013 graduates
Friday, April 12	Last day of classes
Saturday, April 13	Study day
April 15-April 18	Final exams
Friday, April 19	Baccalaureate
Saturday, April 20	Commencement
Wednesday, April 24	Deadline for Spring 2013 grade submission: Noon
April 22-April 26	Term break
Friday, May 31	Final day to submit Johnston evaluations for Spring 2013

MAY TERM 2013

Monday, April 29	Classes begin
Tuesday, April 30	Final day to add a class, submit Individualized Study contracts for May Term
Wednesday, May 1	Final day to submit Johnston regular course contracts
Thursday, May 2	Final day to drop a class
Wednesday, May 22	Last day of classes
Thursday, May 23	Final exams
Tuesday, May 28	Deadline for May Term 2013 grade submission: Noon
Monday, June 24	Final day to submit Johnston evaluations for May Term 2013

College of Arts and Sciences Admissions

UNDERGRADUATE

The University believes that the best education takes place in a challenging and humanizing environment, one that fosters intellectual growth and personal development. We want students who possess high levels of motivation, involvement, commitment, and accomplishment.

Selection Criteria

Candidates who apply to the University of Redlands will be evaluated individually by admissions officers or the Faculty Review Committee. The following factors are considered:

1. **Academic record.** We are interested in the student who has performed well in a demanding curriculum. The quality of academic achievement (as demonstrated by high school grade point average) during the sophomore through senior years for first-year students and in college-level work for transfers is the single most important factor in our decision-making process. Preferential consideration will be given to first-year students and transfers whose school records reflect a B average or better in academic areas.
2. **Preparation.** We recommend that applicants complete at least 16 credits in solid academic areas during high school, although the cumulative grade point average (GPA) is based on grades ten through twelve. No single academic schedule is required, but a college preparatory program is strongly recommended. Specifically, a student should have taken four years of English, three years of mathematics up to and including Algebra II, and two or three years each of foreign language, laboratory sciences, and social studies.
3. **Standardized testing.** Either the Scholastic Assessment Test (SAT I) of the College Entrance Examination Board or the American College Test (ACT) of the American College Testing Program is required for all first-year applicants. SAT II subject tests are not required. Test results should reflect the ability necessary to succeed in an academically demanding environment.

4. **Application.** When considering a student's extracurricular activities and personal accomplishments, we look for quality and depth rather than quantity—factors that will enrich the campus community and increase the student's sense of participation. When reading a student's essay, we focus on both content and style.
5. **Interview.** A personal interview, although not required, is strongly recommended.

First-year Student Application Procedure

Before a student can be considered for admission, his or her file must include:

1. **A completed and signed application with the appropriate application fee** (\$30 for online application available at www.redlands.edu, \$40 for paper application). Checks or money orders should be made payable to the University of Redlands. If the fee poses a financial hardship, it may be waived. Applicants should ask their counselors to request a fee waiver.
2. **Results of either the SAT I and/or ACT.** Applications and scheduled dates for these examinations can be obtained at secondary schools. The SAT code number for the University of Redlands is 4848 and the ACT code is 0464.
3. **An official transcript.** Request that an official transcript from the high school registrar or counselor be sent directly to the University of Redlands Office of Admissions. Hand-delivered transcripts, even if they are in a sealed envelope, cannot be accepted.
4. **Two personal recommendations.** One should be given to an administrative official (counselor, director of guidance, dean, vice principal, or principal) and the other to a teacher of an academic subject at the last school attended. If the applicant has been out of school for more than three years, the reference forms may be written by any two people (except relatives) qualified to provide an evaluation of personal qualities and academic abilities.

College of Arts and Sciences Admissions

Transfer Application Procedure

Because of the valuable contributions that students from varied educational experiences and backgrounds make to the University, Redlands welcomes applications from transfer students.

To be considered for admission, a transfer applicant must have graduated from secondary school or the equivalent and must have completed at least 24 semester credits of transferable college-level work. Transfer students should have a record showing that the majority of this coursework has been in academic courses and have two solid semesters of full-time work with no less than a 2.0 in any one course at the time of applying. We also recommend that, in the absence of other strongly supportive academic evidence, a student possess a minimum GPA of 2.8. If less than 24 credits have been completed, an applicant will be reviewed according to first-year student procedures. The University will accept up to 66 credits from a community college transfer and 96 credits from a four-year college transfer, but the last 32 credits prior to graduation must be completed at the University of Redlands.

An application for admission will be acted upon only after the Office of Admissions has received:

1. **A completed and signed application with the appropriate application fee** (\$30 for online application available at www.redlands.edu, \$40 for paper application).
2. **Official transcripts** of record from the last high school and each college attended. (No portion of a college record may be omitted in consideration of eligibility for admission.) Transcripts must come directly from the high school and each college attended. Hand-delivered transcripts, even if sealed, cannot be accepted.
3. **Two letters of recommendation.**
4. **A personal interview** for transfer applicants, although not required, is recommended.

Admissions Options and Action

Regular Application for Fall Semester Admission

Candidates who apply for admission for the Fall semester should carefully study the schedule of deadlines at the end of this section. Applications may be submitted as early as the previous September for students applying for the Fall semester of the coming year.

The University of Redlands operates on a “rolling admissions” policy with “phased” deadlines for Fall entrants. Applicants for the Fall semester should apply by November 15, January 15, or March 1. Students receive admission notification approximately five to six weeks after the application is complete. Those prospective students notified of acceptance who decide to matriculate must submit a \$350 non-refundable tuition deposit to guarantee a place in the class. The deposit, which will be applied toward tuition and fees, must be submitted prior to the published deadlines. For the Fall semester, the tuition deposit deadline is May 1 for first-year students and June 1 for transfer students.

Spring Semester Admission

Spring matriculants must have a completed application on file by November 1. The application will be processed when the file is complete on a policy of “rolling admissions.” As most mid-year entrants are transfers, they are advised to request all official transcripts well ahead of the November 1 deadline.

Johnston Center Admission

Students applying to the Johnston Center for Integrative Studies are expected to meet the same requirements for admission as the regular undergraduate applicant. In addition, students must complete the Johnston Center Supplement.

Common Application

The University of Redlands is one of 456 colleges that accepts the Common Application. Students applying to more than one participating institution are encouraged to submit the Common Application, available at: www.commonapp.org. The Common Application should be submitted along with

the application fee and the University of Redlands Common Application Supplement.

Deferred Admission

A student may wish to enroll at the University later than the semester indicated on the letter of admission. To defer entrance, notify the Office of Admissions in writing and submit, along with your notification, a \$350 non-refundable tuition deposit. A deferred file will be kept active for one calendar year. After that time, the candidate must submit a complete readmission application.

International Students

The University of Redlands welcomes the diversity provided by students from various nations and cultures. To be considered for admission, an international student must submit: a completed University of Redlands Application or a Common Application and a University of Redlands International Student Supplement; a U.S. \$30 online application fee, or a U.S. \$40 paper application fee payable in the form of a bank draft in U.S. dollars or by an American Express, Visa, Mastercard, or Discover credit card; two letters of recommendation; "Certified True Copies" of original secondary school records and certificates; an autobiographical essay; and a bank statement or certification of finances form. International students whose primary language is not English must submit the results of the Test of English as a Foreign Language (TOEFL). The results of the SAT I and ACT are not required of international students but may be submitted. Assuming above-average or superior academic credentials, admission will be offered to students with TOEFL scores above 550 (213 for computer-based test or 81 for the internet-based test). International students must submit all credentials to the Office of Admissions by February 1 for Fall entry and by November 1 for Spring entry.

Guest Students

A student who is a degree candidate at another institution may attend the University of Redlands as a guest student on a full- or part-time basis. A simplified admission procedure is provided for such students. Inquiries should be addressed to the Study Abroad

Office. It is the guest student's responsibility to check whether credits taken at Redlands may be transferred to the degree-granting institution. University of Redlands scholarship aid is not available to guest students.

Part-time Students

Students who are not pursuing a degree may take up to 8 credits per semester. Degree candidacy on a part-time basis is limited to students of non-traditional college age who hold permanent employment or have family obligations. The dean of admissions must approve such candidacy. No more than 16 credits of non-degree, part-time coursework may be applied to candidacy.

Appeal Procedure

Students seeking to appeal an admission decision can write to the Faculty Admissions Review Committee through the Office of Admissions. Additional documentation in support of the appeal must be provided.

Dates and Deadlines

November 1. Application deadline for Spring semester.

November 15. Phase I deadline for the Fall semester. Students who are applying for a talent or merit scholarship should apply by this date.

January 15. Phase II deadline for the Fall semester. Students seeking "need-based" financial assistance should apply by this date.

March 1. Deadline for the Fall semester. Transfer and late freshman applicants should apply by this date to receive consideration for on-campus housing and financial assistance.

May 1. Candidate's reply date. \$350 non-refundable tuition deposit due. International students should submit the \$350 deposit in the form of a bank draft in U.S. dollars, or with an American Express, Visa, Mastercard, or Discover credit card.

June 1. Transfer student reply date. \$350 non-refundable tuition deposit due. International

College of Arts and Sciences Admissions

students should submit the \$350 deposit in the form of a bank draft in U.S. dollars, or with an American Express, Visa, Mastercard, or Discover credit card.

GRADUATE PROGRAM ADMISSIONS

The College of Arts and Sciences offers master's degrees in communicative disorders, music, and geographic information systems.

Please refer to the appropriate department sections in this *Catalog* for more information.

College of Arts and Sciences Financial Aid

GENERAL INFORMATION

Every effort has been made to ensure the accuracy of this information at the time of publication. Due to frequent changes in program regulations mandated by the U.S. Congress, Department of Education, and the State of California, all of the information contained herein is subject to change without notice.

Financial need is calculated as the difference between the cost of attending college and the expected contribution from students and their parents. Financial aid is an award in the form of a scholarship, grant, loan, and/or work opportunity that will assist in meeting this need.

This information reflects the policies, tuition, and fees for the 2012-2013 academic year. New information will be available during summer 2013.

Financial Aid Vocabulary

Acronyms and initials are frequently used in discussing financial aid; many appear in this publication. Familiarity with the following terms is helpful when investigating potential financial aid programs:

COA	Cost of Attendance
EFC	Expected Family Contribution
FAFSA	Free Application for Federal Student Aid
DL	Direct Loan
GPA	Grade Point Average
IRS	Internal Revenue Service
FSEOG	Federal Supplemental Educational Opportunity Grant
SAR	Student Aid Report

Eligibility

To receive need-based financial aid, a student must meet each of the following conditions:

1. The applicant must be a United States citizen, or eligible non-citizen.
2. The applicant must have demonstrated financial need according to the current need analysis procedure.
3. The applicant must be registered with the Selective Service if the applicant is a male, at least 18 years old, and not a current member of the active armed forces.
4. The applicant must be accepted for admission to the University of Redlands.
5. The applicant must certify non-participation in the unlawful manufacturing, dispensation, possession, or use of a controlled substance.

UNDERGRADUATE INFORMATION

Analysis Systems

Expected Family Contribution

The Expected Family Contribution (EFC) is calculated on the basis of the financial information provided by parents and students on the FAFSA. The analysis system attempts to judge the family's financial ability to contribute toward the cost of education, not how much they will pay (i.e., the calculation is determined using objective facts of a family's financial position as opposed to the family's financial practices). The analysis procedure attempts to determine an EFC based not only upon income, but upon a variety of other variables as well: investments, family size, siblings attending college at the same time, etc. The FAFSA calculates the family contribution for federal funding.

How a Financial Aid Award Is Determined

An award package is a combination of grant, loan, and/or work funds designed to assist in meeting a student's need. Financial need equals the difference between educational cost [See "Cost of Attendance" later in this chapter.] and the EFC (parental contribution plus a student's income and asset contribution).

College of Arts and Sciences Financial Aid

Financial Aid Policies and Practices

Dependent or Independent

Students (and their families) have the primary responsibility to meet the cost of their college education to the extent determined possible by the analysis system. Financial aid is available only to cover the difference between each student's resources and the required expenses of attendance. To qualify as an independent student for federal funds, state funds, and/or University of Redlands funds, the applicant must meet one of the criteria listed below. The individual must be:

1. At least 24 years old by December 31 of the award year
2. An orphan or ward of the court emancipated minor, or in legal guardianship
3. A veteran of the U.S. Armed Forces or currently serving on active duty for purposes other than training
4. An individual with legal dependents other than a spouse
5. A graduate or professional student
6. An unaccompanied homeless youth, or
7. A married person

Duration of Financial Aid Eligibility

The total number of semesters for which financial aid can be awarded and received is determined by subtracting from eight the number of semesters of any college-level work accepted by the University of Redlands. For example, a first-semester, first-year student would be eligible for eight semesters of aid, while a first-semester junior would be eligible for four semesters of aid.

Who Sets the Rules, Regulations, and Procedures?

Financial aid funds are provided to students primarily from three sources: federal government, state agencies, and individual colleges.

Federal (Pell Grant, Perkins Loan, Direct-Loan, Work, and FSEOG programs)—Federal regulations outline and govern the following items: institutional responsibilities, student responsibilities, the application procedure, student eligibility, maintenance of student records, analysis procedure, award

coordination with state and college awards, and recipient enrollment requirements.

State (Cal Grant A, Cal Grant B, and Cal B Access Grant)—The State of California regulates institutional responsibilities, student responsibilities, student eligibility, application procedure and deadlines, analysis procedure, award coordination with federal and college awards, and enrollment requirements.

College (Achievement Awards, University Scholarships and Grants, Presidential Scholarships, Talent Awards, Redlands Loan)—Members of the University of Redlands Board of Trustees, in coordination with the Financial Aid Committee, regulate the distribution of college funds, adhering first to federal and state regulations.

The Office of Financial Aid at the University of Redlands adheres to all federal, state, and college regulations in the application for, and in the analysis and awarding of, financial aid to ensure that regulations are not in conflict and meet the language and intent of the legislative provisions. Copies of federal, state, and institutional regulations and procedures are on file in the Office of Financial Aid.

Satisfactory Academic Progress

The University of Redlands defines satisfactory academic progress on the basis of the number of credits and approved degree requirements satisfactorily completed, as well as the student's cumulative grade point average (GPA). To receive financial aid at the University of Redlands and maintain satisfactory academic progress, undergraduate students must meet the following minimum standards based on a 12-month calendar year.

Minimum Requirements for Full-time Status

Students must complete at least 12 credits per semester (24 credits per year) with at least a 2.0 grade point average.

Special Notes

Although the minimum acceptable standard to be eligible for financial aid is 24 academic credits per year for full-time students, a student must complete an average of 32 credits per academic year to graduate within a four-year period. A student may have met

the minimum satisfactory academic progress requirement throughout the four years and be unable to graduate because (s)he will not have met the 128-credit degree requirement. If this happens, the student will not be eligible for State of California or University of Redlands non-Title IV aid for the ninth and tenth semesters, which might be required to complete University of Redlands degree requirements.

Classes that a student received an Incomplete for will not be counted toward the number of credits completed until the grade has been posted.

Part-time students are not eligible for University of Redlands funding.

Sources of Financial Aid

The following is a list of financial aid programs available to students in the College of Arts and Sciences.

Need-Based Grants

University of Redlands Grants

University Grants are awarded to qualified undergraduates who meet all filing deadlines. Awards are based on financial need, academic standing, and availability of funds. They are made possible, in part, through gifts to the university. The Office of Advancement Services coordinates donor relations and you may be asked to write a letter of thanks to the donor and/or participate in donor recognition activities. University grants go toward tuition expenses only.

Note: Students must reapply for financial aid every year by March 2. Students who apply after March 2 will have a ten percent reduction in their University grant. After July 1, there will be a twenty-five percent reduction in University grant.

Cal Grant A and Cal Grant B

Cal Grants are funded by the State of California and are administered by the California Student Aid Commission (CSAC). They assist low- and middle-income students with tuition and fees. Awards are based on financial need and grade point average. When you file a FAFSA and a Cal Grant GPA verification form by March 2, you are automatically considered for a grant. Cal Grant eligibility is contingent

on students and/or parents meeting income and asset requirements. CSAC makes all final Cal Grant decisions.

It is the policy of the University of Redlands to directly apply financial aid and/or scholarship funds to current year tuition, fees, residence hall charges, and other institutional expenses before releasing funds to students. A student may request that their Cal Grant B Access Grant be disbursed directly to them. This request can be made at any time; however, if the grant has already been disbursed, the request would affect only future payments. The request may be made, in person, to the Office of Student Accounts.

Federal Pell Grant

This federal grant ranges from \$575 to \$5,550 for a full-time undergraduate student. The award is determined by the amount of the EFC in relation to the cost of attending the University of Redlands. Eligibility is limited to a total of twelve semesters during the pursuit of a student's first baccalaureate degree.

Federal Supplemental Educational Opportunity Grant (FSEOG)

This federal grant assists students who demonstrate financial need, and is administered by the Office of Financial Aid. Grants range from \$200 to \$4,000 per academic year. A student must have a Pell Grant to be eligible to receive an FSEOG.

Institutional Loans

A loan is often part of a financial aid award package and often enables students to defer educational costs. All educational loans must be repaid.

Redlands Loan

This five percent interest loan is available to graduates of California high schools and California community college transfer students, and is packaged according to the University's packaging policy. Funding is limited. Repayment begins six months after a student is no longer registered as an undergraduate student at the University of Redlands.

Federal Perkins Student Loan

This federal loan carries an interest rate of five percent and is repayable starting nine

College of Arts and Sciences Financial Aid

months after graduation, upon termination of an academic program, or after enrolling for fewer than 6 credits during a semester. Repayment extends over a maximum of ten years at a minimum monthly payment of \$40. This loan is administered by the University of Redlands. Annual loans generally range from \$200 to \$3,000.

Loan Limits (aggregate amounts). For undergraduate students, the annual loan limit is \$5,500 and for graduates, the limit is \$8,000. The aggregate loan limit is \$27,500 for undergraduate students and \$60,000 for graduate students, including any amount borrowed as an undergraduate.

Federal Direct Student Loans

Federal Direct Student Loans are either subsidized or unsubsidized based on financial need, which is evaluated using the data reported on the FAFSA. With a subsidized loan, the federal government pays the interest on the loan until the student graduates, withdraws, leaves school, or drops below half-time. For unsubsidized loans, students are charged interest from the time the loan is disbursed until it is paid in full. Borrowers may choose to pay the interest while they are in school, or defer the interest until they are in repayment. Any accrued interest will be capitalized and added to the principal amount of the loan at repayment, increasing the total amount that must be repaid. If students choose to pay the interest as it accumulates, the long-term cost of the loan will be less. Repayment on the Federal Direct Student Loans begins six months after the student graduates, withdraws, leaves school, or drops below half-time.

Standard repayment on Direct Loans requires a minimum monthly payment of \$50 or the amount required to repay the loan within ten years. Visit www.redlands.edu/direct.asp for more information.

Federal Direct Subsidized Student Loan

This long-term student loan is available from the Department of Education. No interest is charged to the student, nor is repayment required, while the borrower is enrolled at least half-time. The interest rate for undergraduate

students is a fixed 6.8 percent for loans borrowed after July 1, 2012. Students should consult their repayment schedules to determine the applicable interest rates for loans borrowed prior to July 1, 2012. Borrowers are eligible for a six-month grace period once they drop below half-time enrollment, before repayment begins. For loan periods beginning after July 1, 2012, interest on subsidized loans is no longer paid by the federal government during the six-month grace period. You are not required to begin making payments until your grace period ends. If you do not pay the interest during your grace period, it will be capitalized. Students are eligible for this loan if they demonstrate a financial need using standards established by the U.S. Secretary of Education.

Loan Limits. Students with a demonstrated need can borrow only what is needed, not to exceed a maximum of \$3,500 a year for freshmen, up to \$4,500 a year for sophomores, and up to \$5,500 a year for juniors and seniors. Maximum aggregate loan amounts are \$31,000 (up to \$23,000 may be subsidized) for a dependent undergraduate student and \$57,500 (up to \$23,000 may be subsidized) for an independent undergraduate student (or a dependent undergraduate student whose parents do not qualify for the PLUS Loan).

Federal Direct Unsubsidized Student Loans

This long-term student loan is available from the Department of Education. The interest rate on this loan is fixed at 6.8 percent for loans disbursed after July 1, 2012. Full-time and half-time students are eligible to apply. This loan is available to students who do not demonstrate the financial need necessary to qualify for Federal Direct Subsidized Loans. Independent students and students whose parents are denied for a PLUS Loan are also eligible for an additional Unsubsidized Direct Loan of either \$4,000 (freshmen and sophomores) or \$5,000 (juniors and seniors).

The same terms and conditions apply as to Subsidized Federal Direct Loans, except the borrower is responsible for the interest that accrues during deferment periods (including

time in school). The student's options in handling the interest of the loan are: (1) Pay the interest and the principal; (2) Pay the interest quarterly and defer the principal; (3) Defer the interest and principal until the student goes into repayment (interest will accrue and be capitalized to the loan when the student enters repayment).

Loan Limits. Yearly loan limits for a dependent undergraduate student are: \$5,500 for a freshman, \$6,500 for a sophomore, and \$7,500 for a junior or senior. Yearly loan limits for independent students or students whose parents have been denied a PLUS Loan allow for an additional \$4,000 (freshmen and sophomores) or \$5,000 (juniors and seniors). Maximum aggregate loan amounts are \$31,000 for a dependent undergraduate student and \$57,500 for an independent student, or those who have been denied a PLUS Loan.

Federal Direct Parent PLUS Loan for Undergraduate Students

Parents of dependent, undergraduate students are allowed to borrow a PLUS Loan for up to the total cost for the academic year, minus financial aid received. Repayment is required to begin within 60 days after the last disbursement; however, borrowers can request a deferment by contacting their loan servicer while their student is enrolled at least half-time toward their baccalaureate degree. The current interest rate is a fixed 7.9 percent for loans borrowed after July 1, 2012. The federal government deducts four percent in fees before the loan funds are disbursed to the University. The monthly minimum payment must be \$50 or an amount that will allow the loan to be paid in full in ten years, whichever is more. For more information and to apply, parents can either contact the Office of Financial Aid or visit www.redlands.edu/plus.asp.

Work Opportunity

Work may be included as part of the financial aid award package. Such jobs are usually located on campus, although some can be off campus. Part-time jobs can add depth to a student's educational experience and can be a valuable asset when seeking employment

after graduation. Students may not work more than ten hours a week during regular class sessions and should expect to earn between \$2,400 and \$2,700 during the academic year. The exact earning potential depends upon the student's academic schedule and year in school. Institutional funds and federal funds are allocated to provide part-time employment to students.

Academic and Talent Awards Not Based on Need

The University of Redlands offers a variety of talent- and merit-based scholarships. Current scholarship amounts and application deadlines may be found at: www.redlands.edu/scholarships.asp.

Achievement Award

Achievement awards are determined by a review of academic record and/or leadership and accomplishment in school or community service. Entering freshmen and transfers are eligible for consideration and must indicate on the application their interest in the award.

Presidential Scholarships

Presidential Scholarships are awarded by the Office of Admissions to first-year freshmen who have shown academic accomplishments as determined by the combinations of their recalculated GPA and SAT/ACT scores.

Talent Awards

Awards are available in each of the following areas to entering freshmen students and transfer students: art, creative writing, music, and theatre. Selection and renewal are based upon recommendation by the department.

Renewal Policy on Merit Awards

To be eligible to renew Achievement Awards or Presidential Scholarships, students must:

1. Make satisfactory progress toward their degree. See "Satisfactory Academic Progress Policy" (page 36).
2. Achieve a cumulative GPA of at least 3.00 by the end of the sophomore year and each year thereafter. Johnston Center students who have few or no courses taken for a numerical grade must be similarly evaluated by the Johnston Center director.

College of Arts and Sciences Financial Aid

Note: If a recipient of any of the above awards is also eligible for need-based funding, the total value of all University gift aid cannot exceed the cost of tuition.

Payment of Financial Aid Awards

All financial aid awards are credited directly to a student's account at the beginning of each semester. The work award is paid biweekly to the recipient according to the number of hours worked in each two-week period.

Cost of Attendance

The following table outlines the cost of attendance for the 2012-2013 academic year:

On-Campus Student Budget

Tuition.	\$39,038
Room and board (double occupancy).	11,924
ASUR fee.	300
Books and supplies*	1,665
Total	\$52,927

*Estimate of possible cost to student.

Outside Funding Sources

Army ROTC, Air Force ROTC

These programs provide college-trained officers for the U.S. Army, the National Guard, the U.S. Air Force, the Air National Guard, and the U.S. Army Reserve. ROTC scholarships pay for college tuition, books, lab fees, and other purely academic costs. Scholarship cadets also receive a tax-free living allowance up to \$1,000 for each academic year the scholarship is in effect. Applicants must be citizens of the United States when they accept the award, at least 17 years of age, and under 25 years of age on June 30 of the year they become eligible for appointment as officers. The SAT or ACT must be taken no later than November of the year the candidate applies for the scholarship. For further information, call (213) 740-2670.

Veterans Benefits

The University of Redlands has been designated by the Veterans Administration as one of the qualified institutions veterans may attend and receive benefits under the following U.S. Codes:

- Chapter 30, Montgomery G.I. Bill (MGIB)—Active Duty

- Chapter 31, Veterans and Vocational Training and Rehabilitation Act (VR&E) [Public Laws 894 and 97-815]
- Chapter 32, VEAP
- Chapter 33, Post 9-11 GI Bill and Yellow Ribbon GI Education Enhancement Program
- Chapter 34, Vietnam Era Education Program
- Chapter 35, Dependents Educational Assistance Program (DEA)
- Chapter 1606, Montgomery GI Bill—Select Reserve (MGIB-SR)
- Chapter 1607, Reserve Educational Assistance Program (REAP)

The University is approved as a Yellow Ribbon School with the U.S. Department of Veterans Affairs. For more information about VA benefit eligibility, contact the U.S. Department of Veterans Affairs at 1 (888) 442-4551 or visit <http://gibill.va.gov/>. To apply to the Yellow Ribbon Program at University of Redlands, contact a Veteran Certifying Official at (909) 748-8478 or visit www.redlands.edu/military.

Veterans and widows and children of deceased veterans who wish to inquire about their eligibility for benefits should contact the regional office of the U.S. Department of Veterans Affairs by calling (888) 442-4551.

STUDENT RIGHTS AND RESPONSIBILITIES

The rights and responsibilities of all financial aid recipients as required by federal and state regulations are outlined below.

What students have the right to know:

- The deadlines for submitting applications for each of the available programs.
- How your financial need was determined.
- How much of your financial need has been met.
- What resources were considered in the calculation of your need.
- What financial aid programs are available and their exact requirements.
- How financial aid program eligibility is determined, how decisions on eligibility are made, the basis for these decisions, and

- the procedures for appealing decisions if you believe you have been treated unfairly.
- What portion of your financial aid is a loan, and what portion is a grant. If the aid is a loan, you have the right to know the total amount that must be repaid, the amount of each payment, the interest rate, the length of time you have to repay the loan, and when repayment is to begin.
- What it costs to attend the University of Redlands and what the University's refund policy requires of the University and of you.
- How the University determines whether you are making satisfactory progress, and what happens if you are not.
- What happens if you withdraw or drop out during the year.

Responsibilities of students:

- You should read carefully all information regarding the University of Redlands programs.
- You must complete all forms accurately and submit them on time to the correct agency or office.
- You should be careful and accurate in completing your application for student financial aid. Errors can result in long delays in your receipt of financial aid. Intentional misreporting of information on application forms for federal financial aid is a violation of law and is considered a criminal offense subject to penalties under the U.S. Criminal Code.
- You must be aware of and comply with the deadlines for application and reapplication for aid.
- You need to maintain good academic standing and make satisfactory progress.
- You are required to report to the Office of Financial Aid if you drop below full-time status.
- You are required to provide all additional documentation, verification, corrections, and/or new information as requested by either the Office of Financial Aid or any agency to which you applied.
- You have to update information such as name change, address change, withdrawal, or graduation as they occur. Notify the Office of Financial Aid or any agency that has awarded you funds.
- You must accept responsibility for reading, understanding, and keeping copies of all forms that you are asked to sign.
- You must comply with all policies and regulations when you accept financial aid from any source.
- You should keep track of the total amount of your loans as you go through school so that you have accurate knowledge of the total amount you owe when it is time to begin repayment.
- If you have received a Federal Perkins Student Loan or a Federal Direct Loan from the Office of Financial Aid, you must participate in an exit interview as required by federal law before graduating, transferring, or withdrawing from the University of Redlands.
- You must perform the work that is agreed upon in accepting a work opportunity award. You are required to monitor your earnings and not to exceed the maximum amount of your work opportunity award. Overworking will necessitate a reduction of other forms of financial aid in your package.
- If you receive additional funds from any source, such as outside scholarships, before or after you receive financial aid from the University, you must report the source and value of the award to the Office of Financial Aid. Additional funds frequently require an adjustment to the existing financial aid award to avoid an "over award" as defined by federal and state regulations.
- You should check your University e-mail account on a regular basis.

Revisions of Financial Aid Awards

All financial aid awards are final when granted. However, the Financial Aid office will re-evaluate and consider a revision of the financial aid award if there is a change of family circumstances during the award year,

College of Arts and Sciences Financial Aid

correction or change in the data reported by the family, or discovery of an unintended error. Any revision will be subject to the availability of funds.

Drug-Related Convictions

Title IV financial aid eligibility is suspended for a student convicted of violating any Federal or State drug possession or sale law. For drug possession convictions, eligibility is suspended:

- One year for the first offense,
- Two years for the second offense, and
- Indefinitely for the third offense.

For drug sale convictions that occurred during a period of enrollment for which a student was receiving Title IV aid, eligibility is suspended:

- Two years for the first offense, and
- Indefinitely for the second.

A student's Title IV financial aid eligibility may be resumed before the end of the ineligibility period if:

- The student satisfactorily completes a drug rehabilitation program which complies with criteria established by the Secretary and such a program includes two unannounced drug tests, or
- The conviction is reversed, set aside, or otherwise removed from the student's record.

Uniform Crime Reporting

For information regarding compliance with federal regulations on uniform crime reporting, please refer to the "Legal Statements" section of this *Catalog*.

Emergency Student Loan Funds

The Financial Aid office administers a short-term, no-interest loan fund to assist students experiencing an unexpected emergency or cash-flow problem. Except in unusual circumstances, these loans do not exceed \$200 and are billed to the student's account within 30 days by the University's Business Office. Evidence of repayment ability is a prerequisite for all short-term loans made to students.

Students are not eligible for more than one emergency student loan per semester.

Methods of Payment

All charges must be paid in full or application must be made to the University's approved tuition installment plan (TuitionPay)* prior to the tuition due date. All remittances should be made payable to the University of Redlands.

Students with a past due balance on their University account are subject to dismissal from the University. The University will not release transcripts or a diploma until the past due balance is paid in full.

Students will not be permitted to pre-register for the next term until the past due balance is paid in full.

If the University is required to use third-party collections (i.e., collection agency or attorney) to collect the student account balance due, any future registration may require payment in advance.

For information regarding student and parent loan programs, please refer to the appropriate category in the Financial Aid section of this Catalog.

**For information regarding the tuition installment plan (TuitionPay), please contact the Student Accounts office.*

Policy on Refunds

Refund policies at the University of Redlands are established in compliance with the 2008 amendments to the Higher Education Act of 1965. The University has adopted the federal refund policy guidelines as its institutional policy. Refund policies are subject to change at any time, according to federal and state regulations. When such changes are made, notice will be given as far in advance as possible. To obtain a refund, please contact the Student Accounts office.

Refunds are determined from the date of official withdrawal or approved leave of absence. Students who withdraw unofficially or at the request of the University are not entitled to refunds for the current semester.

Students receiving federal Title IV financial aid funding may be eligible for a refund according to the federal refund guidelines. Federal regulations stipulate the allocation of refunds representing federal aid and repayment requirements for students receiving cash disbursements of federal aid.

Official Withdrawal

A withdrawal is considered official for all students when written notice has been provided to the College of Arts and Sciences Office of Student Life. Written withdrawal or leave of absence notification is required to state the intention of the student to discontinue the course(s) in which he or she is registered and their last date of attendance. The withdrawal will be considered effective as of the date the student gives official notification of intent to withdraw. If a student fails to withdraw officially, the applicable date will become the mid-point of the term, unless the University can document a later date. In certain circumstances, if a later date of last academic activity is substantiated, this date can be used in lieu of the mid-point of the term.

Federal Refund Policy

Students who withdraw or take a leave of absence from the University during an academic term may have their aid and tuition prorated based on their federally required withdrawal calculation. The withdrawal calculation re-evaluates aid eligibility at the time of withdrawal by accounting for “earned” versus “unearned” aid based on the amount of time that has elapsed during the term. There are three steps that the University of Redlands must complete to comply with the federal policy:

1. Determine the withdrawal date
2. Determine the amount of earned federal aid
3. Return unearned federal funds to the appropriate program(s)

The withdrawal date is the date the student gives official notification of their intent to withdraw. For the withdrawal to be considered official, the student must schedule an exit interview with the Office of Student Life. If the student fails to withdraw officially, the applicable date will become the mid-point of the term, unless the University can document a later date. In certain circumstances, if a later date of last academic activity is substantiated, this date can be used in lieu of the mid-point of the term.

Students who withdraw before completing at least 60 percent of the term will “earn”

funds in direct proportion to the time they were enrolled. The percentage of earned aid is determined by dividing the total number of calendar days enrolled by the total number of days in the term. Students who complete at least 60 percent of the term are eligible for 100 percent of their federal financial aid.

Unearned aid must be returned to the appropriate programs in accordance with the calculation schedule approved by the U.S. Secretary of Education. Refunds to specific Title IV programs will be made according to current regulations. For additional information on the refund calculation and refund schedule, see the Tuition and Fees section of this *Catalog*.

Returning Students

Students re-enrolling after withdrawal from the University will be charged current rates and fees based on the start date of new registration.

Allocation of Federal Portion of Refunds after Withdrawal

If a refund is available under federally mandated refund policy guidelines, students will not receive refunds until all funds representing financial aid awards have been returned to the respective financial aid programs as required by federal regulations. The federal portion of the refund will be allocated in the following order:

1. Federal Direct Student Loan
2. Federal Perkins Loan
3. Federal Direct PLUS Loan (includes Grad Direct PLUS)
4. Federal Pell Grant
5. Federal SEOG
6. Federal Teach Grant
7. Other Title IV Assistance

Repayment Policy

Some students receive financial aid beyond the cost of tuition and fees. In those cases, a student may have requested and received a credit balance refund from their student account. If a student withdraws completely or is disqualified, the student will be expected to repay the calculated refund using the federally mandated refund policy guidelines.

College of Arts and Sciences Financial Aid

Failure to repay funds could cause suspension from future participation in any federal financial aid programs.

Other Fees

Refunds of other fees will be made according to applicable University policies.

Temporary Absence

No refunds will be made for students who remain away for part of a semester without officially completing the withdrawal or leave of absence process. No refunds will be made in cases of disciplinary suspension.

APPLICATION PROCEDURE

How to Apply for Financial Aid

New Students

- Apply for admission by January 15 prior to the academic year of anticipated entrance.
- Complete the Free Application for Federal Student Aid (FAFSA) by March 2.
- California residents applying for a Cal Grant A or B must do so by March 2 prior to the academic year of anticipated entrance by submitting the completed FAFSA and GPA verification form.

Returning Students

Free Application for Federal Student Aid (FAFSA)

The FAFSA must be completed each year prior to March 2 in order to be eligible for the next academic year. Students can complete the FAFSA online at www.fafsa.gov.

Cal Grant A and B GPA Verification form (California residents applying for Cal Grant A and B)

Students must complete it by March 2 prior to the academic year of anticipated entrance. If the student has not yet completed at least 24 credits at the time the GPA Verification form is completed, the student will need to have the form completed by the last institution the student attended and completed 24 credits, or the student's high school.

Appeal Process

A student may appeal University of Redlands' financial aid decisions in writing to the Office of Financial Aid.

Information and Assistance

For further information about financial aid, or for assistance in completing any of the application forms, write to the Office of Financial Aid, University of Redlands, P.O. Box 3080, Redlands, CA 92373-0999; or call Monday through Friday, 8 a.m. to 5 p.m., at (909) 748-8047; or contact them at: financialaid@redlands.edu.

COLLEGE OF ARTS AND SCIENCES GRADUATE INFORMATION

Note: The following paragraph titles reflect information pertinent to graduate as well as undergraduate students. The information listed below immediately precedes this graduate section.

- Student Rights and Responsibilities
- Revision of Financial Aid Awards
- Crime Reporting
- Emergency Student Loan Funds
- Policy on Refunds
- Official Withdrawal
- Returning Students
- Repayment Policy
- Other Fees
- Temporary Absence
- Application Procedure
- Deadlines
- Appeal Process
- Information and Assistance

Graduate Assistantships

These are available to graduate students in some graduate programs. Applications may be obtained from the chair or director of the program in which the student plans to enroll.

Unsubsidized Federal Direct Student Loan

This long-term loan is available from the Department of Education. The interest rate on this loan is fixed at 6.8 percent for loans disbursed after July 1, 2012. The terms and conditions of the Federal Direct Unsubsidized Loan require that the borrower be responsible for the interest that accrues during deferment periods (including time in school) and during the six-month grace period. The student's options in handling the interest of the loan are: (1) Pay the interest and the principal; (2) Pay the interest quarterly and defer the principal; (3) Defer the interest and principal until the student goes into repayment (interest will accrue and be capitalized to the loan when the student enters repayment). Eligible graduate or professional students may borrow up to \$20,500 per academic year.

Federal Grad PLUS Loan

Graduate students are eligible to borrow from the Grad PLUS (PLUS loan for Graduate Students) Loan Program. Students can borrow up to the cost of attendance minus other financial aid. It is recommended that students maximize their Direct Loan eligibility before borrowing from the Grad PLUS. The interest rate on this loan is fixed at 7.9 percent for loans disbursed after July 1, 2012. Visit our website at www.redlands.edu/dgrad-plus.asp for more information.

Satisfactory Academic Progress

The University of Redlands defines satisfactory academic progress on the basis of the number of credits and approved degree requirements satisfactorily completed, as well as the student's cumulative grade point average (GPA). To receive financial aid at the University of Redlands and maintain satisfactory academic progress, graduate students must meet the following minimum requirements based on a twelve-month calendar year:

Minimum requirements for full-time status: Each student is required to complete a minimum of 6 academic credits per semester with a 3.0 GPA. Classes that a student received an Incomplete for will not be counted toward the number of credits completed until the grade has been posted.

College of Arts and Sciences Tuition and Fees

The following schedules list the principal expenses and regulations concerning the payment of fees for the 2012-2013 academic year (Fall and Spring semesters and May Term session). Fees and course offerings for summer programs are covered in separate publications. (For all matters not covered specifically in other publications, this *Catalog* will apply.) **Expenses are subject to change.** When such changes are made, notice will be given as far in advance as possible.

Fees for the 2013-2014 academic year will be published during summer 2013.

DEFINITIONS

Undergraduate

Full Year is defined as Fall/Spring/May Term, or Fall/Spring and includes 24-38 academic credits.

Half Year is defined as Fall only, Fall/May Term, Spring/May Term, or Spring only and includes 12-19 academic credits.

Full-time degree-seeking students are charged full tuition for 9 or more credits in any single semester.

Part-time tuition is charged for 1-8 credits per semester.

Graduate

Graduate program tuition is charged on a per-credit basis.

Full Year is defined as Fall/Spring/May Term, or Fall/Spring.

Half Year is defined as Fall only, Fall/May Term, Spring/May Term, or Spring only.

Graduate Assistantships

Graduate assistantships are available. Contact the appropriate department for application and awards information.

TUITION, FEES AND EXPENSES

Numbers in columns indicate dollar amounts.

Undergraduate Tuition

Full Year	\$39,038
Half Year.	19,519
May Term only, per credit	1,220

Special Status Undergraduate

Part-time tuition, per credit	\$1,220
Individualized Study, per credit.	1,220

Undergraduate Auditing, per credit

Degree candidates	\$1,220
Non-degree students	225
High school students	120

There is no charge for auditing by full-time undergraduate students within full-year (38 credits) or half-year (19 credits) limits. However, if auditing a course takes the total number of credits beyond the stated limit, the excess credit fee will apply. Full-time students may not audit applied music courses.

Graduate Tuition

Music and Communicative Disorders

Per credit	\$848
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Graduate Individualized Study

Per credit	\$848
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Graduate Auditing, per credit

Degree candidates	\$848
Non-degree students	225

MS in Geographic Information Systems

Per program	\$41,385
Per credit	914
Project Extension Fee.	914

If a candidate is unable to complete the Major Individual Project (MIP) within one term following the last term of the program, this fee will be charged for each term required to complete the MIP.

College of Arts and Sciences Tuition and Fees

Room and Board

All students living on campus, including those living in Brockton Apartments and organizational houses owned by the University, are required to have a meal plan. Room and board pricing includes the meal plan. Meal plan options are: basic, standard, premium, and premium plus. These are declining balance dollar (DCB) plans.

Room and Board Fees**Rate Schedule: per academic year 2012-2013**

Meal Plan Fees:	Basic ¹	Standard ²	Premium	Premium Plus	Apartments/Houses ³	Commuter
Annual DCB's	\$ 3,000	\$ 3,200	\$ 3,600	\$ 4,000	\$ 2,200	\$ 1,700
Room type: Annual rate:						
Double room	\$11,724	\$11,924	\$12,324	\$12,724	N/A	N/A
Triple room	10,566	10,766	11,166	11,566	N/A	N/A
Quad room	9,494	9,694	10,094	10,494	N/A	N/A
Single - large room	15,326	15,526	15,926	16,326	N/A	N/A
Single - small room	13,470	13,670	14,070	14,470	N/A	N/A
Brockton Apartments	13,470	13,670	14,070	14,470	12,670	N/A
Houses	11,724	11,924	12,324	12,724	10,924	N/A
Off Campus ⁴	\$ 3,000	3,200	3,600	4,000	2,200	1,700

¹ Minimum plan for students living in residence halls

² Minimum plan for freshmen living in residence halls

³ Minimum plan for students living in apartments and houses

⁴ Meal Plan only

Graduate MS GIS Central Apartment**Monthly Rent Rates**

Double-Large	\$ 803
Double-Small	749
Family-Large	1,420
Family-Small	1,323
Single-Large	1,114
Single-Small	1,059

Room and Board Contract Cancellation

Continuing students may cancel acceptance of room and board contracts without penalty if written notification is received in the Office of Student Life by August 1. After that date, the penalty is charged to continuing students who do not honor a signed room and board contract.

Late cancellation fee—room and board contract. \$200

College of Arts and Sciences Tuition and Fees

Other Special Costs

Cross-registration with the Schools of Business and Education

Full-time, upper-division Arts and Sciences students may cross-register for School of Business or School of Education courses with the permission of their academic advisors. Students may register for one School of Business or School of Education course per term provided it does not duplicate an Arts and Sciences offering. No more than 12 credits taken at the School of Business and the School of Education can be applied toward a baccalaureate degree. School of Education or School of Business add requests must be signed by the student's advisor and the Registrar. Credits taken at either the School of Business or the School of Education are considered part of the regular academic load and are subject to the Arts and Sciences excess credit fee. Part-time, degree-seeking students follow the same procedures and policies as stated above for full-time students. Part-time, non-degree students are charged the School of Business or School of Education credit fee.

Supplemental Accident and Sickness Insurance

This insurance is mandatory for international students, optional for domestic students. Per year \$1,085

Admissions Deposit \$350

Each Arts and Sciences student admitted to the University must pay a \$350 admissions deposit. For students who enroll, the deposit is credited toward the student's entering semester tuition. For students who do not enroll, the admissions deposit is not refundable.

Application Fee (not refundable)

Used to cover the cost of processing admissions applications.

Computerized. \$35
Non-computerized 45

Associated Students Fee

Collected by the University to support ASUR and its sponsorship of various activities.

Regular student, per year. \$300
Part-time undergraduate, per year. 100
Special Status undergraduate, per year . 100
Full-time graduate, per semester 74
Part-time graduate, per semester 54
MS GIS graduate, per semester. 54
Visiting student for May Term 56
International Off-Campus Programs,
per semester. 46
Salzburg semester 150

Replacement Diploma Fee \$50

Examination for Credit

in Lieu of Class work, per credit . . . \$295

Available only to full-time students who have not previously audited or attended the course.

Excess Credits Fee, per credit. \$1,220

Field Trips

Actual cost per student.

Late Check-in Fee

Checking in after the deadline \$100

Late Change of Program

Processing Fee

During the semester \$40

After close of semester 90

If granted permission by the Academic Review Board to change program after normal add or drop deadline.

Late Payment Fee, per occurrence . . . \$250

For bills not paid by the payment due date of each semester.

Late Immunization Fee \$250

For immunization documents turned in after the approved deadline.

Matriculation Fee (not refundable) \$150

Encompasses costs incurred by the University for maintenance of students' permanent records.

Reader's Fee, per course. \$385

Assessed to students who make up "incomplete" work after the deadline and after leaving the institution. Approval to complete such work must be secured from the Registrar's office.

Replacement ID Fee	\$10
Salzburg Visa Application Fee	\$150
For the issuance of a National D Visa which is required for students studying in Salzburg.	
Thesis Fee—Graduate Program	\$50
Transcripts of Records, each copy	\$5
Johnston Center Transcript, each copy	\$8

Music Fees

Unless stated otherwise, these are charged in addition to tuition and apply to all students. Music fees are not refundable after the second week of classes.

Private Lessons*, per credit \$240

Class Lessons, per class:

Full-time students no extra cost

Part-time and non-degree

students no extra cost

**Music majors are eligible for a waiver of this fee if they meet specific criteria. All students who register for a major conducted ensemble are eligible for a reduced fee. See "Waiver or Reduction of Private Lesson Fees" below. Appropriate conducted ensembles are: MUSI 111 University Choir, MUSI 112 Chapel Singers, MUSI 114 Mardrigal Singers, MUSI 138-02 Concert Band, MUSI 131 University of Redlands Symphony Orchestra, and MUSI 138 Wind Ensemble.*

Waiver or Reduction of Private Lesson Fees

Students required by their program curriculum to register for private lessons will have private lesson fees waived for the minimum number of credits required in their respective majors, regardless of the distribution of these credits among various instruments or in voice. Credits for private instruction earned at other universities will be counted in determining this minimum number. Students will be charged the private lesson fee for any instruction beyond the minimum number of credits. Music majors in the bachelor of arts program may waive a maximum of 8 credits of private lesson fees.

To qualify for waiver of private lesson fees, students must meet all of the following requirements:

- Be registered full-time;
- Be registered for or have completed MUS 10, 101, 102, 103, 104, 105, 106, 107, 108 (MUS 103, 104, 107, and 108 are not required for bachelor of arts majors);

- Be declared and approved as a music major;
- Be advised by a member of the music faculty; and
- Be registered for a course of study that will permit graduation within nine semesters. Semesters of eligibility for transfer students will be pro-rated.

Full-time students who concurrently enroll for credit in, and successfully complete, MUSI 111, 112, 113, 114, 130, 131, 136, or 138 are eligible for a special private lesson fee of \$75 per credit; the minimum enrollment fee per semester is 1 credit.

Methods of Payment

All charges must be paid in full or application must be made to the University's approved tuition installment plan (TuitionPay)* prior to the tuition due date. All remittances should be made payable to the University of Redlands.

Students with past due balance on their University account are subject to dismissal from the University. The University will not release transcripts or a diploma until the past due balance is paid in full.

Students will not be permitted to pre-register for the next term until the past due balance is paid in full.

If the University is required to use third-party collections (i.e., collection agency or attorney) to collect the student account balance due, any future registration may require payment in advance.

For information regarding student and parent loan programs, please refer to the appropriate category in the Financial Aid section of this *Catalog*.

**For information regarding the tuition installment plan (TuitionPay), please contact the Student Accounts office.*

Policy on Refunds

Refund policies at the University of Redlands are established in compliance with the 2008 amendments to the Higher Education Act of 1965. The University has adopted the federal refund policy guidelines as its institutional policy. Refund policies are subject to change at any time, according to federal and state regulations. When such changes are made, notice will be given as far in advance as

College of Arts and Sciences Tuition and Fees

possible. To obtain a refund, please contact the Student Accounts office.

Refunds are determined from the date of **official** withdrawal or approved leave of absence. Students who withdraw unofficially or at the request of the University are not entitled to refunds for the current semester.

Students receiving federal Title IV financial aid funding may be eligible for a refund according to the federal refund guidelines. Federal regulations stipulate the allocation of refunds representing federal aid and repayment requirements for students receiving cash disbursements of federal aid.

Official Withdrawal

A withdrawal is considered official for all students when written notice has been provided to the Office of Student Life. Written withdrawal or leave of absence notification is required to state the intention of the student to discontinue the course(s) in which he or she is registered and their last date of attendance. The withdrawal will be considered effective as of the date the student gives official notification of intent to withdraw. If a student fails to withdraw officially, the applicable date will become the mid-point of the term, unless the University can document a later date. In certain circumstances, if a later date of last academic activity is substantiated, this date can be used in lieu of the mid-point of the term.

Returning Students

Students re-enrolling after withdrawal from the University will be charged current rates and fees based on the start date of new registration.

Allocation of Federal Portion of Refunds

If a refund is available under federally mandated refund policy guidelines, students will not receive refunds until all funds representing financial aid awards have been returned to the respective financial aid programs as required by federal regulations. The federal portion of the refund will be allocated in the following order:

1. Federal Direct Student Loan
2. Federal Perkins Loan

3. Federal Direct PLUS Loan (includes Grad Direct PLUS)
4. Federal Pell Grant
5. Academic Competitiveness Grant (ACG)
6. National Smart Grant
7. Federal SEOG
8. Federal Teach Grant
9. Other Title IV Assistance

Repayment Policy

Some students receive financial aid beyond the cost of tuition and fees. In those cases, a student may have requested and received a credit balance refund from their student account. If a student withdraws completely or is disqualified, the student will be expected to repay the calculated refund using the federally mandated refund policy guidelines. Failure to repay funds could cause suspension from future participation in any federal financial aid programs.

Other Fees

Refunds of other fees will be made according to applicable University policies.

Temporary Absence

No refunds will be made for students who remain away for part of a semester without officially completing the withdrawal or leave of absence process. No refunds will be made in cases of disciplinary action, which includes suspension or expulsion.

Graduation Requirements

UNDERGRADUATE PROGRAMS

Catalog Requirement

Undergraduate students must complete the graduation requirements as stated in the catalog in effect for the year of formal admission, or the catalog in effect for the year of graduation. A student is not free to select graduation requirements from more than one catalog. If a student is re-admitted, the requirements prevailing at the time of readmission or graduation must be met.

Quantity and Quality of Work

To graduate, students must complete all of the requirements of their degree programs and earn at least 128 credits of academic credit.

Students must maintain a grade point average (GPA) of 2.00 or better in all work taken at the University of Redlands. In addition, they must maintain a GPA of 2.00 or better in their major field and in their minor or related field. Quality grade points (derived from numeric grading) are not awarded for transfer work or courses taken on a Credit/No Credit basis, and credits for these courses are not calculated in the GPA.

Activity Credit

College of Arts and Sciences undergraduates may apply up to 8 activity credits distributed between Community Service Activity (limit of 3 credits), Physical Education Activity (limit of 4 credits), and University Activity. (Community Service Activity is described later in this section. Physical Education Activities are described in the Physical Education section; University Activity is described in the Additional Course Offerings section.)

Residence

The minimum residence requirement for the bachelor's degree is one year, during which no fewer than 32 credits must be completed successfully. The last two semesters before graduation must be taken in residence at Redlands except for students studying in approved off-campus programs such as the Salzburg Semester or for students following approved professional programs, in which case the final undergraduate year is completed at a professional school.

First-year Seminar

First-year Seminars are 4-credit courses that begin in New Student Week and continue through the entire Fall semester. All new students entering the University are required to take a First-year Seminar during their first term at Redlands. First-year Seminars provide every student with a close personal relationship with a faculty member who not only teaches the course but also serves as academic advisor and mentor to class members, introducing them to college-level skills as well as assisting them in planning their academic program. Students select from a list of seminars that changes each year. Most seminars are interdisciplinary in focus, and students are encouraged to select seminars according to interest, regardless of their possible majors. Past seminar offerings have included topics such as popular culture in China and Japan, Amazing India, human rights, the rise of American capitalism, Shakespeare and film, and history of jazz.

Community Service Activity (CSAC)

All students are required to successfully complete an approved community service learning activity. Activities typically consist of service outreach at a nonprofit agency, hospital, or school. Students gain a greater understanding of problems faced by individuals and communities through meaningful participation in, and reflection on, efforts to help address such challenges.

Students may undertake their required community service activity during any semester, May Term, or summer; may do so while in residence at Redlands or at approved locations outside Redlands (e.g., one's hometown); may fulfill the requirement through faculty-taught courses that emphasize active learning through service (generally, permission to enroll is required), through CSAC 360 special topics courses, or through courses cross-listed with Community Service Learning. Students should check in the Schedule of Classes for available opportunities.

Students completing the CSAC requirement should be alert to the program announcements

Graduation Requirements

published by the Office of Community Service Learning each semester. May Term CSAC information sessions are offered during the Spring semester. All CSAC preparatory information is discussed at these sessions, along with information regarding faculty-taught, service-learning courses. Students fulfilling CSAC during summer should be aware that preparatory work must be completed during Spring semester or May Term prior to a summer CSAC placement. Registration for those completing service over the summer takes place the following Fall. Students are encouraged to visit the Office of Community Service Learning for details and service opportunities.

Application for Graduation

Students must file a formal application for graduation in the Registrar's office by the first semester of their senior year.

Comprehensive Exams

Some major programs require passing a comprehensive examination. (See individual program descriptions.) These exams are usually scheduled during the first semester of the senior year.

THE LIBERAL ARTS FOUNDATION

The Liberal Arts Foundation endows students with the fundamental skills essential to effective learning and scholarship. It also challenges them to examine their own values and the values of society. By integrating the Foundation with an area of concentration and carefully chosen elective courses, students obtain an education that offers both breadth of learning and depth of understanding.

Every student working for a bachelor of arts or bachelor of science degree is required to successfully complete, in each of the categories listed below, at least one approved course of at least 3 credits. In some categories, pairings of two 2-credit courses have been approved. If a course is approved for more than one Liberal Arts Foundation category, it will satisfy each of those requirements simultaneously.

The designation "ID" indicates a category that may be satisfied by the completion of an interdisciplinary thematic course, taught by

one or more faculty members, which has been approved for that category by the College of Arts and Sciences Curriculum Committee.

Courses taken to fulfill the Liberal Arts Foundation must be taken for a numeric grade or evaluation, except in those instances where a course is offered only on a Credit/No Credit (CN) basis.

A student who transfers to Redlands may apply acceptable courses taken at any regionally accredited institution toward all Liberal Arts Foundation requirements.

The specific requirements for the B.A. and B.S. degrees are found below. For Foundation requirements applying to the B.M., please see the Music section in this *Catalog*.

Creative Process (CP)

Creative exploration of an expressive medium requires the mastery of both practical and theoretical skills, while stimulating imaginative reflection and problem solving. Students completing the CP requirement will demonstrate:

- understanding of the appropriate use of the tools and techniques specific to a creative medium;
- an ability to participate in perceptive, responsible critique with their peers;
- a sustained engagement with the conceptual, aesthetic, and technical challenges of performing or creating art.

Cross-cultural Studies (CC)

Knowledge of different cultures plays a vital role in developing a broader perspective on the world and encouraging a deepened understanding of one's own cultural experience. One can gain insight into a culture through the study of topics including, but not limited to, politics, literature, art, history, and/or religion. Students completing an approved study-abroad program or a course fulfilling the CC requirement will demonstrate:

- knowledge of the culture of another country or people;
- the ability to make critical comparisons between two or more cultures;
- an awareness of how culture is instrumental in shaping one's world view.

Dominance and Difference (DD)

In order to challenge assumptions and stereotypes in the contemporary world, and to understand the experience of those who have historically lacked power, it is necessary to engage critically with dominant structures of inequality. These include but are not limited to discriminatory attitudes based on gender, race or ethnicity, class, religion, sexual orientation and physical ability. Students completing the DD will demonstrate:

- a capacity to articulate concepts such as prejudice, stereotyping, objectification and oppression, and to analyze their manifestations in institutional and interpersonal settings;
- skills in understanding the ways in which difference, inequality and marginalization have been socially constructed, either in the United States or elsewhere;
- an ability to reflect on issues of identity, difference and opposition to structures of dominance, in a manner that encourages recognition of a plurality of values.

Foreign Language (FL)

A language expresses in speech and writing the thoughts and emotions of the individuals within a certain culture; it illuminates the cultural tradition and perspective and transmits them to others. Students completing* the FL will, as a minimum, demonstrate:

- an ability to analyze the structure of a foreign language;
- an ability to employ all the skills appropriate for basic communication in a foreign language such as reading, writing, listening, and speaking;
- an increased awareness of the language's cultural context(s).

* Fulfillment of the category is attained by taking a two-course sequence at the 100-200 level, or one course at the 300 level or higher, for the B.A.; or one course at the 102 level or higher for the B.S.

Human Behavior (HB)

Social scientific inquiry informs understanding of social phenomena and provides

a context for human judgment. Students completing the HB will demonstrate:

- comprehension of the basic concepts, theories, and methods that advance our understanding of human behavior (at the individual and societal levels);
- understanding of what constitutes data and how to draw valid conclusions about human action from such data;
- an ability to evaluate the implications of such study for issues of social concern.

Humanities

Students earning a B.A. degree fulfill this category by completing one appropriately designated course from each of the three areas (history, literature, and philosophy).

Students earning a B.S. degree may choose one course each from two of the three categories.

Humanities History (HH) A reflective understanding of the world is enriched by awareness of historical processes and experiences that have shaped the political, social, cultural and economic foundations of societies over time. Students completing the HH will demonstrate:

- familiarity with historical inquiry and interpretation, including the analysis of primary sources;
- an ability to articulate and understand patterns of continuity and change in the domains of human endeavor within and across societies and over time;
- the capacity to reflect on the nature of historical narrative and perspectives using one or more different historical or theoretical models.

Humanities Literature (HL) Engagement with literary texts—poetry, drama, scripture, fiction, non-fiction, and film—helps to develop rhetorical skills, a sensitivity to language and its uses, and an awareness of literature's potential to transform one's ideas, perceptions, and beliefs. Students completing the HL will demonstrate:

- skills in the analysis of literary forms and conventions;

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- the capacity to build effective arguments and defend a critical position both orally and in writing;
- the ability to situate texts within shifting historical or ideological contexts.

Humanities Philosophy (HP) Philosophical reflection and investigations of religious thought and practice pose fundamental questions about the nature of reality, the possibility of knowledge, and the meaning of life. Students completing the HP requirement will demonstrate:

- an ability to investigate and analyze the assumptions underlying systems of inquiry and belief;
- skills in understanding and investigating philosophical or religious concepts;
- a capacity to think critically about their own world views as well as those of others.

Mathematics and Science (MS)

Mathematics and the natural sciences extend our knowledge of the physical universe and are the foundation of technologies that affect nearly every aspect of our society. As a result, an understanding of these disciplines is important to individuals' ability to make informed decisions about issues affecting themselves, their community, and the world at large.

MS 1

Natural science courses give students understanding of the range and limitations of scientific knowledge. They emphasize the central role of observation and experimentation in the scientific method. Students completing an MS1 will demonstrate:

- knowledge of the basic concepts and accepted theoretical principles in a particular scientific discipline;
- knowledge of how a particular scientific discipline advances understanding of the physical world through its application of the scientific method;
- the ability to apply the scientific method through the acquisition and analysis of data within a laboratory or field setting.

MS 2

Mathematics is an integral component of fields ranging from the natural sciences to economics and from politics to personal health. Fluency in the mathematical methods that inform these disciplines provides deeper insights into today's world as well as providing an appreciation for the power and beauty of mathematical reasoning. Students completing the MS2 requirement will demonstrate:

- an ability to construct and analyze mathematical models and to solve problems using mathematical tools;
- familiarity with mathematical reasoning, including mathematical logic, proof, and generalization;
- an understanding of mathematical concepts as evidenced by an ability to communicate those concepts to others.

MS 3

Disciplines in mathematics and science span a vast array of human endeavors ranging from atoms to galaxies and from computer languages to genetic codes. An additional course in these fields provides a broader perspective on their approaches and cumulative knowledge base for navigating our technology-dependent and data-rich society. Students completing a course fulfilling the MS3, or a second course fulfilling an MS1 or MS2, will demonstrate:

- knowledge of the basic concepts and accepted theoretical principles in some field or fields of science, mathematics or computer science;
- the ability to solve problems in some science, mathematics, or computer science discipline;
- knowledge of how science, mathematics, or computer science directly affects our technology, our lives, or our understanding of the world.

State and Economy (SE)

Responsible citizenship requires an ability to understand and analyze the political and economic institutions in which one

participates. Students completing the SE requirement will demonstrate:

- knowledge of the theoretical principles and actual practices defining economic and political institutions;
- familiarity with the language and methods used in critical engagement with these institutions;
- an ability to apply political or economic theory to the complexities of citizenship.

Writing Across the Curriculum (WA, WB)

Writing is both a powerful learning tool and an important means for expressing thought. Students will advance their competence in written reasoning and communication by completing at least two writing-intensive courses: 1) one lower-division, writing-intensive course as per placement explained below (WA) and 2) an upper-division, writing-intensive course in the junior or senior year that concentrates on forms of writing appropriate to the major (WB).

Students completing the WA will demonstrate:

- the ability to write critical essays that develop reasoned positions;
- the ability to respond to and incorporate the work of other writers into their essays, using proper source citation and avoiding plagiarism.

Students completing the WB will demonstrate:

- the ability to write thoughtfully in the genre appropriate to a specific discipline;
- an awareness of conventions for written reasoning and communication within a specific discipline;
- the ability to revise their critical writing so as to communicate effectively with a specific disciplinary audience.

Lower-Division Writing Requirement:

For purposes of the lower-division (WA) writing requirement, entering first-year students will be placed in accordance with the following:

1. Students who have received the score of 4 or 5 on the test for Advanced Placement in English language/composition have satisfied the lower-division (WA) writing requirement.
2. Students who have received the score of 3 on the test for Advanced Placement in English language/composition and who have scored below 580 on either the SAT Verbal or SAT Writing tests, or below 26 on either the ACT English or ACT Writing tests, will be placed in English 101, a 1-credit tutorial in writing to complete their lower-division writing requirement.
3. Students who score 530 or above on both the SAT Verbal and SAT Writing tests, or who score 23 or above on both the ACT English and ACT Writing tests satisfy their lower-division writing requirement by taking any class labeled WA in the current schedule of classes.
4. Students who score below 530 on either the SAT Verbal or the SAT Writing tests, or below 23 on either the ACT English or the ACT Writing tests, and who don't fall into category #5, immediately below, must complete English 102, Critical Thinking and Writing. They must also complete an additional 3- or 4-unit class labeled WA in the current schedule of classes. Finally, they must pass the Writing Proficiency exam in order to complete their lower-division writing requirement.
5. Students who score below 470 on either the SAT Verbal or SAT Writing tests, or below 18 on either the ACT English or ACT Writing tests, must complete English 100, Expository Writing, followed by English 102, Critical Thinking and Writing. Finally, they must pass the Writing Proficiency exam to complete their lower-division writing requirement.

The Writing Proficiency Exam:

The Writing Proficiency Exam is given as a final exam in English 101, 102, and 301. Any student placed into any of these courses must pass the Writing Proficiency Exam before graduation. Students may also take this exam to challenge their placement in English

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101, 102, or 301. If they take the Writing Proficiency Exam to challenge their placement, and they pass that exam, they are not required to complete English 101, 102, or 301. The exam does not affect any other course requirements.

Upper-Division Writing Requirement:

All students complete the upper-division (WB) writing requirement by completing a course labeled WB in the current schedule of classes, concentrating on forms of writing appropriate to the major in which it is offered, after attaining junior standing.

Writing Across the Curriculum (WA, WB) for Entering Transfer Students

For purposes of the lower-division (WA) writing requirement, **entering transfer students** will be placed in accordance with the following:

- Students who have transfer credit in English composition and who score 530 or above on both the SAT Verbal and SAT Writing tests, or who score 23 or above on both the ACT English and ACT Writing tests, have satisfied the lower-division (WA) writing requirement.
- Students who have transfer credit in English composition and whose SAT Verbal or Writing scores are below 530, or whose ACT English or Writing scores are below 23, must complete their lower-division writing requirement by taking English 101/301, a one-unit tutorial in writing.
- Transfer students who do not have transfer credit in English composition will be placed as though they were entering first-year students, with a single exception: transfer students with sophomore standing or above, whose scores place them in category #4, above, fulfill their lower-division writing requirement by completing English 102, Critical Thinking and Writing, and by passing the Writing Proficiency exam.

The Writing Proficiency Exam: The Writing Proficiency Exam is given as a final exam in English 101, 102, and 301. Any student placed into any of these courses must pass the

Writing Proficiency Exam before graduation. Students may also take this exam to challenge their placement in English 101, 102, or 301. If they take the Writing Proficiency Exam to challenge their placement, and they pass that exam, they are not required to complete English 101, 102, or 301. The exam does not affect any other course requirements.

Upper-Division Writing Requirement:

All students complete the upper-division (WB) writing requirement by completing a course labeled WB in the current schedule of classes, concentrating on forms of writing appropriate to the major in which it is offered, after attaining junior standing.

MAJOR REQUIREMENTS

Students must successfully complete a major (or an emphasis in the case of Johnston students) for all undergraduate degrees. A minor is not required, except for certain majors.

Declaration of a Major

Students must declare their major before registration for the junior year. Forms and instructions are available in the Registrar's office and online. Before declaring a major, students should discuss their proposed course of study with the chair or director of the program. Students are encouraged to explore several fields during their freshman and sophomore years.

Forms and instructions for changes in major and declaration of a second major are available in the Registrar's office and in academic departments. This action should follow consultation with, and formal approval by, the chair of the new major department.

Multiple Majors and Minors

A student may have multiple majors and minors as long as the following minimums and conditions are met:

1. The student must designate 28 credits from the required courses for each major as base credits for the major.
2. Any credits designated as base credits within a major may not be designated as base credits within another major, nor may

the base credits count toward a departmental minor. Double counting on non-base credits is unrestricted. Departments and programs may place further restrictions on major and minor requirements within their jurisdiction.

Students with multiple majors will designate a first/primary major and follow the degree requirements of that major's degree (see list of degrees/majors below). One or more additional majors may be selected, whether in the same degree or not. Specific requirements for each additional major(s) must be met. Students who wish to obtain a double degree (e.g., a B.A. in English and a B.S. in Chemistry) are referred to the *Requirements for a Second Bachelor's Degree* found below in this section of the *Catalog*.

Major Requirement Options

Students at Redlands are given the choice of pursuing a traditional course of study leading to either one or a combination of the degrees bachelor of arts, bachelor of science, or bachelor of music, or of electing to design their own course of study leading to the B.A. or B.S. degree through the Johnston Center for Integrative Studies. For detailed information about the Johnston Center option, consult the appropriate section of this *Catalog*.

Bachelor of Arts

Students must select a major field of study from the following approved areas:

- Art
- Asian Studies
- Biology
- Communicative Disorders
- Creative Writing
- Economics
- English: Writing and Literature
- Environmental Business
- Environmental Studies
- French
- German
- Government
- History
- International Relations
- Latin American Studies
- Liberal Studies
- Managerial Studies

- Music
- Philosophy
- Physics
- Psychology
- Race and Ethnic Studies
- Religious Studies
- Sociology and Anthropology
- Spanish
- Theatre
- Visual & Media Studies
- Women's and Gender Studies

The major program consists of 28 to 44 credits as specified by the individual departments or programs. **No course for the major may be taken for Credit/No Credit (CN)** except in instances where a course is offered only on that basis.

Bachelor of Science

Students may select a major field from the following areas:

- Accounting
- Biochemistry and Molecular Biology
(Double Major in Biology & Chemistry)
- Biology
- Business Administration
- Chemistry
- Economics
- Environmental Policy and Management
- Environmental Science
- Financial Economics
- Global Business
- Mathematics
- Physics

The major program consists of 32 to 50 credits, as specified by the individual departments. In addition, **one** of the two following requirements must be met:

1. The student must complete 16 to 32 credits in a related field outside the major department. The related field is intended to provide support for gaining competence in the major. Courses are specified by the major department; or
2. The student must complete a minor of 22 to 32 credits in a single program. The minor is intended to encourage the development of competence in a second field of study. None of the credits in the minor

Graduation Requirements

program may be specified by a student's major. The minor is to be developed by the student with the approval of the advisor and is subject to the guidelines set forth by the department in which the minor is taken. A second major may be taken in lieu of a minor.

Not all programs leading to the B.S. degree offer both the related field and the minor routes for satisfying the degree. Students should check the requirements of their particular department. **No course for the major may be taken for Credit/No Credit (CN)** except in instances where the course is offered only on that basis.

Bachelor of Music

Students may select a major field from the following areas:

- Composition
- Music Education
- Performance (Applied Music)

The requirements for the Bachelor of Music degree are listed under School of Music in this *Catalog*. **No course for the major may be taken for Credit/No credit (CN)** except in instances where a course is offered only on that basis.

Interdisciplinary Major

A major in an interdisciplinary program, such as Liberal Studies, Environmental Studies, International Relations, or Asian Studies consists of 48 to 72 credits as listed in this *Catalog*. Of these credits, no more than 24 may be taken in any one department or discipline.

Requirements for a Second Bachelor's Degree

The University will grant a baccalaureate degree to a student who already possesses a bachelor's degree earned at Redlands or another regionally accredited college or university if that student passes no fewer than 32 additional credits in a new major while in residence at the University and meets all general and major graduation requirements in effect at the time of residence.

MINOR REQUIREMENTS

Declaration of a Minor

Although a minor is not required for graduation, students who choose to pursue a minor program of study must declare their minor before registration for the junior year. Forms and instructions are available in the Registrar's office and in academic departments. Before declaring a minor, students should discuss their proposed course of study with the chair or director of the program.

The minor program consists of 22 to 32 credits in a single program and is intended to encourage the development of competence in a second field of study. The course of study must be approved by the department chair and is subject to the guidelines set forth by the program in which the minor is taken. **No course for the minor may be taken for Credit/No Credit (CN)** except in instances where a course is offered only on that basis.

Please note the rules for double majors and minors in the section titled "Multiple Majors and Minors."

Interdisciplinary Minor

Students may construct an interdisciplinary minor under the aegis of an existing department or program. This minor must satisfy the following conditions:

1. It must meet University-wide standards as published in this *Catalog*;
2. It must be designed in conjunction with a faculty advisor; and
3. A committee of faculty representatives from all disciplines involved must be convened to approve the student's proposal.

GRADUATE PROGRAMS

Requirements vary among graduate programs. Students should consult the appropriate departmental listing in this *Catalog* for specific requirements. However, the following regulations pertain to graduate students in all programs at the University of Redlands.

Credit Obsolescence

No course that has been completed more than six years before the date of graduation shall be counted toward a University of Redlands graduate degree.

Thesis

For students admitted to candidacy programs that require a thesis or project, an advisory committee is appointed as soon as possible during the course of study, but in no case later than the beginning of the student's last semester of graduate work. The chair of the committee will usually be selected from the department of specialization, and he or she is responsible for reviewing the candidate's program to ensure that all departmental or divisional requirements have been met. The chair serves as the primary advisor for work on the thesis, but the candidate is expected to consult regularly with other members of the committee while such work is in progress.

Thesis Guidelines

1. The candidate must submit a thesis topic proposal to the appropriate program director, department chair, or committee. The proposal must be approved before the student undertakes further work on the thesis. Topics must be limited to areas in which research material is available and in which faculty members feel qualified to direct research.
2. Candidates must register for the number of thesis credits required by the program (courses numbered 699).
3. The format of the thesis (usually taken from the handbooks developed by the American Psychological Association, Turabian, or Campbell) must be approved by the candidate's committee.
4. Candidates must consult with all members of the committee as the thesis progresses, and suggested revisions must be incorporated before the final draft of the thesis is prepared. It is the responsibility of the candidate—and not the candidate's committee—to proofread the text carefully and to correct all errors in spelling, punctuation, or grammar.
5. The final version of the thesis must be submitted to all members of the examining committee no later than one week preceding the date of the examination.
6. Any additional revisions or corrections to the final version of the thesis, as specified by the examining committee, must be completed before the degree will be awarded.

Oral Examinations

Some programs require a candidate to pass an oral examination in his or her major field of study before receiving the master's degree. The examination is administered by a committee approved by the program director or department chair. Such an examination generally centers on the thesis or project completed by the candidate, but may critically examine all phases of the candidate's work. The examination is scheduled only after payment of the thesis fee (if applicable) and after all members of the candidate's committee have approved its scheduling. The candidate is responsible for paying all necessary fees and ensuring that all committee members have approved the date of the oral examination.

Comprehensive Examinations

Comprehensive examinations, when required by the candidate's program, must be taken at least five weeks prior to completion of the program. Notification of intent to take the comprehensive examination should be made to the program director or department chair early in the semester in which it will be taken. Upon the specific recommendation of a department or program, the comprehensive examination may be waived for students with outstanding academic records.

Minimum Credit and Curriculum Requirements

The minimum number of credits required varies according to the program. See individual department listings for this information.

Awards and Honors

DEAN'S LIST

Each semester, a Dean's List is prepared to honor undergraduate College of Arts and Sciences students who have earned a semester grade point average (GPA) of 3.65 or higher while taking 12 or more credits of work on a numerically graded basis.

GRADUATION WITH HONORS

Undergraduate students whose cumulative academic record demonstrates overall academic excellence will be awarded honors at graduation as follows:

Departmental or Programmatic Honors

A student who satisfactorily completes an honors project or a capstone experience in accordance with established department or program standards, as judged by an honors committee, will be awarded honors upon graduation.

Cum laude

A student whose cumulative GPA is 3.45-3.64 and who completes an honors project in accordance with established department or program standards, as judged by an honors committee, will be awarded cum laude upon graduation. The honors project may serve as a capstone experience with the department's approval.

Magna cum laude

A student whose cumulative GPA is 3.65-3.84 and who completes an honors project in accordance with established department or program standards, as judged by an honors committee, will be awarded magna cum laude upon graduation. The honors project may serve as a capstone experience with the department's approval.

Summa cum laude

A student whose cumulative GPA is 3.85-4.00 and who completes an honors project in accordance with established department or program standards, as judged by an honors committee, will be awarded summa cum laude upon graduation. The honors project may serve as a capstone experience with the department's approval.

Interdisciplinary Honors

College of Arts and Sciences students who are accepted into the Proudian Interdisciplinary Studies Program may choose to work toward honors. They should consult with the program director for requirements.

Phi Beta Kappa

Outstanding College of Arts and Sciences students who have achieved at least a 3.50 cumulative GPA and who have completed a wide distribution of courses of an appropriate level throughout the liberal arts curriculum are considered for election to Phi Beta Kappa, the nation's oldest and most prestigious academic honor society.

Special Awards

Barbara Jean Duncan Hardy Award

Since 1944, the women of Alpha Theta Phi have presented this award to a senior woman who has made outstanding contributions to the University and the community. Selection is based on scholarship, leadership, willingness to serve, personality, and respect for all.

Marcus Forcinelli Award

Given to the student who, through ASUR, has given unselfishly of his or her time and talent.

Global Impact Award

This award honors a student who, in the pursuit of ideals important to him or her, looks beyond the scope of traditional campus life and addresses issues of global concern.

Richard Lane Memorial Award

Given by the men of Chi Sigma Chi fraternity to an outstanding first-year student for contributions to campus life.

Esther Mertins Endowed Scholarship, Anne Simpson Endowed Scholarship, and Susanne Stephenson International Student Scholarship

These awards are designated for international students who have exhibited academic excellence and commitment to their education at the University of Redlands.

Velma Hooper McCall Award

Presented in memory of Velma Hooper, Class of 1930, to a female in the junior class who

demonstrates exemplary academic achievement, is an active and involved member of the campus community, and is held in high regard by her peers and faculty members.

Outstanding Senior Award

An annual award honoring the senior who has made extraordinary contributions to his or her class and the life of the University. Nominations are solicited University-wide for this award.

Raymond H. Whitmus Memorial Award

This award is given to a Yeoman who, throughout the past year, has exemplified the qualities for which Ray Whitmus, Vice President for Student Affairs and Yeoman Advisor from 1973-76, was known. These qualities include leadership, initiative, and strength of character.

Ray Wilson Award

This memorial award is given by the men of Pi Chi to the senior who has best exemplified the spirit of sportsmanship during his or her athletic career at the University of Redlands. The recipient possesses the qualities of honor, loyalty, and sacrifice.

Art Awards

Stipends are given to the most outstanding graduating seniors in studio art.

Business Administration and Accounting Awards

Senior Scholar in Accounting

Eadie and Payne CPA's prize awarded to a senior Accounting major to recognize outstanding academic achievement.

Hunsaker Scholar Award

Given to outstanding Business Administration seniors who complete departmental honors with the Hunsaker Professor of Management.

Senior Scholar in Business Administration

Presented to recognize high academic achievement to a senior Business Administration major.

Outstanding Senior in Business Administration

Provided to an outstanding senior for both outstanding academics and contribution to the community through sports and service.

Schroeder Summer Language Scholarships for Global Business Majors

Awarded by the department to promote academic excellence and the study of foreign language.

COMMUNICATIVE DISORDERS

Crawford Award

Awarded to a second-year graduating clinician, chosen by peers (NSSLHA Members), for outstanding clinical performance during master's degree preparation. The recipient is elected by members of the National Speech-Language Hearing Association (NSSLHA). Recipient's name will be inscribed on a plaque permanently housed in the Truesdail Speech Center as well as a monetary award from the Crawford Award Fund.

Parker Award

This award is given in memory of William R. Parker, a significant figure in the history and development of the clinical training program in Communicative Disorders. This award is given to a second-year graduate student who has shown significant clinical and academic growth over the term of their two-year graduate program.

Outstanding Senior

This award is given to a senior who has demonstrated overall excellence as an undergraduate and has the potential for making a significant contribution to the profession.

Outstanding Graduate Student

This award is given to a second-year graduate student who has demonstrated outstanding clinical and academic achievement. The student has also demonstrated outstanding dedication to their graduate program.

Awards and Honors

CREATIVE WRITING

The Creative Writing Awards

The Academy of American Poets Jean Burden Prize and prizes in fiction and nonfiction are given annually.

EDUCATION

Alpha Delta Kappa, Outstanding Student Teaching Award

Presented annually to an undergraduate and/or post-baccalaureate student pursuing a teacher credential who demonstrates a strong commitment to education and potential to become an outstanding educator. Alpha Delta Kappa is an honorary educational organization which promotes educational and charitable projects, sponsors scholarships, and works toward promoting excellence in the teaching profession.

Iola Threatt Elementary Teaching Award

Presented annually to an undergraduate or post-baccalaureate candidate in a multiple subject teacher credential program who possesses the qualities of creativity, conscientiousness, insight, perception, and commitment to teaching.

Stanley Combs Secondary Teaching Award

Presented annually to an undergraduate or post-baccalaureate candidate in a single subject teacher credential program who best exemplifies the moral and spiritual qualities, poise, humility, and professional attitude characteristic of a good teacher.

ENGLISH: LITERATURE AND WRITING

Eugene Kanjo Prize for Excellence in Literary Studies

Awarded annually to a graduating senior for outstanding work in literary criticism, the Kanjo Prize honors the memory of former professor, Sigma Tau Delta advisor, and department chair Gene Kanjo who taught at the University from 1963 to 1991.

FRENCH

Two-Year Merit Fellowship

Awarded to a French major at the level of junior or senior for study and research abroad in France or a Francophone country, and for preparation and successful defense of an honors thesis.

GOVERNMENT

Colwell Prize

An endowment established by J. M. Colwell for a prize to a student who has demonstrated academic excellence in the area of American politics.

Frederick John Wiley Memorial Award

An award given annually to the student who has demonstrated academic excellence in the area of International Relations.

Robert L. Morlan Awards

Travel and research scholarships are available each year from an endowment that honors the late Professor Robert L. Morlan.

HISTORY

Henry G. Dittmar Award

Presented to an outstanding senior history major.

Social Science Program Award

Presented to an outstanding senior in the Social Science program.

INTERCOLLEGIATE ATHLETICS

Frank Serrao Male and Female Senior Student-Athlete of the Year Awards

Presented to the outstanding male and female senior student-athletes in recognition of excellence in athletic as well as academic endeavors. The awards are sponsored by the Bulldog Bench.

MUSIC

Thelma Beardsley Memorial Award

Awarded annually to a senior music education major who has demonstrated the greatest potential for success in this field.

Graduate Student Service Award

Given to the student who has contributed the most to the music program during his/her two-year residence.

Helen Johnston Memorial Performance Award

Presented to an outstanding junior or sophomore performer in the Sigma Eta chapter of Sigma Alpha Iota, as selected by the music faculty.

Phi Mu Alpha Sinfonia Award

Given to a music major for musical ability, leadership, and service to the School of Music.

Pi Kappa Lambda

Graduate and undergraduate music majors of exceptional accomplishment in both scholarship and performance are eligible for election to membership in Pi Kappa Lambda, the national music honorary society.

Presser Foundation Scholar

The music faculty selects an outstanding junior music major, based on musical promise and academic achievement, to receive a certificate and stipend.

School of Music Performance Award

Awarded to the most outstanding graduating senior and graduate student performers in the School of Music.

School of Music Service Award

Awarded by the music faculty to a senior music major for notable service to the school.

Sigma Alpha Iota College Honor Award

Given for exemplary scholarship, musicianship, and fraternity service to the Sigma Eta chapter.

Sigma Alpha Iota Composer's Award

Presented to the outstanding undergraduate and graduate student composers.

Sigma Alpha Iota Honors Certificate

Awarded to the music major from the University's chapter with the highest cumulative grade point average.

PHI BETA KAPPA**Albert Crum Essay Award**

Presented by the University's chapter of Phi Beta Kappa in honor of the donor, Dr. Albert Crum, Class of 1953, the award recognizes the best essays submitted for the contest each year.

STAUFFER CENTER FOR SCIENCE AND MATHEMATICS**Robert D. Engel Award**

Presented to the outstanding senior biochemistry and molecular biology, biology, chemistry, computer science, or physics major in memory of Professor of Engineering Robert D. Engel. Professor Engel inspired generations of University of Redlands students with his love for teaching, his wit, his smile, and his friendship.

BIOLOGY**Edmund C. Jaeger Award**

Given for exceptional scholarship to a junior male biology student planning a career in teaching or research.

The Brubacher Prize

Given to the student who demonstrates excellence in science, dedication to expanding opportunities for others, service to the community, and an ability to overcome barriers to achievement.

COMPUTER SCIENCE**Lawrence R. Harvill Award**

Presented each year to an outstanding graduating senior computer science major.

MATHEMATICS**Judson Sanderson Award**

Presented to the senior mathematics major who best exemplifies the standards of excellence epitomized by professor emeritus Judson Sanderson in his teaching, his intellect, and his service to the University.

Awards and Honors

Paul Krantz Award

Presented to a senior mathematics major with outstanding potential as a secondary school teacher in memory of Professor Paul Krantz, who inspired generations of University of Redlands students with his style, his wit, and his friendship.

Elementary Mathematics Education Award

Presented to a senior who shows great promise as a teacher of elementary school mathematics.

Johnston Center for Integrative Studies

THE DIRECTOR

Kelly Hankin

THE ASSISTANT DIRECTOR

Denise Davis

THE FACULTY*

Kelly Hankin

Kathy Ogren

Julie Townsend

*The great majority of faculty members active in the Johnston program are based in the departments of the College. A full list is available from the Director.

THE PROGRAM

Aided by a founding grant from James Graham Johnston, in 1969 the University of Redlands established an experimental cluster college designed to combine high-quality education with minimal formality. The new institution attempted to free the educational process from the influences of departmentalism, numerical transcripts, traditional faculty status, and fixed graduation requirements.

As a result of administrative reorganization, in fall 1979 Johnston College became the Johnston Center for Individualized Learning within the College of Arts and Sciences, and in 1995 the name was changed to the Johnston Center for Integrative Studies. It continues to offer alternative modes of teaching and learning within a liberal arts context. Johnston draws its faculty from the entire University and invites the participation of all students.

The program is organized on four principles: that self-direction is a motivating force in learning, that negotiation among those involved in teaching and learning optimizes student ownership of education, that written evaluations are a highly effective means of assessing student performance, and that education can be made more effective by integrating students' living and learning environments. These ideals are made concrete in individual courses by contract, in the graduation contract/review process, and in the integrated administrative, classroom, and living

space of the Johnston Complex (Bekins and Holt Halls), the home of Johnston Center.

Learning outcomes for the Johnston program may be found at: www.redlands.edu/academics/johnston-center-for-integrative-studies/9556.aspx.

Course and Contract Systems

A Johnston Center course involves the following:

1. At the beginning of each course, students and instructor negotiate the course's content, goals, and methodology.
2. Each student writes a course contract outlining the mutual expectations and activities to be completed. Both the student and instructor sign the contract, and it can be changed only by agreement. The contract forms the basis for the course and its evaluation.
3. Students actively participate in all aspects of the academic dialogue—including discussion of reading material, written and oral presentations, and performance or display of projects.
4. At the end of the course, each student writes an evaluation of his or her own performance and that of the instructor, as well as the group process and course organization. This self-evaluation also assists the instructor with his or her final evaluation of the student.
5. The instructor writes an evaluation of the student's work, which appears verbatim in the student's official transcript. A student may obtain a grade translation, but only if requested by a graduate or professional school for admission or by prospective employers.

In addition to identifying specific Johnston courses created at the Center, the *Schedule of Classes* always notes departmental courses of particular interest to Johnston students, courses that are geared to the Johnston educational process. Listing a course as open for negotiation in the schedule of classes means that the faculty member welcomes Johnston students for contract negotiation and is willing to write a narrative evaluation. Johnston students are encouraged to request a written evaluation from all their professors,

Johnston Center for Integrative Studies

although only faculty who agree to course contracts are required to provide one. Johnston courses are available to all University of Redlands students to negotiate for narrative evaluation; similarly, University of Redlands students can negotiate a contract in any College of Arts and Sciences course open for narrative evaluation.

Graduation Contracts

Those students specifically admitted to the Johnston program as first-year students or as internal transfers must negotiate a graduation contract. (See “Admission” below.) Such graduation contracts are written with the help of a faculty advisor and include a narrative autobiographical statement, a list of completed and proposed courses, and a stated area of concentration with an integrative focus. Examples include such possibilities as the history of ideas, humanistic psychology, anthropology and environmental studies, film production and creative writing, and the economics of race and gender.

Each graduation contract entails a unique combination of Johnston and departmental classes, independent studies, and internships reflecting the individuality of the student’s personal and educational goals. The contract is legitimized through negotiation with and review by the Graduation Contract Committee. This Committee consists of a faculty convener, the Johnston registrar, students who already have accepted graduation contracts on file, and faculty members. Although there are no fixed graduation requirements, the Committee reviews the proposed contract to see that:

- the contract addresses the objectives of the College of Arts and Sciences’ Liberal Arts Foundation;
- there is sufficient representative work taken in each of the broad areas of humanities, social sciences, natural sciences, and fine arts;
- there is sufficient depth in the student’s area of concentration;
- the area of concentration is one in which the University of Redlands can provide appropriate faculty resources;

- the student addresses the relevance of this educational experience to his or her past and future;
- the student has included a provision for an in-depth cross-cultural experience. This expectation can be met by participating in one of the international programs offered by the University or by having the student create his or her own independent study involving the experience of being a minority in a majority culture.

Once the Committee approves a contract, the student is obliged to complete it as stated to be awarded the baccalaureate degree (B.A. or B.S.). If a contract must be revised, all changes are made in the form of a written addendum that must be approved by the Graduation Contract Committee and/or the Johnston Center Director. During the student’s last semester, a separate, similarly constituted body—the Graduation Review Committee—reviews the student’s work and, if the terms of the contract have been met, approves the student for graduation.

Johnston Center is a community of students and faculty who share educational ideals. Most students who intend to write or have written a graduation contract choose to live in Bekins or Holt Hall and consider themselves a cohesive unit. Periodic community meetings for business of general interest are traditional, and faculty and students thrive on interaction and mutual respect.

Courses taught in the Center change from year to year and are the product of varying student interests and faculty arrangements with individual departments. Planning for the coming year entails meetings of faculty and students, at which time proposed classes can be negotiated. The result is a collection of courses that spans the disciplines of the liberal arts in both traditional and non-traditional ways and includes lower- and upper-division offerings involving seminars (twelve to twenty students), tutorials (two to five students), and independent studies.

The academic progress of Johnston students is monitored by the Director of the Center. Students who are experiencing academic difficulty are reviewed individually

by the Center Director, who makes decisions regarding academic probation or disqualification. Criteria upon which such decisions are made include the quantity of work completed, the quality of work in both graded and evaluated courses, and the student's demonstrated ability to complete a graduation contract. (See the paragraph entitled Undergraduate Academic Standing—Johnston in the Academic Standards section of this *Catalog* for details on how to appeal the decisions.)

Johnston students must have an approved graduation contract on file in the Registrar's office no later than the end of the sophomore year. Thus, four full semesters are open for further planning and innovation. The student's transcript will consist of an official University cover sheet listing all courses by semester and including grades for those courses taken for grade, a précis written by the advisor, the student's graduation contract (both the narrative and the course listings), and all narrative evaluations. Johnston students have no special difficulty in gaining admittance to graduate or professional schools or employment as a result of this narrative transcript format.

Johnston students are eligible to apply for departmental honors only. A student must complete an honors project or a capstone experience in accordance with established departmental standards and procedures. Johnston students may apply for interdisciplinary program honors (Proudian, Asian Studies, etc.). They also may be considered for election to Phi Beta Kappa. Because the Latin honors (cum laude, etc.) are dependent upon cumulative GPAs, Johnston students are not eligible to apply for a program leading to Latin honors.

Admission

First-year student applicants who are interested in this program should fill out the Johnston Center Supplement as well as the regular University application form. Continuing students who are interested in an internal transfer should contact the Assistant Director of the Johnston Center as early as their first semester but no later than the fall of the sophomore year.

For working adults, Johnston's individualized graduation contract plan has proven useful for those who have completed some work toward their bachelor's degree and would like to finish it on a part- or full-time basis. Such students are often able to combine coursework done at other institutions with classes in Johnston Center and other departments to create a graduation plan compatible with their personal and professional goals.

May Term

May Term is a concentrated, intensive term structured for courses emphasizing at least one of the following characteristics: Experiential Learning, Collaborative Teaching and Learning, Service Learning, and Immersion Learning. These courses may make appropriate use of long expanses of time outside of class; take advantage of opportunities to extend classrooms through field work, field trips, laboratory work, and travel; offer opportunities to focus on a single subject in depth; offer opportunities for faculty/student collaboration in research, creative process or teaching; be cross-disciplinary or team taught in ways precluded by longer semesters; use an extended period of time for experiential learning (for example, in service learning, internships, or cross-cultural immersion).

Students may take two residential (on campus) May Terms free of tuition and room charges. May Term Travel and Non-residential CSAC courses are not considered residential (on campus) courses. A May Term course fee will be charged for additional residential (on campus) courses. Every May Term travel course will have fees advertised with the course. Deadlines for fees and travel permission forms will be publicized by the Study Abroad Office.

A representative sample of May Term travel courses includes the following:

AST 160	Growing up in Japan
ENGL 265	"Timescapes": Exploring the Ruins of Holocaust Memory (Salzburg)
CSAC 360	Service in Cambodia
AST 311	Chinese Space
EVST 360	Sustainable Development and Migration in Mexico
GOVT 457	Policy Making in Washington, D.C.
BIOL 260	Marine Conservation of the Pacific
SPAN 360	Ecuadorian Culture, Art and Volunteering
EVST 260	The Ecology of Australia and New Zealand
PHIL 140	Animal Ethics and Service (Utah)
CDIS 260	Service-Learning in Language, Culture, and Education in Guatemala
JNST 000A	German Expressionist Film—The Austrian Connection (Salzburg)
EVST 260	Palau-Sustainable Development
PHYS 108	Astronomy Abroad—Galileo's Italy
IDS 250	Outdoor Adventure
JNST 000H	Consuming Rio
BIOL 107	Tropical Ecology in Costa Rica
PSYC 260	Jews, Muslims, and Basques: Their Sociocultural Contribution to Spain
PHIL 160	Global Medical Ethics in Swaziland
GOVT 362	Politics of Eastern Europe (Salzburg)

Undergraduate

Students at the University of Redlands quickly discover that learning is a full-time experience for all members of the University community. Opportunities outside the classroom are a major part of the quality of life on campus.

A full life outside the classroom offers important lessons in creativity, responsible action, service, and leadership. In addition, students refine career goals and develop skills usable in the workplace.

All students are encouraged to participate in residence hall activities, service learning, special-interest organizations, intramurals, and planning and coordination of campus-wide events.

Student Governance (ASUR)

Upon enrolling at the University, each student automatically becomes a member of an active system of student governance, the Associated Students of the University of Redlands (ASUR). Overall responsibility for ASUR rests with its president, elected to a one-year term each spring. The president appoints a cabinet to assist in the management of the Convocation Lecture Series, Peer Education, ASUR Budget, Inclusion, Social Affairs, Elections, Judicial Affairs, and Clubs and Organizations. In addition, there is an ASUR student senate comprised of sixteen elected members. Senators represent the student body on University-wide committees and work with the president to approve the budget.

A substantial budget enables ASUR to fund various social events such as concerts, film festivals, clubs, educational symposia, and all-school parties. In addition, the student newspaper, yearbook, and student-run radio station are funded through this budget.

Convocations

Redlands enjoys a significant reputation for its Convocation Series, which brings major speakers to campus. Student groups and academic departments bring additional speakers. Past notables have included: former Vice-President Al Gore; Robert F. Kennedy, Jr.; the late Coretta Scott King; former New York Governor Mario Cuomo; the late Secretary of State Warren Christopher; poet and author

Maya Angelou; actor Danny Glover; Director of the Southern Poverty Law Center Morris Dees; former Director of the Smithsonian Native American Museum, Richard West; NBA legend Magic Johnson; former presidential candidates Ralph Nader and Howard Dean, as well as Ben Cohen and Jerry Greenfield of Ben and Jerry's Ice Cream.

Redlands is one of the West Coast universities affiliated with the Woodrow Wilson Fellowship Program, which brings a leader in business, industry, government, education, or the arts to the campus for a one-week residency each year.

Campus Diversity and Inclusion

The University of Redlands is a dynamic community that promotes learning for students in a supportive and challenging environment. Our commitment to the personal development of all members of the community enables us to engage, respect, and cherish a diversity of ideas, intellectual perspectives, cultural differences, and individual backgrounds.

The Office of Campus Diversity and Inclusion (CDI) serves as a catalyst to the campus community on matters related to diversity, multicultural programming and cultural pluralism, including expanding the notion of diversity and multiculturalism beyond race, gender, and sexual orientation. To this end, three Centers have been established: the Multicultural Center, the Pride Center (a lesbian, gay, bisexual, and trans gender resource space), and the Women's Center (which includes programming on gender issues). These centers maintain relationships with academic departments, including Race and Ethnic Studies and Women's and Gender Studies. Each Center welcomes involvement from all individuals on campus in whatever form is comfortable: "hanging out," talking with other students, borrowing books or videos, attending programs, suggesting programs, and anything else that contributes to the dynamism of a diverse campus community.

Various programs, activities, and organizations have been developed to promote, encourage, and celebrate diversity on campus and in the surrounding community. One

Student Life

such activity is the Multicultural Festival held each spring. Additionally, students organize a number of major cultural celebrations each year alongside many more informal discussions on a wide array of diversity topics. Students might choose to participate in one or more of the many diversity-oriented clubs on campus that host educational programming, cultural events, political workshops, and guest speakers. Please see our web site for a complete listing of these clubs and organizations.

While underrepresented populations are present at the University, we acknowledge our ongoing campaign to attract an increasingly diverse student body and to make this University a place where every student can feel at home. CDI has created a series of programs addressing the needs of first generation college students. Understanding that not all students enter the University with the same resources and understanding of college, programs are offered to promote a smoother college transition process.

Native American Student Programs (NSP) is the newest addition to Campus Diversity and Inclusion. NSP addresses higher education retention and access issues as they affect Native American college students, youth, and their families in Southern California and beyond. NSP also seeks to create and sustain a visible and vibrant Native American culture at the University of Redlands, academically connected to the growing Native American Studies program. Events and services include volunteer opportunities, guest speakers, cultural programming, and more.

International Students

Each year, the University of Redlands welcomes students from around the world. During the course of the academic year, this group of students sponsors activities as well as holding meetings. Orientation and advising is provided for international students in the areas of cross-cultural adjustment, visa regulations, and problem solving within the University context.

Academic Success and Disability Services

Academic Success offers assistance in developing and strengthening skills essential for full academic participation. Students may meet individually for academic counseling, to create a four-year plan, to plan a balanced workload, or to explore major program options. SSRV 154, College Success Strategies, a 2-credit course, is offered each semester. Peer tutors provide guidance and support free of charge in each of the subject areas and with writing. Academic success also supports students on academic warning and probation, and offers peer mentoring.

Disability Services is committed to fair access and the full participation of all students in the University's educational programs and activities. If students have academic, housing, or dietary accommodation needs, Disability Services can offer resources to support each student's individual needs. Students must initiate the accommodations process by meeting with Disability Services and by providing appropriate documentation. Academic accommodations can include, but are not limited to: extra time on exams, a quiet testing room, note takers, and alternative texts.

Career Services

Career Services offers a wide variety of resources designed to empower University of Redlands students to succeed professionally. Through our office, students can learn necessary career planning, development and job search skills that can be utilized both now and following graduation from the University of Redlands.

Services available to students include: career and graduate school advising and visits, Focus online career and education planning tool, Going Global career and employment resource, internship and job search information and resources, Optimal Resume online career center, Real World 101: Life After College (a 3-unit May Term course for juniors), resume, cover letter and personal statement critiques, UR Career Network, workshops and class/group presentations.

Student Employment

Opportunities, both on and off campus, are available. Those students who have work awards as part of their financial aid package are referred to jobs by the director of student employment. The work-study program introduces students to the work force and helps them develop important skills for future careers. Student employees can work up to ten hours a week, which is limited to keep academics as the first priority.

Counseling Center

The Counseling Center helps students manage stress, anxiety, depression and other psychological concerns that can impair academic performance. Professional licensed therapists and interns provide confidential psychological counseling to individuals, couples, and groups. Psychiatric care for medication evaluation and management is also available. Referrals for community mental health services can be provided as well. All on-campus services are provided free of charge.

Religious Activities

The Office of the Chaplain coordinates religious programs and activities. Weekly services draw on the talents of the campus community, including performances by the Chapel Singers in both traditional and contemporary forms. Worship leadership is provided by faculty, students, and administrators. The Office of the Chaplain also supports a variety of student religious groups and ministries. The University recognizes the pluralistic character of its community and, accordingly, sponsors programs and lectures honoring the contributions made by various religious and philosophical traditions. Thus, while conscious of its historical relationship to the Christian faith, the religious outlook of the University is ecumenical. The Newman Club provides services and programs for Roman Catholic students and faculty. Other Christian groups include InterVarsity Christian Fellowship, Praxis, Calvary Fellowship, and the Mormon Student Fellowship.

The Jewish Student Union, also known as Hillel, provides a forum where Jewish students meet for social, cultural, religious,

and educational purposes. Their organization sponsors Sabbath dinners, bagel brunches, and an annual Passover Seder. Often, rabbis and rabbinical students visit with Hillel members to discuss topics such as Jewish folklore, humor, and views on the afterlife. As an international organization, Hillel also participates in a number of activities with other colleges and attends regional and national conferences. Buddhist students meet for meditation throughout the term.

Residence Life Housing

Undergraduate

Residence hall life has the potential to challenge and educate students as they connect their learning experiences to their living environment. A variety of living options, coupled with knowledgeable, friendly, energetic residence life housing staff, provide a significant community experience.

Approximately seventy percent of Redlands students live in on-campus residence halls or immediately adjacent houses and apartments. These facilities vary in size and are designed to accommodate many lifestyles. Living arrangements include both coed and single-sex halls. In co-ed halls, alternatives range from women housed in one wing and men in a separate wing while sharing a joint lounge to suites of all males and all females on the same floor.

Members of the Residence Life Housing staff are the educational managers of the halls and are involved in all aspects of community living, including conflict resolution, facility management, community building, resourcing, programming, and administration. Each residence hall is managed by professional and para-professional staff members.

Most residence hall rooms are designed for two to three people and are fully furnished. A limited number of single rooms are available—often only to upperclassmen or those with medical or psychological need. A few quad rooms exist as well. Each hall is equipped with laundry and kitchen facilities, study rooms, storage rooms, vending machines, and lounge/recreation areas.

Student Life

There are halls that emphasize special interests such as the Johnston Center (Bekins and Holt), the Quiet Hall (Melrose), and themed communities that focus on areas such as sophomore success, wellness, social justice, music education and sustainable living. The Brockton Apartment complex features single-room, apartment-style living for upper-class students. All halls are smoke-free.

Cal-Founders Hall is open free of charge during winter break for those who live more than 500 miles away from Redlands. A small fee is charged to other students who wish to stay on campus during the break. All students who desire housing during the break must make a reservation with Student Life. Residence halls are open most break periods except the winter break. Food service operations are provided on a limited basis, depending on the break.

Graduate

On-campus housing may be available for graduate students in all disciplines when space is available. Student Life is available for questions and guidance for all graduate and non-traditional students.

Food Service

Meals for students are served in a variety of settings on campus: the Irvine Commons, the Plaza Café, Grab and Go Market, Bulldog Café, and the University Club. Each has its unique ambiance and offers an assortment of foods. Menus are planned to emphasize nutrition, quality, and variety, as well as to have options for vegetarians and vegans. The University dining hours are planned to meet students' needs. Generally, food service is available from 7:00 a.m. until midnight daily, and from 8:00 a.m. until 11:00 p.m. on weekends. Bon Appétit Management Company is responsible for campus food services.

Student Conduct Policies

The Code of Student Conduct is available online to each student at the beginning of the academic year. The Campus Resource Guide, which outlines administrative policies and procedures in non-academic areas, can also be located on the University web site.

Students are responsible for the policies and codes contained within these documents and others referenced by these documents.

Fraternities and Sororities

Approximately twenty-four percent of the Redlands student body belongs to one of six local social fraternities and six local social sororities. In addition to internal activities such as the new-member process, rush parties, and service projects, Greek organizations provide a variety of campus-wide formal and informal social events. These organizations are also instrumental in promoting community and alumni interaction. All Greek organizations are required to operate under guidelines set forth by the Student Leadership and Involvement Center and are reviewed each year. They are governed by an Inter-Fraternity Council, Panhellenic Council, and Greek Council.

Rush activities each semester allow prospective members to learn the distinctive personality of each Greek organization. Students may petition to join a Greek organization during the second semester of their freshman year or may participate in rush any following year.

Health Center

The Student Health Center is dedicated to providing accessible and quality health care services to all students, including health exams for acute illnesses and stable chronic diseases, women's health exams, evaluation and treatment of injuries, and appropriate referrals to emergency services and/or medical specialists. The Center is open Monday through Friday and is staffed by a full-time family nurse practitioner and medical assistants, as well as a part-time preventative medicine physician and nurse educator.

The University of Redlands Student Insurance Plan is optional and/or secondary if you are fully covered by your own insurance. It helps with the expense of illness or injury not entirely covered by the student's primary insurance. The health insurance program is available at a nominal cost and is required of full-time undergraduates who do not carry other insurance. International students are required to carry the policy.

Community Service Learning

The Office of Community Service Learning, established in 1991, refers interns, work-study students, volunteers, and service learning students to hundreds of agencies throughout Redlands and other locations in the United States and abroad. During May Term and summer, an ideal time for focused study, between 250 to 350 students embark on service experiences in places as far away as India and as close as the Redlands Boys and Girls Club. Each year, students contribute over 100,000 hours of service at a variety of local not-for-profit agencies and schools where excellent learning opportunities are created. These experiences reaffirm the University's belief that each individual does make a difference; therefore, service is an integral part of the Redlands experience. Students are encouraged to visit the Office of Community Service Learning for details and service opportunities.

Student Leadership and Involvement Center

Educating the complete person through leadership development programs is a goal of the Student Leadership and Involvement Center. This is accomplished by hosting a series of retreats, workshops, and classes and by enabling students to attend conferences. Each year, students have the opportunity to participate in the first-year retreat, Training Radical and Involved New Students (TRAIN). There are also outdoor programs which connect students to the outdoors through day and weekend trips throughout Southern California. These programs allow students to take what they learn in the classroom and apply it to real-life situations. Learning by doing is the backbone of the leadership and involvement program at Redlands. The Center also serves as the primary advisor to Associated Students of the University of Redlands (ASUR), clubs and organizations, and Greeks.

Athletic Activities

Students can participate in a variety of athletic activities on campus. The University fields twenty-one intercollegiate men's and women's athletic teams, offers physical education courses, and sponsors a wide range of intramural activities. For more information, refer to the Physical Education and Athletics section of this *Catalog*.

UNIVERSITY OF REDLANDS ALUMNI ASSOCIATION

The mission of the University of Redlands Alumni Association is to foster meaningful and mutually beneficial relationships that connect the University and all of its alumni. The Association nurtures relationships among alumni by providing experiences that enrich the lives of alumni and present a positive image of the University and its graduates. Recognizing that learning is a lifelong process, in all of its activities the Association is committed to maintaining and supporting the University of Redlands as a world class institution of higher learning and academic excellence.

Membership in the Association

Anyone who has earned an undergraduate or graduate degree from the University of Redlands is a member of the Association. In addition, anyone who has satisfactorily completed a minimum of 24 credits in the College of Arts and Sciences or has received a teaching credential through the School of Education is a member of the Association.

Study Abroad

General Information and Regulations

The University encourages students to plan for a significant international study experience.

Academic performance in any approved study abroad program is recorded on the student's transcript and grades earned are computed in the student's University of Redlands grade point average. Credit earned in these programs is applied toward graduation when the Office of the Registrar receives evidence that studies have been completed.

Departments determine the applicability of off-campus coursework toward the major, and the Registrar determines acceptability of coursework toward fulfillment of Liberal Arts Foundation requirements.

Once matriculated at the University of Redlands, a student can apply academic credit earned abroad toward the University of Redlands degree only if the student has received prior approval for his or her study abroad program from the Director of Study Abroad. It is the student's responsibility to make certain that his or her participation in the study abroad program is fully compliant with the application and review calendar for study abroad, as well as all University rules and regulations regarding off-campus study.

All approved study abroad programs are offered to Redlands students at the current cost of room, board, tuition, and fees at the University of Redlands. The University, in turn, underwrites the direct and required program expenses of tuition, room, and board. Elective program choices (e.g., field trips, overloads, etc.) are the direct personal responsibility of the student.

Potential applicants should consider carefully how a semester abroad would complement their general education, majors, or career plans.

Applicants negotiate individual courses of study with their advisors and the Director of Study Abroad.

As part of preparation for a semester abroad, students are responsible for arranging and paying for their own transportation to and from the study center. Programs that include transportation to the study site as part of the

comprehensive program fee will be advised to bill the student directly for these charges.

To receive the complete list of study abroad policies, contact the Study Abroad office.

Calendar

Students anticipating a semester abroad must submit a preliminary application immediately following the Spring/May advising period, typically in mid-November of the preceding year. Program-specific applications should be submitted to the Study Abroad office by the end of January for fall programs and the end of March of the preceding year for spring programs.

SALZBURG SEMESTER

The Director

William M. Lowman, Director

Since 1960, the University of Redlands has offered a unique study abroad program in Salzburg, Austria. The Salzburg Semester is characterized by a general humanities curriculum and offered in the context of group study and extensive travel opportunities. The program is available to sophomore and junior undergraduates regardless of major, with preference given to academic standing and to those students who have shown evidence of preparing themselves academically and personally for this group travel-study program.

Courses offered:

- SALZ 240s Austria in Europe: From Empire to European Union
- SALZ 250s Sites and Sounds of Salzburg: Engaging with the Visual and Performing Arts in Europe
- GERM 101s, 102s, 201s, 202s (Advanced German may be offered with approval from department and program director.)
- IDS 263S Special Topics or optional course offered by a University of Redlands visiting faculty member

Music Majors will have the opportunity to enroll in:

- MUSP 350S Applied Music lessons

The Salzburg Semester offers a unified core of courses that support each other and take advantage of the richness of the environment. Extended field excursions to the Balkans and to Italy enrich the insights gained from in-class lectures.

The comprehensive fee for the Salzburg program is set at the cost of tuition, double room and standard meal plan, and ASUR fee. As with other study-abroad programs, students are responsible for their transportation to and from the study site.

Guest Students

The University of Redlands welcomes well qualified guest students to this program each semester from other colleges across the country.

Course Descriptions (SALZ):

101S–102S First-Year German (Salzburg). Fall (4), Spring (4).

Study of basic elements of the German language for beginning students. Emphasis on development of skills enabling students to understand and speak German of moderate difficulty, focusing on the elementary grammatical structures and a core vocabulary needed for use in conversations and interactions in Salzburg. Prerequisite for GRMN 102S: GRMN 101.

201S–202S Second-Year German (Salzburg). Fall (4), Spring (4).

Continued study and review of basic elements of the German language and grammatical structures while developing a core vocabulary of words and phrases for use in conversations and interactions in Salzburg. Exercises in reading, writing, listening, and speaking. Differences in learning styles, customs, and traditions between Americans, Austrians, Germans, and other Europeans will be explored. Prerequisite for GRMN 201S: GRMN 102 or permission. Prerequisite for GRMN 202S: GRMN 201 or permission.

240S Austria in Europe: From Empire to European Union. Fall (4), Spring (4).

This course is designed to introduce students to the history, culture and economics of Austria and its place in Europe from early

settlement to the present day. We will study Austria's role in the Roman Empire, the Holy Roman Empire, Austria-Hungary, World Wars I, II, the Soviet Empire and Austria's eventual membership in the European Union. Extensive travel around Austria, Europe and the Balkans compliments in-class work.

250S The Sites and Sounds of Salzburg: Engaging with the Visual and Performing Arts in Europe. Fall (4), Spring (4).

Students engage personally in the performance of classical music as well as its history and context, the creation of visual art and its development throughout European history, and the understanding of architecture as a reflection of the European ideal. Presents in a unique manner the expansive European culture of classical music, art and architecture, blending concerts, museum study, and excursions in Salzburg and to selected European cities.

260S Special Topics in Salzburg. Fall (4), Spring (4).

Special topics course for Salzburg Semester taught by visiting faculty.

Beyond the Salzburg Semester

It is up to the Redlands student, working in consultation with his or her advisor, to determine the most appropriate fit of an international study option with the student's overall academic plan.

Recognized Exchange Programs

The University of Redlands has established exchange agreements with the following institutions.

- The University of East Anglia, Norwich, England. Located two hours outside of London, Norwich ranks among the most livable cities in England. This site is particularly attractive for majors in theatre, art history, and the sciences.
- The University of Bristol, Bristol, England. Broad ranging curricular choices available to students for most University of Redlands majors, particularly strong in international relations.
- Macquarie University, Sydney, Australia. Macquarie offers a broad range of curricular

Study Abroad

options exemplary of a major Australian university.

- Chung Chi College in Hong Kong. Broad curriculum choices in English, combined with residence hall living in this vibrant city makes for a rich study option in Hong Kong.
- Reitaku University, Tokyo, Japan. Reitaku provides a small residential college environment and residence halls. Near Tokyo, Reitaku offers a program emphasizing intensive study of Japanese language.

Additional Study Abroad Opportunities

Student interests vary from year to year, but historically Redlands students have also accessed these programs of study:

- The University of Redlands is a member of the New American Colleges, and as such, our students have the opportunity to participate in some of the best study-abroad programs available. For a list of Featured Programs, please consult the Study Abroad office.
- The Institute for the International Education of Students (IES), The School for International Training (SIT), School for Field Studies (SFS), The Institute for Study Abroad (IFSA), Denmark's International Study Program (DIS).

Individualized Study

The University presumes that, because the academic integrity of an experience abroad is more likely to be assured when a student is in an organized program and because institutional responsibility for a student's well-being is most obviously met by having students engaged in organized and approved study-abroad programs with all their support systems and links to local resources, the University will approve study abroad only when provided by an approved program of study or when the proposal includes an approved affiliation either with a local institution or with a local Community Service Activity (CSAC) advisor.

May Term Off-Campus Programs

Each May Term, Redlands faculty members generally offer a number of opportunities for international study. These programs change from year to year, but historically, programs

offered have included trips to Europe, Latin America, Africa, Asia, and the South Pacific. These offerings are extended to Redlands students at the cost of transportation, housing, and board.

More Information

More information on study abroad may be obtained from the Study Abroad office or the University web site at www.redlands.edu.

Course Definitions

Course Numbering System

0–99 Preparatory: (e.g., remedial courses, skills courses): May or may not be counted for degree credit depending on course content. No prerequisites.

100–199 Introductory: Included in degree grade point average (GPA). Usually have no college-level prerequisites but may include some previous preparation. Typically first-year courses.

200–299 Introductory and Intermediate: Will usually have prerequisites, not necessarily academic work (e.g., sophomore standing; permission). Typically second-year courses.

300–399 Intermediate and Advanced: Have prerequisites but not necessarily in the major. Typically third-year courses.

400–499 Advanced: Have prerequisites in the major. Typically fourth-year courses.

500–599 Credential and other post-baccalaureate courses. Continuing education courses are also offered in this series.

500x-599x Continuing education courses. Not degree applicable. Offered through Schools of Education, Business, and Continuing Studies.

600–699 Graduate: Reserved for graduate students.

700–799 Post-graduate: Courses not otherwise offered as graduate courses. Advanced credential courses in Education are in this category.

800–899 Doctorate level courses: Reserved for Ed.D. students.

Regardless of the level, courses numbered in the x60s are topics courses; courses numbered in the x70s are directed studies; courses numbered in the x80s are internships; and courses numbered in the x90s are capstone, honors, or thesis courses.

Johnston Course Numbering

000A-000Z Johnston Seminars, undergraduate level.

001-099 Johnston Independent Studies, undergraduate level.

Course Frequency

Most classes are offered each year in the time stated. Exceptions are identified at the end of course descriptions.

“Offered in alternate years” indicates courses that are offered on a regular basis every other year. Time of offering is included in the description statement.

“Not regularly offered” identifies courses that are offered outside the schedules mentioned above (e.g., every third semester). The next offering time is included in the description statement.

“Offered as needed” refers to those courses offered at the discretion of the department (usually topics courses) and on demand. Descriptions of these courses will carry a message that the course title and semester will be announced in the current *Schedule of Classes*.

Definition of an Academic Credit

A semester credit is awarded for the amount of work an average student would accomplish in a minimum of 40 hours (undergraduate) and 45 hours (graduate), including the hours spent in the laboratory or classroom.

Explanation of Course Markings

Course numbers and titles are followed by the semester or term in which they are typically offered and the number of credits they carry. Courses that continue throughout the year are described together. Course numbers (a) separated by a comma may be scheduled in any sequence, (b) separated by a hyphen must be taken in sequence because each is a prerequisite for the course following, and (c) course numbers separated by a slash distinguish undergraduate and graduate levels. Undergraduates would enroll for a level numbered 1–499, graduates for 600–699.

Accounting

THE FACULTY

Alex Frazin

Laurel Mitchell

THE MAJOR

The accounting major provides an opportunity to extend academic skills developed in the Liberal Arts Foundation to prepare for a specific professional career. Accounting coursework emphasizes critical analysis, problem-solving, reasoning, and communication. Internet research, writing, and presentation skills are developed across the program.

The accounting major covers financial accounting for external reports, managerial accounting for internal decisions, auditing for assurance services, and tax for regulatory accounting. Completion of the accounting major lays the foundation for obtaining professional designations such as Certified Public Accountant and Certified Management Accountant. In addition to preparing students for entry into the accounting profession, the accounting major also provides a foundation for pursuing careers in finance, investments, management, FBI, and the law.

Accounting is presented as a process of developing and reporting economic and financial information for a wide range of business, not-for-profit, and government entities. The usefulness of accounting information is illustrated and its interpretation is stressed.

Accounting coursework usually begins in the sophomore year, but anticipates completion of several introductory related field courses. Students considering an accounting major should consult an accounting faculty member early in their Redlands careers, because completion of the major requires careful planning, especially if a student plans a semester abroad. The optimal time for a semester abroad is during the sophomore year. Potential transfer students should contact an accounting faculty member as special planning might be necessary.

Students should review the educational requirements for CPA licensure in the state they intend to become licensed. For example, for California licensure, a baccalaureate degree and 150 semester credits are required, with detailed

requirements for accounting, economics, business-related and ethics courses, some of which are not required by the major.

Majors in Financial Economics should consult with an accounting faculty member as to the best integration of accounting courses within their major.

Learning outcomes for this program may be found at:

www.redlands.edu/academics/college-of-arts-sciences/undergraduate-studies/accounting/9420.aspx.

The Bachelor of Science

Requirements

Program classes may be taken toward the major upon completion of introductory field courses with a 2.0 or higher GPA in each course. Students entering the major are expected to have a 2.7 or higher cumulative GPA on a 4.0 scale. Transfer students are expected to have a 2.7 average from their previous school(s). A 2.0 in each prerequisite course also is required. Course substitutions, if granted, require written approval from the program director.

Introductory Related Field Courses

3 courses 12 credits

Note that these courses satisfy Liberal Arts Foundation requirements.

- ECON 250 Principles of Microeconomics (SE) (3-4)
- ECON 251 Principles of Macroeconomics (SE) (4)
- MATH 121 Calculus I (MS2) (4)
Note: MATH 121 is not required but is expected by high-quality graduate programs in accounting and business
- PSYC 100 Introduction to Psychology (4),
SOAN 100 Introduction to Sociology (4),
OR SOAN 102 Introduction to Cultural Anthropology (4) recommended to fulfill HB requirement

Advanced Related Field Requirements

3 courses 12 credits

- ECON 200 Introduction to Statistical Methods (4), MATH 111 Elementary Statistics and Probability with

- Applications (4) OR another approved statistics course
- BUS 421 Corporate Finance (4) OR BUS 354 Investments (4)
 - ECON 350 Intermediate Microeconomics (4) OR another individually approved advanced economics course. Additional advanced economics courses are strongly recommended.

Accounting Courses

12 courses 47 credits

- ACCT 210 Principles of Financial Accounting and Reporting (4)
- ACCT 211 Financial Accounting Process (3)
- ACCT 220 Principles of Managerial Accounting (4)
- ACCT 240 Business Law (4) OR BUS 240 Business Law
- ACCT 310–320 Intermediate Accounting I (4), II (4)
- ACCT 315 Advanced Managerial Accounting (4)
- ACCT 400–401 Financial Reporting Theory I (2), II (2)
- ACCT 410 Auditing (4)
- ACCT 411 Accounting Information Systems (2)
- ACCT 415 Tax Accounting (4)
- ACCT 421 Governmental and Not-for-Profit Accounting (2)
- ACCT 440 Financial and Business Reporting Analysis (4)

Minor Requirement

Accounting majors are not required to complete a minor, but are encouraged to do so. Recommended disciplines for a minor include computer science, economics, mathematics, and psychology.

Sequence of Courses

Sophomore standing or written permission is required for the first accounting course (ACCT 210).

All upper-division accounting courses have prerequisites and are offered only once each year. Therefore, careful planning with an

accounting faculty member is encouraged.

The chart below shows the recommended course sequence for accounting majors during the first two years. Variation is possible, but in general, the courses listed should be taken before the junior year because they provide a strong academic foundation for the study of accounting.

Freshman Year

Fall

First-year Seminar
 Liberal Arts Foundation (WA) course
 Liberal Arts Foundation (MS) course
 ECON 250 (SE) or Liberal Arts Foundation course

Spring

Liberal Arts Foundation course
 Liberal Arts Foundation course
 Liberal Arts Foundation course
 ECON 250 (SE) or ECON 251

May Term

Liberal Arts Foundation course

Sophomore Year

Fall

Liberal Arts Foundation (HB) course
 Liberal Arts Foundation course
 Liberal Arts Foundation course
 ECON 251 (SE) or ACCT 210

Spring

ECON 350 or upper level ECON elective
 Statistics: ECON 200, MATH 111, or MATH 311
 ACCT 210 or ACCT 220

ACCT 360 Volunteer Income Tax Assistance community service course (CSAC)

May Term

ACCT 211

THE MINOR

A minor in accounting can provide a foundation for careers in general business, investment management, and finance.

Students who choose to minor in accounting must complete 21 to 23 credits of the following accounting courses:

- ACCT 210 Principles of Financial Accounting and Reporting (4)
- ACCT 211 Financial Accounting Process (3)

Accounting

- ACCT 220 Principles of Managerial Accounting (4)
- ACCT 310 Intermediate Accounting I (4)
- ACCT 315 Advanced Managerial Accounting (4)
- one additional accounting course at the 300 or 400 level (2-4)

Internship

Accounting juniors and seniors are encouraged to consider internships as an opportunity to enhance their academic program. Internships allow students to explore career possibilities and integrate classroom learning with experiential learning. Students should see an accounting advisor for more information. To receive academic credit for any internship, students must complete academic assignments in addition to the internship itself.

Study Abroad

Foreign study programs offer an enriching personal experience to students while they earn academic credit. Study abroad is encouraged, but requires planning in consultation with the advisor. The recommended semesters for study abroad is spring semester of the sophomore year. Courses that fulfill major requirements are sometimes available in Australia and the United Kingdom. Consult the Off-Campus Study section of this *Catalog* for more information.

Departmental Honors in Accounting

Applications are accepted in the junior year from majors of high academic achievement who desire to work toward departmental honors. Successful applicants will work one-on-one with a member of the accounting faculty to complete a research project. In addition, the research project will be supported and reviewed by an advisory committee of accounting faculty and outside experts, selected by the student and approved by the Honors advisor. To qualify for University honors, a student must complete an honors project within the major department.

Course Descriptions (ACCT)

All prerequisite courses must be taken for a numerical grade. To meet a course prerequisite, a minimum grade of 2.0 must have been earned in the prerequisite course.

210 Principles of Financial Accounting and Reporting. Fall (4), Spring (4).

Financial accounting and reporting concepts and procedures that provide a history of economic resources, obligations, and related economic activities of financial entities. Emphasis is on using financial information to analyze financial health and performance at an enterprise. Prerequisites: ECON 250 and sophomore standing or by permission.

211 Financial Accounting Process. May Term (3).

Extended study of the accounting process as a system. Topics include the recording and reporting process of complex transactions. Includes introduction to accounting systems and analysis tools. Prerequisites: ACCT 210. Accounting majors and minors and financial economics majors only or by permission.

220 Principles of Managerial Accounting. Fall (4), Spring (4).

Analysis of financial and relevant non-financial information used in planning, motivating, evaluating, and control. Economic and behavioral concepts and quantitative techniques are integrated throughout. Topics: cost behavior, budgeting, analysis of variance, performance measurement, and pricing. Prerequisites: ACCT 210 and a department-approved statistics course or by permission. Any Liberal Arts Foundation Human Behavior (HB) course, PSYC 100, SOAN 100, or SOAN 102 recommended.

240 Business Law. Fall (4), Spring (4).

The law, its historical source, and its implications. Law and remedies in the following areas: torts, business crimes, contracts, agency, bankruptcy, suretyship, and creditor and consumer rights. For business majors, prerequisite is BUS 226 or by permission.

310–320 Intermediate Accounting I, II. Fall (4), Spring (4).

Intensive study of the financial accounting environment and of the authoritative accounting literature that provides a guide to the recording of economic resources and obligations and the related economic activities of business enterprises. Prerequisite to ACCT 310 is ACCT 210 and 211; prerequisite to ACCT 320 is ACCT 310 or by permission.

315 Advanced Managerial Accounting. Spring (4).

Examination of concepts and analytical techniques drawn from behavioral sciences, economics, and financial accounting as applied to managerial planning, controlling, and decision-making issues. Topics include analysis of alternative cost systems for activities, products, and processes. Prerequisite: ACCT 220 or by permission.

360 Volunteer Income Tax Assistance. Spring (3).

Topics in Federal and California income tax regulations for filing basic income tax returns. Introduction to issues of providing volunteer service. Experiential learning is required through a community service component. CN only.

400–401 Financial Reporting Theory I, II. Fall (2), Spring (2).

Capstone course requiring students to integrate knowledge of accounting, business, economics, and regulation, and apply this knowledge to emerging financial reporting issues. Study of accounting, corporate governance, and risk management issues will be from the perspectives of the enterprise, auditor, and financial statement users. Prerequisite: ACCT 310 or by permission.

410 Auditing. Spring (4).

Examination of the purposes, expectations, and responsibilities of independent public auditors as the profession evolves in society. Emphasis on the auditor's decision process. Topics: legal liability, ethics, sampling theory, evidence, audit standards, internal control, and the audit report. Prerequisite: ACCT 310 or by permission.

411 Accounting Information Systems. Fall (2).

Study of the design and application of accounting systems intended to provide financial and non-financial information which informs decisions and influences behavior within business processes. Strong emphasis on conceptual modeling and database systems, and on documenting and evaluating internal controls. Prerequisite: ACCT 410 or by permission.

415 Tax Accounting. Fall (4).

Determination of federal and state income tax liability for individuals, corporations, and partnerships. Addresses filing returns, paying taxes, and introduces tax planning. Legislative and judicial development of tax law. Legal recourse available to taxpayers. Prerequisites: ACCT 210 and senior standing or by permission. ACCT 360 Volunteer Income Tax Assistance (CSAC) recommended.

420 Advanced Accounting. Spring (3).

Intensive study of financial accounting for such topics as entity forms, business combinations and consolidation, interim and segment reporting, and foreign exchange translation. Prerequisite: ACCT 320 or by permission. Offered as needed.

421 Governmental and Not-for-Profit Accounting. Fall (2).

Theory and practice of governmental and not-for-profit financial accounting. Topics include theoretical framework, fund accounting, and basic financial statements. Prerequisite: ACCT 310 or by permission.

440 Financial and Business Reporting Analysis. Spring (4).

Concentration on disclosure standards, differential effects of alternative accounting and reporting, management's choices of accounting and reporting policies, and interpretation of financial information. Analysis of the quality of reported earnings will be emphasized. Prerequisites: ACCT 310, senior standing or by permission.

Accounting

469 Advanced Topics in Accounting.

Fall (2–4), Spring (2–4), May Term (3).

Continuation of select upper-division courses, allowing students to pursue topics in accounting beyond one semester. Designed to reflect current trends and issues. Prerequisite: by permission. Offered as needed. NU only. May be repeated for degree credit, given a different topic, for up to 4 credits.

489 Accounting Internship. Fall (1–3), Spring (1–3).

Placement in an internship with academic work under faculty direction. Prerequisite: junior or senior standing or by permission.

THE FACULTY

Raúl Acero
Renée Azenaro
Tommi Cahill
Penny McElroy

THE MAJOR

The department offers a program leading to a Bachelor of Arts degree in Art.

Learning outcomes for this program may be found at:

www.redlands.edu/academics/college-of-arts-sciences/undergraduate-studies/art-studio/9427.aspx.

Bachelor of Arts The Art Major

Studio Foundation

6 courses 24 credits

Required courses:

- Art 131 Drawing (4)
- Art 132 2-D Design (4)
- Art 145 Introduction to Sculpture (4)
- Art 235 Introduction to Photography (4)
- Two Art History Courses:
ARTH 102 Introduction to Art History (4)
and ARTH 103 Introduction to Modern Art (4) OR department approved substitution.

Recommended courses:

- Art 140 Introduction to Ceramics (4)
- Art 155 Introduction to Printmaking (4)
- Art 233 Painting (4)
- Art 252 Introduction to Graphic Design (4)

Concentration – choose one of the following:**Ceramics/Sculpture**

2 courses 8 credits

- Art 140 Introduction to Ceramics (4)
- Art 240 Intermediate Ceramics (4) OR Art 347 Intermediate Sculpture (4)

Drawing/Painting

3 courses 12 credits

- Art 233 Painting (4)
- Art 331 Intermediate Drawing (4)
- Art 333 Intermediate Painting (4)

Graphic Design

3 courses 12 credits

- Art 252 Introduction to Graphic Design (4)
- Art 150 Book Arts OR Art 251
Typography (4)
- Art 352 Intermediate Graphic Design (4)

Photography

2 courses 8 credits

- Art 338 Darkroom Photography (4)
- Art 336 Intermediate Photography (4)

Capstone:

2 courses 8 credits

- Art 430 Advanced Studio Workshop (4)
- Art 495 Senior Project (4)

To be a successful Art major, you should:

- take the Studio Foundation in the first or second year (ART 131, 132, 145 and 235)
- plan study abroad early, consulting with department faculty about appropriate programs and timing
- plan to be on campus the spring of your junior year and all of your senior year in order to ensure completion of your major requirements
- declare your major by the fall of your sophomore year
- understand the wait list system (see section called “Waiting Lists.”)
- attend to course prerequisites when planning your schedule
- complete a concentration selected from the descriptions in the previous sections
- try to include at least one course each in theatre, creative writing, and music during your college career

THE MINOR**The Art Minor**

The minor consists of 20 credits.

Foundation courses:

2 courses 8 credits

Choose two from:

- ART 131 Drawing (4)
- ART 132 2-D Design (4)
- ART 145 Introduction to Sculpture (4)
- ART 158 Digital Imaging (4)

Art

Studio art courses

3 courses. 12 credits

Complete 3 Studio Art courses, at least one of which is at the 200 level or above.

Fees

All studio courses require a lab fee. All lab fees are charged to the college bill of the student, unless other arrangements for payment are made. If a student drops a course after using some of the materials provided, a partial fee is computed and charged.

In studio courses, the lab fee pays for shared supplies used by the students in the course, as well as tools that become the property of the student. This practice results in significant savings in the cost of art tools and materials. Lab fees in studio courses range from \$45 to \$500.

Time

For studio classes, the department requires three to four hours of work per week for each credit, in addition to time spent in class. (Thus, a 4-credit course requires the six hours in class plus at least twelve hours of studio work outside of class.)

Waiting Lists

Art classes fill up quickly. If a desired class is closed, students can contact the Art Department Administrative Assistant (x8360) to be placed on the waiting list. Typically, 2-5 students from the waiting list are admitted to the class, with preference given to Art majors. Students on the waiting list should attend the first class meeting and bring an add slip.

Departmental Honors

All art majors complete a senior project, which is evaluated when determining departmental honors. Completion of an exemplary senior project is a necessary condition for receiving departmental honors.

Gallery Program

The Peppers Art Gallery features ongoing exhibits by recognized and emerging artists in a variety of media. Gallery talks by exhibiting artists are frequently featured.

Advanced Placement in Art

Art Studio: Students who earn scores of three or higher on the Advanced Placement Test receive 4 credits in studio art, subject to confirmation by faculty portfolio review.

Course Descriptions (ART)

131 Drawing. Fall (4), Spring (4), May Term (3).

This is an introductory studio course that focuses on traditional techniques, materials, and processes of drawing. Through the basic observation of still life, landscape, and portraiture, the student will learn how the elements and principles of design can be developed in their own drawings to promote personal expression and understanding. Emphasis is placed on composition, mark making, perspective, and interpretative drawing. NU and EV only.

132 2-D Design. Fall (4), Spring (4), May Term (3).

Students are acquainted with the structure that artists consider when creating two-dimensional images. The elements of pictorial composition (line, shape, space, color, value, and texture) are used in concert with the principles (unity/variety, balance/emphasis/rhythm, and proportion/scale) to create effective images. NU and EV only.

140 Introduction to Ceramics. Fall (4), Spring (4).

Introduction to the shaping of clay with hand-building techniques and on the potter's wheel. A variety of surface design and firing techniques are also taught.

145 Introduction to Sculpture. Fall (4), Spring (4).

Introduction to materials, techniques, concepts, and tools of sculpture. Techniques covered may include modeling, carving, construction, and mold making.

150 Book Arts. Fall (4), Spring (4).

Students explore various ways and means to create artists' books. This includes binding and structures, pacing, sequencing, and theoretical and conceptual approaches to the book as an art object.

155 Introduction to Printmaking.**Fall (4), Spring (4).**

This course is an introduction to the basic strategies and techniques of lithographic, intaglio, serigraphic and relief processes. Emphasis is on development of imagery and introductory understanding and command of print processes. Completed editions will be discussed during group critiques. Prerequisite: ART 131 or 132 or 145 or 235.

165 Special Topics. Fall (2–4),**Spring (2–4), May Term (3).**

Various offerings of specialized studio workshop experiences.

233 Painting. Fall (4), Spring (4).

Introduction to the materials and techniques of painting. Emphasis is placed on color, mixing and modifying paints, surface, composition, and the history of the medium. Prerequisites: ART 131; ART 132, 145 strongly recommended.

235 Introduction to Photography.**Fall (4), Spring (4).**

Using a digital camera, students produce original work in response to a series of lectures, assignments, and biweekly critiques. A range of tools, including color correction, selections, layers and inkjet printing are addressed. Students will complete an integrative final project. Prerequisite: ART 131 or 132 or 145.

240 Intermediate Ceramics. Spring (4).

Expands on the techniques taught in ART 140. Areas of focus include kiln firing, wheel throwing and hand building, glaze experimentation and overviews of pottery by contemporary artists and ancient societies. Prerequisites: ART 140 and ART 131 or 132 or by permission of instructor.

249 Sculpture: Metal Casting. Fall (4).

Various mold-making techniques taught and work will be cast in bronze. Intermediate level sculpture focusing on modeling with materials such as clay and plaster. Emphasis on formal and conceptual development of personal expression. Students will study work of contemporary sculptors. Prerequisites: ART 145 and ART 131 or ART 132 or ART 158 or by permission from instructor. Offered as needed.

250 Life Drawing. Fall (4), Spring (4).

Continuation of ART 131, offering an introduction to the human figure. Students draw from live models and become familiar with the anatomical structure of the human body with an emphasis on accurately interpreting it through a variety of drawing mediums. Prerequisite: ART 131 or by permission. May be repeated for a maximum of 12 credits.

251 Typography. Fall (4), Spring (4).

A study of letter forms and page design. Students explore typography through both historical methods and contemporary techniques. Focus will be on developing sensitivity to type and discovering the creative possibilities of typographic design. Prerequisite: ART 131 or 132 or 145 or 235 or by permission.

252 Introduction to Graphic Design.**Fall (4), Spring (4).**

Introduction to technical and conceptual principles of graphic design. Students will investigate different creative approaches to the design process. Topics include text/image relationships, illustration techniques, basic type concerns, logo/identity, concept presentation, and developing competency with Adobe Illustrator. Prerequisite: ART 131 or 132 or 145 or 235 or by permission of instructor.

255 Printmaking: Etching.**Fall (4), Spring (4).**

Basic techniques of etching which involve drawing on a metal plate through an asphaltum ground. The plate is soaked in an acid bath and the drawing is "bitten" into the plate. The plate is subsequently inked and printed using a press. Etching allows for rich line work and drawn textures. Prerequisite: ART 131 or 132 or 145 or 235 or ART 155 Introduction to Printmaking. Offered as needed.

257 Printmaking: Lithography.**Fall (4), Spring (4).**

Basic techniques of plate and stone lithography, involving drawing on a slab of limestone with greasy inks and crayons. The drawing is fixed to the stone. The stone is inked and printed using a printing press. Lithography can yield an impressive range

Art

of tones and subtle “watercolor” textures. Prerequisites: ART 131 or 132 or 145 or 235 and ART 155 Introduction to Printmaking. Offered as needed.

258 Printmaking: Relief.

Fall (4), Spring (4).

Basic techniques of relief printmaking: woodcut and linocut. This involves carving blocks of wood or linoleum. The parts of the block not cut away are inked and printed using a press. Prints are characterized by vigorous carved textures and high contrast of values. Least technical of the printmaking mediums. Prerequisites: ART 131 or 132 or 145 or 235 and ART 155 Introduction to Printmaking. Offered as needed.

259 Printmaking: Serigraphy.

Fall (4), Spring (4).

Basic techniques of serigraphy (silkscreen printing). Various stencils applied to a fabric screen stretched across a wooden frame. The ink is squeezed through the stencil and screen, thus deposited on the paper underneath. Serigraphy is characterized by extensive use of color and allows for painterly or photographic approaches. Prerequisite: ART 131 or 132 or 145 or 235 and ART 155 Introduction to Printmaking. Offered as needed.

265 Special Topics in Studio Art.

Fall (2–4), Spring (2–4), May Term (3).

Various offerings in specialized studio workshop experiences. Offered as needed. Prerequisite: ART 131 or 132 or 145 or 235 or by permission.

331 Intermediate Drawing. Spring (4).

Continues to explore perception and form as it pertains to representation and abstraction with special attention to the human figure. Exercises and projects are initially dependent upon observed reality and will eventually lead to more concept-driven assignments. This course will address form, space, light and surface concepts, compositional and structural problems, and the drawing medium as a vehicle for personal expression. ART 331 requires the development of strategies for problem solving, experimentation, and expanded notions of drawing. Prerequisites:

ART 131, 132, 145 and 235. May be repeated for degree credit with by permission.

333 Intermediate Painting. Spring (4).

Continuation of ART 233 with further investigation of the methods and materials associated with painting. Emphasis is placed on creating awareness and the development of a personal approach for subject matter and processes in painting. Prerequisites: ART 131, 132, 145, 233, and 235. May be repeated for degree credit with permission.

338 Darkroom Photography. Fall (4).

Photographic processes using a film camera and a wet lab. Original work is produced and discussed in biweekly critiques. A range of tools, including correction with filters, burning, dodging, film processing, editing, and sequencing are addressed. Students will complete a culminating body of work. Prerequisites: Declaration of the major and one photography class.

339 Intermediate Photography.

Spring (4).

This course focuses on the production of work using digital or darkroom photography. Lectures, readings, discussions, and critiques. Designed specifically for students to produce high volumes of work. Focus on individual student's process, artist statements, portfolios and the completion of a fully realized concept. Prerequisites: ART 131, 132, 145, 235, and 338.

347 Intermediate Sculpture. Fall (4).

Students work with combinations of materials, exploring their physical properties and cultural significance. Emphasis on personal expression through form and content. Prerequisite: ART 145.

352 Intermediate Graphic Design.

Spring (4).

Expands on the theories and topics covered in ART 252. Areas of focus include graphic design and advertising as a cultural force, campaigns and marketing strategies, typography, visual hierarchy, multiple-page document layout, and production techniques using Adobe InDesign. Emphasis on conceptualization, problem

solving and increased technical aptitude. Prerequisites: ART 131, 132, 145, 235 and 252.

430 Advanced Studio Workshop. Fall (4).

This course is the first part of the two-part capstone course emphasizing advanced work in the major concentration. Students will refine their technique, work toward developing an individual body of work and create a portfolio of work. Prerequisites: ART 131, 132, 145, 235 and one of the following: ART 331, 339, 352, 347, 240 or 333.

**485 Program Internship. Fall (2–14),
Spring (2–14).**

By permission of instructor only.

**495 Senior Project: Studio Art.
Spring (4).**

Opportunity for students to work independently on a culminating body of work in their concentration. Studio art work, if acceptable, is exhibited in the spring senior show. Prerequisites: ART 131, 132, 145, 235, and 430.

Art History

THE DIRECTOR

Piers Britton

THE ADVISORY COMMITTEE

Nancy Carrick, English

Kelly Hankin, Johnston Center

Priya Jha, English

Sheila Lloyd, English

THE MINOR

Art History Minor

Minor requirements 22 credits

- ARTH 102 Intro to the History of Art (4) OR
ARTH 103 Intro to Modern Art (4)
- Two Art History courses at the 200 level
(6-8 credits)
- Two Art History courses at the 300 level
(8 credits)
- One course in studio art (3-4 credits)

Cross-listed Courses

Descriptions of these courses can be found in the catalog listings for the relevant department. Check these also for prerequisites, if any. The following courses concentrate entirely or significantly on issues pertaining to art and visual culture and may be counted automatically toward the minor:

- REST 240 Chicana/o Art (4)
- THA 125 Stage Design Fundamentals
(satisfies studio art requirement) (4)
- VMS 301 Theories of Media and Visual
Culture (4)

Course Descriptions (ARTH)

102 Introduction to the History of Art. Fall (4).

This course introduces basic skills for viewing, analyzing, and writing about art. It outlines the materials and techniques of art making, and sketches some of the ways in which social forces shape art. Students will learn how to conduct a formal analysis of an art object and research its context.

103 An Introduction to Modern Art. Spring (4).

This course provides the student with a foundational knowledge of modern/modernist art of the nineteenth and earlier twentieth centuries, including painting, sculpture, architecture, graphic design, and photography. It develops and extends material covered in ARTH 102, but also offers a self-contained introduction to formal and contextual analysis of art.

202 Artists and Patrons: Raphael and Michelangelo. Fall (4), Spring (4).

Explores the ways in which art is made and the kinds of status conferred on its makers. Geographic and temporal focus varies; topics may include study of single artists, artists' workshops, "anonymous" and mass art, the authorial role of patrons and clients, collaboration, competition, and client-artist disputes. May be repeated for degree credit for a maximum of 8 credits with instructor's permission. Offered as needed.

203 Space and Place (Topics). Fall (4), Spring (4).

Explores aspects of the formation and use of spaces, from architectural and urban environments to ritual space and site-specific art. Geographic and temporal focus varies; potential topics may include the study of individual cities across time or in given periods, local domestic architecture, the careers of individual architects, garden design, and land art. May be repeated for degree credit for a maximum of 8 credits with instructor's permission. Offered as needed.

264 Special Topics in Art History. Fall (2-4), Spring (2-4).

Topics of current interest in art history. May be repeated for degree credit for a maximum of 12 credits. Offered as needed.

324 Art and Identity. Fall (4), Spring (4).

Explores the role that artistic practices have played in the formation and maintenance of national, ethnic, cultural, spiritual, sexual, and gender identities. Geographic and temporal focus varies. Course may be repeated for degree credit by permission. Prerequisite: ARTH 100 or by permission. Offered as needed.

328 After the Modern.**Fall (4), Spring (4).**

Examines the relationship between various modernisms and post-modernisms and their impact on art production from the early twentieth century to the contemporary period. Considers concepts such as artist and viewer subjectivity, ethnic and gender asymmetries, as well as the influence of technology, late capitalism, and globalism.

365 Special Topics in Art History.**Fall (2–4), Spring (2–4).**

Topics of current interest in the study of Art History and Visual Culture, such as Art and Memory, Women Artists, Contemporary Architectural Theory, Architecture and Urbanism, History of Italian Gardens, Sacred Mountains, Design for Film and Television, etc. May be repeated for degree credit given a different topic. Offered as needed.

Asian Studies

THE PROGRAM DIRECTOR

Robert Eng

THE FACULTY

Kota Inoue

Yukiko Kawahara

Hongwei Lu

THE ADVISORY COMMITTEE

Graeme Auton, Government

Anne Cavender, English

Heung-Joo Cha, Business

Karen Derris, Religious Studies

Lawrence Finsen, Philosophy

William Huntley, Religious Studies

Xinyan Jiang, Philosophy

Sawa Kurotani, Anthropology

Jack Osborn, Business

Mission Statement

The Asian Studies Program seeks to cultivate an understanding and appreciation of Asia's diverse cultures and contemporary social, political, business, and economic issues. The program emphasizes interdisciplinary approaches, combining the study of languages, humanities, and the social sciences. In addition to the Asian Studies faculty, members of the Advisory Committee, as well as other faculty, regularly offer courses which are credited with fulfilling requirements of the degree(s). For a full listing of Asian Studies-related courses, see "Breadth Courses for the Major and Minor."

The many unique cultures within Asia offer the student distinct perspectives on art, literature, religion, and philosophy, developed through a history dating back thousands of years. The Asian Studies curriculum emphasizes China and Japan. Courses are also offered and encouraged spanning the entire geographic area, which compare and contrast the development and current state of cultures throughout the Asian region.

Learning outcomes for this program may be found at:

www.redlands.edu/academics/college-of-arts-sciences/undergraduate-studies/asian-studies/9438.aspx.

THE MAJOR

Asian Studies (AST) offers an interdisciplinary major, which allows students to combine different types of courses from the list of Asian Studies and Asian Studies cross-listed courses. AST major requirements consist of: 1) sixteen courses of 3-4 credits each, which includes a Senior Capstone project, 2) Asian language proficiency at the third-year completion level, and 3) at least one semester of study abroad.

Bachelor of Arts

I. Coursework Requirement

Students must take sixteen AST and/or AST cross-listed courses of 3-4 credits each, including "depth" courses, "breadth" courses, and a Senior Capstone. Contact an AST advisor for the current list of AST and AST cross-listed courses, which is updated biannually.

1. Depth Courses: Minimum of seven courses that directly contribute to the student's area of emphasis (see Section IV for the definition of the area of emphasis.).

2. Breadth Courses: Minimum of six courses outside the student's area of emphasis, designed to maximize the student's exposure to intellectual diversity within Asian Studies.

3. Senior Capstone: One to two courses for the completion of a Senior Capstone project. Students must contact an AST advisor at the end of the third year to choose between the two options described below. Detailed guideline for Senior Capstone is available through an AST advisor.

Option A) Senior Project—Conducted during the last semester at the University, the senior project is intended to showcase the student's accomplishment as an AST major. Students may choose, in consultation with an AST advisor, to pursue a portfolio, semester-long research project, or other significant project as the culminating experience as an AST major. The project is reviewed by a committee, which consists of three AST and/or AST Advisory Committee faculty. Required: one semester of 400-level Directed Study of 4 credits.

Option B) Honor's Thesis—This option is recommended for majors who are making steady progress in their Plan of Study and highly motivated in their academic work. It requires a major research undertaking conducted through both semesters of the senior year. The thesis is submitted to the committee, which consists of three AST and/or AST Advisory Committee faculty, and considered for departmental honors. To be eligible for Asian Studies honors, students must have at least a 3.45 cumulative GPA in AST major courses. Required: one semester of 400-level Directed Study of 4 credits. Honors students may enroll in up to 8 credits of such directed studies.

*** Restrictions on AST Major Coursework:**

1. At least 8 major courses must be taken with the University of Redlands AST or AST Advisory Committee faculty (including on-campus courses and travel courses).
2. At least 6 major courses must be at the 300-400 levels (including 300-400 level language courses).
3. Maximum of 8 Asian language courses may be included as "Depth" and/or "Breadth" courses.
4. First-Year Seminar that is taught by an AST faculty and has significant Asian content may be included in major coursework.
5. Majors may petition to change any of the above restrictions by explaining in their Plans of Study how such a change would be beneficial for the course of study, subject to approval by the AST Advisory Committee.

II. Language Requirement

Majors must demonstrate proficiency in an Asian language at the third-year completion level. Currently, the Asian Studies Program offers two language programs: Chinese and Japanese. Students who wish to pursue another Asian language must describe in the Plan of Study how they will fulfill the proficiency requirement, subject to approval by the AST Advisory Committee.

III. Study Abroad Requirement

One semester of study abroad in an Asian location relevant to the student's plan of study is required. Relevant courses from study abroad may be counted toward AST coursework, within the restrictions on Coursework Requirement as stated previously.

IV. Plan of Study

The Plan of Study is a tool designed to help AST majors set their own learning goals and map out the course of study toward those goals. Upon declaring the AST major, students will work closely with their AST advisor and develop an individualized plan, which is submitted to the AST Advisory Committee for approval. They are strongly encouraged to have the Plan of Study approved by the end of the second year, and periodically review and adjust the Plan, in consultation with the AST advisor.

The Plan of Study must include the following:

1. **Area of Emphasis**, defined in either of the following two ways:
 - A) **Geographic Area Emphasis** allows for the comprehensive study of a specified geographic/cultural area within Asia.
 - B) **Topical Emphasis** benefits students who want to focus on a significant topic or theme in Asian Studies that reaches across geographic/cultural boundaries. [Students whose area of emphasis would benefit from a greater focus on advanced Chinese or Japanese language study may petition to the AST Advisory Committee to include more than eight language courses in their major coursework.]
2. **Coursework Plan:** Provide a preliminary list of courses that the student plans to take to fulfill the Coursework Requirement. If the plan includes courses that are not regularly offered at the University of Redlands (for example, language courses at levels higher than those currently available at the University, or topics not covered by AST or AST cross-listed courses), the student must explain how he/she plans to complete such coursework.
3. **Asian Language:** Identify how the student plans to meet the Language Proficiency Requirement.

Asian Studies

4. **Plan for study-abroad** that is beneficial to the student's area of study.

V. Recommended Sequence of Study

First and Second Years: Focus on language study and introductory AST and AST cross-listed courses; develop and submit the Plan of Study for approval by the AST Advisory Committee.

Third Year: Increasing emphasis on depth courses; continue language and breadth courses as needed; one- or two-semester study-abroad as stated in the Plan of Study.

Fourth Year: Cross-cultural reflection and conceptualization of experiences abroad; complete all requirements as described in the Plan of Study; the Senior Capstone Project.

THE MINOR

The minor requires completion of at least one year in Chinese or Japanese language study consisting of two courses, and six other courses from the list below. Of the six courses, at least one must be taken at the 300 or 400 level, and the student must take courses from at least two disciplines other than language study.

AST and AST Cross-listed Courses:

- AST 111 Introduction to Asian Literature (4)
- AST 120 Chinese/Japanese Calligraphy (4)
- AST 160 Topics in Asian Studies (3-4)
- AST 211 Contemporary Chinese Film (4)
- AST 212 Modern Chinese Literature (4)
- AST 230 Modern Japanese Literature (4)
- AST 240 Popular Culture of Japan (4)
- AST 260 Topics in Asian Studies (3-4)
- AST 360 Topics in Asian Studies (3-4)
- AST 460 Topics in Asian Studies (3-4)
- BUS 336 International Business (4)
- BUS 451 Government and Business in China (4)
- BUS 452 Japanese Corporations and Global Business (4)
- BUS 457 Strategic Issues in International Business (4)
- BUS 459 Business Policy and Strategy (Asian company projects only) (4)
- CHNS 101-102 Beginning Chinese (Mandarin) (4)
- CHNS 201-202 Intermediate Chinese (Mandarin) (4)
- CHNS 301-302 Third-Year Chinese (Mandarin) (4)
- CHNS 401-402 Fourth-Year Chinese (Mandarin) (4)
- ENGL 119 Intro to World Literature (3-4)
- ENGL 216 Poetry East-West (4)
- GOVT 222 Asian Politics and Development (3-4)
- GOVT 242 Asian International Relations (4)
- GOVT 332 Politics of Japan and Korea (4)
- GOVT 462 Advanced Seminar in Comparative Politics (when dealing with Asia) (4)
- GOVT 464 Advanced Seminar in International Relations (when dealing with Asia) (4)
- HIST 141 Classical Asian Civilizations: China and Japan (4)
- HIST 142 Modern Asian Civilizations: China and Japan (4)
- HIST 240 Modern China (4)
- HIST 242 Modern Japan (4)
- HIST 272 America and Asia (4)
- HIST 274 Vietnam (4)
- HIST 343 China Since 1949 (4)
- HIST 344 The Pacific Rim: Economic Dynamism and Challenge for America (4)
- JPNS 101-102 First-Year Modern Japanese (4)
- JPNS 201-202 Second-Year Modern Japanese (4)
- JPNS 301-302 Third-Year Modern Japanese (4)
- JPNS 401-402 Fourth-Year Modern Japanese (4)
- JPNS 410 Advanced Japanese (4)
- PHIL 150 Introduction to Chinese Philosophy (4)
- PHIL 160 Introductory Topics in Philosophy (when dealing with Asian philosophy) (3-4)
- PHIL 312 Chinese Buddhism (4)
- PHIL 314 Daoism (4)

- PHIL 316 Confucianism (4)
- PHIL 360 Topics in Philosophy (when dealing with Chinese philosophy) (4)
- REL 125 World Religions (3-4)
- REL 225 Intro to South Asian Religion (4)
- REL 233 Buddhisms (4)
- REL 292 Sacred Life Stories in Asian Religious Traditions (4)
- REL 325 Japanese Religion and Arts (3)
- REL 330 Buddhist Literary Imaginations (4)
- REL 411 Masterpieces of Asian Literature (4)
- SOAN 256 Japanese Society and Culture (4)

Other courses from study abroad, the Johnston Center, and First-Year Seminars may be contracted in fulfillment of the Asian studies major and minor.

COURSE DESCRIPTIONS (AST)

111 Introduction to Chinese Literature. Fall (4), Spring (4).

Literature from a variety of genres and periods selected to introduce students to the richness of a 2000-year-old Chinese literary tradition. Special attention to developing critical and analytical skills.

120 Chinese/Japanese Calligraphy. Fall (4), Spring (4).

Chinese and Japanese characters as an art form, from basic strokes to more complex characters and various styles. Students learn traditional methods of writing calligraphy using brush and ink. Emphasis on Japanese or Chinese styles depends on instructor. No prior knowledge of Chinese or Japanese language is required.

160/260/360/460 Topics in Asian Studies. Fall (2-4), Spring (2-4), May Term (3).

Topics of current interest in Asian Studies. Course content varies from term to term. May be repeated for degree credit, given a different topic, for a maximum of 8 credits. Offered as needed.

211 Contemporary Chinese Film. Fall (4), Spring (4).

Examines the cinematic representations of social and cultural transformations of

modern China. Topics include analysis of visual-aural spectacles and their aesthetic merits against a backdrop of materials that deal with historical conditions, ideological underpinnings, cultural practices, and social-economic transformation. Offered every year.

212 Modern Chinese Literature. Fall (4), Spring (4).

Designed to examine the development of modern Chinese literature. The primary goal of the course is to familiarize students with as much of the most representative literary works of 20th-century China as possible and branch out to topics in historical, sociological, and cultural studies. Offered in alternate years.

230 Modern Japanese Literature. Fall (4), Spring (4).

Introduction to translated Japanese literature since 1880. Students read critical books, primarily fiction, both well-known and lesser-known, creating a diverse view of modern Japanese literature. Historically grounded reading is encouraged. Offered as needed. NU only.

240 Popular Culture of Japan. Fall (4) Spring (4).

This course examines contemporary Japanese popular culture to better understand Japanese social practices, values and conceptualization of human relationships and the meaning of life. The topics examined include the mass media, food, and sports using Anime, magna, contemporary films, magazines, and advertisements.

Chinese (CHNS)

101–102 Beginning Chinese (Mandarin). Fall (4), Spring (4).

Chinese language for students with no previous Chinese experience. Introduction to basic Chinese conversation and the Chinese writing system. NU only.

201–202 Intermediate Chinese (Mandarin). Fall (4), Spring (4).

Continuation of 101–102. Prerequisite: CHNS 101–102 or by permission. NU only.

Asian Studies

301–302 Third-Year Chinese (Mandarin). Fall (4), Spring (4).

Intermediate to Advanced Level Chinese. Enables students to communicate ideas and opinions comfortably in Chinese and to advance their reading and writing abilities. Emphasis on authentic materials and task-based activities and exercises. Approximately 800 new words will be introduced. Prerequisite: CHNS 202 or equivalent. NU only.

401–402 Fourth-Year Chinese (Mandarin). Fall (4), Spring (4).

Extensive reading and colloquial/formal usage building are major emphases of the course, while speaking and writing are incorporated in class discussions, oral reports, and essay assignments. Prerequisite: CHNS 302 or equivalent. NU only.

Japanese (JPNS)

101–102 First-Year Modern Japanese.

Fall (4), Spring (4).

First/second semester of first-year Japanese, designed for beginners who have no or little background. Students with previous exposure must take a placement test. Helps students acquire communication skills that are linguistically and culturally appropriate for a college student for everyday situations in Japan. Listening and speaking emphasized. NU only.

201–202 Second-Year Modern Japanese.

Fall (4), Spring (4).

First/second semester of second-year Japanese, designed to help students expand their linguistic and cultural communicative competency. Conceptually complex sentence structures and hard-to-translate expressions are introduced, such as honorific and humble expressions and the passive-causative. Listening and speaking emphasized. Also introduces the basics of Japanese on computer (e-mailing and web sites.) Prerequisite: JPNS 102 or equivalent. NU only.

301–302 Third-Year Modern Japanese.

Fall (4), Spring (4).

First/second semester of third-year Japanese. Organized around reading materials,

and helps students build substantial reading and writing skills. Through class discussions conducted in Japanese on the readings, students develop skills to comprehend written and spoken opinions and to express abstract ideas. Students also learn to use Japanese dictionaries effectively. Prerequisite: JPNS 202 or equivalent. NU only.

401–402 Fourth-Year Modern Japanese.

Fall (4), Spring (4).

First/second semester of fourth-year Japanese. Organized around Japanese reading materials in a wide range of genres and styles. Students learn to read effectively and precisely on various conceptual matters and opinions. Class discussions conducted in Japanese on the course readings help students expand their skills to orally communicate intellectually sophisticated matters. Prerequisite: JPNS 302 or equivalent. NU only.

410 Advanced Japanese.

Fall (3), Spring (3).

Advanced Japanese for students who come back from study abroad in Japan. Designed to help students integrate their experiences abroad into their academic interests. Readings chosen based on students' individual interests. Students learn to read effectively and precisely, and to orally and visually present their individual projects in Japanese. Prerequisite: Study abroad in Japan for at least one semester. Offered as needed. NU only.

Biochemistry and Molecular Biology

THE PROGRAM ADVISORS

James R. Blauth, Biology
 Susan L. Blauth, Biology
 Caryl A. Forristall, Biology
 David P. Schrum, Chemistry
 Linda A. Silveira, Biology
 Debra L. Van Engelen, Chemistry
 Daniel B. Wacks, Chemistry

THE PROGRAM

The program in Biochemistry and Molecular Biology is designed to prepare students for careers in biochemistry and molecular biology, in the related fields of cell biology, microbiology, molecular genetics, or in the health sciences. Students who satisfactorily complete the following courses receive a bachelor of science degree with two majors, one in biology and one in chemistry.

Students who intend to major in the program in Biochemistry and Molecular Biology must file an "intent to major" form with the secretary of the departments of Biology and Chemistry at the time they declare their majors in Biology and Chemistry. This form must be signed by the student and a program advisor from each department.

Learning outcomes for this program may be found at:

www.redlands.edu/academics/college-of-arts-sciences/undergraduate-studies/biochemistry-molecular-biology/9442.aspx.

Bachelor of Science

Degree Requirements

The Biology Department requires each major to submit a contract to the department listing the courses that will be used to complete the degree. Degree contracts must be approved by the end of the second semester of the junior year or, in the case of upper-division transfer students, the end of the first semester of residence.

Biology courses

5 courses 20 credits

- BIOL 131 and 133 Principles of Biology (4) each
- BIOL 239 Molecular Genetics and Heredity (4)

- BIOL 338 Cell Biology (4)
- BIOL 344 Human Physiology (4) OR
- BIOL 334 Comparative Physiology (4)

Two additional 200-300 level biology courses with molecular emphasis 2 courses 8 credits
 Choose from:

- BIOL 325 Medical Genetics (3-4)
- BIOL 326 Neuroscience (3-4)
- BIOL 342 Advanced Molecular Genetics and Genomics (4)
- BIOL 343 Microbiology (4)
- BIOL 345 Immunology (4)
- BIOL 348 Developmental Biology (4)
- CHEM 420 Advanced Biochemistry (4)
- BIOL 260 Topics in Biology (3-4) OR
 BIOL 360 Advanced Topics in Biology (3-4), with permission of a program advisor. A course emphasizing topics in genetics (e.g., BIOL 325 or BIOL 342) is strongly recommended.

Chemistry courses

9 courses 34 credits

- CHEM 131 and 132 General Chemistry (4) each
- CHEM 231 and 232 Organic Chemistry (4) each
- CHEM 320 Biochemistry (4)
- CHEM 330 Analytical Chemistry (4)
- CHEM 331 and 332 Physical Chemistry (4) each
- CHEM 431 Advanced Laboratory (2)

Research

Choose one of the following:

- 6 credits of BIOL 499 Honors Research (2-4) or 6 credits selected from one of the biology research courses (BIOL 403 to 460) and BIOL 394 Biology Seminar (0), BIOL 495-496 Senior Seminar (1).

or

- 3 credits of CHEM 378 Chemistry Research (1-4), and 1 credit of CHEM 478 Senior Research and Thesis (1), and four semesters of CHEM 394 Chemistry Seminar (1).

Biochemistry and Molecular Biology

or

- 6 credits of BLCM 460 Advanced Interdisciplinary Research in Biology and Chemistry (1-3), and BIOL 394 (0), 495-496, (1) or four semesters of CHEM 394 (1).

Note: Research topics must be approved by the departments of Biology and Chemistry.

Related Field Requirements

- MATH 121-122 Calculus I and II (4) each

or

- MATH 118, 119, Integrated Calculus I and II (4) each, MATH 122 Calculus II (4)
- PHYS 220 and 221 Fundamentals of Physics (4) each

or

- PHYS 231 and 232 General Physics I and II (4) each

Course Descriptions (BLCM)

360 Interdisciplinary Research in Biology and Chemistry.

Fall (1-3), Spring (1-3).

Experimental study of project from both a biological and chemical perspective. Three hours laboratory, eighty minutes discussion, three hours independent work. May be repeated for degree credit for a maximum of 9 credits. Prerequisite: by permission. Offered as needed. NU only.

460 Advanced Interdisciplinary Research in Biology and Chemistry.

Fall (1-3), Spring (1-3).

Continuation of experimental study of project from both a biological and chemical perspective. Includes serving as a mentor for student researchers and writing a grant proposal or thesis. Three hours laboratory, eighty minutes discussion, three hours independent work. May be repeated for degree credit for a maximum of 9 credits. Prerequisite: by permission. Offered as needed. NU only.

THE FACULTY

Benjamin Aronson
 James R. Blauth
 Susan L. Blauth
 William Casale
 Caryl A. Forristall
 Candace Glendening
 James R. Malcolm
 Lisa E. Olson
 Bryce Ryan
 Linda A. Silveira
 Lowell Kent Smith
 Brian Spitzer
 Lei Lani Stelle
 Steve Yellon, Senior Associate

THE MAJOR

There are five categories of courses within the biology curriculum, each designed for different needs. The first group (BIOL 102 through 120) consists of courses for non-majors and may include consideration of scientific methodology as well as subject matter of interest to non-scientists. These courses may not be taken for credit toward the bachelor of science or bachelor of arts in biology.

The second category (BIOL 131, 133, and 239) is part of both the major and minor requirements and consists of courses that introduce key aspects of biology.

Courses in the third group (BIOL 250 through 360) are designed to provide a firm foundation in basic sub-disciplines. By careful selection with a faculty advisor, students can tailor a program to fit individual career goals. Note that only Comparative Physiology (BIOL 334) or Human Physiology (BIOL 344) will count toward the biology degree. Similarly, only Vertebrate Anatomy (BIOL 337) or Human Anatomy (BIOL 317) will count toward the biology degree. Most of the courses in this category have prerequisites and are taken by majors, but non-majors who have the prerequisites often enroll.

The fourth category (BIOL 403 through 460) provides an opportunity for biology majors to take part in research under faculty supervision. A two-semester sequence is required of all B.S. majors except those taking departmental honors (BIOL 499).

In courses in the fifth category, the biology seminars (BIOL 394, 495–496), junior and senior students learn about careers in biology, research methods, and present and share the results of their research.

Students entering the biology major are expected to have a 2.0 GPA in courses required for the major, including related field requirements, at the time of declaration. Those who do not meet this requirement may petition to the department.

Learning outcomes for this program may be found at:
www.redlands.edu/academics/college-of-arts-sciences/undergraduate-studies/biology/9444.aspx.

Bachelor of Science Requirements**Bachelor of Science, 40-44 credits**

- BIOL 131 Principles of Biology (4)
- BIOL 133 Principles of Biology (4)
- BIOL 239 Molecular Genetics and Heredity (4)
- Six additional courses from BIOL 250–360, **except** BIOL 341
 Observations in the ER, by contract with department faculty
- BIOL 394 Biology Seminar (0)
- BIOL 495-6 Senior Seminar (1) each
- 6 credits of coursework selected from BIOL 403 through 460, BLCM 460
 Advanced Interdisciplinary Research in Biology and Chemistry, OR departmental honors project work (BIOL 499)

Related Field Requirements:**Chemistry**

4 courses 16 credits

- CHEM 131 General Chemistry (4)
- CHEM 132 General Chemistry (4)
- CHEM 231 Organic Chemistry (4)
- CHEM 232 Organic Chemistry (4)

Math

2 courses 8 credits

Biology

- MATH 121 Calculus I (4) AND
- MATH 122 Calculus II (4)

OR

- MATH 118 Integrated Calculus (4) and
MATH 119 Integrated Calculus II (4) AND
- MATH 122 Calculus II

Physics

2 courses. 8 credits

- PHYS 220 Fundamentals of Physics I (4)
- PHYS 221 Fundamentals of Physics II (4)

OR

- PHYS 231 General Physics I (4)
- PHYS 232 General Physics II (4)

Note: Degree contracts must be approved by the end of the second semester of the junior year or, in the case of upper-division transfer students, the end of the first semester of residence.

Bachelor of Arts Requirements

Students who are not planning post-graduate work in biology may wish to consider the bachelor of arts in biology combined with a major or minor in another discipline.

Bachelor of Arts (47-50 credits)

- BIOL 131 Principles of Biology (4)
- BIOL 133 Principles of Biology (4)
- BIOL 239 Molecular Genetics and Heredity (4)
- CHEM 131 General Chemistry (4)
- CHEM 132 General Chemistry (4)
- CHEM 231 Organic Chemistry (4)
- CHEM 232 Organic Chemistry (4)
- PHYS 220–221 OR 231–232 (8)

Three additional courses

From BIOL 250–360 (except 341), by contract with department faculty

- BIOL 394 Biology Seminar (0)
- BIOL 495 Senior Seminar (1)
- BIOL 496 Senior Seminar (1)
- Completion of Senior Seminar Capstone project

Required second major or minor

A major or minor in another discipline, or an interdisciplinary minor, or equivalent approved by department faculty, is required.

Note: Degree contracts must be approved by the end of the second semester of the junior year, or the end of the first semester of residence in the case of upper-division transfer students.

Program in Biochemistry and Molecular Biology

Please see the Biochemistry and Molecular Biology section of this *Catalog*.

Premedical and Other Health Professions

Premedical students should refer to the Premed Program description in the Integrated Programs of Study section of this *Catalog*.

Teaching Credential Subject Matter Program in Biology

In compliance with federal *No Child Left Behind* legislation, students who wish to be certified to teach science must major in the subject, as well as pass the relevant CSET examination (California Subject Examinations for Teachers; previously the SSAT/PRAXIS). Students earning a Multiple Subject Credential may add subject matter authorization in biology by completing a minor in biology. Students should meet with an advisor in the School of Education for information regarding certification and the teacher preparation program. Most students complete the teacher preparation program, including student teaching, during a fifth year of study. Please refer to the School of Education section of this *Catalog* for further information regarding teaching certification requirements.

THE MINOR

Biology minor

6 courses. 24 credits

- BIOL 131 Principles of Biology (4)
- BIOL 133 Principles of Biology (4)
- BIOL 239 Molecular Genetics and Heredity (4);
- Three additional courses from BIOL 250–360 (except 341), by contract with department faculty.

Advanced Placement in Biology

Students earning a score of three or four on the Advanced Placement (AP) test or a score of five or six on the International Baccalaureate

higher level (IB) test receive 4 credits and fulfill the MS1 Liberal Arts Foundation requirement. Students earning a score of five on the AP or a seven on the IB receive 8 credits and fulfill both the MS1 and MS3 Liberal Arts Foundation requirements. Permission to waive the Biology major requirement for BIOL 131 or BIOL 133 may be granted to students with AP scores of four or five or with IB scores of six or seven based on an interview with department faculty.

Departmental Honors

The Department of Biology offers the opportunity for honors research to those outstanding biology majors desiring to undertake substantive original research during their senior year. Application to pursue honors must be made to the Biology Department during the second semester of the junior year. Students selected for honors will carry out, with the guidance of a member of the department faculty or other departmentally approved professional, an empirical research project that includes:

- problems definition and experimental design;
- literature search;
- laboratory or field data collection and analysis;
- preparation of a manuscript suitable for submission to a selected journal; a public presentation and defense of the project before an examining committee, consisting of members of the department and at least one person outside the department.

More specific guidelines regarding format and a timetable for completion of honors projects are available from the Biology Department.

To be awarded honors, students must complete all components of the project as outlined above at a level of academic performance acceptable to the examining committee.

Study Abroad

Students wishing to study abroad for a semester can usually do so by careful scheduling, arranged with the help of their faculty advisors.

Course Descriptions (BIOL)

030 Principles of Biology Preparation. Fall (1).

Preparation for Biology 131 for students without strong honors or AP courses in high school. Course includes both a discussion section for general chemistry as well as a preview of the material in principles of biology. Corequisite: CHEM 131.

103 Issues and Techniques in Genetic Engineering. Fall (4), Spring (4), May Term (3).

Explanation of current developments in modern molecular biology that affect the lives of non-scientists. Topics such as DNA testing and genetically engineered foods, vaccines, and drugs are discussed. Provides basic information about DNA and an opportunity to perform techniques used in genetic engineering. Offered as needed. .

104 Introduction to Neuroscience. Fall (4), Spring (4).

Emphasis on overriding concepts in understanding how the brain works and the experience of scientific inquiry. Focus on experimental methods, functional anatomy, and neurologic disorders, highlighting what is known about the nervous system. For non-biology majors only. Credit cannot be received for both BIOL 104 and BIOL 326. Offered as needed.

105 The Age of Big Science and Technology. Fall (4), Spring (4).

Study of science and technology rising to become major driving forces in modern life. Analysis of implications. Topics include the atomic bomb, the information age, biotechnology, modern scientific medicine, environmentalism, and geographic information systems. Student presentations. Four hours lecture and discussions. Offered in alternate years.

106 The Nature of Life. Fall (4), Spring (4).

Nonteleological account of life using concepts about genes, protein synthesis, reproduction, sex, and evolution. Three hours lecture. Offered as needed. NU only.

Biology

107 Concepts of Biology.

Fall (4), Spring (4), May Term (3).

Exploration of various concepts selected from evolution, ecology, genetics, physiology, morphology, development, and behavior. Four hours lecture and laboratory.

108 Nature Study. Fall (4), Spring (4).

Biological phenomena observable in natural flora and fauna, including ecology, behavior, life cycles, and evolution. Emphasis on understanding plants and animals observed in nature. Four hours lecture and discussion.

109 Contemporary Issues in Ecology.

Fall (4), Spring (4).

Environmentally oriented issues of current concern as they relate to fundamental generalizations about ecology. Sharpens the layman's critical powers of observation and analysis and provides tools for intelligent decision-making. Three hours lecture, three hours lab. Offered as needed.

110 Human Biology. Fall (4), Spring (4).

Designed to present a general knowledge of the human body in health and disease. Topics include exercise physiology, nutrition, human heredity and genetic testing, mechanisms of disease, cancer, infectious and emerging illnesses, and gene therapy. The format will include lecture-discussion and laboratory experiments. Offered as needed.

111 Introduction to Marine Biology.

Spring (4).

An introduction to the marine environment. Emphasis will be on the geologic history, inhabitants, and ecology of marine ecosystems. Evolutionary history and adaptations of various groups of marine organisms will also be addressed. There will also be several optional field trips to coastal sites. Offered as needed. NU only.

112 Exploring Microbes: The Good, the Bad and the Tiny. Fall (4), Spring (4).

Basic concepts in microbiology are explored by studying organisms, both harmful and beneficial, in our surroundings. Viruses, fungi, and bacteria are studied in the laboratory. Students design and implement a long-term research project during the semester. Offered as needed. NU only.

120 Biology of Exercise and Athletic Performance. Spring (4).

Introduction to the biology of how the human body functions during and adapts to physical activity. Investigates the structure and function of the musculoskeletal, cardiovascular and respiratory systems, the responses of the body to exercise, adaptation to training, metabolism and nutrition, and the causes and prevention of common injuries. In laboratory, students study functional anatomy and conduct physiology experiments; some labs will involve gym activities. Offered as needed. NU only.

131–133 Principles of Biology.

Fall (4), Spring (4).

Introduction to the study of life from molecules, cells, and genes, to functioning organisms in their environments. Laboratory work emphasizes quantitative data collection and analysis while introducing students to biochemical, genetic, physiological, and field techniques. Prerequisite for BIOL 131: CHEM 131 or by permission. Prerequisite for BIOL 133: BIOL 131 or by permission.

160 Introductory Topics in Biology.

Fall (4) Spring (4).

Topics in biology of interest to non-majors.

239 Molecular Genetics and Heredity.

Fall (4), Spring (4).

This course emphasizes the importance of molecular genetics in contemporary biology. Patterns of inheritance, gene structure and function, and techniques using recombinant DNA technology will be emphasized. Laboratory includes classical genetic analysis as well as molecular and biochemical techniques. Prerequisites: BIOL 131-133.

260 Topics in Biology.

Fall (1–4), Spring (1–4).

Topics of current interest in biology are covered. Prerequisite: by permission. Offered as needed.

317 Human Anatomy. Spring (4).

In-depth study of the structure of the human body through lecture/discussions and laboratory exercises. Laboratories will involve examination of anatomical models, dissection of preserved specimens, and field trip for cadaver

examination. Six hours lecture/laboratory. Offered in alternate years. Students may not earn credit in both BIOL 317 and BIOL 337. Prerequisites: BIOL 131-133. NU only.

325 Medical Genetics. Fall (4), Spring (4). Clinical aspects of genetic disease and current issues in medical genetics. Etiology, diagnosis, and treatment of genetic diseases; rare inheritance patterns (anticipation, imprinting); complex genetics (diabetes, obesity, mental illness, cancer); gene therapy; embryonic stem cells/cloning; genetic counseling; ethics; and governmental legislation. Intensive writing and reading of primary literature. No laboratory. Prerequisite: BIOL 239. Offered as needed.

326 Neuroscience. Fall (4), Spring (4). Study of cellular/molecular mechanisms, anatomy, circuitry, and functions of the nervous system. Emphasis on clinical neurology and experimental methods. Includes topics such as the senses, movement, language, emotions, consciousness, and learning. The laboratory includes descriptive and hypothesis testing activities. Credit cannot be received for both BIOL 104 and BIOL 326. Prerequisites: BIOL 131 and 133, or PSYC 300. Offered as needed.

331 Ecology. Fall (4), Spring (4). Analysis of the biotic and abiotic factors controlling the distribution and abundance of plant and animal species. Emphasis on ecological relationships of individuals and populations. Three hours lecture, three hours laboratory. Prerequisite: BIOL 133. Offered in alternate years.

332 Nutrition. Fall (4), Spring (4). The physiology, biochemistry, and practical aspects of nutrition. Current controversial issues in nutrition are also examined. Laboratory includes biochemical, microbial, animal, and human studies. Three hours lecture, three hours laboratory. Prerequisites: BIOL 131-133. Recommended prerequisite: BIOL 239. Offered as needed.

334 Comparative Physiology. Fall (4), Spring (4). Comparison at the cellular, organ, and whole animal levels of physiological adaptations

exhibited by various invertebrate and vertebrate animals, including humans. Three hours lecture, three hours laboratory. Prerequisite: BIOL 133. Offered as needed.

336 Botany. Fall (4), Spring (4). Comprehensive exploration of plants from cellular to organismal level. Topics include anatomy, morphology, fundamentals of physiology, and systematics. Lab work and fieldwork are stressed. Three hours lecture, three hours laboratory. Prerequisite: BIOL 131 or sophomore standing. Offered as needed.

337 Vertebrate Anatomy. Fall (4), Spring (4). Comparative study of vertebrates as whole organisms. Laboratory work is entirely devoted to anatomical structure. Lectures primarily cover morphology and evolution. Six hours laboratory/lecture. Prerequisites: BIOL 131-133 or by permission. Offered in alternate years.

338 Cell Biology. Fall (4), Spring (4). Structure and function of cells, with emphasis on events outside the nucleus. Study of cytoskeleton, bioenergetics, intracellular communication, control of cell division, and sorting of proteins to appropriate organelles. Laboratory includes fluorescence microscopy, in vitro reconstitution of cellular processes, and sub cellular fractionation. Three hours lecture, three hours laboratory/discussion. Prerequisites: BIOL 131-133 and 239, or by permission. Offered in alternate years.

339 Zoology. Fall (4), Spring (4). Investigation of the major animal phyla, illuminating the widely different ways in which functioning animals are constructed. Emphasis on protozoans and arthropods. Dissection is involved. Experience in recognizing and culturing invertebrates. Six hours laboratory/lecture. Prerequisites: BIOL 131-133. Offered as needed.

340 Conservation Biology. Fall (4), Spring (4). Analysis of the ecology, population biology, and behavior that is needed to understand the process of extinction. Prerequisites: BIOL 131-133 or by permission. Offered as needed.

Biology

341 Observations in the ER.

Fall (1), Spring (1).

Provides an opportunity to observe in the emergency room at Loma Linda University Medical Center or Arrowhead County Hospital, and to explore some of the issues generated by those observations. May be repeated for degree credit up to 2 credits, with preference given to non-repeating students. CN only.

342 Advanced Molecular Genetics and Genomics. Fall (4), Spring (4).

Exploration of the analysis of nucleic acid and protein sequence through the use of computer software and high throughput molecular methods. Topics include genome sequencing, the study of gene expression and function, and applications in medicine. Laboratory investigations include transformation of eukaryotes and use of software to identify genes and predict gene function. Prerequisite: BIOL 239 or by permission. Offered as needed.

343 Microbiology. Fall (4), Spring (4).

Study of microorganisms: their structure, taxonomy, metabolism, genetics, and interactions with humans. Laboratory includes cell culture, microbe isolation and identification, and bacterial genetics. Six hours lecture/laboratory. Prerequisites: BIOL 131–133 and 239, or by permission. Offered as needed.

344 Human Physiology.

Fall (4), Spring (4).

Functioning of the human body at the cellular, systems, and whole animal level. Emphasis on nervous, endocrine, renal, and cardiovascular systems and their interrelationships. Prerequisites: BIOL 131–133. Offered as needed.

345 Immunology. Fall (4).

Study of the physiological, molecular, and cellular basis of host defense. Emphasis will be on the human immune system and its pathogens. Diseases of the immune system, such as diabetes, multiple sclerosis, lupus, and AIDS will also be examined. Prerequisites: BIOL 131, 133, and BIOL 239.

346 Aquatic Biology. May Term (3).

Ecology, ecological physiology, and natural history of selected aquatic organisms. Biology of rivers, lakes, and the marine intertidal and sub tidal zones. Introduction to physical oceanography, limnology and potamology. Implications for water pollution control, water resource development, and water-related human activities. Field trips. Two hours lecture, six hours laboratory. Recommended: BIOL 331, 336, 339. Offered in alternate years.

348 Developmental Biology. Spring (4).

Descriptive and experimental approach to the development of selected vertebrate and invertebrate animals from fertilization through aging. Three hours lecture, three hours laboratory. Prerequisites: BIOL 131, 133, and BIOL 239 or by permission. Offered as needed.

350 Plant Ecology. May Term (3).

Interactions of plants with their environment at population, community, and ecosystem levels. Exploring plant communities in a selected region, considering land use history, discussing regional conservation and restoration challenges, and learning methods of plant ecology fieldwork. Fieldwork-intensive, with observations complementing lecture and discussion. Two hours lecture, four hours fieldwork. Prerequisite: BIOL 133 or EVST 100.

352 Animal Behavior.

Fall (4), Spring (4).

Evolution of social behavior, with an emphasis on the ecological factors that mold species' social organization. Three hours lecture, three hours laboratory. Prerequisite: BIOL 133 or by permission. Offered as needed.

353 Biological Evolution.

Fall (4), Spring (4).

Analysis of the status of neo-Darwinism, emphasizing areas of controversy. Essays and problem sets provide training in evolutionary reasoning. Three hours lecture. Prerequisites: BIOL 133 and 239, or by permission. Offered as needed.

360 Advanced Topics in Biology.**Fall (4), Spring (4).**

Recent research developments in biology. An in-depth analysis of the primary literature and the interconnection of fields commonly divided into separate courses will be emphasized. Topics vary with semester. Examples include human genetics, developmental genetics and cancer biology. Prerequisites: BIOL 239 and by permission. May be repeated for degree credit for a maximum of 8 credits with the instructor's permission. Offered as needed.

394 Biology Seminar. Spring (0).

Recent advances in biology presented in a seminar format by Redlands faculty, seniors, and visiting scholars. CN only.

403 Research in Molecular and Cellular Biology. Fall (1–3), Spring (1–3).

Genes, proteins, and cellular processes studied through experimental work. One discussion period, three hours laboratory, additional independent laboratory time expected. Prerequisite: by permission. May be repeated for degree credit for a maximum of 6 credits. Offered as needed.

404 Research in Evolution and Behavior of Vertebrates. Fall (2–3), Spring (2–3).

Evolution and/or behavior of selected vertebrates studied through experimental work. One discussion period, three hours laboratory, additional independent laboratory time expected. May be repeated for degree credit. Prerequisites: BIOL 239 and by permission. Offered as needed.

405 Research in Molecular Biology of Development. Fall (3), Spring (3).

Research in developmental biology of vertebrate embryos using molecular and embryological techniques. One discussion period, three hours laboratory, additional independent laboratory time expected. Prerequisite: by permission. May be repeated for degree credit for a maximum of 6 credits. Offered as needed.

406 Research in Biosystems Modeling. Fall (2–3), Spring (2–3).

Analysis modeling and simulation of biological systems, with emphasis on use of computers. Applications to actual design and planning projects. One discussion period, three hours laboratory, additional independent laboratory time expected. May be repeated for degree credit. Prerequisite: by permission. Offered as needed.

408 Research in Physiology of Vertebrates. Fall (2–3), Spring (2–3).

Physiological analysis of selected vertebrate systems studied through experimental work. One discussion period, three hours laboratory, additional independent laboratory time expected. Prerequisite: BIOL 334 or 344 or by permission. Offered as needed.

460 Research Topics in Biology. Fall (1–3), Spring (1–3).

Selected areas of biology studied through experimental work. Areas selected range from the molecular cellular level, to plants and animals, to ecology and the environment. One discussion period, three hours laboratory, additional independent laboratory time expected. May be repeated for degree credit for a maximum of 6 credits. Offered as needed. NU and EV only.

495–496 Senior Seminar. Fall (1), Spring (1).

In the fall, the course covers B. A. capstone and career development. In the spring, seniors present their capstone projects (B.A.), senior research (B.S.), or honors projects. CN only.

499 Honors Research Project (2-4).

Business Administration

THE FACULTY

Heung-joo Cha
 Jeffrey Fear
 Jack Osborn
 Jill Robinson
 Scott E. Randolph
 Vernon Stauble
 Mara Winick

THE MAJORS

The department offers a bachelor of arts in Managerial Studies, a bachelor of science in Business Administration, and a bachelor of science in Global Business. Department classes may be taken toward the major upon completion of the prerequisite courses with a 2.0 or higher GPA in each course.

Students entering the major are expected to have a 2.7 cumulative GPA on a 4.0 scale. Transfer students are expected to have a 2.7 average from their previous school(s). A 2.0 in each prerequisite course also applies. This includes both prerequisites to the major and individual course prerequisites.

Learning outcomes for this program may be found at:

www.redlands.edu/academics/college-of-arts-sciences/undergraduate-studies/business-administration/9446.aspx.

Prerequisite Course Requirements

We advise students to complete the majority of their prerequisite courses no later than the spring of their sophomore year. BUS 226 should be taken early, followed by BUS 240. Transfer students must take BUS 226 in their first semester, unless exempted by either chair.

All prerequisite courses must be taken for a numerical grade and students must earn a minimum grade of 2.0 in each course.

The Bachelor of Arts in Management

This program provides students with an understanding of the complex environment in which organizations function as well as the challenges that decision makers face in organizations. The program is designed for students who are pursuing two majors, and thus requires a second major of the student's choosing.

Students interested in careers such as public relations, advertising, corporate event planning and trade fairs; the arts, museum management or public history; and health-care are encouraged to select a second major that will provide a depth of knowledge or a specific skill set. Recent B.A.s in Management have fulfilled this requirement with majors in fields such as Studio Art, Visual & Media Studies, Theatre, History, Creative Writing, Biology, and Psychology.

Requirements

Prerequisite Courses

The following courses are prerequisites for entering the major and some also satisfy Liberal Arts Foundation requirements:

- ECON 250 Principles of Microeconomics (3-4) OR ECON 251 Principles of Macroeconomics (4)
- BUS 136 Principles of Global Marketing (4)
- BUS 226 The Rise of American Capitalism 1860-1932 (4)
- ACCT 210 Principles of Financial Accounting and Reporting (4)
- BUS 240 OR ACCT 240 Business Law (4)

Core Courses

6 courses 22-24 credits

- BUS 136 Global Marketing (4)
- BUS 310 Principles of Management and Organization Behavior (4)
- BUS 336 International Business (4) OR other approved International course
- BUS 434 Applied Business Ethics (4) OR other approved ethics course
- BUS 430 Human Resource Management (4)
- BUS 458 Business Policy and Strategy (4)
- One additional 300- or 400-level course in BUS/ACCT (2-4).

Second Major Requirement

To graduate with a B.A. in Management, students must complete a second major program with 28 unique credits in each.

Please note that students may not pursue a double major through the Bachelor of Arts programs in Environmental Business and

Management. Students pursuing expertise in both of these disciplines could consider a B.S. in Business Administration or Environmental Science with a minor or second major in the other field.

The Bachelor of Science in Business Administration

Students interested in pursuing careers where financial, industry, marketing or public sector analysis are important are encouraged to pursue a B.S. in Business Administration. This program provides students with a comprehensive view of the inner workings of corporate, non-profit, and governmental organizations, as well as the complex legal and strategic environments in which they function. Students enrich core study in organizational operations through the selection of advanced quantitative skills courses.

The bachelor of science helps prepare students for decision making and leadership roles in business and public service. Students with the bachelor of science degree pursue graduate study in business, health care, sports management, human resources, and law, among others.

Requirements

Prerequisite Courses

The following courses are prerequisites to the required major courses. Some also satisfy Liberal Arts Foundation requirements. Business 226 must be completed with a grade of 2.0 or better before declaring the major.

- ECON 250 Principles of Microeconomics (3-4)
- ECON 251 Principles of Macroeconomics (4)
- ECON 200 Introduction to Statistical Methods (4), MATH 111 Elementary Statistics and Probability with Applications (4), OR PSYC 250 Statistical Methods (4)
- ACCT 210 Principles of Financial Accounting and Reporting (4)
- ACCT 220 Principles of Managerial Accounting (4)

- BUS 226 The Rise of American Capitalism 1860-1932 (4)
- BUS 240 or ACCT 240 Business Law (4)

Core Courses

7 courses 28 credits

- BUS 136 Principles of Global Marketing (4)
- BUS 310 Principles of Management and Organization Behavior (4)
- BUS 336 International Business (4) OR another advisor-approved International course
- BUS 353 Managerial Finance (4)
- BUS 430 Human Resource Management (4)
- BUS 434 Applied Business Ethics (4) OR other approved business ethics course
- BUS 459 Business Policy and Strategy (4)

Advanced Analysis

1 course 3-4 credits

At least one of the following:

- BUS 354 Investments (4)
- BUS 421 Corporate Finance (4)
- ACCT 315 Advanced Managerial Acct (4)
- ECON 300 Econometrics (4)
- MATH 222 Vector Calculus (3)
- CS 301 Business Analysis and Excel (3)

Advanced Elective Courses

2 courses 8 credits

At least two 300- or 400-level courses in Business, Accounting or related field outside the major that have relevance thereto, upon signed advisor approval.

The Bachelor of Science in Global Business

The major in Global Business prepares students for a career in international business, public and not-for-profit service, as well as graduate study in a number of disciplines including law, finance, business, and government.

Global Business is presented as a process of understanding how cultures and political systems manage their economics, and the rules and procedures that nations create to permit and encourage businesses to operate

Business Administration

within their borders. To understand foreign business situations, an emphasis is placed on developing knowledge of and sensitivity to both the cultural and political climates of host countries.

Students completing the Global Business major will gain an understanding of:

- Organizations operating beyond their domestic borders;
- Problems and opportunities faced by developing nations as they attempt to grow their economies; and
- Selected major trading relationships of the United States (China, Mexico, Japan, the EU); the major trading blocs (e.g., NAFTA, the European Union, MERCOSUR, etc.); the major U.S. and world agencies that support global trade, development, and investment; and the positive and negative impacts that all these entities have on national cultures, standards of living, civil liberties, and business in general.

Students are encouraged to develop a geographic area of emphasis or concentration through interdisciplinary study. Linked to the academic study of issues and practices are the requirements that students become proficient in a second language and that they study abroad. Approval from either the Global Business Hunsaker Chair or the Business Department Chair is required for all interdisciplinary and overseas-study aspects of the degree.

Requirements

Prerequisite Courses

The following courses are prerequisites to the required major courses. Substitutions to these requirements can be made only with the written approval of the Hunsaker Chair of Management or the Department Chair. Some also satisfy Liberal Arts Foundation requirements.

- BUS 136 Principles of Global Marketing (4)
- ECON 250 Principles of Microeconomics (3-4)
- ECON 251 Principles of Macroeconomics (4)
- BUS 226 The Rise of American Capitalism

1860-1932 (4)

- BUS 240 OR ACCT 240 Business Law (4)
- MATH 121 Calculus I (4) OR MATH 118 AND MATH 119 Integrated Calculus (8)
- ECON 200, MATH 111, or another approved statistics course (4)
- ACCT 210 Principles of Financial Accounting (4)
- ACCT 220 Principles of Managerial Accounting (4)

Core Courses

8 Courses 30-32 credits

- BUS 310 Principles of Management and Organization Behavior (4)
- BUS 336 International Business (4)
- BUS 353 Managerial Finance (4) OR ACCT 315 Advanced Managerial Accounting (4)
- BUS 457 Strategic Issues in Global Business (4)
- BUS 459 Business Policy and Strategy (4)
- Two additional 400 series Advanced International Business courses (includes possible study abroad courses) (3-4 credits each)
- Three International Courses: At least three International courses chosen from the following areas: Economics, Environmental Studies, History, Government, Art, Asian Studies, Latin American Studies, Psychology, International Relations, Sociology and Anthropology, or Religion; at the 300 series level or above. The department is open to International courses from other disciplines, subject to relevance.

Additional Requirements

- Study Abroad: Minimum of one semester abroad, with additional study abroad recommended and supported by the department.
- Language proficiency: Testing placement at the entry point to the 400 level of a foreign language by graduation.
- Foreign language study: All students must take at least 8 credits of a foreign language.

Students who are already proficient may take the required 8 credits either in the language in which they are proficient or in another language.

- The expectation of the major is that students will take at least 8 credits of language relevant to their area of concentration.

THE MINOR IN BUSINESS ADMINISTRATION

The following courses are required for a minor in business administration.

7 courses 28 credits

- ECON 250 Principles of Microeconomics (3-4) OR ECON 251 Principles of Macroeconomics (4)
- BUS 136 Principles of Global Marketing (4)
- BUS 226 The Rise of American Capitalism 1860-1932 (4)
- BUS 240 OR ACCT 240 Business Law (4)
- ACCT 210 Principles of Financial Accounting and Reporting (4)
- BUS 310 Principles of Management and Organization Behavior (4)
- One additional course in accounting or business

Internships

The department encourages all business administration juniors and seniors to consider internships as opportunities to enhance their academic program. Internships allow students to explore career possibilities and integrate classroom learning with practical experience. Students should contact their faculty advisors for more information. To receive academic credit for any business internship, students must complete an organizational and industry audit as detailed in the department internship materials.

Study Abroad

Study abroad greatly enhances the undergraduate experience for all business students. The department encourages study abroad as well as advance planning for doing so. Early consultation with an advisor will allow for meaningful integration of one's international and university studies.

Travel Abroad

The faculty regularly offers May Term travel courses to Asia and Europe. These courses expose students to both cultural and business issues through interaction with government officials, industry leaders, and scholars. Cultural and industrial site visits are extensive.

Departmental Honors

Applications are accepted in the junior year from majors of high academic achievement who desire to work toward departmental honors. Successful applicants will work one-on-one with a member of the business faculty to complete a research project. In addition, their research project will be supported and reviewed by an advisory board of faculty and outside experts selected by the student and approved by the Honors advisor. To qualify for University honors, a student must complete an honors project within the department.

Course Descriptions (BUS)

136 Principles of Global Marketing. Fall (4), Spring (4).

Marketing concepts with emphasis on marketing management. Explores marketing strategies involving the variables of the marketing mix (product, pricing, promotion and distribution), coordinated and integrated across multiple country markets. Examines the distinctive differences, influences and issues faced by companies when conducting marketing activities in the domestic and global environment.

169 Special Topics in Business.

Fall (1-4).

Reflection of various issues and trends in business. Topics may vary from offering to offering. CN only.

226 The Rise of American Capitalism 1860-1932. Fall (4), Spring (4).

Examines the conflicts surrounding the amassing and distribution of capital. The growth of U.S. corporations, the rise of labor, and the evolution of the regulatory powers of the Federal and State governments are examined. Four lenses: economic, political, organizational, and biographical, are used to examine the subject.

Business Administration

240 Business Law. Fall (4), Spring (4).

An introduction to the American legal system, our constitutional framework, the role of judicial decisions, and statutory law. Special emphasis is placed on business torts and contract law, along with other concepts important in the business world. ACCT 240 may be taken in lieu of BUS 240. Prerequisite: BUS 226 or by permission.

310 Principles of Management and Organization Behavior.

Fall (4), Spring (4).

Dynamics of individual and group behavior are explored, in addition to selected topics of entrepreneurship, technology, and strategic planning. Students are asked to view the internal workings of organizations as well as to consider organizations in a larger, more global context. Classic and modern texts are used. Prerequisites: BUS 136, ACCT 210, and junior standing or by permission.

312 Leadership. Fall (4). May Term (3).

Reflects the growing interest in leadership and the leadership process. Students explore the topic from multiple perspectives. Theory and myths are confronted as students search for their own path and assess their own unique styles. Students will also conduct original research, including posing and testing hypotheses. Prerequisite: BUS 310 or by permission. Offered in alternate years.

332 The Business of Food. May Term (3).

Global food production, delivery and consumption are explored with guest experts and through company visits. Special topics include food science, food politics, super-market and restaurant concepts.

336 International Business.

Fall (4), Spring (4).

Examines the relationship of world, regional, and national institutions and cultures to businesses operating within their environments. The major trading blocs of NAFTA and the European Union are studied, as well as the nature of trade and business with and within China, Japan, Mexico, and the European Union. Prerequisites: BUS 226 and junior standing or by permission.

342 Consumer Behavior.

Fall (4), Spring (4).

Exploration of the behavior of consumers and buyer behavior in general, stressing individual issues, social/cultural influences, decision-making processes, and related market research. Prerequisites: BUS 131 and a department-approved statistics course or by permission. Not regularly offered.

353 Financial Management.

Fall (4), Spring (4).

Study of financial planning and analysis, taxation, capital budgeting, risk and cost of capital, cash flow analysis, management of working capital and long-term funds, dividend policy and valuation. Prerequisites: ACCT 220, ECON 250, 251, and a department-approved statistics course or by permission.

354 Investments. Fall (4).

The course examines investment analysis and portfolio management through the study of the nature and functioning of securities markets, alternative investment opportunities, valuation of stock, fixed income securities, derivative securities. Prerequisite: BUS 353 or by permission.

360 The Regulatory Environment of Business. Fall (4) or Spring (4).

Administrative law: the rules, regulations, procedures, orders and decisions created by federal administrative agencies. Consideration of the Administrative Procedure Act, judicial review, and constitutional framework. Prerequisites: BUS 240 or ACCT 240 and junior standing, or by permission. Not regularly offered.

362 Social Entrepreneurship.

Fall (4), Spring (4).

Indigenously managed, self-sustaining micro-lending and enterprise programs are the focus of this course on building social capital. Prerequisites: ECON 250, ACCT 210 and BUS 136, or by permission.

363 Business in Film. May Term (3).

Students will embark on a guided journey of discovery that examines our perceptions of work, organizations, and cultures as influenced by film. Students will draw upon secondary research as well as class discussion to critically analyze the content and messages of the film. Prerequisites: BUS 226, BUS 240 or ACCT 240 or by permission.

369 Special Topics in Business.

Fall (2–4) or Spring (2–4),

May Term (2–3).

Reflection of various issues and trends in business. Topics vary from offering to offering. Prerequisite: by permission. May be repeated for degree credit given a different topic.

421 Corporate Finance. Spring (4).

This course studies financial management in the corporate setting at an advanced level. Topics include the firm's investment and financing decisions, capital budgeting analysis, investment analysis under uncertainty, the cost of capital, capital structure theory, dividend policy, and other current topics in finance. Prerequisite: BUS 353 or by permission.

430 Human Resource Management.

Fall (4), Spring (4).

Issues in work-force management, including staffing, employment equity, performance appraisal, compensation, employee benefits, training, and development. Prerequisites: BUS 240 or ACCT 240, BUS 310, senior standing, or by permission.

434 Applied Business Ethics.

Fall (4), Spring (4).

Exploration of applied ethics in the business environment. Students will be introduced to the formal study of business ethics and then apply that knowledge to a variety of historical and contemporary case studies. Prerequisites: BUS 310 and junior standing.

444 Organizational Change: Non-Profit Initiatives. Fall (4).

Organizations seek lasting and meaningful change—none more than non-profits, many of whose existence revolves around social change. This course focuses on non-profit

change initiatives, both currently underway and by student directive. Social responsibility issues may include global warming, AIDS, poverty, world hunger or environmental concerns. Offered in alternate years.

450 The European Union.

Fall (4) or Spring (4).

Focuses on European institutions and the conduct of business within the Union, beginning with the 1991 Maastricht Treaty. The impact of anti-trust policy and trade relations with the United States is followed closely. Prerequisites: junior standing or by permission. Offered every year.

451 Government and Business in China.

Fall (4) or Spring (4).

Examines the evolution of economic and political reforms beginning with the rise of Deng Xiaoping in 1976. Hong Kong's integration, relationship with Taiwan, rise of Shanghai, state-owned enterprises, and foreign direct investment are considered in the context of foreign corporations conducting business in China. Prerequisite: junior standing or by permission.

452 Japanese Corporations and Global Business. Fall (4), Spring (4).

Covers operating styles in the management of Japanese firms, the relationship of major Japanese corporations to the Government of Japan, and the direct investment of Japanese firms in both developed and developing nations. Prerequisite: junior standing.

453 International Negotiations.

May Term (3).

Intended to introduce students to the fundamentals of negotiation and to create awareness of critical cultural points in international negotiations. Lenses through which the process will be viewed include: the individual entrepreneur, small companies, major corporations, and that of a customer. Prerequisites: BUS 240, BUS 336, or equivalent.

457 Strategic Issues in Global Business. Spring (4).

Selected current topics and their impact on business operations are explored in depth. This course emphasizes the need for

Business Administration

businesses to closely monitor and develop both an understanding and sensitivity to major social, cultural, environmental, and political issues. Prerequisites: senior standing, global business major or by permission.

458 Business Policy and Strategy for Bachelor of Arts Majors. Spring (4).

Capstone course which incorporates student experiences in both managerial studies and second major courses. The course examines the way organizations, including non-profits, develop their visions, direction, goals, strategies and tactics. The emphasis is on the ways organizations develop and execute effective strategies and evaluate success. Prerequisites: BUS 240 or ACCT 240, BUS 310, BUS 336, or other approved course, or by permission.

459 Business Policy and Strategy for Bachelor of Science Majors. Spring (4).

Capstone course requiring students to integrate their knowledge of finance, law, accounting, and organizational and behavioral studies, and apply these topics to the development of business strategies in national and global contexts. Prerequisites: BUS 240 or ACCT 240, ACCT 220, BUS 353 or ACCT 315 (which can be taken concurrently), BUS 336, or other approved course or by permission.

469 Advanced Topics in Business.

Fall (2-4), Spring (2-4), May Term (2-3).

Designed to reflect curriculum trends and issues. Continuation of select upper-division courses allowing students to pursue topics in business and accounting beyond one semester. Prerequisites: junior standing and by permission. May be repeated for degree credit, given a different topic, for up to 4 credits. Offered as needed. NU only.

489 Business Administration Internship.

Fall (1-3), Spring (1-3), May Term (1-3).

Internship and academic work under faculty direction. Prerequisite: junior or senior standing.

THE FACULTY

J. Henry Acquaye
 Teresa L. Longin
 Rebecca A. Lyons
 Barbara Murray
 David P. Schrum
 David P. Soulsby
 Debra L. Van Engelen
 Daniel B. Wacks

THE MAJORS

Learning outcomes for this program may be found at:

www.redlands.edu/academics/college-of-arts-sciences/undergraduate-studies/chemistry/9448.aspx.

Bachelor of Science Requirements

18 courses 46 credits

- CHEM 131 General Chemistry (4)
- CHEM 132 General Chemistry (4)
- CHEM 231 Organic Chemistry (4)
- CHEM 232 Organic Chemistry (4)
- CHEM 330 Analytical Chemistry (4)
- CHEM 331 Physical Chemistry (4)
- CHEM 332 Physical Chemistry (4)
- CHEM 378 Chemistry Research (1), at least 3 credits. Students must register for at least 1 credit of CHEM 378 no later than the May Term of the junior year
- CHEM 394 Chemistry Seminar (1)
4 semesters and a satisfactory thesis
- CHEM 431 Advanced Chemistry Lab (2)
- CHEM 445 Inorganic Chemistry (4)
- CHEM 478 Senior Research and Thesis (1)
Typically taken in the spring of the senior year
- One additional course numbered above 300

Related Field Requirements

4 courses 16 credits

- MATH 119 Integrated Calculus II (4) OR MATH 121 Calculus I (4)
- MATH 122 Calculus II (4)

Take either:

- PHYS 220 Fundamentals of Physics I (4) AND PHYS 221 Fundamentals of Physics II (4)

OR

- PHYS 231 General Physics I (4) AND PHYS 232 General Physics II (4)

Recommended:

- MATH 221 Calculus III (4)
- MATH 235 Differential Equations (4)
- MATH 241 Linear Algebra (4)
- PHYS 233 General Physics III (4)

The ACS-Approved Major

The Chemistry Department is accredited by the American Chemical Society (ACS). To be certified as having met the requirements for professional training in chemistry established by the Committee for Professional Training of the ACS, a student must complete the following courses in addition to completing the Bachelor of Science requirements and related field requirements described above: CHEM 320, one additional course numbered above 300 (CHEM 345, 425, or 460).

Program in Biochemistry and Molecular Biology

Please see the Biochemistry and Molecular Biology section of this *Catalog*.

Teaching Credential Subject Matter Program in Chemistry

In compliance with the *No Child Left Behind* legislation, students who wish to be certified to teach science must pass the relevant CSET examination (California Subject Examinations for Teachers). Although many students complete the teacher preparation program, including student teaching during a fifth year of study, it is possible to blend teacher credential coursework in the School of Education into one's undergraduate plan. Interested

Chemistry

students should meet with an advisor in the School of Education for information regarding certification and the teacher preparation program. Please refer to the School of Education section of this *Catalog* for further information regarding teaching certification requirements.

THE MINOR

Requirements

6 courses. 26 credits

- CHEM 131 General Chemistry I (4)
- CHEM 132 General Chemistry II (4)
- CHEM 231 Organic Chemistry I (4)
- CHEM 232 Organic Chemistry II (4)
- At least two other courses totaling at least 6 credits. One of these courses must be a laboratory course.

Acceptable laboratory courses include: CHEM 301 Quantitative Chemistry and Analysis (4), CHEM 320 Biochemistry (4), CHEM 330 Analytical Chemistry (4), CHEM 331 Physical Chemistry I (4), CHEM 431 Advanced Laboratory (2). Acceptable non-laboratory courses include: CHEM 332 Physical Chemistry II, CHEM 420 Advanced Biochemistry, CHEM 425 Advanced Organic Chemistry (4), or CHEM 445 Inorganic Chemistry (4).

Advanced Placement in Chemistry

Students who receive a score of four or higher on the Advanced Placement Test may be offered credit for CHEM 131 on the approval of the Chair.

Study Abroad

Studying chemistry in another country gives a student the opportunity to experience different scientific and cultural viewpoints, as well as providing exposure to a different style of education. It can be a valuable experience, one that develops maturity and greater independence. Most international programs require junior standing and at least a 3.00 GPA. Careful advanced planning is necessary to integrate chemistry courses taken abroad with those taken at Redlands. Consult an academic advisor in the Chemistry

Department and contact the Office of Special College Programs for advice and information.

Departmental Honors

Every chemistry major must undertake a research project and complete a senior thesis. The Chemistry Department seeks to recognize academic excellence and outstanding achievement in undergraduate research by encouraging chemistry majors with strong academic records to present their senior thesis work for honors in chemistry.

To apply for honors, a student must have a minimum GPA of 3.45 (cumulative or in chemistry), complete a written thesis, and pass an oral examination on the thesis.

Research in the Chemistry Department

The faculty of the Chemistry Department pursue research on a wide variety of projects. Students may choose to conduct research on computational chemistry, synthetic organic chemistry of natural products, synthesis and methodology developments, inorganic chemistry, the physical chemistry of membrane transport processes, development of analytical techniques using capillary electrophoresis, separation and ultra trace detection of biologically active molecules, detecting and modeling trace pollutants in environmental systems, and microbial carbon metabolism.

Course Descriptions (CHEM)

101 Mother Earth Chemistry. May Term (3).

Designed for anyone interested in learning the chemistry and practice of simple arts like wine making, beer brewing, cloth dyeing, and the making of soap, cheese, yogurt, and high protein foods derived from soybeans (such as tofu and tempeh). Emphasis on learning by doing. No background in chemistry is required; recommended for non-science majors. Offered as needed.

102 Introduction to Chemistry of the Environment. Fall (4), Spring (4).

Introductory course for students wishing to explore the sciences or needing preparation for General Chemistry. Topics in chemistry relevant to the environment, such as energy

needs, pollution, pesticides, and polymers, will be discussed. Three hours lecture. No background in chemistry is required; recommended for non-science majors. NU only.

103 Chemistry of Art. May Term (3).

For students interested in exploring the link between chemistry and art. Students investigate topics such as color, light, the photochemistry of photography and fading, the physical and chemical properties of metals and alloys, natural and synthetic dyes, clays, ceramics, authentication of works of art, and conservation of art. Three hours lecture and laboratory. No background in chemistry is required; recommended for non-majors. Offered as needed.

104 Whodunit! A Course in Forensic Science. Fall (4), Spring (4).

A course in forensic science intended to introduce the student to the role science plays in the criminal investigation process and the criminal justice system. This course will present the techniques, skills, and limitations of the modern crime laboratory for students with no background in the sciences. Offered as needed.

106 Topics in Science and Society. Fall (4), Spring (4).

Study of the nature of scientific investigation and its relationship to societal and individual needs. Specific scientific discoveries, philosophies, and moral theories are discussed. Examination of the interactions of the scientific world communities, through the analysis of current controversial areas of research and technology.

108 The Science of Drugs. Fall (4), Spring (4).

Introductory course intended to expose students to the action of various drugs and their effects on the body with a focus on achieving a molecular-level understanding of drugs. Various drugs ranging from caffeine to alcohol to street drugs will be studied. Intended for non-science majors. Offered as needed.

131–132 General Chemistry. Fall (4), Spring (4).

Introduction to chemistry, including properties, structure, and reactivity of atoms and molecules, with concurrent laboratory. First semester covers fundamental concepts of atomic structure, stoichiometry, aqueous reactions, states of matter, molecular structure and bonding, and thermochemistry. Second semester emphasizes group projects in equilibrium, electrochemistry, thermodynamics, kinetics, inorganic synthesis, and spectroscopy. Fall: four hours lecture, three hours laboratory. Spring: seven hours laboratory and group learning. Prerequisites for CHEM 131: high school algebra and trigonometry. Prerequisite for CHEM 132: CHEM 131 or by permission. Required for students majoring in biology, chemistry, or physics.

231–232 Organic Chemistry. Fall (4), Spring (4).

Chemistry of carbon-containing compounds; their structure, nomenclature, physical properties, spectroscopy (IR, GC-MS, NMR), stereochemistry, chemical reactivities, mechanisms of reaction, and synthesis. Four hours lecture, three hours laboratory. Prerequisite: CHEM 132. Prerequisite for CHEM 232 is CHEM 231.

260 Environmental Chemistry Field Experience. May Term (3).

Topics of interest in chemistry that fall outside the regular curriculum. These offerings may include research field experiences, environmental modeling, GIS and mapping, or other approved topics.

301 Quantitative Chemistry and Analysis. Spring (4).

Equilibrium, oxidation-reduction, acid-base chemistry specifically designed with applications in biology, clinical chemistry, or environmental analysis. Laboratory experience covers sample preparation, titrations, statistical analysis, and an overview of instrumental methods used in these applied fields, including molecular UV/Vis and atomic absorbance spectroscopy, fluorometry, ion electrodes, gas and liquid chromatography, and electrophoresis. Prerequisites: CHEM 132

Chemistry

and college algebra, or equivalent. Offered as needed. NU only.

320 Biochemistry. Fall (4).

Study of the structure and function of biological molecules (including proteins, nucleic acids, carbohydrates, and lipids), enzymes, and metabolic pathways. Four hours lecture, three hours laboratory. Prerequisite: CHEM 232 or by permission.

330 Analytical Chemistry. Fall (4).

Principles of analytical chemistry with emphasis on precise measurements and instrumental methods, including molecular and atomic absorption spectrometry, potentiometric and electrolytic methods, separation techniques, chromatography, mass spectrometry, and other specialized instrumental techniques. Experimental design, sampling, and error reduction are studied along with statistical methods of evaluating uncertainty in laboratory results. Prerequisites: CHEM 232 and MATH 119 or MATH 121 or by permission.

331 Physical Chemistry I. Spring (4).

Quantum chemistry and statistical thermodynamics applied to the study of the physical and chemical properties of matter. The laboratory involves the systematic study of the theory and practice of modern spectroscopic methods. Four hours lecture and three hours laboratory. Prerequisites: CHEM 132, MATH 122, and PHYS 232 (or 221) or by permission.

332 Physical Chemistry II. Fall (4).

Equilibrium thermodynamics and kinetics applied to the study of the physical and chemical properties of matter. CHEM 331 need not be taken before CHEM 332. Prerequisites: CHEM 132, MATH 122, and PHYS 232 (or 221) or by permission.

378 Chemistry Research.

Fall (1–4), Spring (1–4), May Term (1–3).

Chemistry majors are required to complete 3 credits for graduation. Prerequisite: written permission required. CN only.

394 Chemistry Seminar.

Fall (1), Spring (1).

Required of majors during junior year and senior year, Fall and Spring. Activities include

seminars by visiting faculty, discussions of current research, and preparation for the major field exam. Juniors prepare a seminar on their proposed senior research. Seniors prepare a seminar on a topic unrelated to their research. In their final semester, seniors prepare a seminar on their research. Seniors must submit an acceptable introduction to their thesis. May be repeated for degree credit up to a maximum of 4 credits. CN only.

420 Advanced Biochemistry. Spring (4).

In-depth study of biochemical topics. Specific focus will vary and may range from bio-organic chemistry to the biochemistry of processes taking place at the level of the whole organism. Three or four hours lecture/seminar. Prerequisite: CHEM 320 or by permission. Offered as needed.

425 Advanced Organic Chemistry. Spring (4).

Selected topics in organic chemistry, including physical organic chemistry, molecular orbital theory, structural and mechanistic relationships, and computational chemistry. Three hours lecture. Prerequisite: CHEM 232 or by permission. Offered as needed.

431 Advanced Laboratory. Spring (2).

Integrated project-oriented lab, including computational chemistry, synthesis, characterization, reactivity studies, kinetics, thermodynamics and photochemistry and the use of instrumental techniques such as ion chromatography, atomic spectroscopy, UV-visible, infrared, NMR, mass spectrometry, magnetic susceptibility, and electrochemical methods. As part of this course, students will take the Major Field Test, a comprehensive examination that covers analytical, inorganic, organic and physical chemistry. Six hours laboratory. Prerequisites: Senior standing, CHEM 330, 332 or by permission. Concurrently with 331. NU only.

445 Inorganic Chemistry. Spring (4).

Focus on understanding the fundamental concepts of transition metal chemistry, the main group elements, and bio-inorganic chemistry. Emphasis on bonding, structures, synthesis, and reactivity. Three hours lecture. Prerequisites: CHEM 232. NU only.

460 Special Topics.**Fall (1–4) or Spring (1–4).**

Special topics in chemistry studied under the guidance of faculty (four credit hours lecture) may include the following: advanced analysis, environmental chemistry, surface science and spectroscopy, organometallic chemistry and catalysis, solid-state chemistry, polymers and surfactants in solution, colloids and macromolecules, application of molecular assembly, diffusion, or other approved topics. Prerequisite: by permission. NU or EV only.

478 Senior Research and Thesis.**Fall (1), Spring (1).**

This course is taken in a student's final semester. The student completes his or her research, writes a thesis on the project, and presents a seminar during Chemistry Seminar. The research mentor for the student evaluates him or her on research effort and progress, the thesis, and any presentations the student has given. Prerequisites: Written permission required, at least 2 credits of CHEM 378. EV only.

Communicative Disorders

THE FACULTY

Barbara Conboy
Diane Garcia
Michael Groher
Lisa LaSalle
Lori Osborn
Janet Rabinowitz
Julia Ferrè Shuler
Cynthia Wineinger
Keith Wolgemuth

THE UNDERGRADUATE PROGRAM

THE MAJOR

Learning outcomes for this program may be found at:

www.redlands.edu/academics/college-of-arts-sciences/undergraduate-studies/communicative-disorders/9454.aspx.

Bachelor of Arts

Major requirements

Minimum of 39 credits:

- CDIS 100 Introduction to Communicative Sciences and Disorders (4)
- CDIS 204 Speech and Hearing Science (4)
- CDIS 205 Introduction to Audiology (4)
- CDIS 206 Functional Anatomy/ Physiology of Communication (4)
- CDIS 307 Early Language Development and Disorders (4)
- CDIS 308 School Age Through Adult Language Development and Disorders (4)
- CDIS 309 Disorders of Articulation and Phonology (4)
- CDIS 310 Research Literacy in Communicative Disorders (4)
- CDIS 411 Assessment and Intervention in Communicative Disorders (4)
- CDIS 413 Communicative Disorders Capstone (4).

Note: CDIS 100 is a prerequisite for most courses in the department.

ASHA Requirements:

For students planning to pursue a graduate degree in Speech-Language Pathology or

Audiology, the American Speech-Language Hearing Association (ASHA) requires all students to adhere to their standards for certification. The following courses must be completed before the graduate degree program is complete:

- A college level mathematics/statistics course
- A college level biology course
- A college level social science course (e.g., a psychology or sociology course)
- A college level physical science course (e.g., chemistry, astronomy, geology)

These courses are not required for the undergraduate major but are highly recommended.

Other relevant coursework:

- PSYC 335 Developmental Psychology
- EDUG 310 Introduction to Second Language Acquisition
- EDUG 331 Child Development
- BIOL 104 Introduction to Neuroscience
- PHYS 107 Sound Physics
- PSYC 250 Statistical Methods

Transfer Students

Transfer students with one or two years of study at another institution are able to complete a major in Communicative Disorders in two years. Individual advising assists in creating the course of study for the semesters in attendance at the University.

THE MINOR

Students who minor in Communicative Disorders must complete a minimum of 24 credits, including:

6 courses 24 credits

- CDIS 100 Introduction to Communicative Sciences and Disorders (4)
- CDIS 204 Speech and Hearing Science (4)
- CDIS 206 Functional Anatomy/ Physiology of Communication (4)
- CDIS 307 Early Language Development and Disorders (4)
- CDIS 308 School Age Through Adult Language Development and Disorders (4)
- One additional course in Communicative Disorders

Study Abroad

The department strongly encourages majors to take advantage of the opportunity to live and study abroad. Accordingly, required courses have been scheduled to allow students to spend a semester off campus. However, Communicative Disorders courses are rarely available during foreign travel, so students should carefully plan in advance with their advisors.

Departmental Honors

A departmental honors program is available and encouraged for exceptionally able and motivated students. Admission to the program may come by departmental invitation or, should students initiate their own applications, by an affirmative vote of the Communicative Disorders Faculty. Interested students should consult with the department chair in the Fall of their junior year for information about the application procedure and requirements.

Undergraduate Course Descriptions (CDIS)

100 Introduction to Communication Sciences and Disorders. Fall (4), Spring (4).

The typical processes of communication and a survey of the disorders that affect communication across the lifespan. The basics of observation, evaluation, treatment, and research. Guest faculty lecturers in their areas of special expertise support course lectures.

101 Clinical Case Studies in Communicative Disorders. Fall (1), Spring (1).

The introductory study of the clinical process. Covers frameworks of observation, intervention approaches, and clinical documentation. The course will be taught through clinical case studies. Prerequisite: CDIS 100. NU only. Offered as needed.

156 American Sign Language I. Fall (4).

Culture and language of the deaf in America. Focus on cultural values and linguistic features of American Sign Language (ASL), with exposure to other signed languages. Students learn basic conversational skills, including vocabulary and grammar forms, within the context of deaf culture. Comparative linguistics of ASL and English are covered.

204 Speech and Hearing Science.

Fall (4), Spring (4).

Review of the acoustics of sound. Acoustic and perceptual characteristics of speech. Research and laboratory techniques used in speech and hearing science. Prerequisite: CDIS 100.

205 Introduction to Audiology.

Fall (4), Spring (4).

Introduction to anatomy and physiology of hearing mechanism, acoustics, methods of hearing, testing of children and adults, and discussion of common auditory pathologies, hearing aids and cochlear implants. Meets state audiometrist requirements. Prerequisite: CDIS 100.

206 Functional Anatomy/Physiology of Communication. Fall (4), Spring (4).

Functional anatomy and physiology of speech, swallow, and language mechanisms. Emphasis on how an understanding of head and neck physiology/anatomy impacts clinical diagnosis and management of communication and swallowing disorders. Prerequisite: CDIS 100 or by permission.

256 American Sign Language II.

Spring (4).

Advanced course in American Sign Language, (ASL), that builds the linguistic and cultural knowledge of ASL and deaf culture. Students master advanced elements of the language and explore its use as a multi-cultural tool to aid in the understanding of deaf culture. Prerequisite: CDIS 156 or by permission.

260 Latin America: Focus on Language, Culture, and Education. May Term (3).

This travel course uses experiential learning, self-reflection, reading, writing, and discussion to provide students with a foundation for understanding cross-cultural differences in educational approaches. Students work with children in community-based educational programs, focusing on language-development issues (e.g., bilingualism, literacy, and the broad impact of difficulties with language on education). Open to non-majors. Previous coursework in Spanish is not required but is strongly recommended. Offered as needed.

Communicative Disorders

307 Early Language Development. **Fall (4), Spring (4).**

An introduction to the scientific study of typical and atypical language development in children from birth to five years. Students learn about theories of language development and disorders, the phonological, lexical, semantic, morphosyntactic, and pragmatic aspects of development and the early identification and treatment of language disorders. Prerequisites: CDIS 100 and CDIS 204 or by permission. May not be taken concurrently with CDIS 308. NU only.

308 School Age Through Adult Language Development and Disorders. **Fall (4), Spring (4).**

This course will examine language development from school age children through adulthood. It will include study of specific developmental and acquired disorders across the lifespan. The course will study typical and atypical language through language sample analysis. Prerequisites: CDIS 100, CDIS 307, or by permission. NU only.

309 Articulation and Phonology. **Fall (4), Spring (4).**

An overview of articulatory and phonological features of the American-English sound system. Models of phonological theory and phonological development will be reviewed, as they apply to both typical and atypical speech and language development. Students will learn characteristics of speech sound disorders, speech analysis skills, and principles of intervention. A laboratory experience in speech transcription using the International Phonetic Alphabet (IPA) is required. Prerequisites: CDIS 100, CDIS 206.

310 Research Literacy in Communicative Disorders. **Fall (4), Spring (4).**

This course is designed to introduce students to the conventions of academic writing and reading in the discipline of communicative disorders. This course will fulfill a WB requirement in the department. Prerequisites: CDIS 100 and junior status or by permission. NU only.

411 Assessment and Intervention in Communicative Disorders. **Fall (4), Spring (4).**

Introduces clinical management to the undergraduate student and familiarizes the student with principles for assessment and intervention of speech and language disorders in children and adults. Clinical case study investigation is a significant portion of the course. Students have the option to complete the Truesdail Center lab as an assistant clinician which requires two additional hours a week, or students may complete the option of case study file investigation which is achieved independent of class meetings. A required grade point average in the CDIS major determines eligibility for the assistant clinician option. Prerequisites: CDIS 307 and 308 or by permission. NU only.

413 Communicative Disorders Capstone. **Fall (4), Spring (4).**

A selective clinical or research experience together with a common classroom exploration culminating in completion of the communicative disorders major. Will include oral and written demonstrations of knowledge, application of scientific theory, reflection and integration of liberal arts and communicative disorders knowledge and skills. Prerequisite: Senior and major status. There are 3 capstone options: (1) Honors, (2) Community Placement, and (3) Truesdail Clinic. Prerequisite: CDIS 411 for Truesdail Clinic option.

464 Seminar in Communicative Disorders. **Fall (4), Spring (4).**

Intensive study in one of the areas of communicative disorders and review of current literature. Current lists of seminar topics may be obtained through the department. Offered as needed.

THE GRADUATE PROGRAM

Admission

Application for admission should be directed to the department. The application deadline for fall admission is January 15. For Graduate Admission application go to:

<http://www.redlands.edu/academics/college-of-arts-sciences/graduate-studies/615.aspx>.

Visitation. Prospective graduate students are encouraged to visit the department. When possible (and if advance notice is given), arrangements are made for a faculty member and a graduate student to meet with applicants.

Graduate Assistantships

The Department of Communicative Disorders makes available scholarships for tuition remission each semester. Applications for these scholarships are included in the admissions material. They are awarded on the basis of clinical and academic qualifications. Students also are encouraged to contact the Office of Financial Aid to determine their qualifications for low-interest loan programs sponsored by the University.

The department appoints graduate students to training assignments each semester. While these positions are not related to financial aid, they provide students with experience and training in extracurricular aspects of the field and are an integral part of the programs of involved students. Clinical assignments are awarded for work in clinical teaching with undergraduate students and for clinical work with specific programs such as the adult neuropathology or voice/laryngectomy programs. Teaching assignments are offered for assistance with special projects associated with graduate coursework as well as for laboratory assistance in speech science, phonetics, and audiology.

The Master of Science

Students must work closely with their advisors to develop a program of academic study and a clinical practicum to suit their individual interests and satisfy the requirements for professional certification.

Academic Requirements

A total of 51 graduate credits and satisfactory completion of the comprehensive evaluation

are required. A maximum of 6 transfer credits of graduate study may be applied to the degree with the recommendation of the academic advisor. This limit applies to credits earned at other institutions as well as to those earned in other departments at the University of Redlands. Students are expected to have completed the following undergraduate courses or their equivalents prior to graduate study: CDIS 204, 205, 206, 307, 308 and 309. Descriptions of these courses are listed in the preceding undergraduate section.

The following courses are required for the M.S. degree:

Required courses:

- CDIS 616 Neuropathologies of Swallowing (3)
- CDIS 620 Seminar in CDIS: Language Pathology (3)
- CDIS 623 Assessment of Language Disorders in Children (3)
- CDIS 627 Issues in Cultural and Linguistic Diversity (3)
- CDIS 629 Disorders of Fluency (3)
- CDIS 631 Disorders of Voice (3)
- CDIS 634 Theory & Practice in Clinical Evaluation: Speech Language Pathology (3)
- CDIS 647 Professional Methods (3)
- CDIS 652 Research and Experimental Design (3)
- CDIS 655 Advanced Aural Rehabilitation (3)
- CDIS 664 Seminar in CDIS: Medical SLP/ Cleft Palate (3)
- CDIS 664 Seminar in CDIS: Autism Spectrum Disorders/Counseling (3)
- CDIS 683 Hospital Externship (3)
- CDIS 685 Student Teaching (school externship) (3)

Specialty Clinics: Enrollment in 6 clinics (1 unit each) required:

- CDIS 640 Adult Neurogenic Disorders (0-1)
- CDIS 641 Child Speech Disorders (0-1)
- CDIS 642 Autism Spectrum Disorders (0-1)

Communicative Disorders

- CDIS 643 School-Age Language Disorders (0-1)
- CDIS 644 Early Language Disorders (0-1)
- CDIS 645 Fluency Disorders (0-1)
- CDIS 648 Aural Rehabilitation (0-1)

Academic Standards

Regular Graduate Standing is a prerequisite for acceptance to candidacy for a master's degree and is granted by the faculty of the program for which application is made.

The basic requirements for Regular Graduate Standing in Communicative Disorders are as follows:

1. Graduation from an accredited college or university;
2. A minimum cumulative undergraduate GPA of at least 3.00 on a 4.0 scale;
3. Maintenance of satisfactory academic and clinical standing. See "Satisfactory Academic Standing" below.

Satisfactory Academic Standing

A minimum GPA of 3.00 (based on a 4.0 scale) in all graduate work taken at the University of Redlands is required to qualify for a degree. A student whose cumulative grade point average is below a 3.00 at the end of any semester will be placed on probation and allowed one semester to restore the cumulative grade point average to 3.00. Any student who fails to restore his or her cumulative grade point average to a 3.00 at the end of the probationary period may be disqualified. Disqualification may also occur if a student receives one grade of 0.0 or two grades of 1.0.

Credit for a course graded below 2.0 (under the numerical grade option) cannot apply toward a graduate degree. However, the course may be retaken, with the second grade determining acceptability toward both the degree and the grade point average. The first grade will remain on the student's permanent record but will not become part of the cumulative grade point average.

Auditing

A full-time student may audit a maximum of one course during the Fall or Spring semester without an additional fee. Students who register for less than a full load will be

required to pay the usual fee for any audited course. No student may audit a course without the instructor's consent.

Clinical Requirements

Graduate study in Communicative Disorders requires a significant commitment of time to clinical practicum. Students are expected to be available approximately ten hours each week for practicum in the Truesdail Center for Communicative Disorders; this is in addition to the clinical work associated with certain courses. Students must make hours available to complete the practicum required for CDIS 622, 634, 640, 641, 642, 643, 644, 645, 648, 683, and 685.

A minimum of 400 hours of supervised clinical observation and clinical practicum are required for the state license and the ASHA certificate of clinical competence. The following qualifications apply:

1. Clinical Observation: 25 clock hours prior to beginning initial clinical practicum;
2. Clinical Practicum: 375 clock hours total with direct client/patient contact, 325 clock hours at graduate level, 50 clock hours in each of three types of clinical settings;
3. Students will be given a variety of practicum experiences with people of different ages and with different disorders, as required by certifying agencies.

Students who are identified by faculty as having difficulty meeting the standards of professionalism or competence in skills receive a plan of remediation to be monitored for one semester. The remediation plan will be terminated when the competency skill is met.

Comprehensive Evaluation

Successful completion of a departmental Comprehensive Evaluation is required of all candidates for the master's degree in the final semester of their program. This may take the form of a Thesis, or Oral Responses to a clinical research question. Further information about each of these options is available from the department.

Praxis Exam Verification

To complete a degree, students must submit evidence of having taken the ASHA exam in

the Praxis Series, ideally within the semester the degree is to be completed. Evidence may be a receipt or a copy of the entrance ticket for the exam.

Speech Language Pathology Services Credential

To be employed as a speech-language specialist in the public schools in California, one must hold this credential. The minimum requirements are:

1. A master's degree.
2. Successful completion of the CBEST and Praxis.
3. Recommendation from the Department.

Competency in all coursework required for the master's degree must be demonstrated by successful completion of courses.

Undergraduate Leveling Courses

Students entering the program with an undergraduate degree not in communicative disorders will spend the first year of their graduate studies taking the following courses: CDIS 204, CDIS 205, CDIS 206, CDIS 307, CDIS 308, CDIS 309, and CDIS 411 (as needed).

Students must show evidence of a bachelor's degree or equivalent from an accredited institution and a minimum GPA of 3.0. Other admission criteria include the essay, letters of recommendation, GRE test scores, and relevant work and life experience.

Graduate Study Course Descriptions (CDIS)

615 Neuropathologies of Speech, Language and Cognition. Fall (3).

Discusses the neuroanatomic and neurophysiologic basis of the most common type of communicative disorders secondary to nervous system disease. The clinical, historical, psychometric, and laboratory findings to establish the differential diagnosis among disorders of cognition, language, and speech will be emphasized, as well as basic treatment and management approaches for those seen in the acute medical setting.

616 Neuropathologies of Swallowing. Spring (3).

The course will begin with the clinical and instrumental findings seen in normal and abnormal swallowing. Common disorders of swallowing and their treatments will be emphasized, as well as the clinical and instrumental evaluations for swallowing disorders. The use of feeding tubes and their ethical implications will be reviewed. Prerequisite: CDIS 615 or by permission.

619 Development and Disorders in Monolingual and Bilingual Spanish Speakers. Fall (3).

Addresses issues in bilingual development and processing; language disorders in Spanish-speaking children and adults; language assessment and intervention practices with bilingual children; and bilingual education. Prepares students to analyze error patterns in phonology, lexical-semantics, morphosyntax, and pragmatics in monolingual and bilingual Spanish speakers.

620 Language and Cognitive Development: Typical and Atypical Variation. Fall (3), Spring (3).

A scientific examination of sources of variation in language from birth to 22 years, and their impact on literacy and academic achievement. Topics include: information processing and learning; psycholinguistic models; perceptual, cognitive, social, neural and genetic bases of language development; etiology, prevention, early detection, assessment, and remediation of language disorders. Prerequisite: CDIS 307 or by permission.

622 Theory and Practice in Clinical Evaluation: Language and Learning Disorders. Spring (3).

Advanced problems in formal and informal assessment of language disorders and learning disabilities; practicum at the Center is required, including staffing, report writing and parent conferences. An interdisciplinary approach is taken. Taken concurrently with CDIS 624.

Communicative Disorders

623 Assessment of Language Disorders in Children. Fall (3).

Survey of tests applied to children with language disorders; analysis of test content, diagnostic patterns, relationship between history, observation, and psychometrics.

624 Educational Considerations for Children with Language and Learning Disabilities. Spring (3).

Study of language and learning disabilities: their identification, educational principles and procedures, diagnostic patterns, and educational management. Prerequisite: Taken concurrently with CDIS 622.

625 Language, Culture, and Cognition. Fall (3), Spring (3), May Term (3).

How language and thought interact and are affected by culture. Study of topics across languages, modes of thought, and cultures, such as parent-child interaction, literacy, cognitive development, and narrative. Prerequisite: CDIS 623 or by permission. Offered as needed.

626 Seminar in Articulation and Phonology. Fall (3), Spring (3).

Theories of phonological acquisition and the nature of disordered phonological development. Differential diagnosis and intervention for speech sound disorders in diverse populations. Prerequisite: CDIS 309 or by permission.

627 Issues in Cultural and Linguistic Diversity. Fall (3) or Spring (3).

Designed to help students develop cultural competence in working with individuals from diverse cultural and linguistic groups who have communication disorders. Students examine variations in cultural and linguistic practices and behaviors, discuss the implications of these differences in clinical and educational settings, and learn about non-biased assessment and intervention strategies.

629 Disorders of Fluency.

Fall (3), Spring (3).

Theories, etiologies, assessment, and rehabilitative techniques for disorders of fluency with special emphasis on the behavioral and emotional management of children and adults; practicum at the Center is required,

including diagnostic evaluation, treatment planning, report writing, and counseling of clients and family members.

631 Disorders of Voice. Fall (3).

Structure, function, and capabilities of the normal voice; etiologies, assessment strategies, and rehabilitative techniques of the disordered voice; problems of laryngeal cancer and subsequent voice restoration alternatives.

634 Theory and Practice in Clinical Evaluation: Speech and Language Pathology. Fall (3), Spring (3).

Advanced problems in formal and informal assessment in speech and language pathology. Weekly practicum experience is required: pre-planning, report writing, parent conferencing, home and school visits, and remedial planning. Extensive interaction with related professionals. Prerequisite: CDIS 623 or by permission.

640 Adult Neurogenic Clinic.

Fall (1), Spring (1).

Clinical practicum with staffing discussion of principles, methods, and management procedures for the adult neurogenic population. This is a required Specialty Clinic. Enrollment requires a weekly staffing meeting and assignment of a minimum of one client in the Truesdail Center. Prerequisite: CDIS 411 or by permission or equivalent.

641 Childhood Speech Sound Disorders Clinic. Fall (1), Spring (1).

Clinical practicum with staffing discussion of principles, methods, and management procedures for the child speech sound disorders population. This is a required Specialty Clinic. Enrollment requires a weekly staffing meeting and assignment of a minimum of one client in the Truesdail Center.

642 Autism Spectrum Disorders Clinic.

Fall (1), Spring (1).

Clinical practicum with staffing discussion of principles, methods, and management procedures for the autism spectrum disorders population. This is a required Specialty Clinic. Enrollment requires a weekly staffing meeting and assignment of a minimum of one client in the Truesdail Center.

643 School-Aged Language Clinic.**Fall (1), Spring (1).**

Clinical practicum with staffing discussion of principles, methods, and management procedures for the school-aged language population. This is a required Specialty Clinic. Enrollment requires a weekly staffing meeting and assignment of a minimum of one client in the Truesdail Center.

644 Early Language Clinic.**Fall (1), Spring (1).**

Clinical practicum with staffing discussion of principles, methods, and management procedures for the early language population. This is a required Specialty Clinic. Enrollment requires a weekly staffing meeting and assignment of a minimum of one client in the Truesdail Center.

645 Fluency Disorders Clinic. Spring (1).

Clinical practicum with staffing discussion of principles, methods, and management procedures for those with fluency disorders. This is a required Specialty Clinic. Enrollment requires a weekly staffing meeting and assignment of a minimum of one client in the Truesdail Center. Concurrent or completed CDIS 629, or equivalent.

646 Voice Disorders Clinic.**Fall (1), Spring (1).**

Clinical practicum with staffing discussion of principles, methods, and management procedures for the disorders of voice population. Concurrent or completed coursework in the area of voice disorders is required. This is an elective Specialty Clinic. Enrollment requires a weekly staffing meeting and assignment of a minimum of one client in the Truesdail Center. Prerequisite: CDIS 411 or by permission or equivalent. Offered as needed.

647 Professional Methodologies and Concerns. Spring (3).

Role of speech/language pathologist in public education and other professional settings, referral procedures, IEP writing, state and federal legislation, utilization of assistants, case selection and scheduling, application procedures for credentialing and licensing, and paraprofessional and inter-professional

relationships. Taken concurrently with CDIS 685.

648 Aural Rehabilitation Clinic.**Fall (1), Spring (1).**

Clinical practicum with staffing discussion of principles, methods, and management procedures for the aural rehabilitation population. Concurrent or completed coursework in the area of aural rehabilitation is required. This is a required Specialty Clinic. Enrollment requires a weekly staffing meeting and assignment of a minimum of one client in the Truesdail Center.

649 Child Speech and Language Clinic.**Fall (1), Spring (1), Summer (1).**

Clinical practicum with staffing discussion of principles, methods, and management procedures for children who have speech and language disorders. This is a required Specialty Clinic. Enrollment requires a weekly staffing meeting and assignment of a minimum of one client in the Truesdail Center. Prerequisite: CDIS 411 or equivalent.

652 Principles of Evidence-Based Practice in Communication Sciences and Disorders. Fall (3).

Students learn how to use external evidence from scientific sources in clinical decision making. The course covers research design and analysis techniques, focuses on issues of external, internal, construct, and conclusion validity; ethics; and controversies in intervention research. The course also provides a foundation for students who wish to conduct research. Prerequisite: one statistics course preferred or by permission.

655 Aural Rehabilitation.**Fall (3), Spring (3).**

Discussion and study of the intervention and assessment techniques for children and adults with hearing loss to further develop their speech and language abilities, cochlear implants, hearing aids and the efficacy of these technologies in communication, deaf culture, auditory processing disorders, genetics of hearing loss and review of audiology concepts. Meets state audiometrist certification requirements.

Communicative Disorders

664 Seminar in Communicative Disorders. Fall (3), Spring (3), May Term (3).

Intensive study in one of the areas of communicative disorders. Review of current literature. Current lists of seminars may be obtained through the department.

683 Medical Setting Internship. Fall (3), Spring (3), or Summer (3).

Internship practicum at off-campus sites. A minimum of four days per week over ten weeks on-site is required. Prerequisites: fifty hours of clinical practicum at the Truesdail Center or off-campus site, CDIS 634, CDIS 631, CDIS 615, CDIS 616 and CDIS 664 are strongly recommended.

684 Advanced Theory and Practice in Clinical Problems: Speech, Language, and Hearing.

Fall (3), Spring (3), or Summer (3).

Advanced internship practicum at off-campus sites. A minimum of two days per week over ten weeks on-site is required. Prerequisites: CDIS 683 and department approval.

685 Public School Internship. Spring (3).

Student teaching practicum in the public schools. Taken concurrently with CDIS 647. Prerequisite: 125 hours of clinical practicum or by permission. CN only.

698 Thesis. Fall (3–6), Spring (3–6), or May Term (3–6).

Computer Science

THE FACULTY

Pani Chakrapani
Patricia Cornez

THE MINOR

Students minoring in computer science must complete the following requirements:

8 courses

- CS 110 Introduction to Programming (4)
- CS 111 Data, File Structures, and OOP (4)
- 16 additional credits from computer science offerings
- MATH 101 Finite Mathematics (4)
- MATH 111 Elementary Statistics and Probability with Applications (4)

Advanced Placement in Computer Science

Students who receive a score of three or four on the exam will receive 4 credits and credit for CS 110. Those who receive a score of five will receive 8 credits and credit for CS 110 and 111.

Course Descriptions (CS)

101 Introduction to Computers (PC).

Fall (4), Spring (4).

Designed to make students computer literate. Non-technical introduction to computers with particular focus on microcomputers and how they work. Students are introduced to the Windows operating system, word processing, spreadsheets, graphics programs, databases, programming, and ethical issues in computer use.

103 Introduction to Multimedia.

Fall (4), Spring (4).

Introduction to interactive multimedia design and elements of interface design. Development of skills in creating interactive projects using animation, graphics, sound, virtual reality, and basic object-oriented programming to facilitate navigation. Offered as needed. NU only.

110 Introduction to Programming.

Fall (4), Spring (4).

Introduction to problem-solving methods and algorithm development through the use

of computer programming in the C++/JAVA language. Emphasis on data and algorithm representation. Topics include declarations, arrays, strings, structs, unions, expressions, statements, functions, and input/output processing.

111 Data, File Structures, and OOP.

Spring (4).

Advanced topics concerning data and algorithm representation using C++/Java. Topics include stacks and recursion, dynamic memory, pointers, linked lists, queues, trees, searching, sorting, and object-oriented programming and classes. Prerequisite: CS 110.

208 Java Programming. Fall (4), Spring (4).

Exploration of the Java language for students familiar with object-oriented programming. Topics include multimedia programming, threads, exception handling, and network communications. Prerequisite: CS 111. Offered as needed.

3221 Exploring Visual Basic.

Fall (4), Spring (4).

Basic principles of problem solving and algorithm development are studied. Various statements of the programming language Visual Basic will be presented and used in this context. A fairly rapid pace of coverage will occur in this course, as this is not the first course in programming; complex and demanding assignments will form part of the coursework. Prerequisite: CS 111. Offered as needed.

222 Programming for the World Wide Web. Fall (4), Spring (4).

The usage of languages like HTML, Java Script, and XML will form the core of this course. Syntax and semantics of HTML and XML that enable creation of web pages with a variety of textual and graphical information units will be studied in depth. Client-server programming and Windows applications will also be covered. Prerequisite: CS 111. Offered as needed.

223 Multimedia Design and Game Programming. Spring (4).

This course experiments with programming concepts and techniques used in interactive

Computer Science

visual environments, such as games. Students will explore strategies for solving recursive backtrack problems, design intelligent animations, and deconstruct physical worlds. Students will produce interactive projects, incorporating graphics, text, video, audio, and object-oriented programming, using multimedia, industry-standard authoring software. Prerequisite: CS 111. Offered as needed. NU only.

230 Operating Systems.

Fall (4), Spring (4).

Introduction to principles of operating systems. Topics include processes (sequential and concurrent), tasks, task management, processor scheduling, memory management, file handling, device management, command languages, interrupts, I/O, and security. Prerequisite: CS 220.

240 Theory of Computation.

Fall (4), Spring (4).

Students of computer science are introduced to the need for and construction of mathematical proofs. The concepts, notations, and techniques of the theories of automata, formal languages, and Turing machines are studied to understand the capabilities and limitations of computers. Prerequisites: CS 111, MATH 121.

260, 360, 460 Topics in Computer Science. Spring (4).

Features a topic of current interest in computer science not otherwise offered in the curriculum. Prerequisite: by permission. May be repeated for degree credit, for a maximum of 8 credits, given a different topic. Offered as needed.

301 Business Analysis with Excel.

Fall (3), Spring (3).

Data analysis and decision making is an integral part of any successful business and the study of large data sets with the help of Microsoft Excel is the main focus of this course. The processes that enable data consolidation to make meaningful business decisions will be studied in depth. Prerequisite: ACCT 220 or CS 110.

330 Database Management. Spring (4).

Introduction to principles of database design and management for information systems. Discussion of file design leads to study of logical and physical database concepts relating to three models of database organization: hierarchical, network, and relational. Includes issues relating to query processing, integrity and security of data, and distributed database systems. Prerequisite: CS 111. Offered as needed.

331 Artificial Intelligence. Spring (4).

Introduction to artificial intelligence designed to introduce the basic ideas about search and control strategies, heuristics, problem solving, constraint exploitation, and logic. Rule based systems and expert systems techniques and the process of generating intelligent behavior for computers using these information processing strategies are also discussed. Prerequisite: CS 220. Offered as needed.

340 Programming Languages. Spring (4).

Introduction to programming language concepts and representatives of several different programming language techniques. Topics include data, operations, sequence control, data control, storage management, operating environment, syntax, and comparison of various programming paradigms. Prerequisite: CS 220.

341 Software Engineering. Fall (4).

Introduction to the new and maturing field of software engineering. Topics include the management of expectations, computer technologies, people and their skills, time, cost, and other resources needed to create, test, and maintain a software product that meets the needs of computer users. Prerequisite: CS 230.

Creative Writing

THE FACULTY

Ralph Angel
 Greg Bills
 Leslie Brody
 Patricia Geary
 Dustin Leavitt
 Joy Manesiotis
 Alisa Slaughter

THE MAJOR

The Bachelor or Arts Major

The Creative Writing Department's focus is on creative process rather than on specialization in any one genre. Requirements are designed to foster a rapport with all forms of literary expression and to promote community among our majors.

Learning outcomes for this program may be found at:

www.redlands.edu/academics/college-of-arts-sciences/undergraduate-studies/creative-writing/9456.aspx.

Foundation courses:

3 courses. 12 credits

- CRWR 104 Nonfiction Workshop I (4)
- CRWR 105 Poetry Workshop I (4)
- CRWR 107 Fiction Workshop I (4)

Intermediate courses:

3 courses. 12 credits

- CRWR 204 Nonfiction Workshop II (4)
- CRWR 205 Poetry Workshop II (4)
- CRWR 207 Fiction Workshop II (4)

Advanced Courses:

From at least two genres, choose from:

2 courses. 8 credits

- CRWR 304 Nonfiction Workshop III (4)
- CRWR 305 Poetry Workshop III (4)
- CRWR 307 Fiction Workshop III (4)

Advanced Seminars:

Students must take at least 2 sections, 8 credits:

- CRWR 310 Creative Writing Seminar (3-4)

Additional Courses:

Each student must take 1 additional course:

- CRWR 310 Creative Writing Seminar
- CRWR 311 Literary Magazines
- an advisor-approved course in literature

Senior Portfolio:

In the senior year, each student must enroll in at least one section of:

- CRWR 441 Senior Portfolio (4)

Recommendations:

- By the beginning of the sophomore year, the student who intends to major in Creative Writing is expected to choose one of the department's resident writers as an academic advisor and, with that individual, plan an appropriate three-year schedule.
- Strongly encouraged: Additional advanced-level workshops and seminars in all genres.

THE MINOR

The minor is designed for students to explore creative expression as part of a broad education.

The minor in Creative Writing consists of a minimum of 28 credits.

Minor requirements:

- CRWR 104 Nonfiction Workshop I (4)
- CRWR 105 Poetry Workshop I (4)
- CRWR 107 Fiction Workshop I (4)
- CRWR 204 Nonfiction Workshop II (4)
- CRWR 205 Poetry Workshop II (4)
- CRWR 207 Fiction Workshop II (4)

AND:

- CRWR 310 Creative Writing Seminar (3-4)
- Advanced level workshops and seminars are recommended.

Creative Writing

Departmental Honors

Every Creative Writing major must enroll in CRWR 441 Senior Portfolio during the student's senior year. The portfolios are evaluated for senior honors in Creative Writing. **Eligibility:** To qualify for departmental honors, the candidate must have a minimum GPA of 3.50 in the major and maintain it through graduation.

Publications, Awards, and Readings

The department publishes a literary magazine, *Redlands Review*, showcasing student work. Students hold positions on the editorial board and manage the editing and layout.

In conjunction with the Academy of American Poets, the department sponsors the Jean Burden Prize in poetry. The department also sponsors annual fiction and nonfiction contests and an Editor's Prize. Contests are judged by writers of national repute.

The Creative Writing Department sponsors the Visiting Writers Series, which brings nationally known writers to campus to give readings and interact with students.

Sigma Tau Delta

Majors and minors in English and Creative Writing are eligible for membership in Sigma Tau Delta, an international honor society. Sigma Tau Delta serves as a way to recognize outstanding achievement, foster the love of writing and reading, and give members an opportunity to share those passions with the community around them through service projects of their own design. To be eligible, students must have:

- Completed three semesters of college
- Achieved a 3.5 GPA in the major/minor
- Ranked in the top third of their class or overall GPA

Application materials are available in the English Department Office.

Course Descriptions (CRWR)

104 Nonfiction Workshop I.

Fall (4), Spring (4).

Introductory literary nonfiction workshop with a primary focus on student writing while stressing process.

105 Poetry Workshop I.

Fall (4), Spring (4).

Beginning-level poetry writing workshop with a primary focus on student writing while stressing process.

107 Fiction Workshop I.

Fall (4), Spring (4).

Introductory fiction writing workshop with a primary focus on student writing, while stressing process.

204 Nonfiction Workshop II.

Fall (4), Spring (4).

Intermediate literary nonfiction writing workshop encourages the revision process and includes peer review. Prerequisite: CRWR 104 or by permission.

205 Poetry Workshop II.

Fall (4), Spring (4).

Intermediate poetry writing workshop with stress on process. In-depth exploration and refinement of skills. Prerequisite: CRWR 105 or by permission.

207 Fiction Workshop II.

Fall (4), Spring (4).

Intermediate fiction writing workshop with a stress on process. In-depth exploration and refinement of skills. Prerequisite: CRWR 107 or by permission.

304 Nonfiction Workshop III.

Fall (4) or Spring (4).

Advanced writing course in writing literary nonfiction. Prerequisite: CRWR 204 or by permission. May be repeated for degree credit for a maximum of 8 credits.

305 Poetry Workshop III.

Fall (4), Spring (4).

Advanced writing course in poetry. Prerequisite: CRWR 205 or by permission. May be repeated for degree credit for a maximum of 8 credits.

307 Fiction Workshop III.**Fall (4), Spring (4).**

Advanced writing course in writing literary fiction. Prerequisite: CRWR 207 or by permission. May be repeated for degree credit for a maximum of 8 credits.

310 Creative Writing Seminar.**Fall (4), Spring (4), May Term (3).**

This is an upper-level seminar designed for Creative Writing majors. Topics will rotate, but will provide in-depth study for writers. May be repeated for degree credit for a maximum of 12 credits. Prerequisite: CRWR 104, 105, or 107.

311 Literary Magazines. Fall (4).

Emphasis is on the history of the "little" magazine, editorial and design considerations, and the distinction between literary and mainstream publications. This course is the prerequisite for CRWR 312, *Redlands Review*.

312 Redlands Review. Spring (4).

Practical application of skills and ideas developed in CRWR 311 to produce an original literary magazine as a team. Course activities include advertising for submissions, selecting and editing material, and choosing a design. Participants will adhere to a budget, set deadlines, and recruit for the following year's magazine. Prerequisite: CRWR 311.

441 Senior Portfolio. Fall (4), Spring (4).

Capstone project for Creative Writing majors and Johnston students with emphasis or partial emphasis in Creative Writing. Students work individually with a writing faculty committee and produce a polished, professionally assembled manuscript in one of the following genres: fiction, creative nonfiction, or poetry. Exceptional portfolios and performance in this course will be considered for Creative Writing Department Honors. May be repeated in a second semester. Prerequisites: senior standing and three levels of workshop in the chosen genre.

Economics

THE FACULTY

Mussaddequddin Chowdhury
Rafat Fazeli
Lorenzo Garbo
Dorene Isenberg
Diane Macunovich
Nicholas Shunda

THE MAJOR

The major program in economics can be designed to earn either a bachelor of science or bachelor of arts degree.

Learning outcomes for this program may be found at:

www.redlands.edu/academics/college-of-arts-sciences/undergraduate-studies/economics/9458.aspx.

All majors in economics must complete the following required courses:

7-8 courses 32 credits

- ECON 250 Principles of Microeconomics (4)
- ECON 251 Principles of Macroeconomics (4). *Normally taken during the sophomore year. ECON 250 should be completed first.*
- ECON 200 Introduction to Statistical Methods (4). *Should be taken prior to the junior year and preferably during the sophomore year.*
- Either ECON 304 Economic History (4) OR ECON 307 History of Economic Thought (4)
- ECON 350 Intermediate Microeconomics (4)
- ECON 351 Intermediate Macroeconomics (4). *Should be taken during the junior year in numerical sequence.*
- Either ECON 465 Senior Seminar in Economics (4) OR ECON 466-7 Senior Seminar in Economics Parts 1 and 2 (2 each). *Taken during the final semester of the senior year.*

The Bachelor of Arts

In addition to these seven required courses (see above), candidates for the Bachelor of Arts degree must also complete:

Math requirement:

- 1 course 4 credits**
- MATH 121 Calculus I (4)
 - OR MATH 118 Integrated Calculus I (4)
AND MATH 119 Integrated Calculus II

Electives requirement:

3 courses 12 credits

At least four elective economics courses at the 300 level or above totaling at least 12 credits. BUS 353 Managerial Finance may be accepted as an economics elective with permission of the department.

Bachelor of Science

Candidates for the Bachelor of Science degree must complete the seven required major courses (see above) plus:

Additional requirements:

2 courses 8 credits

- ECON 300 Introduction to Econometrics (4)
- ECON 301 Mathematical Economics (4)

Math requirement:

3 courses in addition to Calculus I:

- MATH 122 Calculus II (4)
- And two of the following:
- MATH 235 Differential Equations (4)
 - MATH 241 Linear Algebra (4)
 - MATH 311 Probability OR Math 312 Statistics (4)
 - MATH 321 Real Analysis (4)

Electives:

3 courses 12 credits

- 3 Economics courses at the 300 level or higher OR, with approval, a math course may be substituted.

Because the B.S. degree requires nine specific economics courses, careful planning by the student is necessary. Students should begin to plan their course of study with their advisor early in their career. In addition, candidates must be computer literate.

All economics majors are urged to complement their studies in economics with courses in computer science, government, history, mathematics, philosophy, and sociology. A minor in any of these fields is strongly recommended. ACCT 210 Principles of Financial Accounting and Reporting and PHIL 130 Reasoning and Logic are strongly recommended. The department also encourages all majors to participate in one of the University's excellent international study opportunities.

B.S. in Financial Economics

The major program in Financial Economics emphasizes the financial side of economics and the applicability of accounting to economics and finance. It requires ten courses in economics, five courses in accounting, and two courses in business administration. First-semester calculus MATH 121, or the math sequence MATH 118-119, (either earned by successful completion of such courses or by math placement in MATH 122 or higher) is a prerequisite for the intermediate economic theory courses, ECON 350 and ECON 351.

Required Courses:

10-11 courses 40 credits

- ECON 250 Principles of Microeconomics (4)
- ECON 251 Principles of Macroeconomics (4)
- ECON 200 Introduction to Statistical Methods (4)
- ECON 300 Introduction to Econometrics (4)
- ECON 323 International Finance (4)
- ECON 333 Money, Banking, and Financial Markets (4)
- ECON 350 Intermediate Microeconomics (4)
- ECON 351 Intermediate Macroeconomics (4)
- ECON 352 Industrial Organization and Public Policy (4)
- ECON 465 OR 466-7 Senior Seminar in Economics (4)

Related field requirements:

6 courses 24 credits

- ACCT 210 Principles of Financial Accounting (4)
- ACCT 211 Financial Accounting Process (4)
- ACCT 220 Principles of Managerial Accounting (4)
- ACCT 310 Intermediate Accounting I (4)
- ACCT 440 Financial and Business Reporting Analysis (4)
- BUS 354 Investments (4)
- BUS 421 Corporate Finance (4)

THE MINOR

Students who elect a minor in economics must complete the following courses:

- ECON 200 Introduction to Statistical Methods (4)
- ECON 250 Principles of Microeconomics (4)
- ECON 251 Principles of Macroeconomics (4)
- ECON 350 Intermediate Microeconomics (4)
- ECON 351 Intermediate Macroeconomics (4)
- And two additional elective courses in economics at the 300 level or above approved by the department. Either ECON 304 Economic History (4) OR ECON 307 History of Economic Thought (4) is strongly recommended. First-semester calculus MATH 121, or the math sequence MATH 118-119 (either earned by successful completion of such courses or by math placement in MATH 122 or higher) is a prerequisite for the intermediate economic theory courses.

Requirements

Courses taken toward the minor in Economics and the major in Economics or Financial Economics must be passed with a grade of 1.7 or higher. Calculus I (MATH 121), Introduction to Statistical Methods (ECON 200), Principles of Microeconomics (ECON 250), and Principles of Macroeconomics (ECON 251) satisfy

Economics

a prerequisite for economics courses only if passed with a grade of 2.0 or higher.

Quantitative Preparation

Students structuring their academic preparation for careers or graduate study in economics, business administration, operations research, or statistics are advised to develop their quantitative skills beyond the minimum required by the department. The B.S. degree is particularly appropriate for such students. A minor in mathematics—especially one that emphasizes calculus, statistics, linear algebra, differential equations, numerical analysis, and optimization techniques—is recommended. The requirements for a mathematics minor are specified in the Mathematics section of this *Catalog*. Courses in computer science are strongly encouraged.

Advanced Placement in Economics

Students who receive a score of four or higher in microeconomics receive 4 credits for ECON 250 Principles of Microeconomics. Students who receive a score of four or higher in macroeconomics receive 4 credits for ECON 251 Principles of Macroeconomics. The department also accepts these scores to fulfill the ECON 250 and/or 251 prerequisites for upper-division courses and to fulfill the ECON 250 and/or 251 major or minor.

Departmental Honors

A departmental honors program is available for exceptionally able and well-motivated students. Admission to the program may come by departmental invitation or, should students initiate their own applications, by an affirmative vote of the economics faculty. Interested students should consult with the department chair for information about the procedure and requirements in their junior year.

Internships

Students are encouraged to pursue internships to complement their academic work at the University. Students may earn 3 to 14 credits for participating in internships that are closely related to their courses of study, but a maximum of 4 credits may count toward fulfilling the requirements of any of the

major programs in economics; internships must be sponsored and supervised by faculty members in the department of Economics.

Social Science Program

Economics majors interested in careers teaching at the secondary school level are encouraged to complete, in conjunction with their studies in economics, the Social Science Program. Students should coordinate their academic planning with their advisor and the School of Education.

Course Descriptions (ECON)

149 Introduction to Economics.

Fall (4), Spring (4).

Pre-principles introduction to economics. Does not meet requirements for accounting, business administration, or economics majors. Topics covered include economic history, economic philosophy, microeconomics, and macroeconomics with an emphasis on the role of the state in the economy. Offered as needed.

155 Introduction to the Economics of the Environment. Fall (4).

Introduction to the key economic theory and empirical issues related to the environment. Topics include cost-benefit analysis, property rights theory, and environmental policy instruments. Environmental issues covered include air and water pollution, global warming, deforestation, water management, and suburban sprawl. Offered as needed.

200 Introduction to Statistical Methods.

Fall (4), Spring (4).

Introduction to the analysis of economic and social data. Basic tools of descriptive and inferential statistics and their application. Topics include basic probability theory, statistical inference, hypothesis testing, regression, and analysis of variance. Recommended: MATH 101.

250 Principles of Microeconomics.

Fall (4), Spring (4).

Introduction to the economic theory of market, consumer, and firm behavior. Economic models are developed and applied

to topics such as market performance, taxation, externalities, and public goods.

251 Principles of Macroeconomics.

Fall (4), Spring (4), May Term (3).

Economic theories addressing levels of economic activity are developed. Monetary and fiscal policy for short-term disruptions are discussed. Measures of economic growth, employment, and inflation are analyzed. Prerequisite: ECON 149 or 250 or by permission.

300 Introduction to Econometrics.

Fall (4).

Intermediate tools of statistical analysis and use of computers to estimate and test economic models. Multicollinearity, auto correlation, specification error, heteroscedasticity, dummy variables, lagged variables, and simultaneous equation estimation. Application and evaluation of selected examples of empirical economic research. Prerequisite: ECON 200, 350, or by permission.

301 Mathematical Economics.

Spring (4).

Introduction to mathematical methods in economics. Fundamental modeling techniques, simple linear models and matrix algebra, comparative statistic analysis, basic differential calculus, and optimization procedures. Prerequisite: ECON 350 or by permission. Offered in alternate years.

302 Game Theory. May Term (3).

Introduction to the study of behavior in strategic interactions by applying analytical tools of mathematics and probability to interactive decision making. Topics: simultaneous-move games, pure versus mixed strategies, Nash equilibrium, sequential-move games, sub-game perfection, repeated games, and evolutionary games. Applications: pricing, advertising, bargaining, and voting. Offered in alternate years as MATH 208.

304 Economic History. Fall (4).

Economic, social, and political causes and consequences of the Industrial Revolution and its spread throughout Europe and Colonial America. The course also looks at the causes and consequences of the Mortality

Revolution and the Fertility Transition. It uses economic theory and statistical evidence in analyzing these phenomena. Prerequisites: ECON 250 and 251 or by permission.

307 History of Economic Thought.

Spring (4).

Economic methodologies and doctrines throughout the evolution of the discipline. Major analytical discoveries placed in their historical perspectives. Prerequisites: ECON 250 and 251 or by permission.

320 Comparative Economic Systems.

Fall (4).

Comparisons of market and mixed economies in terms of theory, policies, and performance. Emphasis is particularly on the economics of socialism and the transitions of planned economies in Europe and Asia to ones based on markets. Country cases are used to illustrate important cross-country differences. Prerequisites: ECON 250 and 251, or by permission. Offered as needed.

321 Economic Development. Spring (4).

Development theories grounded in the development patterns of Western and Eastern Europe, North America, Latin America, Australia, and Southeastern Asia. Issues of development and income distribution, population growth, and countries' cultural and economic openness. Comparison of development and growth theory. Prerequisites: ECON 250 and 251 or by permission. Offered as needed.

322 International Trade. Fall (4).

Theories of international trade: What are the theoretical reasons for which countries benefit from trade? Commercial policy: tariffs, quotas, voluntary export restraints, export subsidies, local content requirements, international standards' harmonization. International trade in practice: issues of free trade versus protectionism, customs unions and free trade areas, multilateral agreements and functions of the World Trade Organization. Prerequisites: ECON 250 and 251 or by permission.

323 International Finance. Spring (4).

History, components, and functions of the world financial system. Balance of payment

Economics

analysis. Forces and mechanisms of the foreign currency markets. Short-run and long-run macroeconomic theories in open economy and spill-overs of domestic macroeconomic policies. Current issues on capital market globalization. Prerequisites: ECON 250 and 251. Offered in alternate years.

333 Money, Banking, and Financial Markets. Fall (4), May Term (3).

The financial sector as a partner in strong stable economic activity or source of instability is presented. Emphasis is on financial institutions, their regulation, and sectoral change. Prerequisites: ECON 250, 251. Offered in alternate years.

340 Economics of Race and Gender. Fall (4).

The economic position of women and minorities in society. Racial and sexual discrimination, women's labor force participation, occupational segregation, domestic work, immigration of workers, and racial marginalization in market economies. Mediating influences such as education, spatial forces, and institutional and public policies. Gender/race relations in industrial/Third World countries. Prerequisites: ECON 250 and 251 or by permission.

350 Intermediate Microeconomics. Fall (4), Spring (4).

Theory of the household, the firm, and the market. The logic of market decision making, resource allocation, and efficiency questions. Prerequisites: MATH 118-119 or MATH 121, ECON 250, and ECON 251 or by permission.

351 Intermediate Macroeconomics. Fall (4), Spring (4).

The use of theoretical tools to explain the level and changes in aggregate income, employment, and price level; classical, Keynesian, and new classical approaches; application of theory to problems of national economic policy. Prerequisites: ECON 200, 250, 251, and MATH 118-119 or MATH 121 or by permission.

352 Industrial Organization and Public Policy. Spring (4).

The nature of firms and the theory underlying a wide spectrum of market structures.

The course focus is on behavior and interactions between firms in imperfectly competitive markets and the analysis of the strategies and methods that the firms use to compete or preserve their monopolistic positions. It also examines the social outcomes of the various strategies and actions. Prerequisite: ECON 350 or by permission. Offered in alternate years.

353 Economics of Labor. Spring (4).

Development and utilization of human resources: wage determination, labor force participation, employment patterns, the role of labor organizations, human capital theories, manpower policies and programs. Prerequisites: ECON 200, 250, and 251 or by permission. Offered in alternate years.

354 Public Finance. Spring (4).

Expenditures: the allocative role of federal, state, and local governments; social choice; provision of public goods; the welfare state and income transfer programs; and public policy approaches to correcting diseconomies such as pollution. Revenue: tax incidence, alternative forms of taxation and their impact on efficiency, equity, and economic growth. Prerequisites: ECON 250 and 251 or by permission. Offered as needed.

355 Environmental and Resource Economics. Spring (4), May Term (3).

Overview of the theory and management of natural resource use. Topics include the control of air and waste pollution, solid waste management and recycling, forestry, curbing suburban sprawl, water management, and mitigation of climate change. Issues addressed from both theoretical and empirical perspectives. Prerequisite: ECON 155 or 250 or by permission. ECON 251 recommended. Offered as needed.

356 Managerial Economics. Spring (4).

This course combines economic theory with analytical tools, such as statistics and quantitative methods, to examine how organizations can achieve their aims most efficiently. Students learn how economists approach critical business decisions, such as product pricing and the hiring of workers.

Prerequisites: ECON 200 and 350 or by permission. Offered as needed.

360 Topics in Economics.

Fall (4), Spring (4).

Focus on various topics in economics. May satisfy an elective course requirement with departmental approval. Prerequisites: ECON 250, 251 and by permission. May be repeated for degree credit once, given a different topic. Offered as needed.

365 Topics in Political Economy.

Fall (4), Spring (4).

Analyzes the interactions among various dimensions of social formations—such as the economy, the state, class structures, and ideology—with a specific emphasis on heterodox economic paradigms, which may include feminist, humanistic, institutionalist, Marxist, and post-Keynesian approaches to economic theory and policy. Prerequisites: ECON 200, 250, and 251 or by permission. May be repeated for degree credit for a maximum of 8 credits, given a different topic. Not regularly offered. NU and EV only.

460 Advanced Topics in Economics.

Fall (4), Spring (4).

Continuation of a specific upper-division course in economics allowing students to pursue topics beyond one semester. Prerequisites: by permission and upper-division economics course in the area covered. It may satisfy an elective course requirement with departmental approval. May be repeated for degree credit given different topics. Offered as needed.

465 Senior Seminar in Economics.

Fall (4), Spring (4).

Independent student research on one or more economic problems. Discussion, debate, and critical analysis of a variety of topics in a seminar setting. Open to majors only. Prerequisites: six courses in economics, including ECON 350 and 351 or by permission.

466 Senior Seminar in Economics:

Part 1. Spring (2).

Independent student research on one or more economic problems. Discussion, debate, and critical analysis of a variety of topics in a seminar setting. Open to majors only. Must be taken in sequence before ECON 467. Prerequisites: six courses in economics, including ECON 350 and 351 or by permission. Offered as needed. NU only.

467 Senior Seminar in Economics: Part 2.

May Term (2).

Independent study research on one or more economic problems. Discussion, debate, and critical analysis of a variety of topics in a seminar setting. Open to majors only. Must be taken in sequence after ECON 466. Prerequisites: six courses in economics, including ECON 350 and 351 or by permission. Offered as needed. NU only.

486 Economics Internship.

Fall (3–14), Spring (3–14).

Education

THE FACULTY

Janée Both Gragg
 Joe Castino
 Rod Goodyear
 Nick Halisky
 Chris Hunt
 Jose Lalas
 Phil Mirci
 Ross Mitchell
 Marjo Mitsutomi
 Ronald Morgan
 Bobby Ojose
 Susan Porter
 Conroy Reynolds
 Pauline Reynolds
 Shyreya Roberson
 Alayne Sullivan
 Lonnie Urbina

Preliminary Teacher Credential Program

The School of Education offers both the Multiple Subject (elementary school) and Single Subject (secondary, including middle and high school) Teacher Credential Programs. The programs are accredited by the California Commission on Teacher Credentialing (CCTC) and are aligned with SB 2042 standards and mandates. Students intending to pursue a career in teaching should consult the School of Education section of this *Catalog* to understand both the requirements and opportunities for study leading to credentials and advanced degrees in education.

Enrollment

Undergraduates who want to begin teacher credential coursework before completing their baccalaureate degree need to complete a separate form which requests permission to enroll in the credential courses. Education admissions counselors and the teacher education advisor in the School of Education (located in University Hall North) are available to answer questions and explain the prerequisites and request-to-enroll process. Upon approval to enroll in the Teacher Credential Program, undergraduates may begin to take the sequence of teacher education courses required to obtain a California Preliminary Teacher Credential.

Advising

Students interested in becoming teachers are encouraged to complete prerequisite courses for admission to the Teacher Credential Program during their undergraduate program of study and to contact the School of Education regarding their intention to pursue a teaching credential. The coursework and non-coursework requirements for admission to the Teacher Credential Program are described in the School of Education section of this *Catalog*.

The integration of teacher credential classes with undergraduate coursework is facilitated by collaborative advising between the College of Arts and Sciences and the School of Education. Students interested in cross-enrollment should discuss their plans with their faculty advisor, followed by consultation with the teacher education advisor in the School of Education. Permission of both advisors is required for cross-registration.

Cross-registration with Arts & Sciences

Full-time School of Education students may cross-register for one Arts and Sciences course per term as part of their degree program with the approval of their academic advisor, provided the course does not duplicate a School of Education offering. Classes must be at the intermediate or advanced level. Arts and Sciences add requests must be signed by the student's academic advisor and the Registrar. Part-time students are subject to the same regulations applicable to full-time students.

Program Application and Admission Requirements for the Preliminary Teacher Credential

Application Requirements

Completed Request-to-Enroll form

- Evidence of a 2.75 cumulative undergraduate GPA or approved petition
- Completion of Child Development course or its equivalent

Admission Requirements

- Verification of passing CBEST
- Evidence of 50 hours of observation or work with children
- Proof of Certificate of Clearance
- Registration for one sub test of the CSET
- Evidence of negative T.B. test results within last two years
- Two letters of recommendation from professionals

Subject Matter Competency

All teacher credential candidates must demonstrate competency in their specific subject matter area. In the state of California, this requirement can be met by successful completion of one of the alternatives described below.

Multiple Subject (teaching in elementary schools) must:

- Pass Multiple Subject CSET (sub test I, II, III)

Single Subject (teaching single-content areas in middle or high schools) candidates must either:

1. Pass state-approved examinations (CSET) in their specific subject matter area, or
2. Complete a state-approved, single-subject waiver program.

Before teacher credential candidates are allowed to student teach, competency in related subject matter content areas must be evidenced either by passing the CSET or by having completed at least four-fifths of an approved subject matter competency program. A student who successfully

completes a waiver program does not need to pass the state-approved subject competency examinations.

Required Courses for Multiple Subject Teacher Credential

10 courses 30 credits

- EDUG 401 Educational Foundations (3)
- EDUG 403 Multiple Subject Curriculum and Methods I (Math and Science) (3)
- EDUG 400A Multiple Subject Fieldwork Clinic I (1)
- EDUG 405 Multiple Subject Literacy and Language I (3)
- EDUG 407 Multiple Subject Curriculum and Methods II (3)
- EDUG 400B Multiple Subject Fieldwork Clinic II (1)
- EDUG 409 Multiple Subject Literacy and Language II (3)
- EDUG 452 Teaching Seminar (3)
- EDUG 453A Student Teaching I (5)
- EDUG 453B Student Teaching II (5)

Required Courses for Single Subject Teacher Credential

10 courses 30 credits

- EDUG 401 Educational Foundations (3)
- EDUG 402 Teaching and Learning in Secondary Schools (3)
- EDUG 400C Single Subject Fieldwork Clinic I (1)
- EDUG 404 Single Subject Literacy and Language (3)
- EDUG 406 Single Subject Content Teaching (3)
- EDUG 400D Single Subject Fieldwork Clinic II (1)
- EDUG 408 Single Subject Content Area Literacy (3)
- EDUG 452 Teaching Seminar (3)
- EDUG 453A Student Teaching I (5)
- EDUG 453B Student Teaching II (5)

Education

Course Descriptions (EDUG)

310 Introduction to Second Language Acquisition. (3).

For teachers and prospective teachers seeking a teaching credential. Theories and research on language learning, language structure and use of theories and factors in first- and second-language development are studied. Examination of effective teaching strategies that empower teachers while teaching second-language learners.

331 Child Development. Fall (3), Spring (3).

Cognitive, social, and language development of children from birth through adolescence; various learning theories and their implications for the timing of instruction; developmental implications for teaching the whole child.

400A Multiple Subject Fieldwork Clinic I. Fall (1), Spring (1).

Candidates will focus on the successful completion of the Teacher Performance Assessment (TPA) Task 1: Principles of Content-Specific and Developmentally Appropriate Pedagogy. Responses will require observation in classrooms and work with individual student learners. Requisite: permission from the School of Education.

400B Multiple Subject Fieldwork Clinic II. Fall (1), Spring (1).

Candidates will focus on the successful completion of the Teacher Performance Assessment (TPA) Task II: Principles of Content-Specific and Developmentally Appropriate Pedagogy. Responses will require observation in classrooms and work with individual student learners. Requisite: permission from the School of Education.

400C Single Subject Fieldwork Clinic I. Fall (1), Spring (1).

Candidates focus on the successful completion of the Teacher Performance Assessment (TPA) Task I: Principles of Content-Specific and Developmentally Appropriate Pedagogy. Responses will require observation in classrooms and work with individual student

learners. Requisite: permission from the School of Education.

400D Single Subject Fieldwork Clinic II. Fall (1), Spring (1).

Candidates will focus on the successful completion of the Teacher Performance Assessment (TPA) Task II: Principles of Content-Specific and Developmentally Appropriate Pedagogy. Responses will require observation in classrooms and work with individual student learners. Requisite: permission from the School of Education.

401 Educational Foundations. Fall (3), Spring (3)).

Introduction to the field of education—its history, philosophy, sociocultural context, diversity, pedagogy, educational psychology, legal issues, and educational reform. Integrates traditional educational thinking with culturally relevant perspectives and current research practices. Field experiences required with observations and reflections. Not open to students who have received credit for EDUC 501. Prerequisite: permission to enroll in Teacher Credential courses from the School of Education.

402 Teaching and Learning in Secondary Schools. Fall (3), Spring (3).

Introduction to adolescent development, curriculum instructional methods, assessment, and diagnostic strategies pertaining to secondary schools. Focus includes teaching and assessment methodology, including methodologies of English Language Development (ELD) and Specially Designed Academic Instruction in English (SDAIE). Field experience required. Not open to students who have received credit for EDUC 502. Prerequisites: EDUC 401 and permission from the School of Education.

403 Multiple Subject Curriculum and Methods I (Math and Science). Fall (3), Spring (3).

Elementary math and science teaching strategies and curriculum. Teaching informed by California K-12 content standards and frameworks with a focus on assessment and ELD/SDAIE strategies. Experiences with hands-on,

computer-based inquiry lesson development. Field experience required. Not open to students who have received credit for EDUC 503. Prerequisites: EDUG 401 and permission from the School of Education.

404 Single Subject Literacy and Language. Fall (3), Spring (3).

Develops understanding of the theoretical frameworks and processes involved in secondary literacy instruction. Fundamentals of language-acquisition theory, including basic concepts in linguistics will be covered. Focuses on content-based literacy instruction. Provides an introduction to systematic, explicit, and meaningfully-applied instruction in reading, writing, and related language skills. Field experience required. Not open to students who have received credit for EDUC 504. Prerequisites: EDUG 401 and permission from the School of Education.

405 Multiple Subject Literacy and Language I. Fall (3), Spring (3).

Develops understanding of theoretical frameworks and processes in elementary literacy instruction. Fundamentals of language-acquisition theory, including linguistic concepts will be covered. Focuses on emerging literacy-instruction strategies for English learners and English speakers. Provides an introduction to systematic, explicit, and meaningfully-applied instruction in reading, writing, and related language skills. Field experience required. Not open to students who have received credit for EDUC 505. Prerequisites: EDUG 401 and permission from the School of Education.

406 Single Subject Content Teaching. Fall (3), Spring (3).

Development of methodology and strategies related to curriculum and instructional methods, assessment, and diagnostic strategies pertaining to the content areas in secondary schools. Focus includes teaching and assessment methodology, including advanced teaching methodology Cognitive Academic Language Learning Approach (CALLA). Field experience required. Not open to students who have received credit

for EDUC 506. Prerequisites: EDUG 401 and permission from the School of Education.

407 Multiple Subject Curriculum and Methods II. Fall (3), Spring (3).

Elements of curriculum design, assessment, classroom management and instructional methodologies. Emphasis on the integration of language arts and social studies. Includes content standards, frameworks, and ELD/SDAIE strategies. Field experience required. Not open to students who have received credit for EDUC 507. Prerequisites: EDUG 401 and permission from the School of Education.

408 Single Subject Content Area Literacy. Fall (3), Spring (3).

Develops understanding of theoretical frameworks and processes in secondary-literacy instruction. Focuses on literacy development in the content areas. Candidates develop strategies to promote the reading-writing connection. Discussion focuses on explicit strategies and methods for guiding and developing the content-based reading and writing abilities of all students. Field experience required. Not open to students who have received credit for EDUC 508. Prerequisites: EDUG 401 and permission from the School of Education.

409 Multiple Subject Literacy and Language II. Fall (3), Spring (3).

Enhances understanding of the theoretical frameworks and processes involved in elementary literacy instruction. Focuses on effective practices to promote literacy skills among students of diverse cultures, languages, gender, ethnicity, and children with special needs. Introduces elementary curriculum, and addresses early diagnostic and intervention techniques. Not open to students who have received credit for EDUC 509. Prerequisites: EDUG 401 and permission from the School of Education.

452 Teaching Seminar. Fall (3), Spring (3).

Culmination of the Teacher Credential Program. Consists of a series of topics designed to further develop candidates' professional preparation. Serves also as a summary of course and fieldwork experience. Provides time for candidates to link theory to

Education

daily practice and prepares them for seeking a position in a school district. Not open to students who have received credit for EDUC 552. Prerequisite: permission from the School of Education.

453A Student Teaching I.

Fall (5), Spring (5).

Supervised classroom experiences in Pre-K through grade 12. Full-day student teaching required for one semester, constituting a full-time job. Student teaching placements are arranged prior to student teaching by the Director of Fieldwork Experiences. EDUG 453A must be scheduled concurrently with EDUG 452 Teaching Seminar. Not open to students who have received credit for EDUC 553A. Prerequisite: permission from the School of Education. CN only.

453B Student Teaching II.

Fall (5), Spring (5).

Supervised classroom experiences in Pre-K through grade 12. Full-day student teaching required for one semester, constituting a full-time job. Credit for both 453A and 453B precedes recommendation for a multiple or single subject credential. Student teaching placements are arranged prior to student teaching by the Director of Fieldwork Experiences. Must be taken with the second half of EDUG 452. Not open to students who have received credit for EDUC 553B. Prerequisite: permission from the School of Education. CN only.

460 Careers in Higher Education. May Term (3).

Within the context of American higher education, this seminar will explore career opportunities in higher education for exceptional undergraduate students. Emphasis will be given to the life of faculty and administrators, preparation for careers, and leadership in higher education. Content will be guided by the interests and needs of the students.

462 Educator's Workshop. (1-4).

Designed to reflect curriculum trends and issues in education, these workshops are current and topical.

English: Literature and Writing

THE FACULTY

Nancy Carrick
 Anne Cavender
 Claudia Ingram
 Priya Jha
 Daniel Kiefer
 Heather King
 Sheila Lloyd
 Sharon Oster
 Judith Tschann

The English Department fosters students' love of literature through rigorous examination of texts, challenging discussion, thoughtful writing, and training in different theoretical approaches. Students explore the works of important writers in multiple genres from many countries and time periods, as well as the ideas, cultural values, and debates literature presents, supported by a faculty with diverse interdisciplinary interests. The skills practiced in our curriculum foster a deeper understanding of the English language, independent thought, and critical acumen, all of which prepare students for such varied careers as advertising, creative writing, law, journalism, public relations, publishing, and teaching.

Learning outcomes for this program may be found at:
www.redlands.edu/academics/college-of-arts-sciences/undergraduate-studies/english/9460.aspx.

THE MAJOR

The required courses are designed to help students acquire a sensitivity to linguistic nuance and power, and an ability to communicate persuasively.

The Bachelor of Arts

Requirements: Minimum of 11 courses

There are four core courses required for the English major, two taken at the sophomore level, two at the senior level:

Core

4 courses 16 credits

- ENGL 201 Critical Reading (4)
- ENGL 202 Texts and Contexts (4)

- ENGL 402 History of Literary Criticism and Theory (4) OR ENGL 403 Contemporary Literary Criticism and Theory (4)
- ENGL 420 Senior Seminar in Literature (4)

Electives

7 courses 28 credits

In addition to these four courses, majors will choose (in consultation with their advisors) seven courses from department offerings that will broaden and deepen their literary studies. At least one course from these seven should be devoted to literature prior to 1800, and at least four of them must be at the 300 level or above.

Recommendations

- Students should think carefully about breadth in choosing their classes, taking a thoughtful combination of historical time periods, critical methodologies, and national traditions.
- Subject to departmental approval, upper-division literature classes in a foreign language may fulfill a student's advanced major requirements.
- Subject to departmental approval, Johnston seminars may fulfill a student's major requirements.

Departmental Honors

A departmental honors program is available for exceptionally able and motivated students. Students with a GPA of 3.5 or higher in the major may apply for admission into the honors program in the Fall semester of their senior year by submitting a thesis proposal to the department; admission will be granted by affirmative vote of the faculty. Students pursuing honors will present their research projects at the annual Eaton Symposium. Students will be granted honors upon completion of a successful oral defense and any required revision of the thesis. Interested students should consult their advisors for information about application procedures and requirements no later than the second semester of their junior year.

English: Literature and Writing

Subject Matter Teaching Credential

Students who want to be certified to teach English need to pass the PRAXIS, SSAT, and CBEST examinations. The best preparation for these examinations is a B.A. in English. Consult with the department chair and meet with an advisor in the School of Education for information concerning certification and the Basic Teaching Credential Program (including student teaching). Also, see the School of Education section of this *Catalog* for a detailed list of other requirements.

THE MINOR

This minor is designed for the student who wishes to read, discuss, and enjoy novels, plays, stories, poetry, and literary theory as part of a broad liberal education. The minor in literature consists of a minimum of 24 credits:

6 courses. 24 credits

- ENGL 201 Critical Reading (4) OR
ENGL 202 Texts and Contexts (4), plus
one additional 200-level course
- Four courses in literature numbered
300 or above. Please consult with a
departmental advisor or the department
chair in choosing these classes.

Advanced Placement in English

Students who score three, four, or five on the test for Advanced Placement in English Language/Composition will receive 4 credits for ENGL 102. See Graduation Requirements, Writing Across the Curriculum, for information concerning the effect of these scores on writing placement.

Students with AP scores of four or five are also exempt from the Writing Proficiency Exam. All students complete the Liberal Arts Foundation requirement in writing by taking any course labeled WB in the Schedule of Classes after they attain junior standing.

Students who score four or five on the test for Advanced Placement in English Literature/Composition will receive 4 credits for ENGL 112.

Sigma Tau Delta

Majors and minors in English are eligible for membership in Sigma Tau Delta, an international honor society. Sigma Tau Delta serves as a way to recognize outstanding achievement, foster the love of writing and reading, and give members an opportunity to share those passions with the community around them through social activities and service projects of their own design. To be eligible, students must have:

- completed three semesters of college
- achieved a 3.5 GPA in the major/minor
- ranked in the top third of their class for overall GPA

Application materials are available in the English Department Office. Sigma Tau Delta is also open to Creative Writing majors and minors, as well as Johnston students with applicable emphases.

Awards

Each spring, the department awards the Eugene Kanjo Prize for Excellence in Literary Studies to a graduating senior for outstanding work in literary criticism. Students are invited by the faculty to apply for consideration.

The Writing Lab

The Writing Lab is available to all College of Arts and Sciences students. The lab offers one-on-one peer tutoring for students who want assistance with essay writing. Tutors are students who have demonstrated writing talent and have completed "Peer Tutor Training," a course in the theory and practice of tutoring writing.

Tutors help students clarify the purpose and focus of their papers, ascertain their audience, and explore appropriate organizational schemes. Tutors may design specific exercises in mechanics or punctuation, but they will not proofread essays; their role is to assist students in all stages of the composing process and to help foster necessary writing skills.

Course Descriptions (ENGL)

Note: All English classes are offered for NU or EV except for English 101, English 301, and English 308, which are offered for CN only.

100 Expository Writing.

Fall (4), Spring (4).

Introduction to college-level reading and writing practices. Students learn to compose for college audiences, to read texts actively, and to make interpretations and claims. Practice in generating ideas, drafting, revising, and editing.

101 Writing Tutorial. Fall (1), Spring (1).

Weekly tutorial meetings to review essays and practice critical reading and writing skills. May be repeated for up to three degree credits. CN only.

102 Critical Thinking and Writing.

Fall (4), Spring (4).

Attention to developing critical reading, thinking, and writing at the college level. Introduction to writing as a process, with emphasis on an awareness of audience, purpose, and rhetorical situation through drafting and revising. Students analyze college-level texts and develop rhetorical strategies for exposition and argument. Restricted grading option: students must earn a grade of 2.0 to receive credit.

110 Poetry. Fall (4), Spring (4).

Introduction to poetry and creative expression. Examination of sound, rhythm, and majesty in poetry with a focus on how a poem speaks of our lives.

112 Fiction. Fall (4), Spring (4).

Intensive study of the uses of language to convey and evoke experience. Readings are international in scope, including works of many cultures and countries. Assignments develop skills in analytical reading and writing.

114 War in Literature and Film.

Fall (4), Spring (4).

Exploration of ways in which war is reflected in literature and film, including a variety of genres. Consideration of ethical issues is integral to the course. Extensive writing and active class discussion are required.

118 Literature of the Bible.

Fall (4), Spring (4), May Term (3).

Introduction to the Old and New Testaments. Survey of the contents of the Bible and a study of the various types of literature included. Though this is not a course in Biblical history or criticism, the creation of the canon and critical stances from which the Bible can be read are noted.

119 World Literature. Fall (4), Spring (4).

Examines texts written in English and/or in translation from a variety of national traditions within a global context. Focus will vary with instructor, but may include novels (*Beowulf*, *Things Fall Apart*), films (*Rashomon*, *Persepolis*), poetry, and drama (*The Peony Pavilion*, *The Swamp-Dwellers*).

120 Contemporary Literature.

Fall (4), Spring (4).

Cultures are continually reinvented by the people who live them, and literary culture is no different. This course focuses on the study of literature written by contemporary authors, and will consider the question of why reading new writing matters. Special attention to developing critical and analytical skills.

124 Literary Traditions.

Fall (4), Spring (4).

Investigates a variety of traditions—generic, national, topical, etc. Focuses on how texts “speak” to one another, whether building upon a foundation or questioning it. Political and historical contexts, innovation, development and changing literary conventions are foregrounded. Reading, writing and discussion ground students in the central practices of literary analysis.

126 Literary Inquiries.

Fall (4), Spring (4).

Explores different kinds of literature—stories, poems, and plays—studying idiom and culture. In discussion, students discover new ways to interpret literature. In their critical writing, they investigate and employ the power of language. They acquire a grounding in the analytic practice for the serious study of literature.

English: Literature and Writing

130 Literature of the Americas.

Fall (4), Spring (4).

This course explores American literature broadly, whether defined by regional boundaries, such as nation or hemisphere, or cultural ones, such as identity, language, custom, or shared history. Covers multiple genres and periods. Special attention to developing skills in critical reading, literary analysis, and argumentative writing.

161 Studies in Literature.

Fall (4), Spring (4), May Term (3).

Selected topics, themes, or authors in literary fields. May be repeated for degree credit, given different topics, for a maximum of 8 credits. Offered as needed.

201 Critical Reading. Fall (4), Spring (4).

An introduction to close critical reading of texts in several genres and to argument about literary texts. Students will attend to the characteristics and effects of literary language, and will explore varieties of form, structure, style, and genre. They will also be introduced to a basic vocabulary of literary critical terms. Prerequisite: one 100-level literature class or comparable first-year seminar or by permission.

202 Texts and Contexts.

Fall (4), Spring (4).

An introduction to literary traditions and counter-traditions, exploring notions of authorship, authority, and canonicity. Students will practice a variety of approaches to analysis and interpretation, incorporating literary theory as a guide to interpretation and as a stimulus to inquiry. They will also be introduced to academic conventions of literary study. Prerequisite: ENGL 201.

203 Intermediate Composition.

Fall (4), Spring (4).

Practice in expository prose with emphasis on explanation, interpretation, and argument. Students write essays of varied length, complexity, and mode. Emphasis on understanding the writing process through drafting and revision. May be repeated for degree credit for a maximum of 8 credits.

206 Composing in New Media.

Fall (4), Spring (4).

Practice in modes of reading and writing enabled by new media. Introduction to a range of issues, theories, and practices relevant to working in new media environments. May include writing in digital environments, digital video, weblogs, document, and web design.

210 Poetry. Fall (4), Spring (4).

Exploration of the structures of lyric poetry, with a focus on rhythm, figuration, and tonality. Texts are chosen from a wide range of poets, with an ear for the sheer pleasure of poetic language.

212 Fiction. Fall (4), Spring (4).

Survey of representative English, American, and European novels from the 18th century to the present.

213 Drama. Fall (4), Spring (4).

Study of dramatic forms in various cultures and periods. May be repeated for degree credit given a different topic.

215 Children's Literature.

Fall (4), Spring (4), May Term (3).

The stories we tell children can explain away fears or inculcate desired values or behaviors. Children's stories also reveal how we define childhood (and adulthood). This course covers a range of literature from a variety of time periods and genres, analyzed from a variety of theoretical positions. Prerequisite: sophomore standing; one literature course recommended or by permission.

216 Poetry East-West. Fall (4), Spring (4).

Comparative study of poetry from the Chinese, European, and American traditions. Attentive reading of poems from all periods with the aim of exploring similarities and differences between these two traditions. Introduction to theoretical disputes about what poetry is or does in both traditions and to issues in translation.

217 Images of Women.

Fall (4), Spring (4), May Term (3).

Focuses on representations of women and girls, and on the construction of gender in a variety of texts, and explores the critical

significance of those representations. Primary texts (literature, film, and/or popular culture), historical periods, and critical approaches, will vary depending on instructor.

221, 222 Shakespeare.

Fall (4), Spring (4).

The first semester, Shakespeare to 1600, A.D. covers early plays and the sonnets, the literary traditions and backgrounds of the plays, Shakespeare's language and theatre. The second semester covers plays written after 1600 with emphasis on interpreting irony and tragedy through dramatic structure and imagery.

223 Shakespeare in Adaptation.

Fall (4), Spring (4).

In this course, Shakespeare's works will be paired with the imitations, spin-offs, adaptations, and parodies they have inspired. Questions of the choice and implications of adaptation will be addressed, as well as generic conventions and the relationship of literature, history, and politics. Prerequisite: Sophomore standing or by permission.

230 American Jewish Literature.

Fall (4), Spring (4).

Introduction to American Jewish literature from the 19th century forward. Covers genres including poetry, drama, and film, with strong emphasis on fiction. Explores Jewish writing in the U.S. in relation to immigration, the labor movement, the Holocaust, and orthodoxy, and Jewishness at the crossroads of race, ethnicity, religion, and culture. Offered as needed.

233 African American Literature.

Fall (4), Spring (4).

Literature from the 18th century to the present. Major trends and themes are examined from historical, social, and psychological perspectives.

237 Immigrant Literature.

Fall (4), Spring (4).

Introduction to literature of U.S. immigration from the 19th century to the present. We will explore immigrant experience in terms of race, ethnicity, and national identity; cultural, religious, gender, and generational tensions; and assimilation in theory and practice, from

the perspectives of those in the process of becoming Americans. Offered as needed.

239 Chicana/o Literature.

Fall (4), Spring (4).

Serves as an introduction to contemporary Chicana/o literature, emphasizing historical and cultural contexts. This class will focus on a body of work that emerges from the Chicana/o movement in the 1960s and that continues to evolve as an expression of artistic and socio-political self-determination. Offered as needed.

242 Studies in Language.

Fall (4), Spring (4).

Topics vary and include introduction to linguistics; history of English; linguistic approaches to literary criticism; bilingualism and issues in sociolinguistics; innate concepts, hard-wired grammar, language and the brain; metaphoric and literal language; and history of approaches (e.g., Plato, Augustine, Condillac, Saussure, Chomsky, Kristeva). May be repeated for credit given different topics for a maximum of 8 credits. Offered as needed. Prerequisite: sophomore standing or by permission.

250 Theories of Popular Culture.

Fall (4), Spring (4).

Why should we take popular culture seriously, and how do we read it critically? An introduction to the methods, issues, and theories developed and applied within the interdisciplinary field of Cultural Studies, including semiotics, structuralist and post-structuralist approaches, ideological analyses, as well as feminist and ethnic studies-based methods. Offered as needed.

251 Postcolonial Literature and Criticism.

Survey of critical and creative texts from nations that have experienced colonization by European empires, particularly Britain. Studies how national, cultural, and individual identities have been radically altered by this experience. Themes include identity, power, migration, race, gender, representation and resistance. Pays close attention to social, cultural, and historical contexts.

English: Literature and Writing

Prerequisite: One previous literature course required or by permission.

256 Native American Literature.

Fall (4), Spring (4).

Introduction to contemporary Native American literature. Covers a breadth of genres: essays, poetry, short fiction, and film. Historical, cultural, and political approaches will shape class discussions, and students will engage in extensive textual analysis. We will consider carefully the role of American Indian women writers in this evolving tradition. Offered as needed.

261 Studies in Literature.

Fall (4), Spring (4).

Selected topics, themes, or authors in literary fields. May be repeated for degree credit for a maximum of 8 credits given different topics. Offered as needed.

301 Advanced Writing Conference.

Fall (1), Spring (1).

Weekly conference meetings to review writing produced for upper-division classes and to practice skills required for writing in the disciplines. CN only.

302 Advanced Composition.

Fall (4), Spring (4).

Advanced practice in analyzing rhetorical situations to understand the conventions at work. Attention to developing a greater sensitivity to language through critical reading of complex and varied texts. Students explore the conventions of academic prose genres through intensive drafting and revision. Prerequisites: completion of the WA requirement and sophomore standing or by permission.

308 Critical Writing Workshop: Peer Tutor Training. Fall (3).

Practicum in peer tutoring. Introduction to theories and practices of writing consultation to prepare students to tutor writing at the college level. Prerequisite: by recommendation only. CN only.

309 Advanced Argumentative Writing.

Fall (4), Spring (4).

Advanced practice in the analysis and writing of arguments for a variety of settings: academic, professional, organizational, and artistic. Students study methods for the construction of sophisticated arguments through thoughtful engagement with complex readings. Emphasis on employing and challenging the conventions of written argument through intensive drafting, revision, and peer review. Prerequisite: junior or senior standing or by permission.

311 Film and Literature.

Fall (4), Spring (4).

Study of the practice and theory of adapting film from literature, demonstrated in select literary works made into feature films. Prerequisite: VMS 111 recommended or by permission.

317 Women's Literature.

Fall (4), Spring (4).

Focuses on literature written by women and why that particular focus matters to us as readers and as critics. Students will engage in extensive textual analysis of both creative and critical texts. Historical periods, critical approaches, and national traditions will vary, depending on the instructor. Prerequisite: one literature course recommended or by permission.

320 Medieval Literature.

Fall (4), Spring (4).

Course focuses on literary works from the Old and Middle English periods, but includes works written on the Continent and is interdisciplinary in approach, incorporating linguistics, manuscript studies, discussion of oral versus written culture, Gregorian chant, the Bayeux Tapestry, an archaeological dig, and court documents in our literary study. Primary sources from literature, philosophy, and art. Prerequisite: ENGL 202 or by permission.

321 Renaissance Literature.

Fall (4), Spring (4).

Study of an exuberant period, characterized by zeal for new learning, for mastering the demands of the physical world, and for

scholarship, art, and ethics. Course readings provide different perspectives of the Renaissance as you witness characters and actions and study them within their historical context. Prerequisite: ENGL 202 or by permission.

322 The Eighteenth Century: Regicides, Libertines, Bluestockings, and Fops.

Fall (4), Spring (4).

From 1660-1820, British culture was characterized by fear of invasion, scientific experiment, political debate, "shopping," colonial expansion, and anxieties about how to control all of this novelty. Explores dynamic literary, philosophical, and cultural energies shaping the precursor of our modern world. Prerequisite: ENGL 202 or by permission.

323 The Romantics. Fall (4), Spring (4).

We will explore different kinds of Romantic imagination through topics such as the intertextuality of William Wordsworth, Dorothy Wordsworth; Coleridge, Blake, and Byron's eccentric long poems; and the ways in which Jane Austen and Mary Wollstonecraft responded to the "woman question." Prerequisite: ENGL 202 or by permission. Offered as needed.

324 Victorian Literature.

Fall (4), Spring (4).

Study of a complex age of expansion and power, and of the growth of the novel, as well as experimentation in poetic forms. Topic and texts vary. Prerequisite: ENGL 202 or by permission. Offered as needed.

325 Modernism. Fall (4), Spring (4).

Modernism has become a standard term for the self-conscious revolutions in art, circa 1880-1930. We study the modernists on their own terms, and also from our vantage point a century later. Conrad, Lawrence, Joyce, Mansfield, Yeats, Woolf, and others. Prerequisite: ENGL 202 or by permission. Offered as needed.

330 American Literature 1620–1860: Republicans and Revolutionaries.

Fall (4), Spring (4).

Exploration of major movements and themes from America's beginnings to the Civil War.

Includes Puritanism, Transcendentalism, Romanticism, the radical creation of the republic, and the search for an American identity, as well as careful study of some of the best American writing through the first half of the 19th century. Prerequisite: ENGL 202 or by permission.

331 American Literature: Industry and Enterprise. Fall (4), Spring (4).

Between the Civil War and World War I, America experiences a "golden age," a "gilded age," and an "age of industry." In what manner, and on whose terms, does America come to recognize itself and its experience? May include works by Whitman, Dickinson, Chestnut, Twain, James, Wharton, Crane, and Dreiser. Prerequisite: ENGL 202 or by permission.

332 American Literature: Making it New. Fall (4), Spring (4).

Examination of American literature from World War I and the beginnings of modernism through post-modern and contemporary poetry and prose. This course will explore the American identities articulated—and subverted—in 20th-century literature, and will examine stylistic innovation in writers from T.S. Eliot and Jean Toomer to Toni Morrison and John Ashbury. Prerequisite: ENGL 202 or by permission.

333 Topics in African Diasporic Literatures. Fall (4), Spring (4), May Term (3).

This course allows students to extend their knowledge of African-American literature and to study in depth a topic related to African-diasporic literatures. The selection of topics will vary depending on the instructor, but may include questions of representation, transnationalism, sexuality, and the influences of critical theory. Prerequisite: ENGL 202 or by permission. Offered as needed.

334 Representing the Holocaust.

Fall (4), Spring (4).

This course examines a range of Holocaust representations in memoirs, diaries, fiction, poetry, film, and historiography. Explores themes of bearing witness, trauma and the work of memory, fiction and history, and the

English: Literature and Writing

contradictions between ethics and aesthetics. Prerequisite: a literature course or by permission. Offered as needed.

351 Studies in Postcolonialism.

Fall (4), Spring (4).

This advanced class in postcolonial literatures spans geographical regions such as Africa, South and Southeast Asia, the Caribbean, the United States, Britain, and the Pacific Rim. Critical theory frames topics that vary each term and may include "Globalization and Literature," "Orientalism," "Partition Literatures," and "Post-colonial Women's Literatures." Prerequisite: one previous literature course required or by permission. ENGL 251 recommended.

361 Studies in Literature.

Fall (4), Spring (4).

Selected topics in literary figures and themes. Prerequisite: ENGL 202 or by permission.

362 Single-Author Seminar.

Fall (4), Spring (4).

Studying a single author in depth, situating his or her works in their social, historical, and literary context. Authors include figures from any point in the Anglophone literary tradition, including Chaucer, Milton, Austen, Dickens, Melville, Joyce, Woolf, Faulkner, Williams, Merrill, Morrison, Rushdie, and many others. May be repeated for degree credit, given different topic, maximum 8 credits.

402 History of Literary Criticism and Theory. Fall (4).

Survey of literary criticism from ancient times to the middle of the 20th century. Combines representative readings of influential critics with imaginative writing. Prerequisite: junior standing or by permission.

403 Contemporary Literary Criticism and Theory. Spring (4).

Exploration of representative schools of current literary theory. Topics may vary, but the course is a combination of theory with readings in fiction and poetry. Prerequisite: junior standing or by permission.

420 Senior Seminar in Literature.

Fall (4).

Capstone course designed to allow students to reflect upon and synthesize their work in the major. Requirements include: a portfolio of representative work, including a reflective narrative; a teaching component; a research-supported essay demonstrating substantial new work, whether a revision of a previous essay or a new undertaking. Prerequisite: senior standing or by permission.

Environmental Studies

THE FACULTY

Lamont Hempel
Daniel Klooster
Timothy Krantz
Blodwyn McIntyre
Stuart Noble-Goodman

THE MAJORS

Students may elect a Bachelor of Arts in Environmental Studies or in Environmental Business, or a Bachelor of Science in Environmental Science or in Environmental Management. In addition, Johnston students may develop an individual contract to study areas related to the environment.

Learning outcomes may be found at: www.redlands.edu/academics/college-of-arts-sciences/undergraduate-studies/environmental-studies/9464.aspx.

Core Courses

8 courses 30-32 credits

Required of all EVST majors. Courses in bold are recommended for most students:

Overview of the field:

- EVST 100 Introduction to Environmental Studies (4), or equivalent.

Earth Science - 1 course chosen from:

- EVST 102 Environmental Geography of Southern California (4)
- EVST 210 Energy and Environment (4)
- EVST 220 Physical Geography (4)
- EVST 242 Food and Nature (4) OR
- EVST 254 Climate Disruption (4)

Living Systems - 1 course chosen from:

- EVST 225 California Plants: Taxonomy and Ecology (4)
- EVST 230 Biodiversity (4)
- EVST 245 Marine Environmental Studies (4)
- EVST 255 Ornithology (4) OR
- EVST 305 Ecology for Environmental Scientists (4)

Spatial Analysis - 1 course chosen from:

- EVST 110 Introduction to Spatial Analysis and GIS (4) OR approved certificate in GIS

Environmental Values/Ethics - 1 course chosen from:

- EVST 215 Environmental Literature (4)
- EVST 300 Environmental World Views (4)
- EVST 335 Environment and Development (4)
- REL 122 Religion and Ecology: Environmental Ethics (4) OR PHIL 330 Ethics and the Environment (4)

Environmental Assessment and Problem Solving - 1 course chosen from:

- MATH 231 Introduction to Modeling (4)
- EVST 235 Environmental Impact Assessment (4)
- EVST 250/350 Environmental Design Studio (4) OR EVST 330 Environmental Policy Clinic (4) OR approved Environmental Assessment course

Practicum:

Complete one of the following:

- Environmental Study Abroad, EVST internship, EVST travel course, OR approved environmental community service

Capstone Senior Project (2-4 credits, spring semester of senior year):

- EVST 475 Capstone Senior Project in Environmental Studies (2-4)

Note: Courses counted toward the core requirements may not be double counted to meet requirements within the tracks.

The Bachelor of Arts: Environmental Studies

Core Courses plus:

5 courses 20 credits

Two EVST electives - chosen from:

- EVST 225 California Plants: Taxonomy (4) OR EVST 230 Biodiversity (4)
- EVST 305 Ecology for Environmental Scientists (4)
- EVST 260/360 may also be accepted, given appropriate topics
- CHEM 102 Introduction to Chemistry of the Environment (4)

Environmental Studies

- CHEM 131, 132 General Chemistry (4)
- BIOL 107 Concepts of Biology (4)
- BIOL 109 Contemporary Issues in Ecology (4)
- BIOL 131, 133 Principles of Biology (4)

One Policy or Economics course chosen from:

- EVST 320 Environmental Policy and Management (4)
- ECON 155 Introduction to Economics of the Environment (4)
- ECON 250 Principles of Microeconomics (4) OR ECON 355 Environmental and Resource Economics (4)

Note: ECON 355 Environmental and Resource Economics (4) is recommended if the prerequisites have been met; otherwise, ECON 155 Introduction to the Economics of the Environment (4) is recommended.

Two advanced Environmental Studies electives:

- Choose from courses numbered 200 and above for science courses; 300 and above for non-science courses.

The Bachelor of Arts: Environmental Business

Core Courses plus:

5 courses 20 credits

Overview:

- EVST 340 Green Business (4)

Finance:

- ACCT 210 Principles of Financial Accounting (4)

Marketing:

- BUS 131 Principles of Marketing (4)

Economics:

- ECON 155 Intro to the Economics of the Environment (4) OR ECON 250 Principles of Microeconomics (4)

Two Business or Economics electives chosen from:

- Business or Economics courses numbered 200 or above.

The Bachelor of Science: Environmental Science

Core Courses plus:

5 courses 20 credits

Analysis:

- EVST 235 Environmental Impact Assessment (4) OR MATH 231 Introduction to Modeling (4)

Ecology:

- EVST 305 Ecology for Environmental Scientists (4) OR approved BIOL or CHEM

Two advanced science electives:

- Choose from EVST courses numbered 200 and above OR approved 260/360 topics course

One EVST non-science elective.

The Bachelor of Science: Environmental Policy and Management

Core Courses plus:

5 courses 20 credits

Economics:

- ECON 155 Introduction to Economics of the Environment (4) OR ECON 250 Principles of Microeconomics (4) OR ECON 355 Environmental and Resource Economics (4)

Law or Policy:

- EVST 310 Environmental Law (4) OR EVST 320 Environmental Policy and Management (4) OR EVST 330 Environmental Policy Clinic (4)

Environmental Assessment/Management:

- EVST 235 Environmental Impact Assessment (4) OR EVST 325 Public Lands Management (4)

Two Natural Science electives:

- Choose from EVST courses at 200 level or above or approved 260 topics course.

THE MINOR

Students who minor in environmental studies are required to take all the environmental studies core courses, with the exception of the practicum and the senior capstone.

Teaching Credential Subject Matter Program in Environmental Studies

Students who wish to be certified to teach science must pass the CSET, and CBEST examinations. The best preparation for these examinations is a B.S. in Environmental Science or B.A. in Environmental Studies. Students must meet with the director of the Center for Science and Mathematics and with an advisor in the School of Education for information concerning certification and the teacher education preparation program process. Most students complete the teacher preparation program, including student teaching, during a fifth year after graduation. Please refer to the Education section under the College of Arts and Sciences of this *Catalog* for a more detailed list of requirements.

Program Honors

Students with outstanding records of academic achievement (GPA of 3.7 or higher in the major) may apply for departmental honors during the second semester of their junior year, but no later than the end of the fourth full week of their first semester as a senior. Candidates must complete an honors capstone project on a challenging topic approved by a faculty committee. The project must demonstrate both analysis and synthesis of environmental issues, along with constructive critical thought. Candidates who successfully complete and defend their final projects before a faculty committee will graduate with honors in Environmental Studies.

The Redlands Institute

Dedicated to applied research in environmental design, management, and policy, the Institute provides advanced students with excellent opportunities for internships and course-related work as members of project teams. Student researchers learn about advanced tools for geospatial data management and modeling in order to analyze and envision complex environmental systems.

Course Descriptions (EVST)

100 Introduction to Environmental Studies. Fall (4), Spring (4).

Overview of the major causes and consequences of pollution, natural resource depletion, and loss of biological diversity. The primary objective is to develop an interdisciplinary understanding of our natural environment, the human impacts that degrade it, and the measures we can take to protect and to restore environmental quality.

102 Environmental Geography of Southern California. Fall (4), Spring (4).

A local geographic “laboratory” for applying environmental concepts and studying the physical and cultural geography of Southern California. Using historical and scientific field surveys, students trace the roots of regional environmental problems.

110 Introduction to Spatial Analysis and GIS. Fall (4), Spring (4).

Introduction to concepts of spatial analysis and to geographic information systems (GIS). Emphasis on spatial reasoning and analysis. Topics include spatial data models, data requirements and acquisition, spatial analysis using GIS, implementation within an organization, and especially the application of GIS to problem solving in other disciplines. Two lectures, two laboratories. Prerequisite: EVST 100 or by permission.

210 Energy and the Environment. Spring (4).

Sources, production, distribution, and consumption of energy are considered with special attention to alternative energy systems—including wind, solar, and geothermal—and conservation. Environmental effects of air and water pollution also are considered. Experiments are conducted to aid in understanding the principles presented. Field trips to regional energy production facilities are included. Prerequisites: MATH 101 or high school algebra and EVST 100 or by permission.

Environmental Studies

215 American Environmental Literature. Fall (4).

Investigation of the ways in which American experience with Nature is both shaped by and reflected through literary fiction and non-fiction, as well as poetry. NU only.

220 Physical Geography. Fall (4).

Exploration of the physical geography of Earth by examination of lithospheric, atmospheric, hydrological, and biological processes. Laboratory includes field methods, topographic map reading, and in-depth discussion of these principles. Prerequisite: EVST 100 or by permission.

225 California Plants: Taxonomy and Ecology. Spring (4).

Exploration of the biodiversity of California plant life. Lectures focus on the varied physical environments and ecology of California plant communities. Laboratories delve into the intimacies of plant taxonomy and identification. Field trip laboratories will afford first-hand experience with coastal, interior valley, montane and desert plant communities and their environments. Prerequisite: EVST 100 or by permission. Offered in alternate years.

230 Biodiversity. Fall (4).

Examination of global and local biodiversity and the causes and implications of biodiversity decline. Emphasis on threatened and endangered species and human activities related to the decline of species. This course is field trip and project intensive. Prerequisite: EVST 100 or by permission.

235 Environmental Impact Assessment. Spring (4).

Comprehensive overview of environmental impact assessment. Federal and State legislative foundations governing the content and process of environmental review are examined. Culminates in preparation of an environmental impact report analyzing the potential impacts and mitigations.

240 Global Environment. Fall (4), Spring (4).

Analysis of selected problems of global environmental systems, including climate

change, ozone depletion, oceanic pollution, and transboundary biodiversity issues. Emphasis on the conversion of environmental science into international law and policy. Examines the roles of international organizations, governments, industry, and trade in the effort to achieve sustainable development. Prerequisite: EVST 100 or by permission. Offered in alternate years.

242 Food and Nature. Fall (4).

Examines the ways production, trade, and consumption of food affects workers, consumers, and ecosystems. Topics include the political economy of food systems, genetically modified food, biofuels, the carbon footprints, the modern meat system, and potential solutions such as Fair Trade, organic certification, the slow food movement, and local food. Prerequisite: EVST 100 recommended.

245 Marine Environmental Studies. Fall (4), Spring (4).

Overview of human environmental influence on the oceans. Combines the study of marine science, policy, and management in an effort to understand environmental protection issues arising from coastal development, over fishing, climate change, oil spills, and other threats to marine ecosystems. Prerequisite: EVST 100 or by permission. Offered as needed.

250, 350, 450 Environmental Design Studio I, II, III. Fall (4), Spring (4).

Students work collaboratively in teams on environmental problem-solving projects. Many studios make use of GIS and other spatial analysis tools. Research concepts and tools become more complex in advanced levels of this sequence. Prerequisites for EVST 250: EVST 100 and 110, or by permission.

254 Climate Disruption: Science and Sustainability. Spring (4).

Examines dilemmas in climate science, politics, economics, and ethics—all with an eye to the implications for global and regional sustainability. Emphasis is placed on solutions and practices to minimize or adapt to climate impacts, ranging from green innovations in energy technology to climate-friendly changes

in human values and behavior. Prerequisite: EVST 100 recommended. NU only.

255 Ornithology. Spring (4).

Provides a comprehensive overview of the science and field study of birds, ranging from their origin and evolution, physiology, anatomy, communication, behavior and environment, reproduction and development, population dynamics and conservation. Laboratories introduce students to auditory and field identification methods. Offered in alternate years.

260 Topics in Environmental Studies.

Fall (1–4), Spring (1–4).

Topics of current interest in environmental studies such as energy, air quality, water, and environmental justice. May be repeated for degree credit up to a maximum of 8 credits.

275 Conservation in Practice. Spring (4).

Analyzes the different factors, cultural, socio-economic, political, and biological, that underlie environmental problems. It reviews some of the most important conservation tools developed and applied by various disciplines in an attempt to integrate them as a trans-disciplinary approach. Offered as needed. Prerequisite: EVST 100 or by permission.

281 The Palau Expedition: Explorations in Sustainable Development.

May Term (3).

This course combines the study of Palau's marine ecology and natural history, its clan-based system of social organization, and its efforts to achieve sustainable forms of development. Students participate in a series of interviews with traditional chiefs, elder women, high government officials, and Palauan conservation and natural resource experts. Extensive field study and immersion in the ocean and rainforests require strong swimming skills and excellent fitness.

300 Environmental World Views.

Fall (4), Spring (4).

Interdisciplinary investigation of competing environmental perspectives and paradigms. Emphasis on implications for environmental science, policy, management, and ethics as

influenced by world views. Students compare and contrast diverse environmental perspectives, strategic approaches, and decision-making processes with an eye to conflicting paradigms that underlie environmental controversies.

305 Ecology for Environmental Scientists. Spring (4).

Exploration of environmental factors responsible for distributions of species, communities, and biomes with particular reference to human-induced changes in ecology. This is a writing-intensive course with emphasis on scientific writing and the use of the scientific method in ecological research. Prerequisites: EVST 100 and a WA course. Offered every year.

310 Environmental Law.

Fall (4), Spring (4).

Exploration of the American legal system and the framework of creation, implementation, and interpretation of environmental laws. Study of central role of regulatory agencies in developing and implementing environmental law and of course methods interpreting and shaping it. Includes analysis of major environmental laws and case studies. Emphasis on California and the West. Offered as needed.

320 Environmental Policy and Management. Fall (4), Spring (4).

Examination of policy actors and institutions shaping environmental management and world views from which they are derived. Study of competing discourses, influence of public and private actors and institutions, and interplay between parties. Examination of policy and management implications from standpoints of decision-making content and process. Offered in alternate years.

325 Public Lands Management. Spring (4).

Overview of the origins and history of public lands in the U.S. (National Parks, National Forests, Bureau of Land Management lands, and others). Exploration of policies governing public lands and historic and current management practices. Controversial issues on public lands will be examined and debated, as will compromises and solutions. Prerequisite: EVST 100. Offered in alternate years.

Environmental Studies

330 Environmental Policy Clinic.

Fall (4), Spring (4).

Students and faculty create innovative policy responses to concrete environmental problems, typically resulting in a report or major presentation about a specific environmental improvement strategy to a government client or a group of stakeholders. Emphasis on policy and management strategy design; focus on political, economic, and managerial feasibility of environmental controversy resolution. May be repeated for degree credit, for a maximum of 8 credits, given a different topic. Prerequisite: EVST 300 or 320. Offered in alternate years.

335 Environment and Development.

Spring (4).

Identifies threats to biodiversity and culture and relates them to poverty, inequality and over-exploitation. Traces roots of current problems to colonization, international exploitation, and national development models. Examines sustainable development debates and initiatives.

340 Green Business. Fall (4), Spring (4).

Examines various aspects of sustainability and options available to businesses to establish green practices. Explores opportunities that businesses create, the challenges encountered and the contributions toward protecting the environment while simultaneously sustaining a profit. The role of environmental policy, leadership, technology, and public opinion are also investigated. Prerequisite: EVST 100 or ACCT 210.

345 Sustainable Development and Migration in Mexico. May Term (3).

Through visits, this class examines the role of indigenous communities in conservation and development projects, such as ecotourism, forestry, and environmental service provision. It analyzes the role of local social institutions of self-governance in these projects, and the impacts of migration to the U.S. on institutions, conservation, and development possibilities. Prerequisite: Instructor permission.

360 Advanced Topics in Environmental Studies. Fall (1-4), Spring (1-4).

Consideration of recent research developments in environmental science with varying topics each semester. Examples include tropical island biogeography, physical biogeography, and California plants' taxonomy and ecology. May be repeated for degree credit up to a maximum of 8 credits.

385, 485 Advanced Program Internship. Fall (2-4), Spring (2-4).

May be repeated for degree credit for a maximum of 8 credits with permission of the Chair. CN only.

399 Research Methods for Environmental Scientists. Spring (4).

A survey course of qualitative and quantitative research methods used by environmental scientists. We will learn techniques from both social and natural sciences. A research proposal that can double as the EVST capstone proposal will be an end-goal of the course. Students from outside EVST can apply to join. Prerequisite: EVST 250. NU only.

475 Capstone Senior Project in Environmental Studies. Fall (2-4), Spring (2-4).

NU only.

THE FACULTY

Francis T. Bright
Danièle Chatelain Slusser

THE MAJOR**Bachelor of Arts****Requirements 36 credits**

For the French major, students must complete 36 credits beyond FREN 102. Sixteen credits must be taken in residence with department faculty. At least 12 of these credits in residence must be taken in courses numbered 400 or above.

A semester at the Institute of European Studies, in either Paris or Nantes, is recommended in the junior year. In addition to its own diversified offerings, the institute makes it possible for students having the proper degree of proficiency to register at the universities of Paris and Nantes, as well as the Ecole du Louvre, the Institut Catholique, and the Institut d'Etudes Politiques.

Transfer and Third-year Level Students

A candidate entering at the third-year level is considered to have completed 8 of the 36 required credits. These exempted credits apply only to the major and not to the 128 total credits required for graduation.

Learning outcomes for this program may be found at:

www.redlands.edu/academics/college-of-arts-sciences/undergraduate-studies/french/9466.aspx.

THE MINOR**28 credits**

A minor in French requires 28 credits beyond FREN 102. Students starting at the third-year level or beyond are considered to have completed 8 of these credits. These exempted credits apply only to the minor and not to the 128 total credits required for graduation. Students also are required to take at least one 400-level course (for 4 credits) in residence with department faculty.

Course Sequencing

Courses must be taken in the correct sequence, i.e., FREN 101, 102, 201, 202, 301, 302. While a student might enter the sequence at a level beyond FREN 101, no student subsequently can receive credit for a course lower in the sequence than the highest numbered course already completed. This regulation applies only to language courses, not to civilization and literature courses beyond FREN 302.

Placement in French

Students with previous experience in French must take the French placement exam before enrolling in a French language course.

Advanced Placement in French

French language: Students receiving a score of three on the Advanced Placement test receive 4 credits for FREN 102; those scoring four or five receive 8 credits for FREN 201 and 202. French literature: Students scoring four or five receive 8 credits for French literature.

Departmental Honors

A departmental honors program is available for exceptionally able and motivated students. Admission to the program may come by invitation from faculty in French or, should students initiate their own applications, by faculty approval. Interested students should consult, during the course of their junior year, with French program faculty for information about the application procedures and requirements.

Departmental Honors Requirements

- Students must have a minimum 3.45 cumulative GPA at the time of application.
- Interested students must apply no later than the advanced registration period (for the following Fall) during the Spring semester of their junior year.
- Students will enroll for 4 credits of honors work in the Fall semester of their senior year to do research and to complete a rough draft of the thesis. In the Spring of the senior year, students will carry 2 credits to finish the final draft and to defend the thesis orally before the committee.

French

- The honors thesis will be a scholarly research paper in French of 50–75 pages in length.
- The honors committee will consist of faculty in French plus another professor mutually agreed upon by the student and the French faculty.

Course Descriptions (FREN)

101–102 First-year French.

Fall (4), Spring (4).

Pronunciation, conversation, essentials of grammar and composition, and reading of elementary texts for students who have had no French. Those with previous experience in French who are not ready for FREN 201 must obtain permission from the department to take first-year French.

201–202 Second-year French.

Fall (4), Spring (4).

Review of grammar, with emphasis on conversation and contemporary French culture. Introduction to French literature and culture through selected reading materials. Prerequisite: FREN 102 or two or three years of high school French.

301–302 Third-year French.

Fall (4), Spring (4).

Review of essential points of grammar. Readings in literature, history, and culture. Emphasis on oral presentation and discussion. Prerequisite: FREN 202, or three or four years of high school French, or by permission.

450 French Theatre. Spring (4).

Evolution of the theatre in France from the 17th century to the present. Reading, lectures, and discussions in French. Prerequisite: FREN 302 or equivalent. Offered as needed.

451 The Novel in France. Fall (4).

Development of the novel in France from the 17th century to the present. Readings, lectures, discussions, and films in French. Prerequisite: FREN 302 or equivalent. Offered as needed.

452 French Lyrical Poetry. Spring (4).

Development of lyrical poetry in France from the 14th century to the present. Lectures,

readings, and discussions in French. Prerequisite: FREN 302 or equivalent. Offered as needed.

456 French Cinema. Spring (4).

Examination of the development of cinema in France from its beginnings in the silent era to the nouvelle vague and cinema today. Lectures, discussions, and student exposés in French. All films in French with English subtitles. Prerequisite: FREN 302 or equivalent. Offered as needed.

458 France Today. Fall (4).

Study of contemporary French institutions both in their historical and traditional form and as they are being transformed today as a result of international influences. Readings, discussions, and exposés in French. Prerequisite: FREN 302 or equivalent. Offered as needed.

459 The Francophone World. Fall (4).

Exploration of the social, cultural, and artistic development of countries in which French is the primary language. Alternate focus on (1) Africa and (2) the New World. Readings, slide lectures, discussions, films, and exposés in French. Prerequisite: FREN 302 or equivalent. May be repeated for degree credit given a different topic. Offered as needed.

463 Topics in French Literature. Fall (4).

Diverse topics in French literature dealing with either specific themes, currents of thought, or genres and forms. Readings, lectures, discussions, and films in French. Prerequisite: FREN 302 or equivalent. May be repeated for degree credit given a different topic. Offered as needed.

464 Interdisciplinary Studies in French. Fall (4).

Interdisciplinary approaches to key issues, places, personalities, periods, or movements in French intellectual and cultural history. Topics chosen are examined from the following perspectives: literature, art, architecture, urbanism, politics, religion, science. Topics include the Renaissance, the Enlightenment, the French Revolution, romanticism, fin de siècle, surrealism, and Paris. Prerequisite: FREN 302 or equivalent. May be repeated for credit given a different topic. Offered as needed.

466 Seminar. Spring (4).

Detailed study in selected areas of French language, literature, and philosophy. Topics to be assigned. Prerequisite: by permission. Offered as needed.

Geographic Information Systems

THE FACULTY

Douglas M. Flewelling
 Mark P. Kumler
 Ruijin Ma
 Fang Ren

The Master of Science in Geographic Information Systems (GIS)

The Master of Science in Geographic Information Systems (GIS) Program is designed for professionals seeking to enhance their knowledge of the analysis, management, and communication of geographic information. It combines the development of strong technical skills and in-depth understanding of geographic information systems and theory.

Entrance Requirements

Minimum requirements for entrance include:

- An undergraduate degree in any field
- At least 2 years of professional experience using GIS OR completion of at least 2 college-level courses in GIS plus an internship lasting at least 4 months
- Two letters of recommendation confirming the applicant's potential for success in the program
- Competence in speaking and writing English. Students for whom English is a second language must demonstrate competence by submitting TOEFL scores above 550 written (210 computer-based). Alternative internationally recognized tests such as IELTS scores at band 5.5 or above may be considered equivalent
- Analytical and technical aptitude demonstrated through appropriate coursework, professional experience, GRE or similar test scores, or letters of recommendation

Program Structure

The one-year program consists of ten months of coursework and the undertaking of a Major Individual Project (MIP). Each of the six terms are seven weeks in length and the annual schedule allows for two 3-week breaks. Student cohorts begin each year in September and January.

The two-year program consists of up to twelve 7-week terms, with corresponding 3-week breaks as in the one-year program.

Each of the first three 7-week terms includes a core theory course (GIS 61x series) on a major GIS systems theme paired with an intensive, hands-on technology course (GIS 62x series). Additional theory courses are offered in terms four and five and as electives (GIS 66x and GIS 67x series). Theory courses not only complement the technology courses and ensure that students have the critical theoretical foundations for the relevant technology, but also explore broader issues related to effective and appropriate application of the technology. A menu of short workshops (GIS 650) are offered throughout the program to provide opportunities for students to selectively focus their attention on one of the many major themes in GIS, specific application areas, or advanced theory topics.

Each of the first five terms includes one or more intensive multi-day, instructor-led courses from the current Esri software training curriculum (GIS 640). MS GIS Colloquium (GIS 630) is offered most Wednesday afternoons during the year. These colloquia give students exposure to cutting-edge research and developments in GIS and an opportunity to hear from some of the most well-known GIS scholars and managers.

All students are required to undertake a Major Individual Project (MIP) that applies GI Technology and/or Science to a problem of their choice. This is the professional equivalent of an academic masters thesis. The Project Course series (GIS 69x) is directed toward building students' skills in project design and implementation.

Opportunities for projects come from The Redlands Institute, other organizations in the region, or from students' former, current or future employers. Students begin developing their MIP topics during the beginning of the GIS 69x series and in conjunction with their MIP Advisory Committees and make gradual progress toward completing the MIP by the end of their program, be it one year or two. Before graduating, all students must successfully pass an oral defense of their project work before their Advisory Committee and submit an approved extended written report on the work completed. Students are also required to make a public presentation of their MIP. This will occur either at the annual Esri International User Conference in mid-summer or at

a special conference in front of an audience of their peers and colleagues in the discipline of their project.

Program Requirements

Master of Science 42 credits

The Master of Science degree requires 42 credits at the graduate level, which are comprised of 10 credits of theory courses, 7 credits of technology courses, 14 credits of project (MIP) courses, 7 credits of professional practice courses, and 4 credits of elective courses. Elective courses can be taken in the form of regularly offered MS GIS Program electives, topics courses which are offered from time to time by GIS-related faculty, University of Redlands School of Business GIS-focused electives, or by individualized study, the focus of which is determined by MS GIS Program faculty.

Courses:

Theory Courses 10 credits

- GIS 611 Fundamentals of Geographic Information (2)
- GIS 612 Information Systems Foundations for GIS (2)
- GIS 617 Programming for GIS (1)
- GIS 616 Statistics & Spatial Analysis (3)
- GIS 615 Communicating Geographic Information (2)

Technology Courses 7 credits

- GIS 621 Introduction to GI Technology (2)
- GIS 625 Introduction to Image Data (1)
- GIS 622 Creating and Managing Geodatabases (2)
- GIS 623 Working with GIS (2)

Project Courses 14 credits

- GIS 691 Project Concept & Scope (2)
- GIS 692 Project Initiation & Planning (1)
- GIS 693 Project Analysis & Design (1)
- GIS 694 Project Execution (1)
- GIS 695 Project Implementation (2)
- GIS 696A Project Completion (6)
- GIS 696B Project Closure (1)

Professional Practice 7 credits

- GIS 630 MIS GIS Colloquium (2)
- GIS 640 GIS Software Training (3)
- GIS 650 GIS Workshops (2)

Electives 4 credits

- GIS 661 Topics Course(s) (1-2)
- GIS 663 Remote Sensing & Image Processing (1)
- GIS 664 GIS for the Web (2)
- GIS 671/2/3 Individualized Study (1-2)

The most current information about the curriculum, entrance requirements, and application procedures is available on the program's web site:

<http://www.msgis.redlands.edu>
or by contacting the program office at (909) 748-8128, or by e-mail at: msgis@redlands.edu.

Course Descriptions (GIS)

611 Fundamentals of Geographic Information. (2).

Modeling geographic reality in information systems, from its conceptualization and generalization from the real world, to its digital representation in the computer and back to the relationship between results of this digital manipulation and the real world it represents. Prerequisite: enrollment in MS GIS program or by permission of the Program Director. NU only.

612 Information Systems Foundations for GIS. (2).

Provides fundamental theoretical knowledge about information systems in general and the unique demands created by geographic information. Introduces students to concepts of information systems theory, systems design and architecture, databases and data modeling, and data interoperability standards as applied to geographic information systems. Prerequisite: GIS 611 or by permission of the Program Director. NU only.

Geographic Information Systems

615 Communicating Geographic Information. (2).

Begins with basic theory of cartographic and graphic data as it applies to GIS data. Explores GIS data models to support mapping and various advanced applications of cartographic methods, including multivariate mapping, multiscale mapping, cartographic visualization including mixed virtual reality, animated and interactive mapping, and Web mapping. Prerequisite: GIS 616 or by permission of the Program Director. NU only.

616 Statistics and Spatial Analysis. (3).

Combines a survey of statistical foundations needed by GIS practitioners with a detailed understanding of the range of spatial analytical techniques and the skills necessary for expert application of these techniques to specific problems. Includes fundamental concepts needed to understand advanced rule-based, statistical, process-based and deterministic methods of spatial analysis. Prerequisite: GIS 612. NU only.

617 Programming for GIS. (1).

Introduction to programming concepts necessary for GIS: writing simple statements, organizing code, handling user interaction, and incorporating decision-making logic in code. Introduction to object-oriented programming concepts: methods, properties, and event-driven programming. Prerequisites: at least one course or demonstrated expertise in Java, C++, or Visual Basic plus enrollment in the MS GIS program or by permission of the Program Director. NU only.

621 Introduction to Geographic Information Technology. (2).

Provides necessary foundation skills in geographic information technology, including scanning, digitalizing, georeferencing, datums, projections, coordinate systems, metadata, terrain modeling, geocoding, and GPS. Individual and group work complements theory and concepts taught in 611. Prerequisite: enrollment in MS GIS Program or by permission of the Program Director. NU only.

622 Creating and Managing Geodatabases. (2).

Focuses on the important database component of GI Technology. Following an intensive training course to acquire geodatabase design skills, students undertake group work on supervised class projects supplementing taught theory and technology concepts. Prerequisite: GIS 621 or by permission of the Program Director. NU only.

623 Working with GIS. (2).

Provides mastery of the complex suite of spatial analysis functionality available in GI Systems. Following an intensive training course to acquire advanced spatial analysis skills, students undertake group work on supervised class projects supplementing taught theory and technology concepts. Prerequisite: GIS 622 or by permission of the Program Director. NU only.

625 Introduction to Image Data. (1).

Covers the fundamentals of remotely sensed image data—physics, spectral signature, and basics of visual interpretation. Students will be required to acquire image data and perform extended interpretation of their study area. NU only.

630 MS GIS Colloquium. (2).

Provides student exposure to advanced research and innovative developments in GI Systems and Science and the opportunity to hear presentations from GIS researchers, analysts, developers, and managers who live in or visit the Redlands region. Also includes participation in the annual Esri International User Conference. Prerequisite: Enrollment in MS GIS Program or by permission of the Program Director. CN only.

640 GIS Software Training. (3).

A series of intensive 2- to 5-day, hands-on training courses in the use of the ArcGIS suite of software products; approximately 20 days of training is required during the program. Prerequisite: Enrollment in MS GIS Program or by permission of the Program Director. CN only.

650 GIS Workshops. (2).

Topic-oriented workshops in various GIS applications will be offered for the students to choose “cafeteria style”; approximately ten workshops will be offered per calendar year and students are required to attend a minimum of four workshops during the term of their program. Prerequisite: Enrollment in MS GIS Program or by permission of the Program Director. CN only.

661 Topics in GIS. (1-2).

Designed to reflect curriculum trends and emerging GIS technology. May be repeated for degree credit, given different topics, for a maximum of 4 credits. Prerequisite: Enrollment in MS GIS Program or by permission of the Program Director. Offered as needed.

663 Remote Sensing and Image Processing. (1).

This elective course is designed for students to gain a greater understanding of remote sensing and the ability to process images for GIS applications. Various software applications and an extended classification of their study area. Special topics of hyperspectral, advanced classification, active sensors, and non-reflective image data will be included. Prerequisite: Enrollment in MS GIS Program or by permission of the Program Director. NU only.

664 GIS for the Web. (2).

Practices the skills needed to create GIS applications for the Web and other networks. Through hands-on projects, students will create their own Web GIS application; in-depth discussions of issues that affect Web GIS, from network and security concerns to design for focused and effective Web applications. Prerequisite: Enrollment in MS GIS Program or by permission of the Program Director. NU only.

671-673 MS GIS Individualized Study. (1-2).

Individualized study courses of 1-2 credits offered for students to design their own course of study in a particular GIS topic. Prerequisites: Enrollment in MS GIS Program and approval of the Program Director. CN only.

691 Project Concept and Scope. (2).

The objective of this course is to initiate the concept and scope of the student’s Major Individual Project (MIP). Students will identify their project client and topic, conduct preliminary research on the topic and write a background paper outlining previous research and studies on their topic. Prerequisite: Enrollment in MS GIS program. NU only.

692 Project Initiation and Planning. (1).

Students will conduct a feasibility analysis of their MIP concept and develop a plan that establishes the strategic goals, schedule, and budget for solving the problem with a technical solution. The final assignment for this course is a formal Project Plan with the project scope, goals, timeline, and budget fully specified. Prerequisite: GIS 691. NU only.

693 Project Analysis and Design. (1).

Students will investigate the basic principles of systems analysis and design through a user’s needs assessment and a requirements analysis. The final assignment for this course will be a Project Design Specification defining the system architecture, technical features, and data components. Prerequisite: GIS 692. NU only.

694 Project Design. (1).

Covers the basic procedures for executing a GIS project following the systems analysis and design phases, and techniques for successfully executing and managing a GIS project through construction and deployment. Prerequisite: GIS 693. NU only.

695 Project Implementation. (2).

This is the fifth course in the Project Series—designed to assist the student with implementation of the GIS solution for their MIP. Prerequisite: GIS 694. CN only.

696A Project Completion. (6).

The final term of the program is spent completing the Major Individual Project (MIP). A defense, public presentation and extended report are required. Prerequisite: Enrollment in MS GIS Program or by permission of the Program Director. NU only.

Geographic Information Systems

696B Project Closure. (1).

All of the final graduation requirements, including the submission and approval of the MIP, is encompassed in this final unit of credit. May be repeated for degree credit for a maximum of 3 credits. Enrollment in MS GIS Program or by permission of the Program Director. NU only.

THE FACULTY

Joseph H. Magedanz

THE MAJOR

Learning outcomes for this program may be found at:

www.redlands.edu/academics/college-of-arts-sciences/undergraduate-studies/german/9468.aspx.

Bachelor of Arts

Minimum 34 credits

- GRMN 201, 202 Second-year German (8)
- GRMN 301, 302 Third-year German (8)
- Three courses numbered GRMN 400 or higher (excluding 490 and 495) on campus and/or courses from approved off-campus study centers. One of these courses must be an approved literature course taken during the study abroad semester in Germany or Austria, and one must be either GRMN 401 or 402. (12)
- One or two semesters at an approved program in Germany or Austria, with two courses per semester applied toward the major.
- One course in Art History, Economics, Government, History, or Philosophy chosen in consultation with the faculty of the German program. Coursework must reflect a German component. May be done during study abroad. (4 credits)
- Successful completion (equivalent of 2.0 or higher) of: GRMN 395 Capstone Prep. (1), GRMN 490 Senior Capstone I (1), GRMN 495 Senior Capstone II. (1)
- A passing grade of “ausreichend” (satisfactory) on the Goethe Institute’s B2 or C1 international German language exam.

THE MINOR

28 credits

- GRMN 201, 202 Second-year German (8)
- GRMN 301, 301 Third-year German (8)
- Three courses numbered GRMN 400 or higher (excluding 490) on campus and/or courses from approved off-campus study

centers. One of these courses must be either an approved literature course taken during the study abroad semester in Germany or Austria or GRMN 401 or 402. (12)

- One or two semesters at an approved study abroad program in Germany or Austria with two courses per semester applied toward the minor.
- Successful completion (equivalent of 2.0 or higher) of GRMN 390. (0)
- A passing grade of “ausreichend” (satisfactory) on the Goethe Institute’s B1 international German Language exam

Course Sequencing

Courses must be taken in sequence, i.e., GRMN 101-102, 201-202, 301-302. While a student might enter the sequence at a level beyond GRMN 101, no student can subsequently receive credit for a course lower in the sequence than the highest numbered course already completed. This regulation does not apply to courses beyond GRMN 302. Students entering above GRMN 202 will first complete the 301-302 sequence. Those who begin at the third-year level (GRMN 301-302) are exempt from 8 credits of the major or minor program requirements. These exempted credits apply only to the major or minor, not to the total credits required for graduation.

Advanced Placement in German

Students who score a three receive 4 credits for GRMN 201; those who score a four or five receive 8 credits for GRMN 201 and 202.

Departmental Honors

Students in German will be awarded honors upon passing the appropriate examination of the Goethe Institute of the Federal Republic of Germany. An internationally recognized diploma will be issued by the Goethe Institute upon successful completion of all requirements.

Single-Subject Teaching Credential

The German Department is currently in the process of applying for approval by the State of California Commission on Teacher Credentialing of its teacher preparation program.

German

Until approval is granted, students must pass the PRAXIS and SSAT exams. Once the program is approved, the PRAXIS and SSAT exams will not be required for those who successfully complete the approved program. Students who wish to be certified to teach German should meet with an advisor in the German Department for guidance and information. Most students complete the teacher preparation program, including student teaching, during a fifth year after graduation.

Course Descriptions (GRMN)

101–102 First-year German.

Fall (4), Spring (4).

Practice in understanding and speaking German of moderate difficulty. Introduction to the contemporary civilization and culture of German-speaking peoples. Presentation of major grammatical aspects of the structure of the language. For beginners only.

150, 250, 350 Keeping Up Your German.

Fall (1), Spring (1).

An atmosphere of congenial, loosely structured conversations in German, spiced by occasional native-speaker guests. Designed to maintain and refresh oral skills. Prerequisite: by permission. May be repeated once for degree credit. Offered as needed. CN only.

160 Seminar in German Studies.

May Term (3).

Open to all students, this German travel course typically covers Holocaust studies or aspects of modern German society. One week is spent on campus, and the remaining time is spent traveling to specific sites in Germany and related areas. Does not count toward German major or minor. Prerequisite: Instructor permission. Offered as needed. CN only.

201–202 Second-year German.

Fall (4), Spring (4).

Practice of oral and written language skills. Presentation and study of various aspects of German civilization and culture. Continued study and review of grammatical structures. Prerequisite: GRMN 102 or by permission.

301-302 Third-year German.

Fall (4), Spring (4).

Emphasis on written and oral presentations and discussions. These courses encompass readings in literature, history, and culture, an introduction to translation skills, as well as a review of essential points of grammar. Prerequisite: GRMN 202 or by permission.

360, 460 Seminar in German Studies.

Fall (4), Spring (4).

Study of German civilization and culture, focusing on key issues, places, personalities, events, periods, and movements in German history and culture. Topics are examined from various perspectives, including music, art, architecture, literature, politics, religion, and business. Topics vary. Prerequisite for 360: GRMN 202 or above. Prerequisite for 460: one course numbered 302 or above. May be repeated for degree credit, given a different topic. Offered as needed.

390 Proficiency Exam Preparation.

Fall (0).

Minors prepare for the Goethe Institute examination by doing the online practice exams and by writing and speaking about the study abroad experience. Required for German minor. CN only.

395 Capstone Preparation.

Fall (1), Spring (1).

Taken during approved semester abroad. Investigates the relationship between the practices, products, and perspectives of the culture studied. Specific course content to be approved by advisor prior to beginning of course. Required for German major. Prerequisite: by permission only. CN only.

401 Survey of Older German Literature to 1750. Fall (4), Spring (4).

Survey of German literature with emphasis on literary movements and genres as related to historical events and cultural developments to ca. 1750. Prerequisite: GRMN 302.

402 Survey of Newer German Literature from 1750. Fall (2), Spring (4).

Survey of German literature with emphasis on literary movements and genres as related to historical events and cultural developments ca. 1750 to present. Prerequisite: GRMN 302. Offered as needed.

404 Germany Today. Fall (4), Spring (4).

Survey of present-day German society. Topics selected are current issues as highlighted in contemporary German media. Prerequisite: GRMN 302. Offered as needed.

415 Practice in Translation.**Fall (4), Spring (4).**

Introduction to the specialized skill of professional translation and writing. Texts of a variety of styles will be assigned with an emphasis on developing competent, idiomatic writing. Prerequisite: GRMN 302 or by permission. Offered as needed.

445 Topics in German Literature.**Fall (4), Spring (4).**

Varied topics in German literature covering specific genres or periods. Readings, lectures, discussions, and written and oral reports completed in German. Prerequisite: GRMN 302. May be repeated for degree credit, given a different topic, for a maximum of 8 credits. Offered as needed.

490 Senior Capstone Part I. Fall (1).

Majors prepare for the Goethe Institute examinations and give the oral *Referat* presentation of work done for GRMN 395 that details the relationship between the practices, products, and perspectives of the culture studied. Required as detailed. Prerequisite: senior standing. CN only.

495 Senior Capstone Part II. Spring (1).

Based on the required reading list, successful completion of a written exam demonstrates knowledge and understanding of various periods of German cultural history emphasizing representative literary works and authors and their significance. Required for German majors, not open to non-majors. Prerequisite: GRMN 490. CN only.

Government

THE FACULTY

Graeme Auton
 Robert J. Jackson
 Michael Ng-Quinn
 Arthur G. Svenson
 Greg Thorson
 Renee Van Vechten
 Edward Wingenbach
 Steven Wuhs

THE MAJOR

Learning outcomes for this program may be found at:

www.redlands.edu/academics/college-of-arts-sciences/undergraduate-studies/government/9470.aspx.

Bachelor of Arts

The major in government consists of a minimum of 44 credits. Students must complete the following requirements:

11 courses 44 credits

- One course from GOVT 200-202
- One course listed under American Politics and Public Policy except GOVT 306 and GOVT 307
- One course listed under Comparative Politics and International Relations
- One course listed under Constitutional Law and Political Theory
- Advanced Seminars: two courses from GOVT 460-464
- Electives: 20 credits in Government

With prior approval of their academic advisors and the Government Department chair, students may count upper-division courses offered by other departments, off-campus coursework (such as Washington Semester or foreign study programs), internships, and individualized study courses for up to 12 credits toward the major or minor.

THE MINOR

A minor in government consists of a minimum of 24 credits in the department. At least 12 credits must be taken at the University of Redlands.

Advanced Placement in Government

Students receiving scores of three or above on an AP American Government Examination will be given credit for GOVT 111 if they earn a grade of 2.0 or higher in an American Politics course at the 200 level or above. Students receiving scores of three or above on an AP Comparative Politics examination will be given credit for GOVT 123 if they earn a grade of 2.0 or higher in a Comparative Politics or International Relations course at the 200 level or above.

Capstone

The capstone requirement is fulfilled by the production of two research projects, each assigned in an advanced seminar. These research projects involve students using the best practices of the discipline; a student who does not successfully complete two research projects in two advanced seminars will not graduate with a major in Government.

Departmental Honors

Only students with a GPA of 3.5 or higher in the major are eligible for honors. Eligible students may earn honors in one of two ways: **Thesis:** Students who wish to write a thesis must submit a proposal to the department; upon approval, a committee will be assigned and a writing schedule devised. If at any point the committee determines the student is not progressing adequately, thesis approval may be revoked. Honors are awarded at the discretion of the thesis committee.

Portfolio: Portfolio criteria may vary, but will always require at least one significant research paper from a class, revisions or revision plans for that paper, and a reflective essay. If the department determines a portfolio demonstrates outstanding merit, the student will be invited to submit to an oral examination of their mastery of the Government major. Excellent performance in this exam merits honors.

Related Programs

Government students who are interested in pre law or the international relations major should consult the appropriate sections in this *Catalog*.

Courses:**The Study of Politics**

- GOVT 200 The Study of Politics (4)
- GOVT 201 Study of Politics: Cast Study Research in the Social Sciences (4)
- GOVT 202 Applied Data Analysis in the Social Sciences (4)

American Politics and Public Policy

- GOVT 208 California Politics (4)
- GOVT 209 Public Policy (4)
- GOVT 302 Campaigns and Elections (4)
- GOVT 304 Congress (4)
- GOVT 308 American Presidency (4)
- GOVT 360 Special Topics in American Government (4)

Comparative Politics and International Relations

- GOVT 220 Governments and Politics of Europe (4)
- GOVT 222 Asian Politics and Development (4)
- GOVT 223 The Chinese State (4)
- GOVT 224 Political Change (4)
- GOVT 228 Comparative Politics (4)
- GOVT 230 Latin American Politics and Development (4)
- GOVT 242 Asian International Relations (4)
- GOVT 244 International Security (4)
- GOVT 245 International Law and Organization (4)
- GOVT 250 American Foreign Policy (4)
- GOVT 332 Politics of Japan and Korea (4)
- GOVT 337 Nations, Nationalism, and Conflict (4)
- GOVT 362 Special Topics in Comparative Politics (4)
- GOVT 364 Special Topics in International Relations (4)
- IR 200 International Relations Theory

Constitutional Law and Political Theory

- GOVT 212 Classical Political Thought (4)
- GOVT 214 Modern Political Thought (4)
- GOVT 306 Constitutional Law: National and State Powers (4)
- GOVT 307 Constitutional Law: Liberty and Authority (4)
- GOVT 317 Feminist Political Theory (4)
- GOVT 318 American Political Thought and Practice (4)
- GOVT 319 Contemporary Political Theory (4)
- GOVT 321 Democratic Theory (4)
- GOVT 361 Special Topics in Political Theory (4)

Electives

- GOVT 111 American National Government and Politics (4)
- GOVT 123 Introduction to World Politics (4)
- GOVT 210 Politics and Morality (3)
- GOVT 257 Policy Making in Washington, DC (3)
- GOVT 365 Special Topics in Government (3-4)

Advanced Seminars

- GOVT 460 Advanced Seminar in American Politics (4)
- GOVT 461 Advanced Seminar in Political Theory (4)
- GOVT 462 Advanced Seminar in Comparative Politics (4)
- GOVT 463 Advanced Seminar in Public Law (4)
- GOVT 464 Advanced Seminar in International Relations (4)

Course Descriptions (GOVT)**111 American National Government and Politics. Fall (4), Spring (4).**

Introduction to the dynamics of government and politics in the United States and analysis of major contemporary public policy problems.

Government

123 Introduction to World Politics.

Fall (4), Spring (4).

The principal problems facing the world community and its constituent states and nations, especially crisis areas. A basic introduction to international relations and/or comparative politics and a guide to fuller understanding of current events and the conceptual issues that help students to understand them.

139 Introduction to Public Policy.

Fall (4), Spring (4).

Introduction to both the theoretical foundations and processes of public policy making. Case studies of educational policy, health care policy, economic policy, and/or tax policies.

200 The Study of Politics.

Fall (4), Spring (4).

Overview of approaches to the study of politics. Students develop skills necessary to read, assess, and produce works of social science. Coursework involves analytic reviews of monographs and articles, production of literature reviews, and the development of an independent research proposal.

201 Study of Politics: Case Study Research in the Social Sciences. Fall (4).

This course explores case studies as a research design in the social sciences. Topics include defining the case, site, and sample selection data collection methods, within- and cross-case analysis, and writing case reports.

202 Applied Data Analysis in the Social Sciences. Spring (4).

Principles of hypothesis development and testing, including measurement techniques, strategies for making controlled comparisons, sampling methods, principles of statistical inference, and tests of statistical significance. Development and testing of important research questions using such prominent data sets as the General Social Survey and the National Election Series.

208 California Politics. Spring (4).

A three-part course. The first part focuses on the current political environment in California, learning who the representatives are and how the system works. The second

portion centers on reflection upon the past, and in the last section, students study how California's institutions have formed and evolved over the years.

212 Classical Political Thought. Fall (4).

Intensive reading of the political texts forming the foundation of the Western tradition of political philosophy. Emphasis on ancient Greek thought, particularly Plato, Aristotle, and Sophocles, with some survey of Roman, medieval, and/or Confucian political thought.

214 Modern Political Thought. Spring (4).

Origin, defense, and criticism of capitalistic democracy and political liberalism. Original works of such theorists as Hobbes, Locke, Madison, Rousseau, Mill, Marx, and Lenin.

220 Governments and Politics of Europe. Spring (4).

The organization, functioning, political behavior, and contemporary problems of major European governments and European intergovernmental regimes and organizations.

222 Asian Politics and Development. Fall (4).

The historical background and contemporary development of selected Asian countries, especially China and Japan, emphasizing the political framework within which development strategies are proposed, debated, and implemented. The Chinese revolution and its effects on subsequent political and economic development are put into perspective.

223 The Chinese State. Spring (4).

Using China as an example, we examine how a state reproduces itself through increasing its capacity and strengthening its cohesiveness. Topics include definitions of state, its origins, normative order, material and institutional capacity, penetration of and responses to society, integration and disintegration, elite, political participation, and external environment. Offered as needed.

224 Political Change. Fall (4), Spring (4).

The 20th century saw dramatic processes of political restructuring—including revolutions, democratic breakthroughs, and authoritarian reversals. This course

introduces and employs contemporary theoretical approaches to examine and compare these macro-level processes of political and economic change (including case studies from Latin America, Eastern and Western Europe, and sub-Saharan Africa).

228 Comparative Politics. Fall (4).

Exploration of the basic concepts, theories and debates in the sub-field of comparative politics. The goals are to understand the methods and skills required for comparing political systems, to evaluate and critique various approaches in comparative politics, and to do theoretical and empirical comparisons of contemporary global problems such as revolution, development, political change, and integration.

230 Latin American Politics and Development. Spring (4).

Introduction to the dynamics of politics in Latin America and contemporary issues of concern. Examination of political stability and recent trends toward democratization. Assessment of the success and/or failure of the different types of political systems in 20th-century Latin America, focusing on the role of landowners, the military, political parties, labor unions, and the church. Offered as needed.

244 International Security. Fall (4).

A survey course on key issues of international security, including interstate and substate conflict, alliances, collective security, peace-keeping, preventive diplomacy, and both "traditional" and "non-traditional" threats. The course also focuses on regional security issues in Europe, the Middle East/Southwest Asia, and Northeast Asia. This course is required for students majoring in the International Politics, Peace and Security (IPPS) track of the International Relations major.

242 Asian International Relations. Spring (4).

History and structures of international relations in Asia since World War II. The Cold War, the Chinese civil war, U.S. involvement, the Korean War, and the conflict between China and Vietnam. Foreign policies of China,

Japan, the two Koreas, the United States, and the former Soviet Union and Russia.

245 International Law and Organization. Spring (4).

Various forms of the quest for world order, emphasizing issues of international law and the structure and functioning of intergovernmental organizations, including the United Nations.

250 American Foreign Policy. Fall (4).

How to analyze American foreign policy. Variables discussed include idiosyncrasy, roles, perception and misperception, political culture, interest groups, the media, public opinion, bureaucratic behavior and politics, decision making, multiple advocacy, the Congress, the international system, and international political economy.

257 Policy Making in Washington, DC. May Term (3).

Students spend the term in Washington DC meeting with alumni active in national politics. Half the semester is devoted to domestic policy and half to foreign policy. Prerequisite: by permission of instructor. CN.

302 Campaigns and Elections. Fall (4), Spring (4).

Thorough examination of the electoral process, including the important roles of parties, candidates, PACS, the media, and the money in shaping American presidential and congressional elections. Major theories of voting behavior. An American Politics course. Offered in alternate years.

304 Congress. Fall (4) or Spring (4).

Role of Congress in the American political system, focuses on historical development; rules, procedures, structures; and legislative behavior. Questions how Congress works and why individual members of Congress function as they do. Prerequisite: GOVT 111 or any American politics course.

305 Sex, Power, and Politics. Fall (4), Spring (4).

Examination of the impact of gender upon power relations and politics in the United States. Addresses the central dilemma of modern feminist thinking: the need to make

Government

gender both matter and not matter at the same time. Inherent to the course is discussion of the interrelationships among gender, class, race, power, and politics. Prerequisite: Sophomore standing. Offered in alternate years.

306 Constitutional Law: National and State Powers. Fall (4).

Examination of governmental powers focusing primarily upon the Supreme Court's interpretation of constitutional language contained in Articles I, II, III, VI, and Amendment X; the relationships among legislative, executive, and judicial powers, as well as the nexus between national and state powers, are extensively explored. Prerequisite: Sophomore standing.

307 Constitutional Law: Liberty and Authority. Spring (4).

Analysis of the Supreme Court's interpretation of both substantive and procedural rights as they are outlined in the Bill of Rights and are applied to state governments. The ever-present tension between individual rights and social responsibility serves as the thematic framework. Prerequisite: Sophomore standing.

308 American Presidency. Fall (4) or Spring (4).

The operations of the modern presidency given the constraints and opportunities provided by the U.S. Constitution and other political, economic, and cultural factors. Prerequisite: Any American politics course.

317 Feminist Political Theory. Fall (4), Spring (4).

Survey of the philosophical/theoretical approaches taking gender as central to the analysis, investigation, and explication of politics and political phenomena. Topics may include the social construction of gender, power, and identity; oppression and liberation; feminist legal theory; women and democracy; gender and race; etc. Offered in alternate years.

318 American Political Thought and Practice. Fall (4), Spring (4).

Examination of both the distinctly American forms of political philosophy and theoretical approaches analyzing the practice of American politics. Readings include primary

texts (particularly the founding), normative theory, and interpretive approaches. Topics may include the Constitution, equality, individualism, pluralism, pragmatism, race and gender in American politics, and citizenship.

319 Contemporary Political Theory. Fall (4), Spring (4).

Survey of the major ideas and approaches to political theory developed since 1900. Texts and themes vary, but may include modern liberalism, political identity (theories of race, gender, ethnicity), morality, nihilism, justice and distribution, power, postmodernism, cultural studies, mass society, and/or ethics. May be repeated for degree credit. Offered as needed.

321 Democratic Theory. Fall (4), Spring (4).

Examination of the historical development of, and current approaches to, the concept of democracy. Particular focus is given to contemporary debates about the meaning of participation, representation, deliberation, postmodernism, and the limitations of modern forms of democracy. Offered in alternate years.

332 Politics of Japan and Korea. Spring (4).

An introduction to the political systems of Japan, South Korea and North Korea. Topics include political institutions, party systems, electoral politics of Japan and South Korea, social policy, political economy, foreign policy, and the broader role of all three countries in East Asian regionalism. Prerequisite: A Comparative Politics or International Relations course.

337 Nations, Nationalism, and Conflict. Fall (4), Spring (4).

Investigation of the social and political connections between modernization and the emerging politics of ethnicity on a worldwide scale. Examination of several current examples of ethnic conflict and exploration of several theoretical approaches to race, ethnicity, nationality, and the modernization process. Review of various ethnic and anti-ethnic political movements in the

United States and worldwide. Prerequisite: A Comparative Politics or International Relations course. Cross-listed with SOAN 236. Offered in alternate years.

346 Foreign Policies of Russia and the Former Soviet States. Fall (4).

The first part of the course is an overview of the Soviet Union's foreign policy from 1917–1991. The second part is an examination of the international ramifications of the break-up of the Soviet Union and discusses the diverse foreign policy objectives (and circumstances) of the newly independent states of the former Soviet Union, concentrating on Russia. Prerequisites: A Comparative Politics and International Relations course.

351 Issues in American Foreign Policy. Spring (4).

Selected problems and issues of U.S. foreign policy in a post-Cold War world. Focus on such topics as the consequences of the break-up of the Soviet Union, nuclear proliferation, the future of U.S. relations with "traditional" allies in Europe and Asia, the evolving American relationship with the Third World, and the future circumstances of U.S. foreign economic policy. Prerequisite: GOVT 123 or any Comparative Politics and International Relations course.

356 Education Policy. Fall (4).

Examination of the history and evolution of federal and state education policy. Review of research conducted by leading scholars, think tanks, and non-partisan government organizations on the effectiveness of education policy.

357 Health Care Policy. Spring (4).

Examination of the U.S. health care system, including the evolution and impact of Medicare, Medicaid, and the SCHIP programs. Comparison of effectiveness of the U.S. health care system with other systems around the world. Examination of recent attempts to reform the U.S. health care system and their likely impacts. Prerequisite: GOVT 139 or junior standing.

360 Special Topics in American Government. Fall (4), Spring (4).

Selected intermediate topics in American

government chosen to reflect student interest and instructor availability. May be repeated for degree credit for a maximum of 8 credits given a different topic. Prerequisite: An American Politics course. Offered as needed.

361 Special Topics in Political Theory. Fall (4), Spring (4).

Selected intermediate topics in political theory chosen to reflect student interest and instructor availability. May be repeated for degree credit for a maximum of 8 credits given a different topic. Offered as needed.

362 Special Topics in Comparative Politics. Fall (4), Spring (4), May Term (3).

Selected intermediate topics in comparative government chosen to reflect student interest and instructor availability. May be repeated for degree credit for a maximum of 8 credits given a different topic. Prerequisites: A Comparative Politics and International Relations course. Offered as needed.

364 Special Topics in International Relations. Fall (4), Spring (4).

Selected intermediate topics in international relations chosen to reflect student interest and instructor availability. May be repeated for degree credit for a maximum of 8 credits given a different topic. Prerequisites: A Comparative Politics and International Relations course. Offered as needed.

365 Special Topics in Government. Fall (4), Spring (4).

Selected intermediate topics in government that do not fit one of the established sub-field topic courses. May be repeated for credit for a maximum of 8 credits, given a different topic.

460 Advanced Seminar in American Politics. (4).

Topics are announced in the Schedule of Classes. May be repeated for degree credit, provided sections are in different topics. Prerequisite: an American politics course.

461 Advanced Seminar in Political Theory. (4).

Topics are announced in the Schedule of Classes. May be repeated for degree credit,

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provided sections are in different topics. Prerequisite: Any Political Theory or Constitutional Law course.

462 Advanced Seminar in Comparative Politics. Spring (4).

Topics are announced in the Schedule of Classes. May be repeated for degree credit, provided sections are in different topics. Prerequisite: Any Comparative Politics or International Relations course.

463 Advanced Seminar in Public Law. (4).

Topics are announced in the Schedule of Classes. Prerequisite: GOVT 306 or 307.

464 Advanced Seminar in International Relations. (4).

Topics are announced in the Schedule of Classes. May be repeated for degree credit, provided sections are in different topics. Prerequisite: Any Comparative Politics or International Relations course.

485 Specialized Internship in Law. (2-4).

A work-related experience, usually with a local law firm, that serves to enrich understanding of the law.

International Relations Course

200 International Relations Theory. Spring (4).

Exploration of international relations theory, focusing on ideas and concepts that have been invoked to explain forces at work in interstate politics and the global system. Topics include political realist, liberal, constructivist, and feminist approaches to international relations theory, foreign policy, and national security decision making. Required of all International Relations majors.

THE FACULTY

Robert Y. Eng
 Kathleen Feeley
 John Glover
 Kathy J. Ogren
 Matthew T. Raffety
 James A. Sandos
 Patrick Wing

THE MAJOR

Learning outcomes for this program may be found at:

www.redlands.edu/academics/college-of-arts-sciences/undergraduate-studies/history/9473.aspx.

Bachelor of Arts

Students who choose to major in history must complete the following minimum requirements, usually in the sequence outlined:

Foundation courses

To be completed by the end of the sophomore year:

4 courses 16 credits

- HIST 101 World History to 1450 (4)
- HIST 102 World History since 1450 (4)
- HIST 121 American Civilization I (4)
- HIST 122 American Civilization II (4)

Electives:**5 courses 20 credits**

At least two must be at the 300 or Theories and Methods level. In addition, at least one of the 300-level courses taken must be a course **other than** HIST 323 California, or HIST 325 Public History: Applications in American Life. Note that in choosing their five electives, majors must complete at least one course (at the 100, 200, or 300 level) in each of the following three areas of cultural or geographical focus: (1) Europe; (2) Asia; and (3) Africa, Latin America, or the Middle East. (HIST 272 America and Asia and HIST 274 Vietnam count as Asian focus.) In choosing their two remaining electives, majors may make their selections from among any of the Department's area, thematic, or topical options, including, of course, any of the available or appropriate 200- or 300-level offerings in American or U.S. history.

Capstone experience**2 courses 8 credits**

- HIST 450 Historiography and Research Seminar (4) plus one of the following options:
 - a) HIST/SCSI 460 Senior Research Seminar (4) (portfolio of written work from history classes required); OR
 - b) Completion of an approved history honors project (see DEPARTMENTAL HONORS section below); OR
 - c) Completion of a research seminar: any 300-level course except HIST 323 and HIST 325.

Note: Any 300-level course other than HIST 323 and HIST 325 may be taken as a 300 level or as a research seminar capstone but not as both.

THE MINOR

Students minoring in history must complete the following requirements, usually in the sequence outlined:

Foundation courses

Ordinarily to be completed by the end of the sophomore year.

3 courses 12 credits**Select from:**

- HIST 101 World History to 1450 (4)
- HIST 102 World History since 1450 (4)
- HIST 121 American Civilization I (4)
- HIST 122 American Civilization II (4)

Electives

At least one must be at the 300- or Theories and Methods level.

4 courses 16 credits

Note that in choosing their four electives, minors must complete at least one course (at the 100-, 200-, or 300-level) in each of the following three areas of cultural or geographical focus: (1) Europe; (2) Asia; and (3) Africa, Latin America, or the Middle East. (HIST 272 America and Asia and HIST 274 Vietnam count as Asian focus.) In choosing their remaining elective, minors may make their selection from among any of the Department's area, thematic, or topical options, including,

History

of course, any of the available or appropriate 200- or 300-level offerings in American or U.S. history.

Capstone experience:

- 1 course 4 credits**
 – HIST 450 Historiography and Research Seminar (4)

SOCIAL SCIENCE PROGRAM

History majors interested in careers teaching at the secondary school level are encouraged to complete, in conjunction with their studies in history, the social science program described in the Integrated Programs of Study section of this *Catalog*. Students should coordinate their academic planning with their History Department advisor and with the School of Education.

ADVANCED PLACEMENT IN HISTORY

1. For AP scores of one, two, or three in U.S., European, or World History, no credit will be awarded by the department.
2. For AP scores of four or five, the department awards four credits for each score presented. In U.S. History, credit is given for HIST 122. In European History, credit is given for HIST 112. In World History, credit is given for HIST 102.

INTERNSHIPS

A limited number of internships are available for history majors. Contact the Department Chair for information.

DEPARTMENTAL HONORS

A departmental honors program is available for exceptionally able and motivated students. Students with a cumulative GPA of 3.45 or better may initiate an application to take the program. Alternatively, the Department may invite a student to apply. Interested students should consult with the Department Chair for information about the application procedure and requirements. The deadline for application is Monday of the fourth week of the first semester of the senior year.

Course Descriptions (HIST)

Foundation Courses:

101 World History to 1450. Fall (4), Spring (4).

Introductory survey of the principal world civilizations of the ancient, classical, and medieval eras, with emphasis on the major features and patterns of change of each civilization in a comparative framework, and cross-cultural interactions and exchanges. Also considered are non-traditional approaches to history, such as the feminist perspective.

102 World History Since 1450. Fall (4), Spring (4).

Introduction to the chief themes or issues shaping world history from the European age of discovery through the end of the Cold War. Unavoidably selective, the course focuses upon the forces of modernization and change revolutionizing traditional world cultures and resulting in the interdependent, global system of today.

121 American Civilization I. Fall (4), Spring (4).

Major themes in the development of American culture and society from the colonial period to the Civil War are explored. Topics include colonization, the Revolutionary War, slavery, industrialization, the American Enlightenment, reform, the Civil War, geographic expansion, class, race, and gender.

122 American Civilization II. Fall (4), Spring (4).

Major themes in the development of American culture and society from Reconstruction to the present. Topics include the "search for order," the West, leisure, world wars, urbanization, political and social movements, radicalism, and class, race, and gender relations.

Area Focus Courses:**111 European Civilization: Early Modern. Fall (4).**

Exploration of the profound transformation that occurred in European culture as it moved from its medieval configuration to the essentially modern form assumed by the end of the 18th century. Topics include the Renaissance, the Reformation, the Enlightenment, the birth of modern science, and the English and French revolutions.

112 European Civilization: The 19th and 20th Centuries. Spring (4).

Development of European civilization from its 19th-century display of vigorous, commanding growth to its 20th-century expressions of uncertainty, fragmentation, and barbarity. Topics include the French and Industrial revolutions, Romanticism, the rise of radical social theory, the challenge of irrationalism, the savagery of totalitarianism, total war, and genocide.

131 Latin American Civilization. Fall (4).

Introduction to Latin America through analysis of selected social, economic, and political themes. Topics include the colonial heritage, economic dependency, a stratified society, the role of the church, the Latin American military, and the influence of the United States in the region. Offered as needed.

141 Classical Asian Civilizations: China and Japan. Spring (4).

Study of the Chinese and Japanese civilizations before the encounter between East and West, and these civilizations' philosophical, material, and institutional contributions to world culture. Offered in alternate years.

142 Modern Asian Civilizations: China and Japan. Spring (4).

China and Japan are traced from the height of empire through their respective transformations under the impact of Western imperialism to the present day. Offered in alternate years.

151 The African Experience Before 1800. Fall (4).

The history of sub-Saharan Africa before the era of European Imperialism. The diversity of African societies will be emphasized by exploring the relationships between geography, environment, and history across the continent. Topics include cultural ecology, ethnicity, Africa's place in the Islamic world, and the Atlantic slave trade. Offered as needed.

152 The Emergence of Modern Africa. Spring (4).

The history of sub-Saharan Africa from the end of the Atlantic slave trade to the present. Agency and the development of new African identities underscore an interdisciplinary examination of how Africa negotiated European colonization and the subsequent challenges of independence and neo-imperialism. Offered as needed.

223 Anxiety Race and Empire: U.S. c. 1900. Fall (4), Spring (4).

From 1876-1917, the U.S. experienced optimism and dismay over profound economic, demographic, cultural, and political changes. This course explores shifting conceptions of race and empire (both on the closing frontier and worldwide), mass media's development, and questions of modernity, authenticity, and identity at the oft-bewildering dawn of the "American Century." Offered as needed.

224 History of Sports in America. Fall (4), Spring (4).

Examines historical development and shifting meanings of American sports from the colonial era through the present. We focus on links between sports and national identity, industrialization, religion, urbanization, and the issues of race, class, gender and sexuality on and off the field. We may even get in a few games ourselves. Offered as needed.

226 Native American History, 1600–Present. Fall (4).

Survey of Native American history from the era of first contact with Europeans to contemporary controversies. Topics include the contesting of European colonization,

History

the phenomenon of intercultural captivity, the "era of removal," battles over cultural assimilation, personal and collective identities, American Indian law, gender issues, and tribal sovereignty. Offered in alternate years.

228 U.S. City and Suburb. Fall (4).

Where and how Americans have chosen or have been forced by circumstance to live, work, and play and how this has changed over the last century will be the central focus. Topics include immigration, industrialization, urbanization, suburbanization, social reform and activism. Offered as needed.

229 U.S. History on Film. May Term (3).

Analyze history of U.S. film industry and use films to understand the political, economic, social, and cultural context. Consider strengths and limits of film as a tool for understanding U.S. culture and history. Key themes: class, gender, and racial conflict and consciousness: rise of a mass consumer culture and American empire. Offered as needed.

231 Brazil. Spring (4).

Brazil since 1500 is examined in light of the struggle between economic development and political democracy. Special emphasis given to treatment of Indians, foreign ideology and investment, African religions, and state building. Offered as needed.

232 Mexico. Fall (4).

Analysis of Mexican history from the pre-Columbian era to the present, with heavy focus on the 19th and 20th centuries, especially the Mexican revolution and its aftermath. Offered as needed.

240 Modern China. Fall (4), Spring (4).

Survey of China from the founding of the Qing empire to the present: the zenith of the imperial-bureaucratic state in the 18th century, China's disintegration under the blows of Western aggression and internal rebellion, and the great political, social, and intellectual upheavals of the 20th century. Offered as needed.

242 Modern Japan. Spring (4).

How did Japan emerge from the ashes of World War II to become the world's second-largest economy? The answer begins with feudal Japan's disintegration under the impact of internal rebellion and Western imperialism, continues with Japan's rise to imperialist and militarist power, and culminates with the post-war economic miracle. Offered as needed.

260 Contemporary Problems.

Fall (4), Spring (4), May Term (3).

Introductory study of compelling contemporary problems any place on the globe, with an emphasis on how study of the past illuminates the present. Possible topics: the modern Middle East, issues in Native American history, modern Africa. May be repeated for degree credit given a different topic.

272 America and Asia. Fall (4).

China, Japan, and Southeast Asia are regions of vital strategic and economic concern to the United States. Examination of past and present friction and cooperation, prospects for future harmony, mutual perceptions, and Asian contributions to the making of America.

273 Cyberculture and the Networked Society in the Information Age.

Spring (4).

The Information Revolution has ushered in a new age of transformative changes in social interactions, techniques of production and commerce, cultural modes and practices, and political institutions and processes. Examination of the impact of computers, the Internet, and the World Wide Web on human society and global culture. Offered as needed.

274 Vietnam. Fall (4).

Reconstruction of the era through films, popular music, and political and military strategy documents, and social, economic, and political analysis made by contemporary writers. A special segment examines issues raised by the conflict and lessons learned for future military operations.

Historical Theories and Methods:**311 Europe: 1890–1945. Fall (4).**

The great upheavals and ordeals of Europe in the first half of the 20th century: the first and second World Wars, the rise of fascism and communism, the Third Reich and the Holocaust, and the collapse of Europe after Hitler's war. Prerequisite: Junior/senior standing or instructor permission. Offered as needed.

320 U.S. Cultural History. Fall (4).

Explores the nature and purpose of the historian's craft and the historical method through the rise of cultural history in modern U.S. Topics include rise of industrial capitalism and growth of urban mass consumer culture and its output, including film and television. Prerequisite: Junior/senior standing or instructor permission.

321 Civil War and Reconstruction. Spring (4).

Examination of the nation's greatest crisis. Topics include the diplomacy of the North and South, the economic and social changes wrought by the conflict, and the conflicting forces that affected Reconstruction in the South. Prerequisite: Junior/senior standing or instructor permission.

323 California. Spring (4).

Evolution of California society traced from the arrival of Native Americans. Topics include the Spanish and Mexican colonization, Gold Rush, development of agri-business, industrialization, population growth, and the unique cultural and ethnic heritage of the state. Primarily for teaching credential students.

324 Cold War America. Spring (4).

Explore how the Cold War has shaped U.S. (and global) economy, culture, politics, gender roles, and history. Topics include McCarthyism, nuclear politics, and Cold War literature. Prerequisite: Junior/senior standing or instructor permission. Offered as needed.

325 Public History: Applications in American Life. Spring (4).

Students apply historical methods locally, addressing such questions as how the past becomes history, who uses history in the local

community, and how priorities are set in collecting and preserving the past. Students pursue individual projects involving direct experience with primary sources. Offered as needed.

326 Primary Witness in Women's History. Fall (4).

Examination of four major kinds of primary documents used to reclaim and analyze United States women's history: diaries, correspondence, oral narratives, and autobiographies. Focus on the problems posed by private and public evidence in historical scholarship. Students also apply these methods to their own writings and research. Prerequisite: Junior/senior standing or instructor permission. Offered as needed.

327 Modern African-American History. Spring (4).

Study of African-American history from emancipation to the present. Topics include the struggle to incorporate freedmen into the American polity and market economy, the development of African-American communities, and cultural, economic, and political changes that proved most significant for 20th-century African-American history. Prerequisite: Junior/senior standing or instructor permission. Offered as needed.

328 Gender, Media, and U.S. Culture. Spring (4).

Study of gender and media theory and history in modern United States. Major themes include the evolution of the mass media, how this media both reflects and shapes gender roles and norms, how gender norms and stereotypes have evolved and have also shaped U.S. media. Prerequisite: Junior/senior standing or instructor permission.

330 Rise of the Anglo Atlantic World 1500–1815. Fall (4), Spring (4).

Research seminar examining the development of the Anglophone Atlantic from the 16th through the 19th centuries as a maritime empire that bound together people, goods, and ideas from four continents centered on the Atlantic, while exploring the promise and perils of the "Atlantic turn" in historiography.

History

Prerequisite: Junior/senior standing or instructor permission. Offered as needed.

332 U.S. in the Era of Jefferson and Jackson. Fall (4), Spring (4).

Examines the critical period in the early American republic, 1789-1850. Particular attention is given to the rise of popular democratic participation and the party politics, the development of race as a central line of division, and the economic and cultural processes by which the U.S. began to cohere as a nation. Prerequisite: Junior/senior standing or instructor permission. Offered as needed.

343 China Since 1949. Fall (4).

The People's Republic of China has undertaken some of the most spectacular social experiments the world has ever witnessed. Examination of the P.R.C.'s revolutionary roots, ideological foundations, social and institutional innovations, and changing relationships with the United States and the former Soviet Union. Prerequisite: Junior/senior standing or instructor permission.

344 The Pacific Rim: Economic Dynamism and Challenge for America. Fall (4), Spring (4).

The Pacific Rim is the world's most dynamic region, where the economic expansion of Japan, Taiwan, South Korea, Singapore, and Hong Kong is now matched by China and other Southeast Asian nations. Focus on historical and cultural sources of Asian economic strength, and opportunities and challenges presented to the United States. Prerequisite: Junior/senior standing or instructor permission. Offered as needed.

352 Africa and the Atlantic Slave Trade. Spring (4).

Examination of the central role of slavery and emancipation in the history of Africa and the Atlantic world from 1450-1900. While emphasizing the African experience, a consideration of the development of slave societies in the Americas will provide a comparative and more comprehensive view of the topic. Prerequisite: Junior/senior standing or instructor permission. Offered in alternate years.

354 Race and History in South Africa. Spring (4).

An exploration of the major developments in South Africa that led to the creation of apartheid, or racial separation. African perceptions of European colonization, industrialization, urbanization, and land alienation are stressed. The course concludes with a look at the work of African nationalist leaders such as Mandela and Biko. Prerequisite: Junior/senior standing or instructor permission. Offered in alternate years.

360 Historical Problems.

Fall (4), Spring (4).

In-depth treatment of selected topics in social, intellectual, economic, women's, and ethnic history. Possible topics: debating change in the modern American West, issues in Chicano history. May be repeated for degree credit given a different topic. Prerequisite: Junior/senior standing or instructor permission. Offered as needed.

371 Guerrilla Warfare in the 20th Century. Spring (4).

Exploration of the strategies of rural and urban guerrilla warfare and counter-insurgency campaigns, and the impact of technological change on both. Select cases range from the Philippine Insurrection to Vietnam. Specialized topics include escape and evasion, prisoners of war, intelligence gathering, and national estimates and assessments of enemy strength. Prerequisite: Junior/senior standing or instructor permission. Offered as needed.

Historiographical Capstone Courses:

450 Historiography and Research Seminar. Fall (4), Spring (4).

Historical research, writing, and analysis. Specific content may vary from offering to offering; in every case, concrete historical periods or issues are used as vehicles for examining questions of historical methodology and practice. Possible topics: slavery and race relations in the Americas, gender in the American West, war and economy in peasant societies. Prerequisite: prior coursework in the major, junior or senior standing, and instructor's permission. May be repeated for degree credit for a maximum of 12 credits.

460 Senior Research Seminar.**Fall (4), Spring (4).**

Historical research, writing, and analysis. Specific content may vary from offering to offering; in every case, students are expected to complete major research projects reflecting advanced historiographical understanding and skill. Possible topics: California Indians, war and society. Ordinarily to be taken after HIST 450. Prerequisite: prior coursework in the major and junior or senior standing or by permission. Completion of portfolio required. May be repeated for degree credit given a different topic.

Human-Animal Studies

THE PROGRAM DIRECTOR

Kathie Jenni, Philosophy

THE FACULTY ADVISORY COMMITTEE

Wendy McIntyre, Environmental Studies

Catherine Salmon, Psychology

Lei Lani Stelle, Biology

The Field of Study

Human-Animal Studies (HAST) is a rapidly growing interdisciplinary field devoted to examining and critically evaluating the relationships between humans and nonhuman animals, be these relationships historical or contemporary, factual or fictional, real or symbolic, beneficial or detrimental. In exploring these relationships, we acquire a greater understanding of the ways in which animals figure in our lives and we in theirs. As our understanding of ecology and the fundamental inter-connectedness of all living beings continues to grow, the importance of studying human-animal interactions becomes ever more evident.

All students with an interest in the interactions between humans and animals are encouraged to consider a Human-Animal Studies minor. This minor will have an especially practical use for students pursuing careers related to wild or domesticated animals, such as animals in zoos, shelters, refuges, wildlife rehabilitation centers, laboratory science, and veterinary medicine.

Advising

Students pursuing the minor must select a minor advisor as early as possible, and no later than when they declare the minor, to help them plan a coherent and balanced course of study. The minor advisor may be a member of the HAST Faculty Advisory Committee or any faculty member teaching a course in the HAST minor curriculum. Students should meet with the minor advisor at least once each semester, and the student and advisor should maintain regular contact with the HAST Advisory Committee to ensure a rich interdisciplinary experience. Since many of the courses in the minor have prerequisites, early planning is important.

THE MINOR

The minor in HAST consists of six (3 or 4 credit) courses: two foundation courses, three electives, and a practicum.

Foundation Courses

2 courses 8 credits

One of the following two courses:

- PHIL 257 Humans and Other Animals (4)
- PHIL 330 Ethics and the Environment (4)

AND

One of the following courses:

- BIOL 331 Ecology (4) OR
- BIOL 340 Conservation Biology (3-4) OR
- EVST 230 Biodiversity (4) OR
- EVST 305 Ecology for Environmental Scientists (4) OR
- BIOL 352 Animal Behavior (4) OR
- PSYC 350 Evolutionary Psychology (4)

Elective Courses (3 courses)

3 courses 10-12 credits

The three electives may be selected from the following courses, with the requirements that (a) at least one course must be selected from the sciences and one from the humanities, (b) at least three disciplinary areas must be represented in the minor, and (c) no elective may duplicate a foundational course. One elective may be satisfied through a directed study in a HAST-related topic, subject to approval by the HAST Advisory Committee. No more than two courses in the minor may count toward the biology, environmental studies, or philosophy major.

Elective Science Courses

- BIOL 109 Contemporary Issues in Ecology (3-4)
- BIOL 133 Principles of Biology (4)
- BIOL 331 Ecology^ (4)
OR BIOL 340 Conservation^ (3-4)
OR EVST 230 Biodiversity^ (4)
OR EVST 305 Ecology for Environmental Scientists^ (4)
- EVST 240 Global Environment (4)*

- EVST 245 Marine Environmental Studies (4)
- EVST 255 Ornithology (4)
- EVST 275 Conservation in Practice (4)
- EVST 300 Environmental World Views (4)
- PSYC 350 Evolutionary Psychology^ (4)
OR BIOL 352 Animal Behavior^ (4)

Elective Humanities Courses

- ENGL 161 (Studies in Literature) Art and Animal (3-4)
- EVST 215 American Environmental Literature (4)
- EVST 260 (Topics in Environmental Studies) Environmental Non-Fiction
- PHIL 120 Ethics and Social Philosophy* (4)
- PHIL 160 Introductory Topics in Philosophy (3-4)

* *assuming HAST-related topics*

^ *If one in this cluster is taken as a foundational course, none of the other(s) may count as an elective.*

The Practicum

1 course 3-4 credits

Students must complete a practicum (3-4 credits), ideally undertaken after the completion of other HAST coursework in the spirit of a capstone. The practicum may take the form of any experiential project involving animals that is overseen by Redlands faculty and approved by the Advisory Committee. Thus, for example, one may fulfill the practicum through completion of:

Take 1 course

Choose from

- A course with Redlands faculty that involves experiential learning involving animals
- Community Service Learning activities conjoined with HAST faculty oversight in the form of a directed study
- Fieldwork via Environmental Study Abroad programs conjoined with HAST faculty oversight
- An internship in a HAST-related organization with HAST faculty oversight in the form of a directed study

Completion of a critical written reflection on the practicum (10-15 pages) integrating insights from three disciplinary areas within the minor is required for completion of the practicum requirement. The instructor overseeing the practicum will supervise completion of the reflection, in consultation with the Advisory Committee, with the aim of ensuring application and integration of learning from at least three disciplinary areas.

Negotiable Courses

Appropriate additional courses and directed studies from a variety of departments may be counted toward the HAST minor. To be eligible, a course must include significant attention to Human-Animal relationships and offer the opportunity to focus a research paper or project on related issues.

Students should discuss the potential of a course counting toward the minor with the instructor as early as possible (ideally, before the course has begun) and negotiate special assignments or projects in consultation with the instructor and the HAST Advisory Committee early in the semester. Negotiable courses must be approved by the Advisory Committee for credit toward the minor.

International Relations

THE PROGRAM DIRECTOR

Graeme Auton

ADVISORY COMMITTEE

Frank Bright
 Kimberley Coles
 Jeff Fear
 Monty Hempel
 Daniel Klooster
 Steve Wuhs

THE MAJOR

Learning outcomes for this program may be found at:

www.redlands.edu/academics/college-of-arts-sciences/undergraduate-studies/9475.aspx.

Bachelor of Arts

The major consists of a minimum of 48 credits selected in consultation with an advisor, who must be a regular faculty member in one of the departments that contribute to the International Relations major. In addition to completing the foundation, foreign language, and capstone requirements, every major will select a concentration from the list below and complete 24 credits from the list of acceptable courses. The list of courses for each concentration will be revised each year to accommodate newly approved courses and appropriate topics courses. This list may be acquired from the program director.

At least 28 credits for the major must be taken at the University of Redlands. No more than fifty percent of the credits for the foundation or concentration requirement may be satisfied through off-campus study; determination of course equivalence for off-campus study programs is the province of the student's academic adviser. The foreign language requirement may be acquired through off-campus programs. The capstone course must be taken at the University of Redlands.

Participation in a study abroad program is strongly encouraged and should usually be scheduled for the junior or senior year.

Major Requirements

Students must complete 48 credits, distributed as follows:

1. Foundation

4 courses 16 credits

- IR 200 International Relations Theory (4)
- HIST 102 World History since 1450 (4)
- SOAN 102 Introduction to Cultural Anthropology (4)
- ECON 149 Introduction to Economics (4) OR ECON 250 Principles of Microeconomics (3-4) (ECON 149 does not meet the prerequisites for the upper-division economics courses recommended for some concentrations. Students considering these courses should take ECON 250 and 251.)

2. Capstone 4 credits

- IR 400 International Relations Capstone (4)

3. Foreign Language 4 credits

- Pass at least one course at or above the 300 level or equivalent.

4. Concentration 24 credits

- Select one concentration area and complete the requirements.
- Choose six courses from the list provided for the concentration; no more than two may have 100- or 200-level designations.
- One class must be a methods course, but no more than two methods courses may count toward the six courses required by the concentration.
- Courses in the concentration must be taken from at least three departments.
- One course in the concentration must be at the 400 level.
- Eligible classes will change as course offerings change; see the program director for the most current list.

International Relations Concentrations

1. International Political Economy (IPE)

Methods Courses

1 course 4 credits

- One course from GOVT 200-205, ECON 200 Intro to Statistical Methods (4)

Content Courses

5 courses. 19-20 credits

- GOVT 222 Asian Politics and Development (3-4)
- GOVT 242 Asian International Relations (4)
- GOVT 220 Government and Politics of Europe (4)
- GOVT 228 Comparative Politics (4)
- GOVT 230 Latin American Politics (4)
- GOVT 250 American Foreign Policy (4)
- GOVT 332 Politics of Japan and Korea (4)
- GOVT 346 Foreign Policies of Russia and Former Soviet States (4)
- GOVT 464 Advanced Seminar in International Relations (4)
- BUS 335 Global Marketing (4)
- BUS 336 International Business (4)
- BUS 450 The European Union (4)
- BUS 451 Government and Business in China (4)
- BUS 452 Japanese Corporations and Global Business (4)
- ECON 320 Comparative Economic Systems (4)
- ECON 321 Economic Development (4)
- ECON 322 International Trade (4)
- ECON 323 International Finance (4)
- ECON 365 Topics in Political Economy (3-4)
- EVST 335 Development and Environment in Latin America (4)
- HIST 272 America and Asia (4)
- HIST 273 Cyberculture and Networked Society (4)

- HIST 344 Pacific Rim: Economic Dynamism and Challenge for America (4)
- LAST 320 Globalization and the Environment in Latin America (4)
- SOAN 322 Sociology of the Third World (4)
- SOAN 339 Globalization and its Critics (3-4)

2. International Development and Sustainability (IDS)

Methods Courses

1 course 4 credits

- One course from GOVT 200-205, SOAN 300-309, EVST 110 Introduction to Spatial Analysis and GIS (4), EVST 235 Environmental Impact Assessment (4), EVST 250 Environmental Design Studio I (4)

Content Courses

5 courses. 19-20 credits

- ECON 320 Comparative Economic Systems (4)
- ECON 321 Economic Development (4)
- ECON 340 Economics of Race & Gender (4)
- ECON 355 Environmental and Resource Economics (4)
- ECON 365 Topics in Political Economy (3-4)
- EVST 100 Introduction to Environmental Studies (4)
- EVST 240 Global Environment (4)
- EVST 300 Environmental World Views (4)
- EVST 210 Energy and the Environment (4)
- EVST 230 Biodiversity (4)
- EVST 275 Conservation in Practice (4)
- EVST 310 Environmental Law (4)
- EVST 320 Environmental Policy and Management (4)
- EVST 330 Environmental Policy Clinic (4)
- EVST 335 Development and Environment in Latin America (4)
- EVST X60 Applicable topics course approved by IR advisor

International Relations

- GOVT 222 Asian Politics and Development (4)
- GOVT 223 Chinese State (4)
- GOVT 224 Asian International Relations (4)
- GOVT 330 Latin American Politics and Development (4)
- GOVT 332 Politics of Japan and Korea (4)
- GOVT 362 Topics in Comparative Politics (4)
- GOVT 420 Advanced Seminar in Comparative Politics (4)
- LAST 210 Culture, Nature, Power in Latin America (4)
- LAST 320 Globalization and the Environment in Latin America (4)
- LAST 340 Mexico: Challenges in Culture and Rural Development (4)
- SOAN 208 Business and Society (4)
- SOAN 222 Development and Change in the Americas (4)
- SOAN 227 Power, Politics, and Culture (4)
- SOAN 257 Latin American Societies and Cultures (4)
- SOAN 337/GOVT 337 Nations, Nationalism, and Conflict (4)
- SOAN 339 Globalization and its Critics (4)
- SOAN 426 Political Economy (4)
- SOAN Applicable topics in Sociology (x60) OR Anthropology (x65) approved by IR advisor (4)
- ECON 320 Comparative Economic Systems (4)
- ECON 321 Economic Development (4)
- ECON 340 Economics of Race and Gender (4)
- ECON 355 Environmental and Resource Economics (4)
- GOVT 305 Sex, Power and Politics (4)
- GOVT 328 Comparative Politics (4)
- GOVT 344 International Law and Organization (4)
- GOVT 420 Advanced Seminar in Comparative Politics (4)
- GOVT 440 Advanced Seminar in International Relations (4)
- HIST 112 European Civilization: 19th and 20th Centuries (4)
- HIST 131 Latin American Civilization (4)
- HIST 142 Modern Asian Civilizations (4)
- HIST 152 Emergence of Modern Africa
- HIST 212 Eastern European Society and Culture 1945–Present (4)
- HIST 214 The Soviet Union, 1917–1991 (4)
- HIST 240 Modern China (4)
- HIST 242 Modern Japan (4)
- HIST 273 Cyberculture and Networked Society (4)
- HIST 343 China Since 1949 (4)
- HIST 354 Race and History in South Africa (4)
- HIST 371 Guerrilla Warfare in the 20th Century (4)
- LAST 320 Globalization and the Environment in Latin America (4)
- SOAN 256 Japanese Society and Culture (4)
- SOAN 257 Latin American Societies and Cultures (4)
- SOAN 259 The Middle East (4)
- SOAN 322 Sociology of the Third World (4)
- SOAN 325 Class and Inequality (4)
- SOAN 326 Humanitarianism: The SocioPolitics of Help and Hope (4)

3. Global Institutions and Society (GLIS)

Methods Courses

1 course 3-4 credits

- One course from GOVT 200-205, SOAN 300-309

Content Courses

5 courses 19-20 credits

- BUS 336 International Business (4)
- BUS 451 Government and Business in China (4)
- BUS 452 Japanese Corporations and Global Business (4)

- SOAN 328 Race and Ethnic Relations (4)
- SOAN 336 Consumers and Consumption (4)
- SOAN 337 Ethnicity and Ethnic Conflict/GOVT 337 Nations, Nationalism, and Conflict (4)
- SOAN 339 Globalization and its Critics (4)
- SOAN 341 Social Movements (4)
- SOAN 342 Gender and Sexuality (4)
- HIST 242 Modern Japan (4)
- HIST 272 America and Asia (4)
- HIST 274 Vietnam (4)
- HIST 311 Europe: 1890–1945 (4)
- HIST 343 China Since 1949 (4)
- HIST 344 The Pacific Rim: Economic Dynamism and Challenge for America (4)
- HIST 371 Guerrilla Warfare in the 20th Century (4)

4. International Politics, Peace, and Security (IPPS)

Methods Courses

1 course 3-4 credits

- One course from GOVT 200-205, SOAN 300-309

Content Courses

(must include GOVT 244)

5 courses. 19-20 credits

- GOVT 244 International Security Policies (4) (Required)

Plus 4 courses chosen from:

- GOVT 220 Governments and Politics of Europe (4)
- GOVT 222 Asian Politics and Development (3-4)
- GOVT 230 Latin American Politics (4)
- GOVT 242 Asian International Relations (4)
- GOVT 245 International Law and Organization (4)
- GOVT 250 American Foreign Policy (4)
- GOVT 332 Politics of Japan and Korea (4)
- GOVT 346 Foreign Policies of Russia and Former Soviet States (4)
- GOVT 462 Advanced Seminar in Comparative Politics (when topic is applicable) (4)
- GOVT 464 Advanced Seminar in International Relations (4)
- HIST 212 Eastern European Society and Culture 1945–Present (4)
- HIST 214 The Soviet Union 1917–1991 (4)
- HIST 240 Modern China (4)

- SOAN 326 Humanitarianism: The SocioPolitics of Help and Hope (4)
- SOAN 337 Ethnicity and Ethnic Conflict/GOVT 337 Nations, Nationalism and Conflict (4)
- SOAN 339 Globalization and its Critics (4)
- ECON 320 Comparative Economic Systems (4)
- ECON 321 Economic Development (4)
- ECON 322 International Trade (4)
- ECON 323 International Finance (4)

Course Descriptions (IR)

200 International Relations Theory. Spring (4).

Exploration of international relations theory, focusing on ideas and concepts that have been invoked to explain forces at work in interstate politics and the global system. Topics include political realist, liberal, constructivist, and feminist approaches to international relations theory, foreign policy, and national security decision making. Required of all International Relations majors.

400 International Relations Capstone. Spring (4).

An interdisciplinary research seminar for International Relations majors in which students examine common issues in international relations from their various areas of expertise and then produce a major research project. Required of all majors. Prerequisite: IR 200 or by permission.

Latin American Studies

THE DIRECTOR

Ivonne Gordon Vailakis, Spanish

THE ADVISORY COMMITTEE

Barbara Conboy, Communicative Disorders

Olga González, Spanish

Shana Higgins, Library

Daniel Klooster, Environmental Studies

Timothy Krantz, Environmental Studies

James Sandos, History

Sara Schoonmaker, Sociology and Anthropology

James Spickard, Sociology and Anthropology

Patricia L. Wasielewski, Women's Studies/Sociology and Anthropology

Steve Wuhs, Government

THE MAJOR

Latin American Studies brings together knowledge from the humanities, the social sciences, and environmental studies to build a foundation in the cultural, economic, political, historical, geographical, literary and environmental contexts of Latin America. In addition to developing breadth in Latin American studies through coursework in multiple disciplines, the program also emphasizes depth in understanding through concentration in a focused problem, topic, area, discipline, or method. Students develop significant language skills, cross cultural understanding, an interdisciplinary approach, and the ability to incorporate Latin American perspectives in their analysis of fields including art, development, environmental conservation, history, literature, and politics. Both a major and minor are offered.

Learning outcomes for this program may be found at:

www.redlands.edu/academics/college-of-arts-sciences/undergraduate-studies/latin-american-studies/9477.aspx.

Graduates in Latin American Studies will:

- communicate competently in Spanish or another language from Latin America
- examine their core interest through two or more disciplinary approaches

- draw connections between the unifying elements of the Latin American Experience and their manifestations in particular regions, countries, and cultures, and
- articulate the ways in which an immersion experience altered their understanding of Latin America

Major and Minor Requirements

1. Spanish language requirement

All students majoring or minoring in Latin American Studies must achieve communicative competence in Spanish. We require satisfactory completion of SPAN 202, or demonstrated proficiency in Spanish at this level. Demonstrated competence in a Latin American language other than English may be substituted for Spanish under exceptional circumstances.

2. Study Abroad requirement

A semester-long program of study abroad in Latin America or other Latin American immersion experience, such as significant interactions with Latin American immigrant communities in the USA, is required for all majors and minors, and can both count toward the program's language requirement and concentration courses. Students should consult their Latin American Studies advisor, the Director, and the University's Office for Study Abroad for program options.

3. Capstone Experience

Majors and minors are required to complete a culminating project in Latin American Studies such as a portfolio of work and reflections or a substantial project reflecting the learning outcomes of the major, preferably while enrolling in an upper division seminar or capstone taught by a program committee member, preferably during the Fall semester of the senior year.

Major Requirements

The major in Latin American studies consists of twelve courses (48 credits).

1. Core Course

1 course 4 credits

LAST 101 Introduction to Latin America (4)

2. Methods Course

Majors must take one methods course from the approved list, or others as approved by the LAST advisor. Methods courses without Latin American content may be used to fulfill the methods requirement, but do not count toward the credits needed to complete the major. Students are advised to use courses from their content areas for additional appropriate methods in order to build depth in their major. *Note: these courses might have prerequisites, so students should plan accordingly.* The following are some suggested courses, but are not a complete list of those that may count for this requirement. Consult the faculty or director if you have questions.

1 course 4 credits

- ECON 200 Introduction to Statistical Methods (4)
- ENGL 201 Analysis of Literature (4)
- EVST 110 Introduction to Spatial Analysis and GIS (4)
- EVST 235 Environmental Impact Assessment (4)
- EVST 399 Research Methods in Environmental Studies (with focus on Latin America) (4)
- GOVT 200 The Study of Politics (4)
- HIST 450 Historiography and Research Seminar (4)
- SOAN 300 Research Methods in the Social Sciences (4)
- SOAN 301 Fieldwork and Ethnographic Methods (4)
- SOAN 304 Survey Research Methods (4)
- SPAN 410 Introduction to Spanish Linguistics (4)
- WGST 330 Feminist Research Methods (4)

3. Content Areas

8 courses 32 credits

LAST majors must take eight courses distributed among three content areas: Environmental Studies, Humanities, and the Social Sciences. To demonstrate breadth, at least one course must be taken

from each content area. To demonstrate depth, LAST majors develop, in consultation with the LAST advisor, thematic, regional, or disciplinary emphases of at least four courses, structured around their interests and experiences. Study abroad courses apply to specific content areas at the discretion of the LAST advisor.

4. Electives

2 courses 8 credits

In addition to the above requirements, LAST majors must take an additional two courses. These may include courses such as *LAST 400 Capstone*, directed independent studies, additional methods classes, and other electives falling into a content area.

Minor Requirements

The minor in Latin American Studies consists of six courses emphasizing breadth in Latin American Studies.

1. Core Course

1 course 4 credits

LAST 101 Introduction to Latin America (4)

2. Content Area and Methods Courses

5 courses 18 credits

Minors must take an additional five LAST, cross-listed, or study-abroad courses approved by the LAST advisor. At least two of the three LAST content areas must be represented by at least one course.

Suggested Content Area Courses:

Environmental Studies Content Area

- EVST 220 Physical Geography (with a focus on Latin America) (4)
- EVST 242 Food and Nature (4)
- EVST 335 Environment and Development (4)
- EVST 360 Market-Based Conservation

Humanities Content Area

- HIST 131 Latin American Civilization (4)
- HIST 323 California (4)

Latin American Studies

- LAST 140 Race, Ethnicity, and Gender in Latin American History (4)
- LAST 150 History of Race in the Americas (4)
- LAST 220 Latin American Cinema (3-4)
- SPAN 360 Travel/Study (approved) (3)
- SPAN 440 Spanish American Narrative (4)
- SPAN 441 Hispanic Women Novelists (4)
- SPAN 450 Hispanic Poetry: Genres (4)
- SPAN 452 Hispanic Theater (4)

Social Science Content Area

- ECON 321 Economic Development (4)
- ECON 322 International Trade (4)
- ECON 323 International Finance (4)
- GOVT 224 Political Change (4)
- GOVT 230 Latin American Politics and Development (4)
- GOVT 462 Advanced Seminar in Comparative Politics (with focus on Latin America) (4)
- LAST 310 The Making of Modern Mexico (4)
- LAST 330 "Drug Wars" in the Americas (4)
- SOAN 222 Development and Change in the Americas (4)
- SOAN 257 Latin American Societies and Cultures (4)
- SOAN 269 Travel Courses
- SOAN 360 World Hunger (4)
- CDIS 260 Travel/Service Learning in Latin America

Advising

Both major and minor students must have a faculty advisor in the LAST program. They can choose from the director, faculty in the program, or those on the Advisory Committee. Advisors will aid students in choosing a range of courses, fulfilling their respective requirements, and focusing on their concentrations. Students declaring either a major or minor will need to fill out a declaration form with the Director.

Internships

A semester-long internship or service learning project can count toward the completion of the major or minor. Students should consult with their Latin American Studies advisor or the Director, who can aid them in finding and/or setting up their internship. Internships need to be focused upon some aspect of Latin American society, language, or culture. If conducted in Spanish, the internship will count toward the Spanish Language Requirement.

Course Descriptions (LAST)

101 Introduction to Latin America. Fall (4), Spring (4).

Explores the history, environment, and diversity of human cultures shaping Latin America. Untangles the interrelationships between Latin American regions and global systems, including conquest, colonialism, and globalization. Takes a geographical approach, synthesizing the influence of environment, culture, technology, history, and the influence of power at various scales.

140 Race, Ethnicity, and Gender in Latin American History. Fall (4).

Examination of the economic, political, and cultural factors that shaped the historical construction of race, ethnicity, and gender in modern Latin America. Analysis of how different social and political mass movements influenced the evolution of racial/ethnic identity and gender roles.

150 History of Race in the Americas. Spring (4).

Focus on the social and cultural construction of race in North America and Latin America. Analysis of the predominance of the eugenics movement, ethnocentrism, misogyny, racial discrimination, and violence defined within the Americas during the 19th and 20th centuries. Offered in alternate years.

160 Special Topics. Fall (4), Spring (4).

Topics of current interest in Latin American Studies. May be repeated for degree credit, given a different topic, for a maximum of 8 credits.

220 Latin American Cinema.**Fall (4), Spring (4).**

Explores the constitution of Latin American cultural identity through film, both features and documentaries. Topics covered may include: relationship between film production and the state, national identity, class, race and ethnicity, gender, concerns about historical representations, and the use of film as a tool for social change. Offered as needed.

260 Topics in Latin American Studies.**Fall (4), Spring (4).**

Diverse topics in Latin American studies dealing with either specific themes, currents of thought, or any other economic, political, social, or cultural manifestation coming from Latin America. May be repeated for degree credit, given a different topic, for a maximum of 12 credits.

310 The Making of Modern Mexico.**Spring (4).**

Examination of the social and cultural development of Mexican society from the inception of the Mexican Revolution in 1910 to the Chiapas rebellion of the 1990s. Focus on the impact of political mobilization, social reform, revolutionary change, gender roles, regionalism, ethnic identity, and armed struggle in the creation of the modern Mexican nation. Offered as needed.

330 "Drug Wars" in the Americas.**Fall (4), Spring (4).**

Exploration of the social control of drug use, both formal and informal focusing on the Americas. The historic and contemporary development of U.S. drug laws is a focus, as is international cooperation and policies that deal with controlled substances. We look at ways drugs, drug distribution and consumption are molded by our cultural practices and, in turn, how they help construct our ever-changing vision of culture, particularly in an increasingly global society. Prerequisite: LAST 101 or SOAN 100 or 102, or GOVT 111 or 123. Offered as needed.

360 Advanced Topics in Latin American Studies. Fall (4), Spring (4).

Interdisciplinary approaches to key issues, periods, personalities, movements, or tendencies in Latin American intellectual, political, social, or cultural history. Topics chosen tend to be examined from a cultural studies perspective. May be repeated for degree credit, given a different topic, for a maximum of 12 credits.

400 Capstone in Latin American Studies. Fall (4).

This course integrates the interdisciplinary work of Latin American Studies majors and minors, including their on-campus classes and study abroad coursework. Students engage in the production and consumption of original research in Latin American Studies and begin planning their post-collegiate professional lives as Latin Americanists. Prerequisite: LAST 101.

Liberal Studies

THE PROGRAM DIRECTOR

Katherine Hickey, Music

THE FACULTY COMMITTEE

Janet Beery, Mathematics

Joe Castino, School of Education

John Glover, History

Heather King, English

Jose Lalas, School of Education

Francisco Silva, Psychology

Debra Van Engelen, Chemistry

THE MAJOR

Liberal Studies (LBST) is an interdisciplinary program composed of a double major for students interested in teaching grades K-8. The Liberal Studies core consists of a sequence of LBST courses that introduce prospective teachers to the field, expose them to the various approaches to education from a variety of disciplinary perspectives, and prepare them to undertake research projects in education. Subject matter coursework in the Liberal Studies degree is designed to achieve the subject matter breadth that is required to teach at the elementary level. **Completion of subject matter courses in seven content areas satisfies most of the Liberal Arts Foundation Requirements for graduation from the University of Redlands.**

The courses prepare students for the multiple subjects test in the California Subject Examination for Teachers (CSET; formerly MSAT or Multiple Subject Assessment for Teachers) required under federal *No Child Left Behind* legislation.

Second Major Requirement

The Liberal Studies degree requires a second major of the student's choosing for disciplinary depth. Interdisciplinary majors are also available to the student. By selecting and completing a second major, Liberal Studies majors develop a strong understanding of the conceptual foundations of at least one subject area in depth, as well as an understanding of how knowledge is created and organized in that subject. Students are encouraged to select a subject area that will provide the foundation for supplementing a multiple subject teaching credential with teaching a single subject at the secondary level or one

that will lead to a second profession or graduate study. Common second majors include Biology, Chemistry, Communicative Disorders, English, Environmental Science, History, Mathematics, Psychology, and Spanish.

Students may enter the School of Education to begin credential coursework while completing a B.A. in Liberal Studies. All current course prerequisites for admission to the teaching credential program in the University's School of Education are satisfied within the Liberal Studies major. Academic advising for undergraduate students interested in becoming K-8 teachers is coordinated through the Liberal Studies program in the College of Arts and Sciences. Students who plan to be K-8 teachers should seek early advising by the Liberal Studies Program, followed by consultation with the School of Education.

Learning outcomes for this program may be found at:

www.redlands.edu/academics/college-of-arts-sciences/undergraduate-studies/liberal-studies/9479.aspx.

Bachelor of Arts

Requirements

All Liberal Studies core courses and the subject matter courses must be least 3 credits and must be completed with a grade of 2.0 or higher. Students with recommended placement in advanced courses in any discipline are encouraged to enroll accordingly.

All course substitutions or equivalences for major courses must be approved by the Liberal Studies program director; students should contact the Liberal Studies Program office regarding suitability of specific courses in each subject area.

1. Liberal Studies Core Courses

4 courses 16 credits

- LBST 101 Introduction to Education (4)
- LBST 201 Studies in Education (4)
- LBST 301 Inquiry and Analysis in Education (4)
- LBST 401 Senior Research Seminar in Education (4)

2. Subject Matter Courses

The following courses are required Subject Matter courses for the Liberal Studies degree. The courses are the most appropriate choices for fulfilling the respective LAF relative to the state's teaching content standards.

7 courses. 26-27 credits

- EDUC 310 Introduction to Second Language Acquisition (3)
- HIST 122 American Civilization II (4)
- ENGL 215 Children's Literature (4) OR any 200-level English course
- MUS 118 Music for the Classroom Teacher (4) OR ART 118 Art for Children
- MATH 102 Mathematics for Prospective Educators (4) (Prerequisite: MATH 101 Finite Math)
- BIOL 107 Concepts of Biology (3-4)
- CHEM 102 Introduction to Chemistry of the Environment (4)

Course substitution must be approved by the Liberal Studies Director.

Additional Recommended Courses

- EDUC 331 Child Development (3)
- EVST 220 Physical Geography (4)
OR PHYS 103 General Astronomy (4)
OR PHYS 104 Elementary Physics (4)
- GOVT 111 American National Government (4) *Meets California Constitution requirement*
- HIST 101 World History to 1450 (4) OR HIST 102 World History Since 1450 (4) OR HIST 121 American Civilization I (4)
- PE 310 Instructional Strategies for Physical Education (4)
- PHIL 100 Introduction to Philosophy (4)
- PSYC 100 Introduction to Psychology (4)
- REL 125 World Religion (4)
- SPCH 110 Fundamentals of Speech (4)
- Foreign Language - *To be chosen by student*

Second Major

The course of study is subject to the guidelines set forth by the program in which the second major is taken. The second major must be declared before registration for the junior year.

Departmental Honors

A departmental honors program in Liberal Studies is available for those students who wish to pursue advanced undergraduate research in elementary education. Students must have a cumulative University of Redlands GPA of at least 3.45 to apply to the program. Successful completion of LBST 301 or its equivalent is also a prerequisite to apply to the program. Applicants are encouraged to submit a thesis proposal to the program director by the end of the Spring semester of their junior year. The deadline to apply for the honors program is the end of the fourth week of the Fall semester of the senior year.

Course Descriptions (LBST)

101 Introduction to Education.

Fall (4), Spring (4).

An introduction to the many aspects of the teaching profession, this course will prepare students to integrate the different subject matters of the Liberal Studies curriculum into a developing personal philosophy and practice of education. Includes an introduction to classroom observation and fieldwork. NU only.

170, 270 Directed Study.

Fall (2-4), Spring (2-4).

This individualized study option provides majors with opportunities to design their own courses and to work closely with faculty on a one-on-one basis. The directed study may be disciplinary, interdisciplinary, or from areas outside the current liberal studies curriculum. CN or EV only.

201 Studies in Education.

Fall (4), Spring (4).

An introduction to research, educational philosophy and practice as it relates to specific subject matter areas. This course allows students the opportunity to relate their own educational experiences and knowledge of disciplinary subject matter to their developing philosophy of education. Topics of focus may vary. Community service component included. Prerequisite: LBST 101, EDUG 331, or by permission.

Liberal Studies

301 Inquiry and Analysis in Education.

Fall (4), Spring (4).

Research enables educators to improve teaching, to measure teaching effectiveness, and to determine how schools are funded and administered. Students are introduced to research techniques and develop proposals for educational research. Topics of focus may vary. Prerequisite: LBST 201 or by permission.

370, 470 Advanced Directed Study.

Fall (2–4), Spring (2–4).

This individualized study option provides majors with opportunities to design their own courses and to work closely with faculty on a one-on-one basis. The directed study may be disciplinary, interdisciplinary, or from areas outside the current liberal studies curriculum. CN and EV only.

401 Senior Seminar in Education.

Fall (4), Spring (4).

Students conduct research in education under the guidance of experts in the discipline and complete their portfolios. Students will gain knowledge of the professional research process and put that knowledge into practice. Students will be encouraged to consult professionals in the field of their research, providing valuable career contacts. Prerequisite: LBST 301 or by permission.

THE FACULTY

Janet L. Beery
 James Bentley
 Joanna Bieri
 Richard N. Cornez
 Elizabeth Doolittle
 Deon Garcia
 Alexander Koonce
 Steven Morics
 Tamara Veenstra

THE MAJOR

The bachelor of science degree in mathematics offers both breadth and depth in mathematical preparation appropriate for graduate study or work in a variety of fields. The requirements for the major in mathematics include both theoretical and applied courses. Students should plan with their advisors as they select courses appropriate to their interests and educational goals. The bachelor of science degree in mathematics leading to a Single-Subject Secondary Teaching Credential in mathematics conforms with the California State Department of Education guidelines for secondary teacher education.

Learning outcomes for this program may be found at:
www.redlands.edu/academics/college-of-arts-sciences/undergraduate-studies/mathematics/9481.aspx.

Bachelor of Science**Requirements**

7 courses 27-28 credits

- MATH 122 Calculus II (4)
- MATH 201 Discrete Mathematical Structures (4) OR MATH 204 Conjecture and Proof in Discrete Mathematics (3)
- MATH 221 Calculus III (4)
- MATH 241 Linear Algebra (4)
- MATH 321 Real Analysis (4)
- MATH 341 Abstract Algebra (4)
- MATH 459 Senior Research Seminar (4)

Depth requirement in analysis, topology, or algebra:

1 course 3-4 credits

At least one course from:

- MATH 325 Complex Analysis (4)
- MATH 355 Point Set Topology (4)
- MATH 360 OR 460 Topics (3-4) (with departmental approval);

Applied mathematics requirement:

1 course 3-4 credits

At least one course from:

- MATH 208 Game Theory (3)
- MATH 222 Vector Calculus (3)
- MATH 235 Differential Equations (4)
- MATH 311 Probability (4)
- MATH 312 Mathematical Statistics (4)
- MATH 331 Numerical Analysis (4)
- MATH 338 Partial Differential Equations (4)
- MATH 260, 360, OR 460 Topics in Mathematics (3-4) (with departmental approval)

Two additional courses:

2 courses 6-8 credits

One numbered 235 or above and one numbered 201 or above (at most, only one of MATH 212, MATH 231, ECON 300, and ECON 301 or ECON 308 may be counted toward the major);

Related Field Requirements

4 courses 16 credits

- At least 16 credits in courses outside mathematics that involve quantitative OR logical reasoning, OR a minor or second major in any field. Required:
- CS 110, Introduction to Programming (4) OR a course in another programming language; OR the student must demonstrate proficiency in a structured programming language.

Requirements for B.S. degree leading to the teaching credential:

- MATH 122 Calculus II (4)
- MATH 201 Discrete Mathematical Structures (4) OR MATH 204 Conjecture and Proof in Discrete Mathematics (4)

Mathematics

- MATH 221 Calculus III (4)
- MATH 241 Linear Algebra (4)
- MATH 245 Number Theory/History of Mathematics (4)
- MATH 251 College Geometry (4)
- MATH 311 Probability (4)
- MATH 312 Mathematical Statistics (4)
- MATH 321 Real Analysis (4)
- MATH 341 Abstract Algebra (4)
- MATH 459 Senior Research Seminar (4)
- CS 110 Introduction to Programming (4)
- At least 12 credits in courses outside mathematics that involve quantitative or logical reasoning, or a minor or second major in any field.

In addition, students seeking a Single-Subject Secondary Teaching Credential must satisfy the requirements for admission to the Basic Teaching Credential Program and, once admitted to this program, must satisfy the professional preparation requirements of the Single Subject Secondary Credential Program. See the School of Education section of this *Catalog* for details.

The Department of Mathematics recommends that students seeking a California Single Subject Secondary Teaching Credential in mathematics complete a minor in another academic area commonly taught in secondary schools.

Single Subject Teaching Credential

Students interested in obtaining the California Single Subject Secondary Teaching Credential in mathematics should meet with advisors in the Mathematics Department and the School of Education. Most students complete the teacher preparation program, including student teaching, during a fifth year of study following graduation.

THE MINOR

A minor in mathematics consists of:

6 courses. 23-24 credits

- MATH 121 Calculus I (4)
- MATH 122 Calculus II (4)
- MATH 221 Calculus III (4)

At least one course from:

- MATH 201 Discrete Mathematical Structures (4)
- MATH 204 Conjecture and Proof in Discrete Mathematics (3)
- MATH 241 Linear Algebra (4)

Two additional courses from:

- MATH 201 and above
- **Both** MATH 201 and 204 may be counted toward the minor only with departmental permission; at most, one of MATH 212, MATH 231, ECON 300, ECON 301 OR ECON 308 may be counted toward the minor

Advanced Placement in Mathematics

Calculus AB or BC. Students who attain BC scores of four, or AB scores or AB subscores of four or five, automatically receive 4 credits for MATH 121. Students with a BC score of five receive 4 credits for MATH 121 and 4 credits for MATH 122.

Statistics. Students who attain scores of four or five receive 4 credits for MATH 111.

Departmental Honors

A departmental honors program is available for exceptionally able and motivated students. Admission to the program may come by departmental invitation or, should students initiate their own applications, by affirmative vote of the mathematics faculty. Interested students should consult during their junior year with a mathematics faculty member for information about procedures and requirements.

Course Descriptions (MATH)

Unless otherwise indicated, all courses in the department are offered for either a numerical grade or evaluation with the permission of the instructor. To meet a course prerequisite, a minimum grade of 1.7 must have been earned in the prerequisite course.

Placement in mathematics courses through MATH 121 is determined by a placement examination given at the beginning of each semester. Placement in a course with prerequisites does not constitute a course challenge to any of the prerequisite courses.

100 Mathematics for the Liberal Arts.**Fall (4), Spring (4).**

Selections from both historical and current topics in mathematics are included in this general interest course. Topics may include number theory, graph theory, logic, sets, geometry, sequences, large numbers, counting problems, algorithms, functions, and relations. Prerequisite: placement from the Mathematics Placement Exam or by permission.

101 Finite Mathematics. Fall (4), Spring (4).

Introduction to modern ideas in finite mathematics. Topics may include probability, logic, combinatorics, functions, matrix algebra, linear programming, and graph theory. MATH 101 is not a prerequisite to calculus. Prerequisite: placement from Mathematics Placement Exam or by permission. Those wishing to continue in mathematics must repeat the Mathematics Placement Exam.

102 Explorations in Mathematics for Prospective Educators. Spring (4).

Topics include structure of mathematical systems, elementary number theory, operations in the real number system, and elementary problem solving. Review of arithmetic, algebraic, and geometric topics to reinforce existing knowledge. Introduction to methods and tools currently recommended for use by K-8 educators. An 80-minute lab experience is required weekly. Prerequisite: MATH 101 or by permission. Not recommended for first-year students.

107 Math of Origami. May Term (3).

Introduction to mathematical analysis of paper folding. Topics include geometric analysis of designs, constructing and analyzing polygons and polyhedra, Euler's formula for polyhedra, three and four colorability criteria, Hamilton cycles, and theorems about when an origami crease pattern will fold flat. Prerequisite: completion of Mathematics Placement Exam at Math 100 or 101 level or higher, or by permission.

111 Elementary Statistics and Probability with Applications.**Fall (4), Spring (4).**

Descriptive and inferential statistics for students from diverse fields. Distribution, correlation, probability, hypothesis testing, use of tables, and examination of the misuse of statistics and relation of statistics to vital aspects of life. Computer packages used as tools throughout the course.

115 Mathematics Through Its History.**Fall (3), Spring (3), May Term (3).**

Introduction to the history of mathematics, especially elementary mathematics. Topics include early uses of counting, number systems, arithmetic, fractions, geometry, algebra, probability, and infinite series in civilizations around the world. Prerequisite: completion of Mathematics Placement Exam at MATH 100 or 101 level. Offered as needed.

118-119 Integrated Calculus I / Integrated Calculus II. Fall (4), Spring (4).

For students whose programs require calculus but who, based on their background and placement examination scores, are not prepared for MATH 121. Topics from precalculus include properties of linear, rational, exponential, logarithmic, and trigonometric functions, and compositions, transformations, and inverses of these functions. Calculus topics include successive approximation and limits of functions, local linearity and differentiation, applications of differentiation to graphing and optimization, and the definite integral, antiderivatives, and differential equations. Prerequisite: placement from the Mathematics Placement Exam or by permission. NU only.

121 Calculus I. Fall (4), Spring (4).

Functions and their graphs, successive approximation and limits, local linearity and differentiation, applications of differentiation to graphing and optimization, the definite integral, antiderivatives, and differential equations. Prerequisite: permission based on Mathematics Placement Exam.

Mathematics

122 Calculus II. Fall (4), Spring (4).

Riemann sums and the definite integral; techniques of integration and application of integrals; introduction to differential equation; sequences and series. Prerequisite: MATH 121, or MATH 119, or by permission.

150 Techniques in Problem Solving. Fall (1).

Practice in the mathematical area of problem solving in preparation for the Putnam Examination. Material and problems chosen from prior Putnam Exams, Mathematics Olympiads and other sources, and from across mathematics, including basic strategies, combinatorics, geometry, induction, series, number theory, algebra, and calculus. Prerequisite: permission of the instructor. CN only.

160 Introductory Topics in Mathematics. Fall (4), Spring (4), May Term (3).

Introductory topics of current interest in mathematics not otherwise covered in the curriculum. Prerequisite: completion of Mathematics Placement Exam at MATH 100 or 101 level. Offered as needed. NU only.

201 Discrete Mathematical Structures. Fall (4).

Study of discrete mathematical topics important in both mathematics and computer science, including combinatorial techniques, sets and relations, algorithms, and graph theory. Prerequisite: MATH 122. Offered as needed.

204 Conjecture and Proof in Discrete Mathematics. May Term (3).

Introduction to the nature and structure of mathematics. Through active study and exploration of a selected area of discrete mathematics, students develop problem-solving skills, as well as skills in proving mathematical theorems. A different topic is selected each year based on student and faculty interest. Prerequisite: MATH 122 or by permission. May be repeated for up to 6 degree credits with departmental permission.

208 Game Theory. May Term (3).

Games are used to model competition in economics, politics, and conflict. The mathematical techniques used to analyze these games are explored. Topics include zero-sum

and nonzero-sum games, Nash equilibria, pure and mixed strategies, and cooperative games. Combinatorial games are also considered. Offered in alternate years with ECON 302.

212 Mathematical Consulting. Fall (2–4), Spring (2–4).

Application of mathematical techniques to real-world problems. Groups of students act as consultants on problems solicited from university departments, local businesses, and/or charitable organizations. Additional material may be included as needed. Prerequisite: BUS 220, or ECON 200, or MATH 111, or PSYC 250, or by permission. May be repeated for degree credit, but at most 4 credits may be applied toward the math major or minor. EV only. Offered as needed.

221 Calculus III. Fall (4), Spring (4).

Topics in multivariable calculus related to differentiation and integration. Sequences, series, and Taylor approximations. Prerequisite: MATH 122 or by permission.

222 Calculus IV, Vector Calculus. May Term (3).

Investigation of vector calculus, with an emphasis on applications in physics. Parametrized curves and surfaces; vector fields; line integrals and Green's Theorem; flux integrals; divergence and curl; the Divergence Theorem and Stokes's Theorem. Prerequisite: MATH 221. Offered as needed.

231 Introduction to Modeling. Fall (4), Spring (4).

Investigation of the process of modeling. Special emphasis placed on how to build, test, and refine models; how to analyze assumptions and results; and defining model limitations. Deterministic and stochastic models, rate equations and population dynamics, and statistical analysis. Final project tied to outside interests. Prerequisite: MATH 121 or MATH 119 or by permission. Cross-listed with EVST.

235 Differential Equations. Spring (4).

Differential equations theory and applications. First-order linear and nonlinear differential equations with analytic and numerical techniques. Higher-order linear differential

equations and complex algebra. Phase trajectory and stability analysis. Systems of linear differential equations with constant coefficients. Matrix methods, Gauss-Jordan, and iterative techniques. Prerequisite: MATH 221.

241 Linear Algebra. Spring (4).

Study of vector spaces. Topics include systems of linear equations, matrices, the geometry of vectors, vector spaces, linear transformations, eigenvalues and eigenvectors, determinants, and selected applications. Prerequisite: MATH 122. MATH 201 or 204, and 221 are strongly recommended.

245 Number Theory/History of Mathematics. Spring (4).

Study in two related areas: number theory and history of mathematics. Number theory topics include primes, Diophantine equations, congruences, number theoretic functions, modern applications, and unsolved problems of number theory. Readings include both primary and secondary historical sources. Prerequisite: MATH 201 or 204. MATH 241 strongly recommended. Offered in alternate years.

251 College Geometry. Fall (4).

A modern approach to classical geometries such as Euclidean, non-Euclidean, and projective. Sets, logic, and synthetic and analytic proof techniques in geometry are studied. Prerequisite: MATH 201 or 204. MATH 241 strongly recommended. Offered in alternate years.

260, 360, 460 Topics in Mathematics.

Fall (4), Spring (4).

A group of students pursue topics in mathematics not otherwise covered in the curriculum. Prerequisite: by permission. May be repeated for degree credit, but maximum of 8 credits allowed for the degree from 260, 360, and 460. Offered as needed.

311 Probability. Fall (4).

Introduction to the theory of probability with applications in management science and the physical and social sciences. Topics include combinatorial probability, densities, mathematical expectation, moment-generating functions, and the central limit theorem. Prerequisite: MATH 221.

312 Mathematical Statistics. Spring (4).

Principles of statistical decision theory. Estimation and hypothesis testing, regression, parametric and non-parametric tests. Mathematical theory and applications of above. Prerequisite: MATH 311 or by permission. Offered in alternate years.

321 Real Analysis. Fall (4).

Rigorous approach to the concepts underlying the calculus, building on the fundamental idea of the limit within the real number system. Topics include metric spaces, continuity, the derivative, the Riemann integral, and series of constants and functions. Prerequisites: MATH 201 or 204, 221 and 241 and junior standing or by permission.

325 Complex Analysis. Spring (4).

Analytic functions and their properties, including contour integrals, residues, transforms, and conformal mappings. Prerequisite: MATH 321. Offered in alternate years.

331 Numerical Analysis.

Fall (4) or Spring (4).

The theory and application of numerical methods for solving mathematical problems. Topics include numerical methods for solving algebraic equations and ordinary differential equations, interpolation and approximation, and numerical integration. Prerequisite: MATH 235 or MATH 241. Offered in alternate years.

335 Advanced Modeling Techniques.

Spring (4).

Techniques for mathematical modeling of continuous, discrete, and stochastic systems are presented. Topics include purpose and validation, continuous systems, random numbers and variables, and discrete systems. Prerequisite: MATH 235; MATH 311 recommended. Offered as needed.

338 Partial Differential Equations. Fall (4).

Partial Differential Equations theory and applications. We will explore solution methods for parabolic, hyperbolic, and elliptic equations. Topics include separation of variables, transforming nonhomogeneous equations, Eigenfunction expansions, Integral Sine and Cosine transformations, Fourier and Laplace

Mathematics

Transforms, the Method of Characteristics, and an introduction to Green's Functions. Prerequisite: Math 235. Offered as needed.

341 Abstract Algebra. Fall (4).

Study of significant algebraic structures and their properties, with particular attention given to groups, rings, and fields. Prerequisites: MATH 201 or 204, and 241 and junior standing or by permission.

355 Point Set Topology. Spring (4).

Metric spaces, topological spaces, continuous mappings and homeomorphisms, connectedness, and compactness. Prerequisite: MATH 321. Offered every third year.

459 Senior Research Seminar. Spring (4).

Selected topics are assigned for individual students to research and present to mathematics majors and faculty. A paper is submitted prior to presentation of the topic. Prerequisite: senior standing.

THE DEAN

Andrew Glendening

THE FACULTY

Nicholle Andrews

Katherine Baber

Katherine Hickey

Louanne Fuchs Long

Daniel Murphy

Co Nguyen

Marco Schindelmann

David Scott

Jeanne Skrocki

Eddie R. Smith

Anthony Suter

Melissa Tosh

Lara Urrutia

Music Courses for Non-Music Majors

Any University student may participate in musical activities through enrollment (usually by audition) in the University Choir, Chapel Singers, Madrigal Singers, Wind Ensemble, Studio Jazz Band, Orchestra, Symphonic Band, Opera Workshop, and a variety of chamber music ensembles. Students are invited to register for private, group, or class lessons, available on all instruments and for voice.

The following courses have been designed with the general University student in mind:

Note: MUSI indicates performance courses.

- MUS 113 Sound Recording
- MUS 100 Experiencing Music
- MUS 130 Jazz History
- MUS 231 Jazz History to the 1940s
- MUS 232 Jazz History 1940s to Present
- MUS 300, 301 Music History and Literature
- MUS 307 World Music
- MUSI 111 University Choir
- MUSI 112 Chapel Singers
- MUSI 114 Madrigal Singers
- MUSI 121 Class Piano
- MUSI 123 Class Classical Guitar

- MUSI 124 Introduction to Voice
- MUSI 125 Class Popular Guitar
- MUSI 131 UR Symphony Orchestra
- MUSI 136 Studio Jazz Band
- MUSI 138 Wind Ensemble
- MUSI 140 Symphonic Band

Additional requirements and information are listed in the School of Music Student Handbook which can be obtained from the Music Office.

Students are invited to enroll in any other music courses of interest, provided they meet the prerequisites.

THE UNDERGRADUATE PROGRAM

The University of Redlands School of Music is an accredited institutional member of the National Association of Schools of Music, and its requirements for entrance and graduation comply with the standards of this accrediting organization.

Learning outcomes for these programs may be found at:

www.redlands.edu/academics/school-of-music/9483.aspx.

THE BACHELOR OF MUSIC

The professional bachelor of music degree is offered in performance, composition, and music education. The performance major is available in voice, piano, organ, violin, viola, cello, double bass, classical guitar, jazz/studio guitar, harp, flute, oboe, clarinet, bassoon, saxophone, horn, trumpet, trombone/euphonium, tuba, and percussion.

Entrance Requirements

Applicants for all bachelor of music degrees must pass an entrance audition. This audition may be performed before entering the University as part of the admissions process, or while the student is in residence, preferably no later than the end of the second semester of full-time study. Students in residence, or living within 200 miles of Redlands, are expected to audition in person; others may submit a good-quality audio or videotape recording or CD. Whether executed in person or on tape or CD, the audition should last

Music

no more than fifteen minutes. Although no specific repertory is demanded, the audition material should demonstrate the applicant's musical and technical ability and should, if possible, be drawn from two or more historical or style periods. Prospective composition majors should submit copies of one or two recent scores, and tapes when available, directly to the School of Music as part of the application process, in addition to an audition in a specialized performance area.

All University of Redlands students may enroll in music courses, provided they meet the prerequisites. However, only students who have been approved by the music faculty through the above-described process will be certified to receive the bachelor of music degree.

Entering Vocal Proficiency Levels

Vocalists who are applying for admission and applied lessons have generally had two or more years of private vocal study and previous solo experience. They can demonstrate some proficiency in sight-singing, possess a relatively mature vocal quality, and have a basic knowledge of appropriate vocal literature. As a result of the entering vocal auditions, students will be placed in one of the levels: Voice Class, Minor in Voice, B.A. in Voice, or B.M. (Conditional) in Voice. Students enrolling in the Johnston Program as vocal majors must also audition for placement.

Advanced Placement in Music

Music Theory: Students who earn a score of five on the Advanced Placement Test receive 2 credits for MUS 101 Theory I. For all other students who wish to apply for advanced standing in theory, a placement examination is given during New Student Week.

Music Listening and Literature: Those who earn a score of four or five on the Advanced Placement Test are encouraged to take the Music History Placement Examination given during New Student Week.

Graduation Requirements for the Bachelor of Music

General Education Requirements for the Bachelor of Music

All bachelor of music majors must complete at least 30 credits outside of music. Each student in the bachelor of music degree must enroll in courses outside the School of Music that will provide a broad education in the spirit of the Liberal Arts Foundation. These credits must satisfy the following general requirements and Liberal Arts Foundation requirements.

- **First-year Seminar**—4 credits
- **Writing Across the Curriculum**—0–8 credits
Freshman year, Junior or Senior year
- **Community Service Activity**—3 credits
A public service activity carried out during May Term.

Liberal Arts Foundation (LAF) Requirements

Each bachelor of music major must successfully complete courses outside of music in at least four of the following Liberal Arts Foundation categories.

For detailed information about each category, see the Liberal Arts Foundation descriptions in the Arts and Sciences Graduation Requirements section of this Catalog.

- Cross-Cultural Studies (CC)
- Dominance and Difference (DD)
- Foreign Language (FL) (at the second-semester college level or higher)
- Human Behavior (HB)
- Humanities Literature (HL)
OR Humanities Philosophy (HP)
- Mathematics and Science (MS)
- State and Economy (SE)

The remaining non-music courses needed to bring the total to 30 credits may be chosen from any department.

Double-Degree Program: Bachelor of Music and Bachelor of Arts or Bachelor of Science

The double-degree program is a five-year course of study where students can pursue pre-professional studies in music as well as a liberal arts degree within the College of Arts and Sciences. Upon completing the program, students are awarded both the Bachelor of Music and a Bachelor of Arts or Bachelor of Science degree.

Admission Requirements

Students must be accepted for study in the College of Arts and Sciences and in the School of Music's Bachelor of Music program. Students may not select the Bachelor of Arts in Music and Bachelor of Music as their double-degree program. The second degree must be in a different discipline.

Coursework

- A minimum of 158 hours is required for graduation.
- Completion of all requirements for the major in each degree program.
- Fulfillment of all of the requirements for the Liberal Arts Foundation as specified for the Bachelors of Arts or the Bachelor of Science degree.

Declaration of Double-degree and Fifth- year Eligibility

Students need to declare their double-degree majors before the end of the fifth semester. In order to be eligible for the fifth year, students must show the completion of sufficient coursework to justify timely completion of both degrees.

Advising

Completing the double-degree program requires careful planning. Students are required to have advisors in each major field and to meet regularly with their advisors to maintain a five-year plan of study.

Disclaimer on Financial Aid

Students should be aware of the financial aid implications of this course of study. External funding by federal sources may be subject to eligibility requirements, which may preclude

support for a fifth year of study. Funding from the State of California is not available for the fifth year. Consult with the office of Financial Aid before pursuing the double-degree program.

Basic Music Courses (all majors)

Students experiencing class conflicts necessitated by other courses taken to fulfill degree requirements are directed to the School of Music office to receive advice regarding an alternate section to accommodate their needs.

- MUS 110 Recital Repertory Class (0) - each semester in residence
- MUSI 121 Class Piano (1) (at least three semesters, unless specific proficiency has been met) *Note: Music education majors with an emphasis in keyboard/vocal or keyboard/band are exempt from the requirement for MUSI 121.*
- MUS 101 Theory I (2)
- MUS 102 Theory II (2)
- MUS 103 Theory III (2)
- MUS 104 Theory IV (2)
- MUS 105 Ear Training and Sight-Singing I (2)
- MUS 106 Ear Training and Sight-Singing II (2)
- MUS 107 Ear Training and Sight-Singing III (2)
- MUS 108 Ear Training and Sight-Singing IV (2)
- MUS 300 Music History and Literature from Antiquity to 1750 (4)
- MUS 301 Music History and Literature from 1750 to the Present (4)
- MUS 335 Intro to Conducting (2)

Elective Requirement

- 15-16 additional credits selected from music courses numbered above 100. Courses required for the student's specific degree may not count as electives.
- *One course must be outside the Western classical tradition.

Note: Composition majors need only complete 4 to 5 credits to satisfy this requirement. Music education majors are exempt from the elective requirement.

Music

THE MAJOR IN PERFORMANCE

The Major in Performance: Piano or Organ

Additional Music Courses

The following courses are required in addition to the Basic Music Courses.

- MUAP 302 or MUAP 305 Private Instruction in the Major Instrument—24 credits
- MUAP 304 and/or MUAP 306 Private Instruction—2 credits
- MUS 211 Accompanying—8 credits
- MUS 217 Piano Literature (Piano majors) (2)
- MUS 157 Organ History and Literature (2) (Organ majors)
- MUS 228 Pedagogy (2)
- MUS 229 Pedagogy Practicum (2)
- MUS 299* Upper Division Qualifying Examination (0)
- MUS 399 Junior Recital (0) (or production of a professional-level edited tape recording)
- MUS 498A Full Senior Recital (0)
- Appropriate conducted ensemble—4 credits

The Major in Performance: Voice

Additional Music Courses

The following courses are required in addition to the Basic Music Courses.

- MUAP 308 Private Instruction in Voice—24 credits
- MUS 224 German and Italian Vocal Literature and Diction (2)
- MUSI 110 Opera Workshop—4 credits
- MUS 228 Pedagogy (2)
- MUS 225 English and French Vocal Literature and Diction (2)
- MUS 229 Pedagogy Practicum (2)
- MUS 299* Upper Division Qualifying Examination (0)
- MUS 399 Junior Recital (0) (or production of a professional-level edited tape recording)

- MUS 498A Full Senior Recital (0)
- Appropriate conducted ensemble—8 credits

The Major in Performance: Violin, Viola, Cello, Double Bass, or Harp

Additional Music Courses

The following courses are required in addition to the Basic Music Courses.

- MUAP 300–399 Private Instruction on the Major Instrument—24 credits
- MUS 228 Pedagogy (2)
- MUS 229 Pedagogy Practicum (2)
- MUS 259 Literature of the Major (0)
- MUS 299* Upper Division Qualifying Examination (0)
- MUS 399 Junior Recital (0) (or production of a professional-level edited tape recording)
- MUS 498A Full Senior Recital (0)
- Appropriate conducted ensemble—8 credits
- Chamber Ensemble—4 credits

Note: Violin majors must also complete 2 credits of private study in viola. Viola majors must also complete 2 credits of private study in violin.

The Major in Performance: Guitar

Additional Music Courses

The following courses are required in addition to the Basic Music Courses.

- MUAP 300–399 Private Instruction in Guitar—24 credits
- Note: Students must take a minimum of 8 credits of MUAP 328 Classical Guitar and 8 credits of MUAP 330 Studio/Jazz Guitar.*
- MUS 228 Pedagogy (2)
 - MUS 229 Pedagogy Practicum (2)
 - MUS 259 Literature of the Major (0)
 - MUS 299* Upper Division Qualifying Examination (0)
 - MUS 399 Junior Recital (0) (or production of a professional-level edited tape recording)

- MUS 498A Full Senior Recital (0)
- Appropriate conducted ensemble—4 credits
- Guitar Ensemble—8 credits

The Major in Performance: Wind Instrument or Percussion

Additional Music Courses

The following courses are required in addition to the Basic Music Courses.

- MUAP 300–399 Private Instruction on the Major Instrument—24 credits

Note: Percussion majors must take a minimum of 8 credits of MUAP 322 Classical Percussion and a minimum of 8 credits of MUAP 324 Jazz Percussion.

- MUS 228 Pedagogy (2)
- MUS 229 Pedagogy Practicum (2)
- MUS 259 Literature of the Major (0)
- MUS 299* Upper Division Qualifying Examination (0)
- MUS 399 Junior Recital (0) (or production of a professional-level edited tape recording)
- MUS 498A Full Senior Recital (0)
- Appropriate conducted ensemble—8 credits
- Chamber Ensemble—4 credits

The Major in Composition

Composition majors are encouraged to develop increasing competency in keyboard instruments through regular study in piano and/or organ.

Additional Music Courses

The following courses are required in addition to the Basic Music Courses.

- MUS 438 Composition—12 credits
- MUAP 300–399 Private Instruction on the Major Instrument or Voice—8 credits
- MUSI 124 Introduction to Voice (1)
- MUS 299* Upper Division Qualifying Examination (0)
- MUS 354 Counterpoint (4)
- MUS 356 Orchestration (2)—4 credits
- MUS 399A Junior Recital (0)
- MUS 402 Twentieth Century Music (4)

- MUS 498A Full Senior Recital (0)
- Appropriate conducted ensemble—8 credits
- Chamber Ensemble—4 credits

The Major in Music Education

Additional Music Courses

The following courses are required in addition to the Basic Music Courses.

- MUAP 300–399 Private Instruction in the Major Instrument or Voice—14 credits
- MUS 151 String Instrument Techniques (2)
- MUS 133 Woodwind Instrument Techniques (2)
- MUS 134 Brass Instrument Techniques (2)
- MUS 131 Percussion Instrument Techniques (2)
- MUS 299* Upper Division Qualifying Examination (0)
- MUS 307 World Music (3)
- MUS 339 Music in the Elementary School (3)
- MUS 356 Orchestration—2 credits
- MUS 323 Choral Music at the Pre-College Level (4)
- MUS 312 Instrumental Music at the Pre-College Level (4)
- MUS 399 Junior Recital (0)
- MUS 498B Half Senior Recital (a minimum of 2 credits of private instruction)
- Appropriate conducted ensemble—7 credits
- Chamber Ensemble—2 credits

Additional Courses for the Music Education Major (Vocal Track)

- MUS 211 Accompanying (keyboard majors) (1)
- MUS 224 German and Italian Vocal Literature and Diction (2)
- MUS 225 English and French Vocal Literature and Diction (2)
- MUS 436 Advanced Choral Conducting

Music

Additional Courses for the Music Education Major (Instrumental Track)

- MUS 141 Marching Band Techniques
- MUS 211 Accompanying—2 credits (keyboard majors)
- MUS 437 Advanced Instrumental Conducting
- MUSI 124 Introduction to Voice

*For more information regarding MUS-299 Upper Division Qualifying Examination, see p. 213.

Single Subject Teaching Credential

Students interested in teaching music at the elementary and/or secondary level need to complete a Single Subject Preliminary Teacher Credential Program in addition to finishing their baccalaureate degree. The courses taken in the Music Education major satisfy the Single Subject Content Competency requirement for the Preliminary Teacher Credential; students who have not taken the Music Education major must pass the PRAXIS, SSAT, or CSET standardized examination for music to demonstrate content competency.

Students should consult with the music education advisor about their major and degree requirements. Students also need to contact the School of Education's faculty advisor for undergraduate students to discuss information about undergraduate and post-baccalaureate teacher credential programs. Please refer to the School of Education section of this *Catalog* for further information about the Preliminary Single-Subject Teacher Credential.

THE BACHELOR OF ARTS

Students enrolled in the bachelor of arts with a major in music must satisfy the Liberal Arts Foundation requirements as listed in the College of Arts and Sciences Graduation Requirements section of this *Catalog*.

The Bachelor of Arts in Music

46 credits in music required

- MUS 110 Recital-Repertory Class (each semester in residence)

Note: Students experiencing class conflicts necessitated by other courses taken to fulfill degree requirements

are directed to the School of Music office to receive advice regarding an alternate section to accommodate their needs.

- MUSI 121 Class Piano

Note: Three semesters of MUSI 121 are required, which may be waived upon completion of the minimum proficiency in basic keyboard for the specific degree track; a maximum of 3 credits count toward graduation.

- MUS 101 Theory I
- MUS 102 Theory II
- MUS 103 Theory III
- MUS 105 Ear Training and Sight-Singing I
- MUS 106 Ear Training and Sight-Singing II
- MUS 107 Ear Training and Sight-Singing III
- MUS 300 Music History and Literature from Antiquity to 1750
- MUS 301 Music History and Literature from 1750 to the Present
- MUAP 302–338 Private Instruction on a Single Instrument or in Voice—8 credits
- Appropriate conducted ensemble—6 credits
- Chamber Ensemble—2 credits
- Music Electives—8 credits

*One course must be outside the Western classical tradition.

The student must also complete a 0–2 credit senior project, approved by the advisor, drawing together the strands of the program of study. With the approval of the advisor, the student may substitute a half senior recital for the senior project. This recital is subject to all of the rules and regulations governing a required senior recital.

THE MINOR IN MUSIC

The music minor is designed to encourage the development of competence in a specific area of music. It is intended for those students who are majoring in an area outside of music, but who may have been actively involved in musical activities in high school, have musical talent, enjoy listening to and/or performing music, or simply wish to continue their musical studies. The minor is offered in four areas:

1. Minor in Jazz Studies
2. Minor in Instrumental or Vocal Music

3. Minor in Music History**4. Interdisciplinary Minor**

Students wishing to pursue the minor in music must complete an entrance examination demonstrating the ability to read both musical pitch and rhythm.

Prospective minors must complete the Declaration of Major/Minor form as soon as possible in order to avoid music fees; approval of the Dean of the School of Music is also required. Students are encouraged to seek out a music faculty member to serve as a minor advisor. Other than MUS 110, Recital Repertory Class, and MUSI 124, Introduction to Voice, no course for the minor may be taken for credit/no credit (CN). A minor in one of the above four areas may not be combined with a major in music.

Students **must** declare their desire to minor in music prior to the beginning of their junior year. Contact the Director of Music Admissions for assistance at music@redlands.edu or (909) 748-8014.

Requirements for the Minor Programs**Minor in Jazz Studies**

The Minor in Jazz Studies is designed for students with previous jazz performance experience seeking to expand their knowledge and skills and includes courses in applied jazz improvisation and history, as well as private lessons and ensembles. A performance audition demonstrating the ability to read both musical pitch and rhythm is required of applicants to this program.

To schedule an audition or for further information, contact the Director of Music Admissions at music@redlands.edu or (909) 748-8014.

Required courses:

7 courses 22 credits

- MUS 213 Jazz Improvisation I (2)
- MUS 214 Jazz Improvisation II (2)
- MUS 231 Jazz History to the 1940s (4)
- MUS 232 Jazz History 1940s to Present (4)
- MUSI 135 Jazz Improvisation Ensemble (6)

- MUSI 136 Studio Jazz Band (where appropriate) (2)
- MUAP 331 Jazz Improvisation and/or applied lessons (6)

Minor in Instrumental or Vocal Music

This minor is for students seeking to improve their facility on an instrument or voice. A performance audition is required of applicants to this program. Admission is primarily based on classical performance ability. To minor in an instrument or voice, a student must have had lessons previously and demonstrate a sufficient proficiency level. Two elections from the standard repertoire of their primary instrument or voice should be prepared for the audition. To schedule an audition or for further information, contact the Director of Music Admissions in the School of Music at music@redlands.edu or (909) 748-8014.

Required courses:

7 or more courses 22 credits

- MUS 116 Musicianship Skills (2)
- MUS 117 Musicianship Skills II (2)
- MUS 234 Musical Cultures (4)
- Major Conducted Ensemble (4)
- Applied Music (MUAP 100-level) (4-6)*
- Music Electives (4-6)**
- MUS 110 Recital Repertory—4 semesters (0)

* *Students wishing to pursue the Minor in Vocal Music should enroll in a minimum of 4 semesters of MUSI 124: Introduction to Voice. This course may be repeated for additional credits. Singers may also audition for applied lessons, which will be offered if Vocal Proficiency Guidelines are met (see heading, above), and if studio openings exist.*

** *The Liberal Studies Major seeking a multiple-subject credential should take MUS 118: Music for the Classroom Teacher, as an elective.*

Minor in Music History

No performance requirement.

Required courses:

7 courses 22 credits

- MUS 101 Music Theory I (2)
- MUS 102 Music Theory II (2)
- MUS 103 Music Theory III (2)
- MUS 300 Music History (4)

Music

- MUS 301 Music History (4)*
- Electives in Music History (8)

*MUS 101 and 102 are prerequisites for MUS 301.

Interdisciplinary Minor

Students may construct an interdisciplinary minor under the aegis of an existing department or program such as the School of Music. This minor must satisfy the following conditions:

1. It must meet University-wide standards as published in this *Catalog*;
2. It must be designed in conjunction with a faculty advisor; and
3. A committee of faculty representatives from all disciplines involved must be convened to approve the student's proposal.

Basic Required Music Courses:

- MUS 116 Musicianship Skills (2)
- MUS 117 Musicianship Skills II (2)
- MUS 234 Musical Cultures (4)

Minor Requirements 24 credits

- MUS 101 Theory I (2)
- MUS 105 Ear Training (2)
- MUS 300 Music History and Literature from Antiquity to 1750 (4) OR MUS 234 Musical Cultures (4) OR MUS 301 Music History and Literature from 1750 to the Present (4)
- MUS 307 World Music (3)
- MUSI 124 Introduction to Voice (1-4 credits)
- MUAP 121 Class Piano (1-3 credits)
OR MUAP 123 Class Classical Guitar (1-3 credits)
- Elective (2 credits) from courses in the category MUS
- Applied Instruction Courses (MUAP) (4-8 credits)
- Major conducted ensembles (MUSI) (4 semesters)

Talent Awards

Talent Awards enable the School of Music to assist outstanding undergraduate applicants who demonstrate—through personal or taped audition, or by other evidence—excellence in preparation, as well as potential for unusual growth in music performance

or other specialty areas. Scholarships are automatically renewed each year (up to a maximum of four years) if the student maintains a sound academic record and meets all other University scholarship criteria. Applications are available from the Assistant Director of Music Admissions.

In addition to meeting general University requirements for scholarship holders, recipients of talent awards and other School of Music scholarships are required to participate in the appropriate conducted ensemble each semester, to complete at least one credit of private instruction each semester on the major instrument or voice, or accompany selected ensembles and soloists (if the major instrument is piano or organ), to maintain a cumulative grade point average of 3.0 or higher, and to perform as soloists or ensemble musicians on special occasions as requested by the Dean of the School of Music.

Performance

Music majors and other qualified University students registered for private lessons may participate in solo and chamber music recitals and concerts as often as they and their private teachers deem desirable.

All students taking private lessons are required to appear in regularly scheduled performance classes. Such students are expected to perform in recital as often as the private instructor requires.

Subject to audition, full-time music majors are required to register and participate in an appropriate conducted ensemble each semester in residence. The ensemble assignment is made according to the student's primary or secondary performance area.

Appropriate ensembles include:

- Wind or percussion: Wind Ensemble, Symphonic Band, and/or Orchestra
- Strings: Orchestra
- Singers: University Choir, Chapel Singers and/or Madrigal Singers
- Harp, guitar and keyboard majors either play parts in conducted ensembles or perform in a secondary area.

Performance in off-campus organizations and ensembles is permitted as long as such participation does not conflict with scheduled rehearsals or performances of University organizations or ensembles. Music majors must perform in appropriate conducted ensembles when the Dean of the School of Music for a specific concert or event requests their participation.

Music majors whose work has resulted in outstanding scholarship and performance are eligible during their junior or senior year for election to membership in Pi Kappa Lambda, the national music honorary society. Students become eligible for membership during the junior year. The School of Music also has active chapters of Phi Mu Alpha Sinfonia, the national professional music fraternity, and Sigma Alpha Iota, the national professional music sorority.

Departmental Honors

A departmental honors program is available for exceptionally able and motivated students. After consultation with a faculty advisor, interested students should initiate their own applications by submitting a written proposal to the Dean of the School of Music in the last semester of the junior year. Approval is determined by an affirmative vote of the music faculty. Projects may include public performances or lecture presentations and are normally accompanied by extensive research culminating in a formal paper. Students are evaluated by a committee of two full-time music faculty chosen by the student, as well as the Dean of the School of Music, in a final one-hour oral examination. Students may choose an additional examiner from outside the School of Music. Projects normally will not require additional coursework other than that required for graduation. Applicants must have a minimum grade point average of 3.50. Also see the Graduation with Honors section of the Awards and Honors chapter of this *Catalog*.

Study Abroad

The University offers a variety of study abroad opportunities for music majors as part of the Salzburg Semester offerings. (See more detailed information in the Study Abroad section of

this *Catalog*.) The IES Program in Vienna has also proved to be popular for those who are proficient in German. The decision to study abroad must be made early on in a student's course of study and with the assistance of his or her faculty advisor. Failure to work out a course of study carefully may result in the necessity of taking a ninth semester in order to graduate. In some cases, it might be impossible to construct an eight-semester program—particularly if the student is enrolled in the B.M. in Music Education. Indeed, the School of Music cannot guarantee an eight-semester course of study to anyone who elects to take part in a Study Abroad program.

Course Descriptions (DNCE)

122 Ballet. Fall (3).

Study and practice of the technique and discipline of ballet. Beginning to advanced levels. No previous formal training required. May be repeated for degree credit for a maximum of 12 credits.

125 Modern Dance. Spring (3).

Introduction to the basic fundamentals of modern dance technique and style through the development of muscular strength, coordination, balance, body alignment, endurance, flexibility, and rhythm.

Course Descriptions (MUS)

100 Experiencing Music.

Fall (4), Spring (4).

Exploration of sound—its sources, effects, and organization—with emphasis on direct involvement through listening. Music of major styles and periods is introduced with emphasis on Western music. Students develop and become familiar with music technology. NU and CN only.

101 Theory I. Fall (2).

An introduction to Western tonal harmony, beginning with the fundamental elements of pitch and rhythm: scales, key signature, intervals and their inversions, note values and time signatures. Other topics include triads and their inversions, harmonic progression, and principles of part writing. Usually taken concurrently with MUS 105. NU only.

Music

102 Theory II. Spring (2).

Further study of harmonic progression, figured bass and part writing. Introduction of diatonic seventh chords and their inversions, non-chord tones, and elements of form, including cadences, phrases, and periods. Prerequisite: MUS 101. Usually taken concurrently with MUS 106. NU only.

103 Theory III. Fall (2).

Further study of figured bass and part writing, using all diatonic chords, in root position and inversion, and non-chord tones. Harmonic analysis. Introduction of chromatic elements, including secondary functions and modulation. Prerequisite: MUS 102. Usually taken concurrently with MUS 107. NU only.

104 Theory IV. Spring (2).

Advanced part writing and harmonic analysis. Further study of chromatic elements, including mode mixture, the Neapolitan chord, augmented sixth chords, and enharmonic spellings and modulations. Study and analysis of binary and ternary forms. Prerequisite: MUS 103. Usually taken concurrently with MUS 108. NU only.

105 Ear Training and Sight-Singing I.

Fall (2).

Introduction to melodic and rhythmic sight reading, melodic and rhythmic dictation, recognition of intervals and triad quality. Usually taken concurrently with MUS 101.

106 Ear Training and Sight-Singing II.

Spring (2).

Continuation of melodic and rhythmic sight reading, melodic dictation, and interval recognition. Chord quality recognition, including seventh chords and inversions. Beginning harmonic dictation. Prerequisite: MUS 101 or equivalent. Usually taken concurrently with MUS 102.

107 Ear Training and Sight-Singing III.

Fall (2).

Sight-singing of melodies containing nondiatonic pitches, sight reading of more complex rhythms. One- and two-part melodic dictation, including nondiatonic pitches. Continuation of interval and chord recognition and harmonic dictation. Prerequisite: MUS 102 or

equivalent. Usually taken concurrently with MUS 103.

108 Ear Training and Sight-Singing IV.

Spring (2).

Advanced melodic and rhythmic sight reading. Continuation of interval and chord recognition, and of one- and two-part melodic dictation. Harmonic dictation, including chromatic elements such as altered chords and modulation. Prerequisite: MUS 103 or equivalent. Usually taken concurrently with MUS 104.

110 Recital-Repertory Class.

Fall (0), Spring (0).

Required of all music majors; open to others. CN only.

113 Sound Recording. Spring (2).

Introduction to sound recording techniques through theoretical studies and practical application. Topics included are: acoustics, microphone characteristics and placement, multi-channel mixing, and tape recording/editing methods. Students record soloists and small and major conducted ensemble performances in classical, jazz, and popular music idioms. Offered as needed.

116 Musicianship Skills. Fall (2).

117 Musicianship Skills II. Spring (2).

Designed for students to develop an understanding of the basic structures of music and a functional level of music literacy and keyboard ability over two semesters. Course is intended for students seeking a music minor degree and students interested in gaining a basic level of music literacy.

118 Music for the Classroom Teacher.

Spring (4).

Course for non-music majors intending to teach in the elementary classroom setting. Students learn basic music literacy skills while learning how to teach music to elementary-level students. Students will explore music learning theories, sequential curriculum in music, music materials, and teaching strategies in music. NU only. Prerequisites: MUS 116 and MUS 117.

130 Introduction to Jazz History.**Spring (4).**

History of jazz, including its origins, the musical characteristics of major styles, and the leadership during key periods. Emphasis on developing critical listening skills, the contributions of specific cultures and individuals, and understanding commercial, technological, political, and social influences on the evolution of styles. Designed for music majors and interested non-majors.

131 Percussion Instrument Techniques.**Fall (2).**

Introduction to the instruments of the percussion family with emphasis on practical experience in group and/or individual performance. Prerequisite: ability to read music. Offered in alternate years.

133 Woodwind Instrument Techniques.**Spring (2).**

Introduction to the flute, oboe, clarinet, bassoon, and saxophone with emphasis on practical experience in group and/or individual performance. Music education and composition majors are given priority for use of University-owned instruments. Prerequisite: ability to read music. Offered in alternate years.

134 Brass Instrument Techniques.**Spring (2).**

Introduction to the trumpet, horn, trombone, baritone, and tuba with emphasis on practical experience in group and/or individual performance. Music education and composition majors are given priority for use of University owned instruments. Prerequisite: ability to read music. Offered in alternate years.

141 Marching Band Techniques. Fall (2).

Study and experience in various charting procedures, including Step-two, Asymmetrical, Corps style, and computer charting. Developing effective rehearsal techniques, philosophical considerations, and arranging for a marching band. Offered in alternate years.

151 String Instrument Techniques.**Fall (2).**

Introduction to the violin, viola, cello, and double bass with emphasis on practical experience in group and/or individual performance.

Music education and composition majors are given priority for use of University-owned instruments. Prerequisite: ability to read music. Offered in alternate years.

157 Organ History and Literature.**Spring (2).**

Examination of the construction and repertoire of the pipe organ from its invention to the present day. Topics include iconography, mechanics, and acoustics, as well as cultural and societal interdependence. Open to non-organists. Offered as needed.

160 Special Studies.**Fall (1–3), Spring (1–3).**

Special topics offered as needed. May be repeated for degree credit given a different topic.

208 Computer Music. Fall (4), Spring (4).

Provides an introduction to electro-acoustic music through the study of electro-acoustic compositions, synthesis techniques and current computer applications. On completion, students should have a strong sense of the development of electro-acoustic music, a working knowledge of the supporting details (terminology, techniques, genres, composers, etc.) and an aural sense of different styles. Prerequisite: MUS 43 or by permission. NU only.

211 Accompanying. Fall (1), Spring (1).

Study of vocal coaching (opera and art song) and instrumental accompanying techniques. Practicing, rehearsing together, literature, transposition, and sight reading. Supervised practice sessions. Prerequisite: by permission. May be repeated for degree credit up to 8 credits.

213 Jazz Improvisation I. Fall (2).

Study of jazz nomenclature, performance strategies, and resources for improvisation. Emphasis on applied ear training and performance on the student's major instrument. Prerequisite: MUS 102, 106, or by permission.

214 Jazz Improvisation II. Spring (2).

Continuation of improvisation and performance strategies studied in Jazz Improvisation I. Emphasis on advanced ear training, performance on student's major instrument, and music transcription. Prerequisite: by permission. May be repeated for degree credit for up to 4 credits.

Music

217 Piano Literature. (2).

Literature for solo piano, chamber music with piano, and concertos written from the mid-18th century to the present. Music for harpsichord and clavichord prior to 1750 commonly performed on the piano also included. Stylistic, social, and cultural elements are explored. Extensive listening and examination of scores. Prerequisite: ability to read music. Offered as needed.

224 German and Italian Vocal Literature and Diction. Fall (2).

Exploration of literature for the voice in the German and Italian languages and correct diction for each language. Also includes learning and working with the International Phonetic Alphabet. NU only.

225 English and French Vocal Literature and Diction. Spring (2).

Exploration of literature for the voice in the English and French languages and correct diction for each language. Also includes learning and working with the International Phonetic Alphabet. NU only.

228 Pedagogy. Fall (2).

Principles and theories of pedagogy applied to the teaching of music. Prerequisites: MUS 101, 105. Open to majors or minors only.

229A Vocal Pedagogy Practicum.

229B Strings and Guitar Practicum.

229C Keyboard Practicum.

229D Pedagogy Practicum:

Wind and Percussion. Spring (2).

Supervised and observed studio teaching. University students teach two or more private students for an entire semester. One segment explores methods and materials appropriate for teaching each student's instrument or voice. NU only.

231 Jazz History to the 1940s. Fall (4).

The roots of jazz, early styles, contributions of key innovators, and the "meanings" of jazz. Topics include the origins and development of blues, ragtime, early jazz, and swing, as well as how American society and jazz both influenced and reflected new ways of understanding culture, race, creativity, individuality, cooperation, and community. Offered as needed.

232 Jazz History 1940s to the Present. Spring (4).

Post-swing era jazz styles, the musicians and the "meanings" of jazz. Focus on Bebop, Cool, Fusion, Latin, and Contemporary styles. Includes guided listening, key innovators, the relationship between mainstream America and jazz artists, and how technological innovations as well as racial, economic, political, and social issues shaped modern styles. Offered as needed. 258

233 American Music. Spring (4).

An introduction to American musical culture, including important composers, genres, and styles. Emphasis also on important conductors, performers, institutions, and technologies. Issues of identity, class, race, and ethnicity will be addressed in readings, discussions, and guided listening. Ability to read music preferred. For music majors and interested non-majors.

234 Musical Cultures. Fall (4).

An overview of the significant aspects of musical culture, focusing on the history of Western art music with reference to global musical traditions and vernacular music. Introduction to basic terminology and discourses of music history. Ability to read music required.

244 Church Music Seminar.

Fall (4), Spring (4).

Study of selected topics in church music with emphasis on practical applications in the field. Areas of study announced in the Schedule of Classes. Prerequisites: MUS 101, 105, or by permission. May be repeated once for degree credit. Offered as needed.

248 Jazz-Commercial Arranging.

Fall (4).

Students analyze the realization of melodic, harmonic, and rhythmic scoring of popular and semi-classical music in a variety of styles (e.g., jazz, Latin, rock, Dixie, etc.) for individual sections, combos, and major conducted ensembles, including string, winds, brass, percussion, and keyboards. Prerequisite: MUS 102 or by permission. Offered as needed.

259 Literature of the Major.**Fall (0), Spring (0).**

Satisfied by an examination given by the applied instructor during the final semester in residence covering the standard solo, ensemble, and technical literature of the instrument or voice. Students are expected to secure the appropriate literature list from their private teachers upon entry into the performance program. Prerequisite: performance majors only. CN only.

299 Upper Division Qualifying Examination. Spring (0).

Minimum of three credits of private instruction on the major instrument or voice must be taken concurrently. Prerequisite: sophomore standing. CN only.

300 Music History and Literature from Antiquity to 1750. Fall (4).

Comprehensive survey of the Western musical tradition from antiquity to the end of the Baroque period. Development of musical style studied through the achievements of great composers and the artistic, social, and cultural elements that were determining factors. Prerequisite: ability to read music desirable.

301 Music History and Literature from 1750 to the Present. Spring (4).

Survey of the Western musical tradition covering the periods from the Viennese classicism period through New Romanticism. Development of styles is studied using the works of the great composers from Sammartini through Adams. Artistic, social, and cultural elements of style also explored. Prerequisite: MUS 102.

307 World Music. May Term (3).

Study of the basic elements of music outside of the usual European tradition, including melody, rhythm, harmony, and form in the musics of the world. Emphasis on Latino, Asian, and African traditions. NU only.

312 Instrumental Music at the Pre-College Level. Fall (4).

Methods and materials for teaching instrumental music in K-12 schools, including concert and marching bands, orchestra, jazz and pop groups, social instruments, theory, and listening experiences. Prerequisite: MUS 335.

323 Choral Music at the Pre-College Level. Spring (4).

Methods and materials for teaching vocal music in K-12 schools including, chorus, vocal chamber ensembles, voice classes, recitals, stage productions, theory, and listening experiences. Prerequisite: MUS 335.

335 Introduction to Conducting. Fall (2).

Elements of the conductor's techniques, beat formation, and all rhythms; practice in choral and instrumental conducting. Baton techniques and score reading with practical application. Prerequisites: MUS 102, 106.

339 Music in the Elementary School. May Term (3).

Music education pedagogy and materials for Pre-K to grade 6. Units include philosophical, historical and psychological foundations of music education, lesson planning and assessment of music learning. Approaches of Orff, Dalcroze, Kodaly, and Gordon are examined and practiced in peer-teaching activities. Prerequisite: MUS 335 or by permission.

347 History of Opera. Fall (4).

This is a survey course examining the development of Lyric Theatre from its beginnings in the seventeenth century to the present day. Special focus will be on the aesthetic interplay and relationship between text and music and how it affected the composer's and singer's art throughout the history of Lyric Theatre. Prerequisite: Ability to read music preferred. Offered in alternate years.

354 Counterpoint. Fall (4), Spring (4).

Principles of melodic writing: two-, three-, and four-part counterpoint involving the use of imitation, augmentation, mirroring, and diminution. Prerequisites: MUS 103, 107. Offered as needed.

356 Orchestration. Spring (2).

Nature and potential of musical instruments. Arrangement and scoring for conventional groups (symphony orchestra, symphony band, marching band, principal chamber combinations), and for immediate practical instrumentation. Prerequisites: MUS 102, 106.

Music

360 Special Studies. Fall (2), Spring (2).

Special topics offered as needed. May be repeated for degree credit given a different topic. Prerequisites: MUS 300 and 301, or by permission. NU only.

399 Junior Recital (or Production of a Tape Recording). Fall (0), Spring (0).

A minimum of 3 credits of private instruction on the major instrument or voice must be taken concurrently. Recital must be 30 minutes in length. CN only.

402 Medieval and Renaissance Music Literature. Fall (4).

Detailed survey of music examples from 600 to 1600, with emphasis on the definition of style and how it is expressed by individual composers. Approaches include performance, analysis and research methods. Prerequisite: MUS 300. Offered in alternate years.

403 Baroque Music Literature. Fall (4).

Study of musical examples from 1600 to 1750, with emphasis on the definition of style and how it is expressed by individual composers. Approaches include performance, analysis, and research methods. Prerequisite: MUS 300. Offered in alternate years.

404 Classical Music Literature. May Term (3).

Survey of music written between 1750 and 1800, with emphasis on the definition of style and how it is expressed by individual composers. Approaches include performance, analysis, and research methods. Prerequisite: MUS 301. Offered in alternate years.

405 Romantic Music Literature. May Term (3).

Survey of music written between 1820 and 1900, with emphasis on the definition of style and how it is expressed by individual composers. Approaches include performance, analysis, and research methods. Prerequisite: MUS 301. Offered in alternate years.

406 Twentieth-Century Music Literature. Spring (4).

Examination and appreciation of the styles and major composers of the twentieth century. Detailed study of selected works. Prerequisite: MUS 301. Offered in alternate years.

436 Advanced Choral Conducting. Spring (4).

Introduction to the art of choral conducting. Prerequisites: MUS 101, MUS 105, MUS 335, and MUSI 124 or two semesters of MUSI 111. Offered in alternate years.

437 Advanced Instrumental Conducting. Spring (4).

Continuation and development of conducting techniques developed in MUS 335 or MUS 436. Application of these precepts to both choral and instrumental ensembles. Emphasis on preparing and conducting from full choral and orchestral scores. Prerequisite: MUS 335 or equivalent. NU only. Offered in alternate years.

438 Advanced Composition. Fall (2–4), Spring (2–4).

Weekly seminar and private study to encourage further exploration and development of an individual compositional style. Coursework will include specific composing assignments, listening reports, and the completion of a performance-ready score, as well as individual composing projects. Prerequisite: admission into the B.M. in Composition, or instructor's permission. May be repeated for degree credit for a maximum of 16 credits. NU only.

498A Full Senior Recital. Fall (0), Spring (0).

A minimum of 3 credits of private instruction on the major instrument or voice must be taken concurrently. Composition majors may present, during the senior year, well-rehearsed public presentations of three to four works (or equivalent) in lieu of a single recital. The Full Senior Recital must be one hour in length. CN only.

498B Half Senior Recital. Fall (0), Spring (0).

A minimum of 1 credit of private instruction on the major instrument or voice must be taken concurrently. The Half Senior Recital must be thirty minutes in length. CN only.

498C Senior Project. Fall (0–2), Spring (0–2).

CN only.

Performance Studies

Group Lessons. Group lessons on all instruments and in voice are available each semester, subject to a minimum enrollment of three students per group. Each group will meet at least one hour per week. Students must provide their own instruments, except for students enrolled in piano, organ, and harp. Most band and orchestra instruments may be rented for a nominal fee from local music stores. Students who register for Wind Ensemble, Symphonic Band or Orchestra may use University instruments at no charge, subject to their availability.

Private Lessons. Performance majors usually register for 3 credits each semester (one one-hour lesson per week). General University students usually register for 1 credit per semester (one 30-minute lesson per week). Private lessons begin during the second full week of classes.

Juries. Final examinations in performance are required of all students who take private instruction for evaluation or a grade. Students who do not demonstrate the required level of proficiency during the performance examination may be required to register for additional private instruction beyond the minimum number of credits required for the degree and major. All students who enroll in performance studies for a grade are required to attend a regularly scheduled performance class and participate in a major conducted ensemble during the semester of enrollment.

Chamber Music. All bachelor of music and bachelor of arts students who choose the recital option are required to perform chamber music during their degree recitals. Ensembles should be varied in size and nature. The pre-recital jury committee determines the appropriateness of the selected chamber works and approves them when the recital repertoire is approved.

Pre-recital Jury Examinations. Students presenting required recitals, students presenting a full or partial recital to fulfill the senior project requirement in the bachelor of arts program, and any other students recommended to do so by their private instructor must present a pre-recital jury examination.

In the semester prior to the scheduled recital, students must bring a list of their proposed recital repertory to the area jury for approval. Students studying abroad must present their proposed program to the performance studies chairman during the first week of the semester following the student's return. The pre-recital jury examination must be presented at least four weeks, and no sooner than eight weeks, before the scheduled recital date.

The pre-recital jury will consist of the private teacher and one or more additional faculty member(s) approved by the private teacher. At least one member of the pre-recital jury must be a full-time faculty member. At the examination, the student must be prepared to perform the entire recital at final performance level, including memorization, if required. All those who will participate in the recital must perform at the pre-recital examination. In the case of composition recitals, all scores and parts must be available for examination, and at least half of the works must be performed.

If the pre-recital jury examination is not approved, the student may not present the recital until a subsequent semester. Pre-recital jury examinations and all required recitals must take place when classes are in session during the regular academic year.

With the approvals of the private teacher, the performance studies chair, and the dean of the School of Music, the pre-recital jury examination may be waived for composition majors only.

Upper-division Qualifying Jury Examination. MUS 299.

Bachelor of music majors in performance, composition, and music education must pass the upper-division qualifying jury examination to register for private instruction as a junior or senior music major. These examinations will be scheduled at 15-minute intervals, and each student will be expected to perform for at least 12 minutes. Upper-division Qualifying Jury Examinations will normally be taken at the end of the Spring semester of the sophomore year. A student who fails the Upper-division Qualifying Jury Examination will be denied permission to continue in

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the current major. Music Education students must also show evidence of a 2.75 cumulative undergraduate GPA or approved petition by the end of their sophomore year in order to continue in the program.

APPLIED INSTRUCTION COURSES (MUAP)

Students wishing to study privately in piano, guitar, organ, or voice must complete the class instruction (MUSI) offered or demonstrate equivalent proficiency prior to registering for private lessons.

Music instruction for non-majors or majors on a secondary instrument (MUAP 100–199) is offered in the following areas. Consult the Schedule of Classes for current enrollment.

Group Instruction

101 Classical Piano	129 Jazz Guitar
103 Jazz Piano	131 Pop Guitar
107 Classical Voice	133 Electric Bass
123 Jazz Percussion	135 Classical Other
125 Harp	136 Jazz Other
127 Classical Guitar	137 Other

Private Instruction

102 Classical Piano	118 Horn
104 Jazz Piano	119 Trumpet
105 Organ	120 Trombone
106 Harpsichord	121 Tuba
108 Classical Voice	122 Classical Percussion
109 Violin	124 Jazz Percussion
110 Viola	126 Harp
111 Cello	128 Classical Guitar
112 Double Bass	130 Jazz Guitar
113 Flute	132 Pop Guitar
114 Oboe	134 Electric Bass
115 Clarinet	135 Classical Other
116 Bassoon	136 Jazz Other
117 Saxophone	137 Other

Private Instruction for Majors

(MUAP 300–399) is offered in the following categories:

302 Classical Piano	319 Trumpet
304 Jazz Piano	320 Trombone
305 Organ	321 Tuba
306 Harpsichord	322 Classical Percussion
308 Classical Voice	324 Jazz Percussion
309 Violin	326 Harp
310 Viola	328 Classical Guitar
311 Cello	330 Jazz Guitar
312 Double Bass	331 Jazz Improvisation
313 Flute	332 Pop Guitar
314 Oboe	334 Electric Bass
315 Clarinet	335 Classical Other
316 Bassoon	336 Jazz Other
317 Saxophone	337 Other
318 Horn	

Class Instruction

Class instruction is offered in the areas below. No student will be permitted more than two semesters of such instruction on any one instrument and must be a beginner in the subject unless there are sections at various levels. There must be at least five students enrolled for the class to be scheduled.

COURSE DESCRIPTIONS

Class Instruction (MUSI)

121 Class Piano. Fall (1), Spring (1).

Emphasis on basic piano technique and elementary music-reading skills. Includes harmony, accompanying, improvisation, and musical performance. Functional keyboard skills appropriate to each B.A. and B.M. major track. May be repeated for degree credit for a maximum of 3 credits, but must be repeated until basic competencies and skill levels are met.

123A Class Classical Guitar I.

Fall (1), Spring (1).

CN only.

123B Class Classical Guitar II.

Fall (1), Spring (1).

CN only.

124 Introduction to Voice.

Fall (1), Spring (1).

CN only.

125A Class Popular Guitar I.**Fall (1), Spring (1).**

CN only.

125B Class Popular Guitar II.**Fall (1), Spring (1).**

CN only.

125C Class Popular Guitar III.**Fall (1), Spring (1).**

CN only.

ENSEMBLES

The School of Music sponsors the following major ensembles. They are open to all University students, usually by audition.

University Choir (MUSI 111/611)

Chapel Singers (MUSI 112/612)

Madrigal Singers (MUSI 114/614)

Wind Ensemble (MUSI 138/638)

Symphonic Band (MUSI 140/640)

University of Redlands

Symphony Orchestra (MUSI 131/631)

Each of these ensembles meets from two to four hours weekly for rehearsals. Performances will vary from two per semester to as many as ten or more depending upon the organization. Information about these ensembles will be posted on the official School of Music bulletin board outside Watchorn Hall, Room 103. The meeting time for each ensemble is listed in the Schedule of Classes. Most of these ensembles require an audition for membership.

Redlands Symphony Orchestra

Students who exhibit outstanding performing ability may be invited to audition for participation in the Redlands Symphony Orchestra. Auditions are held during MUS 010 Recital Repertory Class at the beginning of each term.

General Ensemble Syllabus

The following, combined with an addenda syllabus which may be provided for each specific ensemble, constitutes the official syllabus for all major ensembles. Students must register for 0 or 1 unit for any ensemble in which they participate. Only the appropriate ensemble conductor can make exceptions. Grading will be numeric.

Any member of a wind/percussion ensemble or orchestra may be required to participate in the Feast of Lights (Fall semester) or the opera or musical theatre production (Spring semester). Assignments to these productions are posted no later than the beginning of the third week of classes. Dates for rehearsals and performances are made available at the beginning of each semester.

All students participating in an ensemble must meet the following requirements to receive credit for the course:

1. Attend all rehearsals and concerts and be in place ready to participate at the designated times. Do not accept outside activities during the semester which conflict with scheduled rehearsals and concerts.
2. Come to rehearsals and performances adequately prepared. Inadequate preparation, as determined by the conductor, will result in a lowered grade.
3. Majors will be expected to participate in two ensembles, including one conducted ensemble (Band, Orchestra, or Choir), each semester in residence.

In order to maintain acceptable standards of performance and the integrity of the ensembles, **no unexcused absences will be permitted.** The Ensemble Executive Committee will determine whether an absence is excused or not. Please see the Ensemble Excuse Policy.

GPA Requirement for Major Ensemble Participation

Music major participation in major ensembles will be determined by the grade point average (GPA) earned the immediately preceding semester according to the following system:

Status	Ensemble(s)
First Year	two or less
Transfers	two or less
2.49 or less	one
2.5-2.99	two
3.0 or above	two or more

The School of Music also sponsors small ensembles. They include:

Chamber Ensemble
Jazz Band/Combo
Guitar Ensembles
Percussion Ensemble

Music

Chamber Ensemble

Small ensemble (one-on-a-part) experiences are available each semester. Students may register for any chamber ensemble. Participation without registering is subject to the approval of the instructor. Chamber ensembles normally meet twice per week. At least one of the meetings will be with an instructor-coach. Students are encouraged to form their own groups from among their friends and colleagues. Well-rehearsed ensembles are often able to earn additional income through outside performances.

Dress Rehearsal Policy

Dress rehearsals may not begin before 6 p.m., and must not conflict with major ensemble concerts.

Ensemble Dress

Choirs: Men's attire for all choirs is black tux with black bow tie. Women's attire for all choirs must be purchased from the School of Music.

Bands and Orchestra: Normal attire is black tux with black bow tie. A black suit is an acceptable substitute. Women wear a long black dress (sometimes slacks) appropriate to the occasion.

Redlands Symphony Orchestra: Men's attire is tails, white bow tie and white cummerbund. Women's attire is a long black dress. The student must provide these.

Ensemble Attendance and Grading Policies

The following represents a new direction in the overall attendance and grading policies that apply to ALL ensembles offered for credit or numerical grade by the School of Music.

- Attendance at all rehearsals and all performances is mandatory. Unlike a lecture class where your absence might not be noticed, your absence from a rehearsal ruins the learning experiences for your peers.
- Prompt and timely arrival at the scheduled time for rehearsals and performances is mandatory. Arrival after the beginning of the rehearsal or call time (performance) constitutes a late arrival. Two late arrivals are equivalent to one unexcused rehearsal absence.

- All materials (folders, music, pencils, instruments, mutes, etc.) required for rehearsals and/or performances will be in evidence as required by the director of the ensemble.
- Attendance and timely arrival will be recorded at each performance.
- Reasons for late arrivals and/or absences will be given in writing to the attendance monitor or each ensemble. The Health Center or personal physician must document in writing any illness that removes a student from the ensemble rehearsal performance.

Attendance Review and Grading

The directors of the conducted ensembles meet four times each term to review each occasion of late arrival and/or absence with reference to the written explanation provided by the ensemble participant. It is the student's responsibility to submit their Ensemble Excuse BEFORE the expected absence. This body will make the ultimate and final decision as to the acceptability of each occurrence as to Excused or Not Excused. Each decision will be recorded and given in writing to the student.

The following attendance criteria affect the overall grade or the semester as follows:

- The student begins the semester with a 4.0
- First unexcused absence lowers the term grade to 3.0
- Second unexcused absence lowers the term grade to 2.0
- Third unexcused absence lowers the term grade to 1.0 and results in immediate dismissal from ensemble

Note: Any unexcused absence with regard to a performance is equivalent to three unexcused absences and will result in immediate dismissal from the ensemble. In accordance with the University policy, an overall equivalent of 2.0 must be maintained for receiving credit for the ensemble.

COURSE DESCRIPTIONS

Ensembles (MUSI)

110 Opera Workshop.

Fall (0-3), Spring (0-3).

Preparation and performance of scenes from opera or musical theatre. NU only.

111 University Choir.

Fall (0-1), Spring (0-1).

NU only.

112 Chapel Singers.

Fall (0-1), Spring (0-1).

NU only.

114 Madrigal Singers.

Fall (0-1), Spring (0-1).

Prerequisite: audition required. NU only.

130 Redlands Symphony Orchestra.

Fall (0-1), Spring (0-1).

Membership in the Redlands Symphony Orchestra. Prerequisite: professional level audition required. NU only.

131 University of Redlands Symphony Orchestra. Fall (0-1), Spring (0-1).

Prerequisite: audition required. NU only.

132 Chamber Orchestra.

Fall (0-1), Spring (0-1).

NU only.

133 Chamber Ensemble: Strings.

Fall (0-1), Spring (0-1).

NU only.

135 Jazz Improvisation Ensemble.

Fall (0-1), Spring (0-1).

Performance of small jazz ensemble literature from various style periods with a focus on developing improvisation skills. Prerequisite: audition required.

136 Studio Jazz Band.

Fall (0-1), Spring (0-1).

NU only.

137 Chamber Ensemble: Winds and Percussion. Fall (0-1), Spring (0-1).

NU only.

138 Wind Ensemble.

Fall (0-1), Spring (0-1).

NU only.

139 Special Ensemble.

Fall (0-1), Spring (0-1).

NU only.

140 Symphonic Band.

Fall (0-1), Spring (0-1).

THE GRADUATE PROGRAM

Admission

Applications for graduate study are available from the Music Admissions Office, School of Music, P.O. Box 3080, University of Redlands, Redlands, CA 92373-0999; telephone (909) 748-8014. Applicants should have a grade point average of at least 2.75 on a 4.0 scale from an accredited undergraduate program and must have a bachelor's degree or equivalent in music.

The deadline for submission of applications is four weeks prior to the beginning of each term. Applicants are encouraged to submit their documentation well in advance of the intended semester of matriculation.

Only completed applications will be considered. A completed application must include the following:

1. A University of Redlands Application for Admission to Graduate Study in Music;
2. The \$40 non-refundable application fee;
3. Two recommendations from professionals qualified to assess the applicant's potential for success in the intended major;
4. Official transcripts from each college or university previously attended;

Note: Transcripts from foreign colleges and universities must be evaluated by the Credential Evaluation Service of the International Education Research Foundation, Inc. and sent directly to the School of Music.

5. A TOEFL score of 550 (or 213 for the computer-based test or 80 for the Internet-based test) or higher is required for international students whose primary language is not English;
6. An admission audition for those intending to major in performance (applicants living within 200 miles of Redlands are expected to audition in person; others may submit tapes); and
7. Copies of representative original scores for those intending to major in composition.

Music

Auditions

Admission auditions may be performed at the University of Redlands (on special days set aside for admission auditions) by appointment, or through submission of a good-quality audio or videotape recording or CD. Auditions should last no more than twenty minutes. While no specific repertoire is required for instrumentalists, selections should demonstrate the applicant's full range of musical and technical ability, and works from two or three different historical periods or of differing type are suggested. Voice applicants must present at least four arias or songs—one each in English, French, German, and Italian. Conducting applicants must meet all of the current requirements for admission to the graduate program and have significant conducting experience. Submit a thirty-minute video of rehearsal and performance, repertoire list and current curriculum vitae and have an interview (live interview preferred). (To schedule an audition, contact the Director of Music Admissions. Audition tapes also should be sent to the Director of Music Admissions.)

Acceptance

The Dean of the School of Music sends notification of acceptance into the master's program.

THE MASTER OF MUSIC

The master of music degree is available in composition, conducting, music education, and performance.

Program Requirements

All graduate students must enroll in MUS 600 during the first two semesters of study. Each major program requires 40 credits distributed as follows:

The Major in Composition

- MUS 600 Graduate Studies in Music Scholarship and Analysis—(4)
- MUS 638 Composition—(4)
16 credits total
- Applied studies—4 to 8 credits
- Major Conducted Ensembles—4 credits
- MUS 606 Twentieth-Century Music Literature—(2)

- Music literature elective chosen from MUS 647, 602, 603, 604, and 605—(2)
- Electives—4 to 8 credits

Note: Students are encouraged to take at least one elective course outside the field of music.

- MUS 698 Graduate Recital—(0)
- MUS 699 Final Examination—(0)
- The graduate recital consists of original works composed while in residence.

With the approvals of the private teacher, the performance studies chair, and the Dean of the School of Music, the pre-recital jury examination may be waived for composition majors only.

The Major in Conducting

- MUS 600 Graduate Studies in Music Scholarship and Analysis—(4)
- MUS 606 Twentieth Century Music Literature—(2)
- MUS 636 Conducting—(4)
16 credits total
- MUS 643 Instrumentation—(2)
- MUS 645 Score Study and Analysis—(2)
- MUS 646 Conducting Rehearsal Techniques—(2)
- MUS 698 Recital—(0)
- Students are required to perform: one public recital each year (2 total).
- The final recital is recommended to include an instrumental ensemble (for choral conductors) and a choral ensemble (for instrumental conductors).
- Ensemble each term of residence (*Students are required to perform in the ensemble they assist.*)
- Electives—12 credits, other 600-level music courses or Applied Lesson. (Ensembles cannot be counted toward the elective requirement.)

The Major in Music Education

- MUS 600 Graduate Studies in Music Scholarship and Analysis—(4)
- EDUC 603 Research and Evaluation OR EDUC 659 Learning Theory and Assessment—(3)
- MUS 652 Foundations of Music Education—(4)

- EDUC 670 Program Administration—(3)
- MUS 658 Psychology of Music—(4)
- Applied studies—4 credits

Note: Two semesters of applied studies are required.

- Music Electives—6 credits
- Individualized Study in Music Education (band, choir, elementary, etc.)—4 credits

Note: Students are encouraged to take at least one elective course outside the field of music.

- Major conducted ensembles—4 credits
- MUS 698 Graduate Recital—0 to 2 credits
OR MUS 696 Thesis—0 to 2 credits
- MUS 699 Final Examination—(0)

The thesis (MUS 696), if chosen, is supervised by the student's graduate advisor and personal graduate committee.

If a recital (MUS 698) is chosen, permission must be secured before the end of the first semester of graduate study. Those pursuing this option must study privately with an appropriate faculty member for two consecutive semesters preceding the recital.

The School of Music Graduate Committee must approve the thesis proposal or recital program.

The Major in Performance

- MUS 600 Graduate Studies in Music Scholarship and Analysis—(4)
- Applied studies—12 to 16 credits
- Major Conducted Ensembles or Opera Workshop for vocal majors, OR MUS 611 Accompanying—4 credits
- Music literature electives chosen from MUS 647, 602, 603, 604, 605, and 606—(4) *Note: Vocal majors must take MUS 647.*
- Electives—8 to 12 credits

Notes: Organ majors must take MUS 644 and MUS 657. Piano majors must take MUS 628 and MUS 617 as electives. Students are encouraged to take at least one elective course outside the field of music.

- MUS 698 Graduate Recital—(0)

Note: Students must take two Graduate Recitals.

- MUS 699 Final Examination—(0)

The first recital must occur before the completion of 20 credits. Between twenty-five and fifty percent of the repertoire for one of the recitals must consist of chamber ensemble

works (larger than instrument plus keyboard). The combined recitals must contain at least one work written within the past fifty years. Content of each recital must be approved by the student's graduate committee.

Final Examination

Each major program requires that the student pass a final examination given by the student's graduate committee. The examination normally covers the literature of the major, the thesis (if applicable), and the repertoire of the recital(s). The student should also demonstrate graduate-level competence in music theory, music history, general literature, and scholarship.

Transfer Credit

A maximum of 6 credits of graduate credit completed at another regionally accredited institution within the previous six years may count toward the master of music, subject to approval by the Graduate Studies Coordinator.

Diagnostic Entrance Examinations

Preceding the first semester of study, entering students must take a diagnostic examination in music history, music theory, and literature. This test covers knowledge equivalent to the expectations of graduates of the University of Redlands bachelor of music program. Areas of weakness identified through this examination may be strengthened through enrollment in appropriate graduate or undergraduate courses, or students may choose to study on their own. Diagnostic examinations are given immediately preceding each semester.

Graduate Assistantships

The application for a graduate assistantship is part of the Application for Admission to Graduate Study. Assistantships are awarded in a wide variety of areas including, but not limited to, teaching, accompanying, ensemble assistance, concert management, and recording.

Special Regulations:

Master of Music in Music Education

To be considered for the Master of Music in Music Education, students must have an undergraduate degree that is equivalent to

Music

the University of Redlands Bachelor of Music in Music Education, complete an Interview with the Music Education Committee and perform a live or taped applied Audition (can be performance, composition or conducting). In the event that the evaluation of the undergraduate transcript reveals discrepancies between the earned degree and the Bachelor of Music Education, student may be required to complete undergraduate courses to complete the necessary prerequisites for the Graduate Program.

Master of Music Performance

Students in performance must register for a minimum of 3 credits of private instruction on the major instrument/voice during the semester in which a required graduate recital is presented. All majors (except keyboard and voice—see the following) are expected to earn 4 credits in an appropriate School of Music major conducted ensemble unless the normal assignment is waived or re-assigned by petition to the music faculty. The normal appropriate major conducted ensembles are: MUSI 611 University Choir (vocal majors), MUSI 638 Wind Ensemble (wind and percussion majors), MUSI 631 University of Redlands Symphony Orchestra (string majors) and MUSI 640 Symphonic Band. Guitarists will be assigned according to their secondary interests. Keyboard majors are required to enroll in MUS 611 Accompanying for up to 4 credits as required by the degree—instead of a major conducted ensemble. In addition, vocal majors may elect to take 4 credits in MUSI 610 Opera Workshop in lieu of a major conducted ensemble.

At least four weeks prior to each required performance recital, the complete proposed repertoire must be performed for the candidate's committee at a pre-recital evaluation jury. In the case of composition recitals, all scores and parts must be available for examination and at least half of the works must be performed for the committee. At the completion of the evaluation, the committee will notify the candidate whether the recital may be given as scheduled.

Completed, typed, and edited program notes must be presented to the committee for approval at the time of the pre-recital

evaluation. All printed recital programs must contain approved program notes. Verbal commentary at recitals is not permitted.

Artist Diploma in Music

In lieu of a traditional master's degree, students may enroll in an intensified performance program leading to an Artist Diploma in Music.

Admission

Prospective students must have a bachelor's degree or equivalent in music. There will be an in-person audition specific to each instrument or voice. Once admitted, students must pass an Artist Diploma Entrance Jury (scheduled within the normal year-end jury examinations) by the end of the first year before being allowed to continue in the program.

Those students whose primary language is not English must report a score of at least 450 on the TOEFL examination by the end of the first year of study.

Required Courses

- Applied Music—24 credits, 6 per semester
- Graduate-level music courses—4 credits
- Directed study in the literature of the major—4 credits
- Participation in a major conducted ensemble (or accompanying for organ and piano majors)—4 credits, 1 per semester
- Three formal recitals

Course Descriptions (MUS)

600 Graduate Studies in Music Scholarship and Analysis. Fall (4).

Readings in methodologies of musicology, music theory, and ethnomusicology. Includes a review of bibliographic methods for research in music leading to a formal paper.

602 Medieval and Renaissance Music Literature. Fall (2).

Detailed survey of music examples from 600 to 1600, with emphasis on the definition of style and its expression by individual composers. Approaches include performance, analysis, and research methods. Offered in alternate years.

603 Baroque Music Literature. Fall (2).

Examples of music written from 1600 to 1750

are studied, with emphasis on the definition of style and how composers express it. Approaches include performance, analysis, and research methods. Offered in alternate years.

604 Classical Music Literature.

May Term (2).

Exploration of music written between 1750 and 1820, with emphasis on the definition of style and how individual composers express it. Approaches include performance, analysis, and research methods. Offered in alternate years.

605 Romantic Music Literature.

May Term (2).

Survey of music written between 1820 to 1900, with emphasis on the definition of style and how individual composers express it. Approaches include performance, analysis, and research methods. Offered in alternate years.

606 Twentieth-Century Music Literature. Spring (2).

Detailed study of music examples from the twentieth century, with the goal of examining the basic directions of contemporary music. Included are neoclassicism, nationalism, classical and post-Webern serialism, eclecticism, indeterminacy, electronics, and jazz. Offered in alternate years.

607 World Music. May Term (3).

Study of the basic elements of music outside of the usual European tradition, including melody, rhythm, harmony, and form in the musics of the world. Emphasis on Latino, Asian, and African traditions. NU only.

608 Computer Music. Fall (2), Spring (2).

Provides an introduction to electro-acoustic music through the study of electro-acoustic compositions, synthesis techniques, and current computer applications. On completion, students should have a strong sense of the development of electro-acoustic music, a working knowledge of the supporting details (terminology, techniques, genres, composers, etc.), and an aural sense of different styles.

610 Jazz Improvisation I. Fall (1).

Study of jazz nomenclature, performance strategies, and resources for improvisation. Emphasis on applied ear training and performance on the student's major instrument. Prerequisites: MUS 102, 106, or by permission.

611 Accompanying. Fall (1), Spring (1).

Study of vocal coaching (opera and art song) and instrumental accompanying techniques. Practicing, rehearsing together, literature, transposition, and sight reading. Supervised practice sessions. May be repeated for up to 4 degree credits.

612 Instrumental Music at the Pre-College Level. Spring (2).

Methods and materials for teaching instrumental music in K-12 schools, including concert and marching bands, orchestra, jazz and pop groups, social instruments, theory, and listening experiences.

614 Jazz Improvisation II. Spring (2).

Study of advanced jazz improvisation with the goal of enabling students to develop styles of their own. Prerequisite: by permission.

617 Piano Literature. Fall (2), Spring (2).

Examination of the literature for solo piano, chamber music with piano, and piano concertos written from the mid-eighteenth century to the present. Music written for harpsichord and clavichord prior to 1750, but commonly performed on the piano also included. Stylistic, social, and cultural elements explored. Extensive listening and examination of scores. Prerequisite: ability to read music. Offered as needed.

623 Choral Music at the Pre-College Level. Fall (2).

Methods and materials for teaching vocal music in K-12 schools, including chorus, vocal chamber ensembles, voice classes, recitals, stage productions, theory, and listening experiences.

624 German and Italian Vocal Literature and Diction. Fall (2).

Exploration of literature for the voice in the German and Italian languages, and correct diction for each language. Includes learning and working with the International Phonetic Alphabet. NU only.

625 English and French Vocal Literature and Diction. Spring (2).

Exploration of literature for the voice in the English and French languages, and correct diction for each language. Includes learning and working with the International Phonetic Alphabet. NU only.

Music

628 Pedagogy. Fall (2).

Principles and theories of pedagogy applied to the teaching of music. Offered in alternate years.

629A Pedagogy Practicum:

Vocal Pedagogy. Spring (2).

629B Pedagogy Practicum:

Strings and Guitar. Spring (2).

629C Pedagogy Practicum:

Keyboard. Spring (2).

629D Pedagogy Practicum:

Wind, Brass, and Percussion. Spring (2).

Supervised and observed studio teaching. University students teach two or more private students for an entire semester. One segment explores methods and materials appropriate for teaching one's own instrument or voice. Prerequisite: MUS 628. Offered in alternate years.

631 Percussion Instrument Techniques.

Spring (1).

Introduction to the instruments of the percussion family with emphasis on practical experience in group and/or individual performance. Prerequisite: ability to read music. Offered in alternate years.

633 Woodwind Instrument Techniques.

Spring (1).

Introduction to the flute, oboe, clarinet, bassoon, and saxophone with emphasis on practical experience in group and/or individual performance. Music education and composition majors are given priority for use of University-owned instruments. Prerequisite: ability to read music. Offered in alternate years.

634 Brass Instrument Techniques. Fall (1).

Introduction to the trumpet, horn, trombone, baritone, and tuba with emphasis on practical experience in group and/or individual performance. Music education and composition majors are given priority for use of University-owned instruments. Prerequisite: ability to read music. Offered in alternate years.

636 Advanced Choral Conducting.

Spring (4).

Introduction to the art of choral conducting. Offered in alternate years.

637 Advanced Instrumental Conducting. Spring (4).

Students develop analytical skills, knowledge of appropriate wind literature, effective non-verbal communication skills, and effective rehearsal techniques. Offered in alternate years. NU only.

638 Composition. Fall (3–4), Spring (3–4).

The exploration and development of individual compositional styles through private lessons and class meetings. Projects and assignments are geared to each student's background and experience. Prerequisite: ability to read and notate music, basic keyboard skills. May be repeated for degree credit for a maximum of 16 credits. NU only.

641 Marching Band Techniques. Fall (2).

Study and experience in various charting procedures, including Step-two, Asymmetrical, Corps style, and computer charting. Developing effective rehearsal techniques, philosophical considerations, and arranging for the marching band. Offered in alternate years.

643 Instrumentation. Fall (2).

This is a historical and practical study of instrumentation with an emphasis on specific techniques related to writing for orchestral instruments. Prerequisite: MUS 356. Offered as needed. NU only.

644 Church Music Seminar. (2).

Study of selected topics in church music with an emphasis on practical applications in the field. Areas of study announced annually. May be repeated for degree credit. Prerequisite: by permission. Offered as needed.

645 Score Study and Analysis. Spring (2).

This seminar is the study of musical coherence and formal structure as seen in orchestral and choral works written from the mid-eighteenth century to the late twentieth century. The structural investigation of each work will be based on harmonic and thematic design, motive elaboration, text selection and orchestration. Prerequisite: by permission. Offered as needed. NU only.

646 Conducting Rehearsal Techniques.**Fall (2).**

This course will introduce students to a variety of rehearsal techniques through conductor observation/discussion, weekly readings and podium time. Each student will be required to observe conductors on a weekly basis and report their findings to the class. Prerequisite: by permission. Offered as needed. NU only.

648 Jazz-Commercial Arranging.**Spring (2).**

Prerequisite: by permission, enrollment in MUSI 636. Offered as needed.

651 String Instrument Techniques. Fall (1).

Introduction to the violin, viola, cello, and double bass with emphasis on practical experience in group and/or individual performance. Music education and composition majors are given priority for use of University-owned instruments. Prerequisite: ability to read music. Offered in alternate years.

652 Foundations of Music Education.**Fall (4).**

Examination of the historical, philosophical, and sociological foundations of music education, with an emphasis on contemporary research-based theories. Offered in alternate years.

653 Administration and Supervision in Music. Fall (2).

A seminar in music administration at the public school level (K-12) for individuals involved or interested in the educational management of music. Topics may include faculty management, curriculum sequence, department image and balance, and state guidelines for music education. Offered in alternate years. NU only.

654 Counterpoint. Fall (2), Spring (2).

Principles of melodic writing: two-, three-, and four-part counterpoint involving the use of imitation, augmentation, mirroring, and diminution. Offered as needed.

655 Computer Techniques in Music Education. Spring (2).

The current uses of personal computers and MIDI instruments for music education,

including their applications in music theory, manuscript, performance, composition, and ear training. No previous computer knowledge required. Offered in alternate years. NU only.

656 Orchestration. Spring (2-4).

Nature and potential of musical instruments; arrangement and scoring for conventional groups (symphony orchestra, symphony band, marching band, principal chamber combinations) and for immediate practical instrumentation.

657 Organ History and Literature. Spring (2).

Examination of the construction and repertoire of the pipe organ from its invention to the present day. Iconography, mechanics, and acoustics, as well as cultural and societal interdependence, are included. Open to non-organists. Offered in alternate years.

658 Psychology of Music. Spring (4).

Examination of contemporary music learning theories with an emphasis on current research-based teaching methods. Offered in alternate years.

696 Thesis. Fall (1-2), Spring (1-2).

May be repeated for degree credit up to 4 credits. NU only.

697 Special Studies. Fall (2), Spring (2).**698 Graduate Recital. Fall (0), Spring (0).**

Composition majors may present (once each year) well-rehearsed public presentations of three to four works (or equivalent) in lieu of a single recital.

699 Final Examination. Fall (0), Spring (0).

Music

Applied Instruction Courses (MUAP)

Private Instruction for Graduate Students. Fall (1-6), Spring (1-6).

Private instruction is divided into the following classifications:

- MUAP 602 Classical Piano
- MUAP 604 Jazz Piano
- MUAP 605 Organ
- MUAP 606 Harpsichord
- MUAP 608 Classical Voice
- MUAP 609 Violin
- MUAP 610 Viola
- MUAP 611 Cello
- MUAP 612 String Bass
- MUAP 613 Flute
- MUAP 614 Oboe
- MUAP 615 Clarinet
- MUAP 616 Bassoon
- MUAP 617 Saxophone
- MUAP 618 Horn
- MUAP 619 Trumpet
- MUAP 620 Trombone
- MUAP 621 Tuba
- MUAP 622 Classical Percussion
- MUAP 624 Jazz Percussion
- MUAP 626 Harp
- MUAP 628 Classical Guitar
- MUAP 630 Jazz Guitar
- MUAP 632 Popular Guitar
- MUAP 634 Electric Bass
- MUAP 635 Classical Other
- MUAP 636 Jazz Other
- MUAP 637 Other
- MUAP 638 Conducting

Ensembles (MUSI)

Graduate Ensemble.

Fall (0-1), Spring (0-1).

Participation in, and assistance with, a specific School of Music ensemble. NU only.

The following ensembles are available:

- MUSI 611 University Choir
- MUSI 612 Chapel Singers
- MUSI 614 Madrigal Singers
- MUSI 631 Symphony Orchestra
- MUSI 632 Chamber Orchestra
- MUSI 633 Chamber Ensemble: Strings
- MUSI 635 Jazz Improv Ensemble
- MUSI 636 Studio Jazz Band

- MUSI 637 Chamber Ensemble: Winds and Percussion
- MUSI 638 Wind Ensemble
- MUSI 639 Percussion Ensemble/Guitar Ensembles
- MUSI 640 Symphonic Band

610 Opera Workshop.

Fall (0-3), Spring (0-3).

Preparation and performance of scenes or a full production of opera or musical theatre. NU only.

631 University of Redlands Symphony Orchestra. Fall (0-1), Spring (0-1).

Prerequisite: audition required. NU only.

THE FACULTY

Lawrence Finsen
Kathie Jenni
Xinyan Jiang
James Krueger
Kevin O'Neill
Julia Sushytska

THE MAJOR

The Philosophy Department offers (1) a general philosophy major, (2) a philosophy major with an emphasis in Chinese philosophy, and (3) a philosophy major with an emphasis on ethics. As PHIL 200 and PHIL 220 are prerequisites for a number of advanced courses, majors are encouraged to plan to take these two courses by the end of their second year.

Learning outcomes for this program may be found at:
www.redlands.edu/academics/college-of-arts-sciences/undergraduate-studies/philosophy/9505.aspx.

Bachelor of Arts

General Philosophy Major Requirements

The general philosophy major consists of eleven courses in philosophy, or ten courses in philosophy and one (only) of the following courses: GOVT 212 or 214 (the political theory courses).

8 core courses

No single course can count for more than one of these areas.

Introductory level course:

Take one course:

- PHIL 100 Introduction to Philosophy (4)
- PHIL 120 Ethics and Social Philosophy (4)
- PHIL 150 Introduction to Chinese Philosophy (4)

Historical Foundations of Western Philosophy:

Take two courses:

- PHIL 200 Greek Philosophy (4)
- PHIL 220 Seventeenth- and Eighteenth-Century Philosophy (4)

Non-Western Philosophy:

Take at least one course:

- PHIL 150 Introduction to Chinese Philosophy (4)
- PHIL 312 Chinese Buddhism (4)
- PHIL 314 Daoism (4)
- PHIL 316 Confucianism (4)

Logic:

Take one course:

- PHIL 350 Symbolic Logic (4)

Advanced Ethics:

Take at least one course:

- PHIL 316 Confucianism (4)
- PHIL 320 Ethics and Law (4)
- PHIL 330 Ethics and the Environment (4)
- PHIL 331 Ethical Theory (4)

Advanced Metaphysics or Epistemology:

Take at least one course:

- PHIL 300 Epistemology (4)
- PHIL 312 Chinese Buddhism (4)
- PHIL 314 Daoism (4)
- PHIL 340 Philosophy of Mind (4)

Practicum:

- Take two semesters of PHIL 461 Philosophy Practicum (2)

Three electives:

An appropriate 300- or 400-level topics course can be substituted for any given requirement with Chair approval. No more than three 100-level courses may count toward the major.

Emphasis in Chinese Philosophy Requirements

11 courses:

- PHIL 150 Introduction to Chinese Philosophy (4)

Two of the following three courses:

- PHIL 312 Chinese Buddhism (4)
- PHIL 314 Daoism (4)
- PHIL 316 Confucianism (4)

Historical Foundations of Western Philosophy:

Take two courses:

- PHIL 200 Greek Philosophy (4)

Philosophy

- PHIL 220 Seventeenth- and Eighteenth-Century Philosophy (4)

Logic:

- PHIL 350 Symbolic Logic (2-4)

Ethics:

At least one advanced course:

- PHIL 316 Confucianism (4) OR another advanced ethics course

Metaphysics or Epistemology:

At least one advanced course:

- PHIL 312 Chinese Buddhism (4)
- PHIL 314 Daoism (4) OR another advanced course

Chinese Culture:

Two courses from the following:

- PHIL 160 Chinese Civilization (4)
- HIST 141 Classical Asian Civilization: China and Japan (4)
- AST 111 Introduction to Asian Literature (4)
- AST 120 Chinese/Japanese Calligraphy (4)
- GOVT 222 Asian Politics and Development (4)

Practicum:

Two semesters

- PHIL 461 Philosophy Practicum (2); the capstone project must address a topic in Chinese Philosophy

Electives in Philosophy:

Including at least one course at the 300 level or above, to total eleven courses; either of the following may count as one elective:

- GOVT 212 OR GOVT 214

Students with this emphasis are strongly encouraged to take CHNS 101-102, Beginning Chinese (Mandarin), and/or a travel course to China during May Term, and/or study in China for a semester or a year via the University's study abroad programs.

Emphasis in Ethics Requirements

11 courses:

- PHIL 120 Ethics and Social Philosophy (4)

Historical Foundations of Western Philosophy:

Take two courses:

- PHIL 200 Greek Philosophy (4)
- PHIL 220 Seventeenth- and Eighteenth-Century Philosophy (4)

Non-Western Philosophy:

Take at least one course:

- PHIL 150 Introduction to Chinese Philosophy (4)
- PHIL 312 Chinese Buddhism (4)
- PHIL 314 Daoism (4)
- PHIL 316 Confucianism (4)

Logic:

- PHIL 350 Symbolic Logic (4)

Ethics:

Take at least three courses besides PHIL 120 (no more than one 100-level course may count); possibilities include:

- PHIL 255 Medical Ethics (4)
- PHIL 257 Humans and Other Animals (4)
- PHIL 310 Philosophy of Sex and Gender (4)
- PHIL 320 Ethics and Law (4)
- PHIL 330 Ethics and the Environment (4)
- PHIL 331 Ethical Theory (4)

Practicum:

- Two semesters of PHIL 461 Philosophy Practicum (2)

Electives:

Two additional courses in Philosophy, or one in Philosophy and one from the following:

- GOVT 212 OR GOVT 214

Students with this emphasis are strongly encouraged to complete a minor or a second major in a related field (e.g., Government, Environmental Studies), and to pursue an internship or community service in a pertinent area.

THE MINOR

6 courses

The minor in philosophy consists of six courses, including the following:

- One introductory-level Philosophy course
- Two history of Philosophy courses:
Either PHIL 200 Greek Philosophy

(4) and PHIL 220 Seventeenth- and Eighteenth-Century Philosophy (4) OR PHIL 150 Introduction to Chinese Philosophy (4) and a 300-level course in Chinese Philosophy

- A capstone experience that either:
 - a. integrates a philosophical component into the student's major capstone project (with the consent of the major department),
 - b. follows one of the two options for the Philosophy major capstone, or
 - c. consists of an appropriate advanced (300- or 400-level) course which includes a major writing project (course and project to be approved by the department as fulfilling the capstone).

Students electing to minor in Philosophy should consult an advisor in the department and are encouraged to explore ways to integrate the minor with their major.

The Capstone Experience

Seniors must register for PHIL 461 Philosophy Practicum, but their capstone experience may take one of two possible forms:

1. Writing a senior thesis in the student's area of emphasis, or
2. Compiling a senior portfolio including
 - a. a major reflective essay, roughly 15 pages, discussing program design and the student's growth over time;
 - b. a revised and polished essay from any course; and
 - c. samples of papers, exams, journals, and so on from three or four courses at various levels of sophistication (to be discussed in the reflective essay) that reflect the student's progress.

Departmental Honors

A departmental honors program that requires an exceptional senior project is available for qualified and motivated students. Admission to the program might come by departmental invitation or, should students initiate their own applications, by affirmative vote of the philosophy faculty. Interested students should consult their advisors for information about application procedures and requirements.

Study Abroad

Philosophy majors and minors are strongly encouraged to include study abroad in their academic planning. The opportunity to develop deeper understanding of another culture is of immense value to any liberally educated person, and of particular value to philosophy students. A number of programs are available that would be especially beneficial to someone studying philosophy, including programs in English and other languages. Students should plan off-campus study early in consultation with both their department advisor and the Study Abroad Office.

Course Descriptions (PHIL)

100 Introduction to Philosophy.

Fall (4), Spring (4).

Introduction to substantive issues in philosophy through examination of historical and contemporary sources. Designed to provide a survey of topics in various areas, including ethics, metaphysics, and epistemology.

120 Ethics and Social Philosophy.

Fall (4), Spring (4).

Examination of competing ethical and social-political theories in the context of current ethical controversies.

130 Reasoning and Logic.

Fall (4) or Spring (4).

Practical introduction to logic and critical thinking, with emphasis on developing the ability to detect fallacious arguments and construct sound ones in a variety of practical contexts.

140 Animal Ethics and Service.

May Term (3).

Study of animal ethics combined with service at local animal shelters and two weeks volunteering at Best Friends Animal Sanctuary in Kanab, Utah. Class-time examines philosophical perspectives on animals' moral standing and issues such as using animals for food. Service includes cleaning kennels, feeding and watering, socializing and exercising animals. Offered as needed. CN and EV only.

Philosophy

145 Global Medical Ethics. May Term (3). Service course focusing on public health challenges in the developing world, in particular in the continuing HIV pandemic in southern Africa. One week of coursework on campus lays the foundation for three weeks of service work in the Kingdom of Swaziland. CN.

150 Introduction to Chinese Philosophy. Fall (4).

An introduction to Chinese philosophy. Readings selected mainly from Confucian, Taoist, and Buddhist traditions. No prior acquaintance with Chinese literature or philosophy will be presupposed.

160 Introductory Topics in Philosophy. Fall (4), Spring (4).

Study of selected topics, movements, authors, or works in philosophy chosen to reflect student interest and instructor availability. May be repeated for degree credit, given different topics, for a maximum of 8 credits. Offered as needed.

200 Greek Philosophy. Fall (4).

Study of original texts in Greek philosophy selected from the pre-Socratics, Plato, Aristotle, and the Stoics. Students are acquainted with philosophers who began the Western intellectual tradition. Prerequisite: one course in philosophy or by permission.

210 Medieval Philosophy. Spring (4).

Study of original texts from medieval philosophy selected from Augustine, Aquinas, Anselm, Abelard, Bonaventure, Scotus, and Ockham. Emphasis on the place philosophy occupied in medieval culture and especially its relations to religious faith. Prerequisite: one course in philosophy or by permission. Offered as needed.

220 Seventeenth- and Eighteenth-Century Philosophy. Spring (4).

Study of the works of major philosophers selected from the modern period (1600-1780). Readings selected from writings of Bacon, Descartes, Hobbes, Locke, Leibniz, Spinoza, Berkeley, and Hume. Prerequisite: one course in philosophy or by permission.

230 Nineteenth-Century Philosophy. Fall (4).

Study of major thinkers in the period from 1780 to 1850. Primary focus on Kant and Hegel, with readings from original sources. Prerequisite: one course in philosophy or by permission. Offered in alternate years.

240 Twentieth-Century Continental Thought. Fall (4) or Spring (4).

Examination of original texts in existential and phenomenological traditions, exploring distinctiveness and interrelation. Readings selected from Husserl, Heidegger, Sartre, Beauvoir, Merleau-Ponty, and Levinas. Prerequisite: one course in philosophy or by permission. Offered as needed.

250 Twentieth-Century Philosophy. Fall (4).

Examination of original texts in continental and Anglo-American traditions, exploring common origins and current convergence. Readings selected from Brentano, Meinong, Husserl, Heidegger, Sartre, Russell, Moore, Wittgenstein, Austin, Carnap, Ayer, Ryle, and Quine. Prerequisite: one course in philosophy or by permission. Offered as needed.

255 Medical Ethics. Fall (4) or Spring (4).

Examination of contemporary ethical issues in the practice of medicine. Topics include the doctor-patient relationship, informed consent and medical research, abortion, euthanasia, and the right to health care.

257 Humans and Other Animals. Fall (4).

Study of relations between humans and other animals, both empirical and ethical. Topics include the nature of animal minds, theories of animal ethics, animals as food, animal experimentation, hunting and fishing, zoos and aquariums. Films, guest speakers, and readings from classical and contemporary sources. Offered in alternate years.

300 Epistemology. Spring (4).

Examination of traditional and contemporary problems in the theory of knowledge: the challenge of skepticism; role of belief, truth, and certainty; whether there are different

kinds of knowing. Prerequisite: PHIL 220 or by permission. Offered in alternate years.

310 Philosophy of Sex and Gender. Spring (4).

Examination of conceptual and moral issues surrounding sexual equality: sexism and its relation to other forms of oppression; the notion of male and female natures; friendship, love, marriage, and the family; moral analyses of rape, abortion, and pornography. Classical and contemporary readings from philosophy, the social sciences, and political documents. Prerequisite: one philosophy course or by permission. Offered as needed.

312 Chinese Buddhism. Spring (4).

Study of Chinese Buddhist philosophy. The main focus is on the school known as Chan (pronounced "Zen" in Japanese), but other Chinese Buddhist schools such as the Three Treatises, Consciousness-Only, Tiantai, Huayan, and Pure Land will be discussed as well. Prerequisite: one course in philosophy or by permission. Offered every third year.

314 Daoism. Spring (4).

Study of Daoist (Taoist) philosophy. Classical Daoist texts such as Daode Jing (Tao Te Ching) and Zhuangzi (Chuang Tzu), as well as Neo-Daoist commentaries and contemporary interpretations of Daoist classics. Prerequisite: one course in philosophy or by permission. Offered every third year.

316 Confucianism. Spring (4).

Study of classical Confucianism. Readings include Confucian classics such as Confucius' Analects, The Book of Mencius, and Xunzi (Hsün Tzu), as well as contemporary interpretations of classical Confucianism. Prerequisite: one course in philosophy or by permission. Offered every third year.

320 Ethics and Law. Spring (4).

Study of selected problems concerning law, society, and morality. Topics include legal paternalism, legal moralism, the ethics of criminal punishment, political obligation, civil disobedience, and justification of the state. Readings from classical and contemporary sources. Prerequisite: one course in philosophy, GOVT 212, GOVT 214, or by permission. Offered in alternate years.

330 Environmental Ethics.

Fall (4) or Spring (4).

Examination of ethical issues about the environment: foundational questions about moral status, public policy issues, and questions of personal morality. Traditional perspectives, such as anthropocentrism and individualism, are contrasted with alternatives such as the Land Ethic and ecofeminism. Prerequisite: one course in philosophy or by permission. Offered in alternate years.

331 Ethical Theory. Fall (4), Spring (4).

Examination of the nature and status of ethical value through historical and contemporary writings. Addresses philosophical arguments defending the objectivity and rationality of ethical principles in light of the challenges presented by individual psychology and cultural difference. Prerequisite: PHIL 200, 220 or by permission.

332 Philosophy of Science.

Fall (4) or Spring (4).

Examination of fundamental issues in the philosophy of science. Topics include the nature of scientific theories and theory change, scientific rationality, and realism/antirealism. Prerequisite: PHIL 220, one 200-level science course, or by permission. Offered every third year.

333 Philosophy of Biology. Spring (4).

Examination of fundamental issues in the philosophy of biology. Particular attention is paid to understanding evolutionary theory, the implications of modern genetics, and the nature and limits of biological theory. Addresses contemporary questions in these fields. Prerequisite: two courses in philosophy or BIOL 239 or by permission. Offered every third year.

335 Moral Psychology.

Fall (4) or Spring (4).

Examination of selected issues in moral psychology, the philosophical study of the psychic capacities involved in moral life. Topics have included moral perception, moral imagination, the nature of emotions, the scope of empathy, and self-deception. Prerequisite: PHIL 200, 220, or by permission. Offered in alternate years.

Philosophy

340 Philosophy of Mind.

Fall (4) or Spring (4).

Seminar examining selected topics in the philosophy of mind, emphasizing contemporary sources. Topics include the mind-body problem, privacy and the problem of other minds, self-deception, artificial intelligence, personal identity, and analysis of such concepts as memory, emotion, action, belief, and dreaming. Prerequisite: PHIL 200, 220 or by permission. Offered in alternate years.

345 American Philosophy.

Fall (4) or Spring (4).

Study of classic texts in American philosophy. Readings selected from the writings of Peirce, Royce, James, Dewey, Santayana, and appropriate twentieth-century thinkers. Prerequisite: one course in philosophy or by permission. Offered as needed.

350 Symbolic Logic. Fall (4) or Spring (4).

Study of increasingly complex systems of deductive logic. Topics include sentential logic and predicate logic. Prerequisite: either one course in philosophy, or by permission. Offered in alternate years.

355 Philosophy of Religion. Spring (4).

Examination of selected issues surrounding religious beliefs and practices: arguments for and against God's existence, the relationship of faith and reason, and the relationship of religion and ethics. Readings from classical and contemporary sources. Prerequisite: PHIL 200, 220, or by permission. Offered as needed.

360 Topics in Chinese Philosophy.

Spring (4).

An advanced seminar that will focus on readings from Chinese philosophical texts. Prerequisite: one philosophy course or by permission. May be repeated for degree credit, for a maximum of 12 credits, given a different topic.

460 Seminar in Selected Topics or Figures. Fall (3–4), Spring (3–4).

Examination of a particular philosopher, movement in philosophy, or specialized topic chosen to reflect student interest and staff availability. Prerequisite: one history of philosophy course or by permission. Offered as needed.

461 Philosophy Practicum.

Fall (2), Spring (2).

Training in research, annotated bibliographies, library resources, topic selection for research, graduate school applications, and other practicalities of joining the philosophical community. In spring, students complete a research project, a portfolio, or an essay for an appropriate advanced philosophy course. Project topics negotiated with departmental advisors; may be interdisciplinary. Prerequisite: junior or senior standing, and by permission for non-majors. CN and EV only.

Physical Education and Athletics

THE DIRECTOR

Jeffrey P. Martinez

THE FACULTY

James Ducey

Michael C. Maynard

Rich Murphy

Suzette A. Soboti

Thomas T. Whittemore

THE MINOR

For students interested in a minor in physical education, the following required courses are designed to provide a foundation of study:

6 courses. 24 credits

- PE 110 Foundations of Physical Education and Sport (4)
- PE 210 Social Sciences in Physical Education and Sport (4)
- PE 310 Instructional Strategies for Physical Education (4)
- PE 320 Scientific Concepts for Physical Education and Sport (4)

In order to satisfy the 6 additional credits of required physical education coursework, students may choose from a variety of other academic classes outlined in the Physical Education course descriptions. Activity classes do not fulfill the requirements for the 6 additional credits.

Activities Program

All University students are encouraged to participate in the Physical Education Activities Program. The courses are categorized according to the primary goal of the class: fitness activities, lifetime sports, martial arts, recreational sports, and intercollegiate athletics. Students are encouraged to select at least one from each category. All courses are designed to enhance physical fitness, improve skills, and develop an appreciation of the many benefits of developing and maintaining a healthy and active lifestyle. Activity courses are offered for 1 credit on a CN basis. Students may earn a maximum of 4 credits toward a degree.

Note: Physical Education activity credits are exempt from the excess credit fee.

Fitness Activities

Designed to improve cardiovascular fitness, body composition, muscular endurance, strength, and flexibility.

PEAC 0FA	Water Aerobics
PEAC 0FD	Dynamic Fitness Speed and Agility
PEAC 0FE	Dynamic Fitness Strength and Power
PEAC 0FP	Personalized Fitness
PEAC 0FL	Low Impact Aerobics
PEAC 0FS	Life Saving
PEAC 0FW1	Weight Training—Beginning
PEAC 0FW2	Weight Training—Intermediate
PEAC 0FX	Flexibility
PEAC 0FY	Yogalates
PEAC 0FY1	Yoga—Beginning
PEAC 0FY 2	Yoga—Intermediate
PEAC 0FZ	Topics in Fitness

Lifetime Sports

Designed to improve the skill performance in the selected sport through instruction, drills, and competitive play.

PEAC 0LB	Badminton
PEAC 0LC	Soccer
PEAC 0LF	Ultimate Frisbee
PEAC 0LG	Golf
PEAC 0LH	Cheerleading
PEAC 0LK	Coed Basketball
PEAC 0LL	Lacrosse
PEAC 0LN	Sand Volleyball
PEAC 0LR	Racquetball
PEAC 0LS	Swimming
PEAC 0LT1	Tennis—Beginning
PEAC 0LT2	Tennis—Intermediate
PEAC 0LT3	Tennis—Advanced
PEAC 0LV	Volleyball
PEAC 0LW	Wallyball
PEAC 0LZ	Topics in Lifetime Sports

Martial Arts

Designed to train both the mind and body. Some may require additional fees and/or equipment.

PEAC 0MA	Aikido
PEAC 0MK1	Karate—Beginning
PEAC 0MK2	Karate—Intermediate
PEAC 0MS	Self Protection
PEAC 0MZ	Topics in Martial Arts

Physical Education and Athletics

Recreational Sports

Designed to provide instruction in recreational activities. Each of these classes requires an additional fee and/or equipment, and many are conducted on weekends.

PEAC ORH	High Adventure Ropes
PEAC ORK	Kayaking
PEAC ORR	Rock Climbing
PEAC ORS	Scuba
PEAC ORW	Windsurfing
PEAC ORZ	Topics in Recreational Sports

Recreational Sports/Intramural Program

The Recreational Sports program has four components: intramural competition, club sports, recreational facilities, and outdoor recreation (equipment rental).

The intramural program offers a wide variety of activities and events intended to encourage friendly competition among students, faculty, and staff. Some of the activities currently offered include basketball, badminton, bowling, flag football, frisbee, golf, pickleball, racquetball, soccer, softball, table tennis, tennis, volleyball, wallyball, innertube water polo, and wiffleball.

The club sport program is designed to create an opportunity for members of the University community with a common sport interest to organize. Clubs are classified as either competitive or non-competitive. Competitive clubs usually have a coach, hold practices, and compete against other schools or community teams, while non-competitive clubs are informal and meet to discuss or explore interests.

The University has outstanding athletic and recreational facilities available. Information regarding facility availability may be obtained from the Department of Physical Education and Athletics. The SLIC office supports hiking, camping, and other outdoor activities through an equipment rental program for those who wish to venture into the many recreational areas surrounding the campus.

Intercollegiate Athletics

For students who excel in a particular sport or sports, the University offers an opportunity to compete in a comprehensive program

of intercollegiate athletics. Men's teams are fielded in baseball, basketball, cross-country, football, golf, soccer, swimming and diving, tennis, track and field, and water polo. Women's teams are sponsored in basketball, cross-country, golf, lacrosse, soccer, softball, swimming and diving, tennis, track and field, volleyball, and water polo. The University of Redlands is associated with and competes nationally under the direction of Division III of the National Collegiate Athletic Association (NCAA), and is a member of the Southern California Intercollegiate Athletic Conference (SCIAC). For information on eligibility to participate in Intercollegiate Athletics, please refer to "Athletic Eligibility" in the Academic Standards chapter of this *Catalog*.

Students who participate on an intercollegiate team may earn 1 activity credit in Physical Education. This activity credit does not fulfill any requirements for the Physical Education minor.

PEAC BB-M	Baseball: Men
PEAC BK-M	Basketball: Men
PEAC BK-W	Basketball: Women
PEAC CC-M	Cross-Country: Men
PEAC CC-W	Cross-Country: Women
PEAC FB-M	Football: Men
PEAC GF-M	Golf: Men
PEAC GF-W	Golf: Women
PEAC LA-W	Lacrosse: Women
PEAC SB-W	Softball: Women
PEAC SC-M	Soccer: Men
PEAC SC-W	Soccer: Women
PEAC SW-M	Swimming and Diving: Men
PEAC SW-W	Swimming and Diving: Women
PEAC TF-M	Track and Field: Men
PEAC TF-W	Track and Field: Women
PEAC TS-M	Tennis: Men
PEAC TS-W	Tennis: Women
PEAC VB-W	Volleyball: Women
PEAC WP-M	Water Polo: Men
PEAC WP-W	Water Polo: Women

Course Descriptions (PE)

110 Foundations of Physical Education and Sport. Fall (4).

Introduction to the historical and philosophical foundations of physical education

and sport. Includes an interpretive study and analysis of ethical decisions, current issues, organization, and administration of physical education and athletics. Career opportunities in the field are also discussed.

210 Social Sciences in Physical Education and Sport. Spring (4).

Introduction to the investigation of the social and psychological dimensions of sport. Theoretical considerations are supplemented by current literature from sociology and psychology. Some topics discussed include: performance anxiety, sport socialization, minorities and gender in sport, and motivation.

220 First Aid and CPR. Spring (3).

Practical "hands-on" course in the principles of basic first aid and emergency care. The American Red Cross requirements for certification in CPR and basic life support are also completed.

250 Methods of Teaching Team and Individual Sports. Fall (3).

Designed to instruct students in the methods of teaching individual and team skills. This includes teaching progressions and drill development. Prerequisite: PE 310 recommended.

260 Topics in Athletics and Physical Education. Fall (4), Spring (4).

Topics of current interest in athletics and physical education. Focus could be on history, evolution, philosophy, or any other appropriate area. Individual topics are chosen to reflect student interest and instructor availability.

310 Instructional Strategies for Physical Education. Spring (4).

Teaching strategies, techniques, and evaluation procedures in the field of physical education. Discussion focuses on lesson planning, unit planning, and class organization. Students then implement planning skills in a physical education setting.

320 Scientific Concepts for Physical Education and Sport. Fall (4).

Examination of the biological, physiological, and mechanical principles that govern all movement in physical activity, as well as adjustments and acclimatizations that accrue as a result of training and skill development. Prerequisite: BIOL 107 or by permission.

330 Enhancing Athletic Performance. Spring (3).

Undergraduate-level, 3-unit course designed to provide a comprehensive overview of strength/conditioning. Emphasizes exercise sciences (including anatomy, exercise physiology, and biomechanics) and nutrition, exercise technique, program design, organization, and administration, testing and evaluation. Prepares for CSCS and CPT certification examinations. By completing an additional internship, a 4th credit may be granted.

340 Care and Conditioning of Athletic Injuries. Fall (3).

Designed to give the future athletic trainer, coach, or physical education instructor a basic knowledge of the prevention, recognition, and/or care of athletic injuries. Topics offered include injury evaluation, treatment, taping, and protective techniques involved with today's young athletes. Laboratory work with the athletic trainer is required. Prerequisite: PE 320. Offered in alternate years.

350 Theories of Coaching. Spring (3).

Designed to introduce students to a variety of coaching theories, methods and techniques. Coaching roles are discussed, along with administrative organizational responsibilities. Practice and game planning in addition to ethics and coaching philosophy are also studied.

381 Special Internship: Physical Education. Fall (1-3), Spring (1-3).

Prerequisite: by permission. May be repeated for a maximum of 3 degree credits. CN only.

382 Special Internship: Coaching. Fall (2-4), Spring (2-4).

Experience in working as a coach or a coaching assistant in an athletic program for the duration of a sport's season. Prerequisite: by permission. May be repeated for a maximum of 4 degree credits. CN only.

383 Special Internship: Athletic Training. Fall (2-3), Spring (2-3).

Prerequisite: by permission. CN and EV only.

Physics

THE FACULTY

Alan J. DeWeerd
S. Eric Hill
Tyler E. Nordgren
Julie A. Rathbun

THE MAJORS

Physics investigates and models nature in the most precise and fundamental ways possible. It is a driving force in the continual scientific and technological revolutions that define the modern world. This program prepares students for work or graduate studies in physics, astronomy, engineering, and other technical fields. Major courses address theoretical and experimental aspects of Classical Mechanics, Quantum Mechanics, Electricity and Magnetism, and Statistical Mechanics and Thermodynamics. Additionally, advanced topics courses are offered such as Astrophysics, Relativity, and Condensed Matter. Students perform research in addition to coursework. There are opportunities to work with faculty in areas such as astronomy, planetary science, condensed matter, and optics.

The Physics department offers both Bachelor of Arts and Bachelor of Science degrees. Both majors offer training in the fundamentals of physics, from classical mechanics to quantum mechanics. We strongly recommend students begin either major with General Physics I (PHYS 231) as early as possible (ideally, during the first year). Four years from the beginning of the General Physics sequence are required to complete the requirements for the Bachelor of Science degree, but the Bachelor of Arts degree can be completed in three years.

Learning outcomes for these programs may be found at:
www.redlands.edu/academics/college-of-arts-sciences/undergraduate-studies/physics/9507.aspx.

The Bachelor of Arts

This program provides students with a basic understanding of the fundamentals of physics and allows them to choose which subjects to study at the advanced level. Students are encouraged to meet with physics faculty early

in their program in order to choose courses that will prepare them for their future goals.

Requirements

Physics† 31 credits

- PHYS 231 General Physics I (4)
- PHYS 232 General Physics II (4)
- PHYS 233 General Physics III (4)
- PHYS 391 Junior Seminar (2)
- PHYS 491 Senior Seminar (2)
- AND at least 15 additional credits at the 300 level

Math 16 credits

- MATH 121 Calculus I (4)
- MATH 122 Calculus II (4)
- MATH 221 Calculus III (4)
- MATH 235 Differential Equations (4)

The Bachelor of Science

This program offers advanced training in the fundamentals of physics. It is designed for well-prepared and highly motivated students, particularly those interested in further study of physics at the graduate level. After completing this program, students will be well grounded in classical and modern physics and equipped to choose a specialized area for further study and research.

Requirements

Physics† 43-45 credits

- PHYS 231-233 General Physics I, II, III (4 ea)
- PHYS 310* Electronics Applications (4)
- PHYS 331* Classical Mechanics (4)
- PHYS 332* Electricity and Magnetism (4)
- PHYS 341* Quantum Mechanics (4)
- PHYS 344* Thermal and Statistical Physics (4)
- PHYS 349* Advanced Experimental Physics (4)
- PHYS 391 Junior Seminar (2)
- PHYS 491‡ Senior Seminar (2)
- AND at least 2 credits of PHYS 378 or other department-approved research experience
- AND at least 3 additional credits at the 300 level

Math/Computer Science. . . . 28 credits

- ATH 121 Calculus I (4)
 - MATH 122 Calculus II (4)
 - MATH 221 Calculus III (4)
 - MATH 235 Differential Equations (4)
- AND

Three of the following:

- MATH 241 Linear Algebra (4)
- MATH 311 Probability (4)
- MATH 331 Numerical Analysis (4)
- CS 110 Introduction to Programming Using C++ (4)

Chemistry

- CHEM 131 General Chemistry (4)

† *Math co- and pre-requisites for Physics courses are given in the individual course descriptions.*

‡ *Satisfies WB requirement.*

* *These courses are offered every other year, so students should plan their schedules accordingly.*

ENGINEERING

Through the Engineering 3-2 Combined Degree program, the Physics B.A. can be paired with an Engineering B.S. from Columbia University. This program combines three years here at Redlands with two years at Columbia's School of Engineering. For more information, see the Engineering 3-2 Combined Degree entry in the Integrated Programs of Study section of this *Catalog*, and contact the program advisor listed there. Alternatively, a Physics bachelor's degree is good preparation for graduate study in various fields of Engineering.

THE MINORS**The Physics Minor**

A minor in physics can provide students with an understanding of the basic laws of the physical universe. When combined with a major in another science, students who minor in physics will be well prepared for graduate study in the sciences.

Requirements**Physics† 21 credits**

- PHYS 231 General Physics I (4)
- PHYS 232 General Physics II (4)
OR PHYS 220 and 221 Fundamentals of Physics I and II (4 ea)
- PHYS 233 General Physics III (4)
- 12 credits in 300-level courses (except PHYS 349)

Math 12 credits

- MATH 121 Calculus I (4)
- MATH 122 Calculus II (4)
- MATH 221 Calculus III (4)

The Astronomy Minor

Astronomy is the application of one or more of the physical sciences to the universe beyond the Earth. Astronomy has a vibrant amateur community whose interests and activities run the full range from simple stargazing to professional quality observation and research. The astronomy minor is intended for either non-science majors who wish to explore their astronomical interests, up to and including basic astronomical observation and research, or science majors who wish to augment their major through exposure to astronomy and the planetary sciences. Unless a student majors in one of the physical sciences, meeting the minimum requirements for the astronomy minor will not prepare one for graduate work in astronomy. However, it will allow one to develop a competence in the theories, tools, and techniques of astronomical discovery as used by professionals and amateurs alike.

Requirements† 22-24 credits**A. A minimum of 6 credits from the following list of introductory astronomy courses:**

- PHYS 102 Astronomy of Planets (4)
- PHYS 103 General Astronomy (4)
- PHYS 108 Astronomy Abroad,
May Term (3)
- PHYS 160 Topics in Physics and Astronomy (must be an astronomy topic) (3-4)

Physics

B. Either of the two introductory physics sequences:

- PHYS 231-232 General Physics 1 and II (calculus-based) (8) OR PHYS 220-221 Fundamentals of Physics I and II (algebra-based) (8)

C. Four credits from the following upper-level physics and astronomy classes:

- PHYS 360 Topics in Physics and Astrophysics (must be an astronomy topic) (4)
- PHYS 370 Independent Study or Research in Astronomy (may include a summer astronomy research program with a member of the Physics Department)

D. A minimum of four (4) additional credits from any course listed in Sections A or C

† Math co- and pre-requisites for Physics courses are given in the individual course descriptions.

Departmental Honors

The Physics Department offers honors to recognize outstanding student achievement as reflected by a major GPA of at least 3.5 and an excellent research project culminating in a Senior Thesis (PHYS 491) and a presentation. Students should consult with the department chair for requirements.

Single-Subject Teaching Credential

Students who wish to be certified to teach science should meet with an advisor in the School of Education for information concerning certification and the teacher education preparation program process. Most students complete the teacher preparation program, including student teaching, during a fifth year after graduation. Please refer to the School of Education section of this *Catalog* for a more detailed list of requirements.

Advanced Placement in Physics

Students who scored well on the Physics AP exams may receive credit and place out of introductory courses based on an interview with department faculty. There are two different exams in physics:

Physics B: Students who earned a score of three receive 0 to 8 credits, depending on

the results of an interview with department faculty. Scores of four or five earn 8 credits.

Physics C: Students who earn a score of three may receive 0 to 7 credits, depending on the results of a faculty interview. Scores of four or five earn 3 to 8 credits, depending on the results of the faculty interview.

Research

Research is an important component of a science student's experience at Redlands. Physics students can work with faculty during the school year for credit (PHYS 378) and during the summer when a number of research fellowship positions are available for students within the Stauffer Center for Science and Mathematics. They can also take advantage of summer programs offered by other institutions (such as Research Experiences for Undergraduates). Most students begin work in their sophomore or junior years that evolves into a senior thesis.

Students have joined faculty on research in areas such as Astronomy, Optics, and Surface Science. They have controlled telescopes remotely (such as the NASA IRTF in Mauna Kea, Hawaii and the VLA in Socorro, New Mexico), analyzed data from ground-based telescopes and satellites, and modeled volcanoes on other planets, the pulsation of variable stars, and star formation in other galaxies. Students have worked on a variety of laser and optical experiments, including light scattering, atmospheric optics, atom trapping, and optical tweezers. Recent surface science work has featured the development and construction of a Scanning Tunneling Microscope to investigate atomic-scale surface features and phenomena.

Course Descriptions (PHYS)

102 Astronomy of Planets.

Fall (4), Spring (4).

Introductory study of selected topics in planetary science. Basic information about the planets, moons, and other objects in our solar system will be covered. Additional possible topics include space exploration, planetary geology, search for life in the solar system, and planetary impact hazards. Includes lecture and laboratory components.

Prerequisite: competency in high school math (algebra, trigonometry, and geometry). Offered as needed.

103 General Astronomy. Fall (4), Spring (4). Introductory study of astronomy designed to acquaint the student with stars, black holes, galaxies, and the origin and present state of the universe. Students will learn about these concepts in the context of the scientific method. Laboratory is one day a week with occasional evening observing sessions. Includes lecture and laboratory components. Prerequisite: competence in high school algebra, trigonometry, and geometry. Offered as needed.

104 Elementary Physics. Fall (4), Spring (4). A presentation of basic concepts of physics such as force and acceleration, heat, electricity and magnetism, sound and light for liberal studies majors. Offered as needed.

105 Physics for Poets. Fall (4), Spring (4). Non-mathematical introduction to the major principles and concepts of physics and their historical development. The important philosophical and technical implications of classical and modern physics are treated. Offered as needed.

106 Physics Comes to Light. Fall (4), Spring (4). Introductory study of the physics of light. Students will learn about the production of light, the nature of color, everyday optical phenomena, vision, quantum mechanics, and relativity. Includes lecture and laboratory components. Prerequisite: high school algebra. Offered as needed.

107 Sound Physics. Fall (4), Spring (4). This is an introductory-level lab science course. Students will develop an understanding of the physical principles underlying the phenomena of musical acoustics: sound production, propagation, and perception. Includes lecture and laboratory components. Prerequisite: high school algebra. Offered as needed.

108 Astronomy Abroad. May Term (3). Astronomy is a scientific endeavor that has been pursued all over the Earth for thousands

of years. Astronomy Abroad classes take a group of students to a specific location on Earth to learn about the historical and modern astronomy that takes place there. Included are locations such as Hawaii, Italy, and Salzburg.

160 Topics in Physics and Astronomy. Fall (4), Spring (4), May Term (3). Astronomy is a vibrant science with new discoveries being made daily. As a study of the universe, many of these discoveries have broader impacts on our views about ourselves and our place in the world. Topics addressed vary by semester with an emphasis on current discoveries and inter-disciplinary implications. May be repeated for degree credit for a maximum of 12 credits, given different topics. Offered as needed.

211 Environmental Physics. Fall (4), Spring (4). Explores the physics of our environment, paying special attention to the human interaction with the natural environment. Covers such topics as weather, climate change, conventional and non-conventional energy production, air and water, pollution, and experimental techniques. Corequisite: MATH 121. Offered as needed.

220 Fundamentals of Physics I. Fall (4). Introduction to Newtonian mechanics, fluids, and thermodynamics. Includes lecture and laboratory components. Prerequisite: a college-level mathematics course or by permission.

221 Fundamentals of Physics II. Spring (4). Introduction to oscillations, waves, electricity, magnetism, optics, and modern physics. Includes lecture and laboratory components. Prerequisite: PHYS 220.

231 General Physics I. Fall (4). Quantitative study of classical Newtonian mechanics. Includes lecture and laboratory components. Pre- or corequisite: MATH 121 or MATH 119.

Physics

232 General Physics II. Spring (4).

Introduction to classical electricity and magnetism. Includes lecture and laboratory components. Prerequisite: PHYS 231. Pre- or corequisite: MATH 122.

233 General Physics III. Fall (4).

Introduction to geometric optics, wave optics, quantum mechanics, thermodynamics, and statistical mechanics. Includes lecture and laboratory components. Prerequisite: PHYS 231-232 or instructor's permission. Pre- or corequisite: MATH 221.

291-292 Physics Instructional Techniques. Fall (2-4), Spring (2-4).

Experience in classroom lecturing, experimental demonstration, construction and design of student laboratory experiments, tutoring, and individual instruction. This course may be associated with any 100- or 200-level physics course. Prerequisite: instructor's permission. Available concurrently with associated Physics courses.

310 Electronics Applications. Spring (4).

Instrumentation, transistor theory, integrated circuits, and fundamental analog and digital circuit design. Prerequisite: PHYS 221 or 232 or by permission. Offered in alternate years.

331 Classical Mechanics. Spring (4).

Applications of Newtonian mechanics to various systems, and introduction of calculus of variations and Lagrangian mechanics. This course acquaints students with mathematical techniques used to solve more realistic and complex problems. Prerequisite: PHYS 231. Pre- or co-requisite: MATH 235. Offered in alternate years.

332 Electricity and Magnetism. Fall (4).

Development and application of Maxwell's equations describing electromagnetic fields. Topics include boundary value problems, and dielectric and magnetic materials. Prerequisites: PHYS 232 and MATH 235. Offered in alternate years.

341 Quantum Mechanics. Fall (4).

Fundamentals of quantum theory. Includes development of mathematical formalism, application to two- and three-dimensional models, and a detailed treatment of the one-

electron atom. Prerequisites: PHYS 233 and MATH 235. Offered in alternate years.

344 Thermal and Statistical Physics. Fall (4).

Fundamental principles of classical thermodynamics and kinetic theory. Classical and quantum statistical properties of matter and radiation. Prerequisites: PHYS 233 and MATH 221. Offered in alternate years.

349 Advanced Experimental Physics. Fall (3).

Laboratory course in solid state, molecular, atomic, optical, nuclear, and particle physics. Prerequisite: PHYS 233. Offered in alternate years.

360 Topics in Physics and Astronomy. Fall (2-4), Spring (2-4).

Special topics in physics and astronomy not otherwise covered in the curriculum. Topics vary with semester and may include astrophysics, optics, computational physics, planetary science, relativity, and solid state physics. Prerequisite: PHYS 231-233 or instructor's permission. May be repeated for degree credit given a different topic. Offered as needed.

378 Physics Research. Fall (1-4), Spring (1-4).

Students can earn credits while gaining valuable research experience with faculty in the department. Contact individual faculty to discuss opportunities. May be repeated for degree credit. Prerequisite: instructor's permission. Offered every year. CN and EV only.

391 Junior Seminar. Spring (2).

Students develop the skills for communicating scientific knowledge, scientific reading, writing, and presentation skills. They read and discuss scientific articles, write papers, and give presentations. EV only.

491 Senior Seminar. Spring (2).

Development of written and oral communication skills. Preparation and presentation of a senior thesis. Prerequisite: Junior Seminar. EV only.

THE FACULTY

Susan B. Goldstein
 Thomas F. Gross
 Jessica Hehman
 Celine Ko
 Fredric E. Rabinowitz
 Cheryl A. Rickabaugh
 Catherine Salmon
 Francisco Silva
 Kathleen Silva

THE MAJOR**Bachelor of Arts**

Majors must complete a senior capstone and a minimum of ten courses in psychology, seven of which must be in residence.

Learning outcomes for this program may be found at:

www.redlands.edu/academics/college-of-arts-sciences/undergraduate-studies/psychology/9509.aspx.

Required courses:

3 courses 12 credits

- PSYC 100 Introduction to Psychology (4)
- PSYC 250 Statistical Methods (4)
- PSYC 300 Research Methods (4)

Intermediate courses:

3 courses 12 credits

- PSYC 210 Personality Theories (4)
- PSYC 220 Exceptional Child (4)
- PSYC 252 Culture and Human Behavior (4)
- PSYC 260 Topics in Psychology (4)
- PSYC 320 Psychology of Gender (4)
- PSYC 335 Developmental Psychology (4)
- PSYC 343 Educational Psychology (4)
- PSYC 344 Abnormal Psychology (4)
- PSYC 349 Social Psychology (4)
- PSYC 350 Evolutionary Psychology (4)
- PSYC 352 Human Sexuality (4)
- PSYC 355 Psychology of Prejudice and Discrimination (4)
- PSYC 360 Advanced Topics in Psychology (4)

Advanced Courses:

3 courses 12 credits

These courses generally have an empirical component involving data collection, analysis, interpretation, and a written report.

- PSYC 435 Cross-Cultural Psychology (4)
- PSYC 439 History and Systems (4)
- PSYC 440 Counseling (4)
- PSYC 441 Learning (4)
- PSYC 445 Cognitive Development (4)
- PSYC 447 Cognitive Psychology (4)
- PSYC 448 Psychological Testing (4)
- PSYC 450 Health Psychology (4)
- PSYC 452 Evolutionary Psychology Research (4)
- PSYC 460 Advanced Topics in Psychology (4)

Electives:

1 course 3-4 credits

Students may select the tenth course from any 3- to 4-credit course in psychology. This may also include the cross-listed courses of:

- BIOL 104 Introduction to Neuroscience (4)
- BIOL 326 Neuroscience (4)

Please see the Biology section of this Catalog for course descriptions and prerequisite requirements.

Capstone:

In addition to these ten courses, students must complete at least one semester of:

- PSYC 473 Senior Research Seminar (2)
 OR PSYC 487 Senior Field Placement (2)
 OR a research project in the form of a directed study at the senior level, or honors

Students planning to study abroad should contact their advisor early to coordinate this experience with the major program sequence. The department supports and encourages cross-cultural studies.

THE MINOR

The minor in psychology consists of a minimum of six courses, four of which must be in residence. It is recommended that students take PSYC 100 first, as it is a prerequisite for most psychology classes. PSYC 250 and 300 are not required for the minor, however, they are prerequisites for all 400-level courses.

Psychology

Advanced Placement in Psychology

Students who receive a score of four or five may enroll in courses that list PSYC 100 as a prerequisite and will receive 4 credits for PSYC 100.

Departmental Honors

A departmental honors program that involves an exceptional senior project is available for qualified and motivated students. Admission to the program might come by departmental invitation or, should students initiate their own applications, with sponsorship by the psychology faculty. Interested students should consult their advisors for information about application procedures and requirements.

Course Descriptions (PSYC)

Students who do not meet prerequisites must obtain permission from the instructor prior to enrolling.

100 Introduction to Psychology.

Fall (4), Spring (4).

Survey of classic and contemporary theory and research in human and animal behavior. Topics include the biopsychological bases of behavior, learning, cognition, motivation, developmental and social processes, and psychological disorders and their treatment.

210 Personality Theories.

Fall (4), Spring (4).

Survey of major paradigms of personality theories emphasizing different perspectives on the structure, dynamics, functions, and development of the normal personality. Prerequisite: PSYC 100 or by permission.

220 Exceptional Child. Fall (4).

Nature, determinants, and problems of gifted, mentally retarded, and sensory and physically disabled children. Prerequisite: PSYC 100 or by permission.

250 Statistical Methods.

Fall (4), Spring (4).

Introduction to the use of descriptive and inferential statistics in the collection of data and the interpretation of research in

psychology and education. Prerequisite: PSYC 100 or by permission.

252 Culture and Human Behavior.

Spring (4).

This course focuses on the role of culture in human behavior. Attention is given to (1) the conceptual, ethical, and methodological challenges involved in making cross-cultural comparisons, (2) understanding how psychological inquiry is informed by a cultural perspective, and (3) applying psychological principles in order to understand and improve intercultural interaction. Prerequisite: PSYC 100 or by permission. Note: Students who receive credit for this course may not receive credit for PSYC 435, Cross-Cultural Psychology.

260 Topics in Psychology.

Fall (4), Spring (4).

Topics of current interest in psychology that fall outside the regular curriculum. Recent offerings have included sports psychology, learning research, and Jews, Muslims, and Basques: their sociocultural contributions to Spain. Prerequisite: PSYC 100 or by permission.

300 Research Methods. Fall (4), Spring (4).

Study of scientific methods in psychology, including descriptive, correlational, and experimental approaches, with emphases on artifacts, biases, and ethical issues in psychological research. Prerequisites: PSYC 100 and 250 or by permission.

320 Psychology of Gender. Fall (4).

Survey of biological, psychological, and socio-cultural issues relevant to the psychology of gender. Emphasis on cultural images of men, women, and children; gender differences and similarities; gender-role socialization; sexuality and reproduction; psychological adjustment; and interpersonal relations. Prerequisite: PSYC 100 or by permission.

335 Developmental Psychology.

Fall (4), Spring (4).

Survey of normal developmental patterns from infancy to old age and theories of development with emphasis on current literature. Prerequisite: PSYC 100 or by permission.

343 Educational Psychology. Spring (4).

Emphasis on psychological theories and research relevant to education and the identification of solutions to practical problems in various types of educational settings. Prerequisite: PSYC 100 or by permission.

344 Abnormal Psychology.**Fall (4), Spring (4).**

Survey of current theories of abnormal behavior with emphasis on the role of the psychologist in diagnosis, research, and treatment, as well as an understanding of the ethical and societal concerns related to psychiatric and behavioral disorders. Prerequisite: PSYC 100 or by permission.

349 Social Psychology. Spring (4).

Survey of the effect of social environment and social interaction upon individuals' perceptions of themselves and others. Topics include self-perception, interpersonal perception, social influence, (e.g., conformity and persuasion), and social relations (e.g., aggression, altruism, and interpersonal attraction). Prerequisite: PSYC 100 or by permission.

350 Evolutionary Psychology. Fall (4).

The evolution of social behavior is the primary focus of this course. The first few weeks will be devoted to the study of evolutionary theory as it applies to behavior. We will cover parental care, parent-offspring conflict, sexual selection, sex differences, sexuality, altruism, and cooperation. Prerequisite: PSYC 100 or by permission.

352 Human Sexuality. Spring (4).

This course consists of an overview of the field of human sexuality, including how we evaluate the claims of sexuality research. If psychology is the study of human behavior, a better understanding of our sexual psychology is important to understanding the factors that shape and motivate behavior. Prerequisite: PSYC 100 or by permission.

355 Psychology of Prejudice and Discrimination. Spring (4).

This course focuses on psychological theory and research as a mechanism for understanding prejudice and discrimination. The class explores cases based on such dimensions

as gender, race/ethnicity, class, age, religion, sexual orientation, and physical ability in order to investigate the causes and consequences of, and interventions for, intergroup prejudice and discrimination. Prerequisite: PSYC 100 or by permission.

360 Advanced Topics in Psychology.**Fall (4), Spring (4), May Term (3).**

In-depth examination of contemporary topics in the field of psychology. Recent offerings have included psychology of criminal behavior and current issues in personality. Prerequisite: PSYC 100 or by permission.

435 Cross-Cultural Psychology. Fall (4).

The methods and issues involved in cross-cultural psychology. The first half is an exploration of cross-cultural methodology and an examination of the universality of psychological theory. The second half is a focus on how knowledge about cultural differences has been applied to situations of intercultural contact. Prerequisites: PSYC 100, 250, and 300 or by permission. Note: Students who receive credit for this course may not receive credit for PSYC 252, Culture and Human Behavior.

439 History and Systems. Fall (4).

A sampling of theoretical approaches throughout the history of psychology emphasizing understanding and evaluating psychological information in its historical context, and the development of an appreciation for the diversity of psychology. Prerequisites: PSYC 100, 250, and 300 or by permission.

440 Counseling. Fall (4), Spring (4).

Philosophy, theories, and applications of counseling and psychotherapy. Emphasis on developing basic counseling skills, learning professional ethics and standards, and exploring current theoretical models of counseling and their relation to the needs and trends within society. Prerequisites: PSYC 100, 250, 300, and 344 or by permission.

441 Learning. Fall (4).

Presentation of leading psychological, behavioral, and cognitive theories of how animals and humans adapt to changes in their environment. Prerequisites: PSYC 100, 250, and 300 or by permission.

Psychology

445 Cognitive Development. Spring (4).

Examination of theories of cognitive development, as well as changes in sensation, perception, memory, problem solving, and meta-cognitive processes across the life span. Prerequisites: PSYC 100, 250, and 300 or by permission.

447 Cognitive Psychology. Spring (4).

Examination of theoretical structures and processes underlying mental activity. Attention given to phenomena associated with perception, memory, concept formation, problem solving, and meta-cognition. Prerequisites: PSYC 100, 250, and 300 or by permission.

448 Psychological Testing. Fall (4).

Introduction to the construction and use of tests in psychology. Attention given to the meaningfulness and interpretation of test scores; the place of tests in clinical, educational, and industrial settings; and the ethics of evaluation and assessment. Prerequisites: PSYC 100, 250, and 300 or by permission.

450 Health Psychology. Spring (4).

Provides an overview of the field of health psychology. We will cover the history of health psychology, the major theories of the field, and the methods of applying health psychology knowledge to promoting health and preventing diseases. We will be focusing on individual, social, cultural, and economic factors in health. Prerequisites: PSYC 100, 250, and 300.

452 Evolutionary Psychology Research. Spring (4).

This course is designed to provide experience in conducting empirical research. This includes all the steps taken by graduate students/researchers, including: successful IRB application, data collection and analysis, and a formal written and oral presentation of the results. Prerequisites: PSYC 100, 250, 300 or by permission.

460 Advanced Topics in Psychology. Fall (4), Spring (4).

In-depth examination of contemporary topics in the field of psychology. Recent offerings include child psychopathology, psychology of the sex industry, and nature of human relationships. Prerequisite: PSYC 100, 250, and 300 or by permission.

473 Senior Seminar. Fall (2), Spring (2).

In-depth examination of contemporary topics in the field of psychology. Prerequisites: PSYC 100, 250, 300, and senior standing or by permission. NU only.

487 Senior Field Placement. Fall (2), Spring (2).

Placement with a business, community service agency, or research institute. Faculty and on-site supervision. Students complete a detailed journal on the experience and a presentation to the department faculty. The Community Service requirement can be met through an unpaid field placement at a non-profit agency. Prerequisites: PSYC 100, 250, 300, and senior standing or by permission. CN only.

Race and Ethnic Studies

THE DIRECTOR

Keith Osajima

THE FACULTY

Lawrence W. Gross

Jennifer Tilton

THE ADVISORY COMMITTEE

J. Henry Acquaye, Chemistry

Julius Bailey, Religious Studies

Rafat Fazeli, Economics

Susan B. Goldstein, Psychology

Priya Jha, English

Sheila Lloyd, English

LeelaadhavaRau, Campus Diversity and Inclusion

Ivonne Vailakis, Spanish

John Walsh, Religious Studies

Patricia L. Wasielewski, Women's Studies and Sociology and Anthropology

THE MAJOR

The major consists of 48 credits. Race and Ethnic Studies is an interdisciplinary and multi-disciplinary field of study. Requirements for the major are met through REST courses, cross-listed, concentration, and negotiable courses in other departments and programs. The major includes a foundation of core courses, a flexible area of emphasis where students pursue depth and concentration of knowledge in an area of their choice, breadth courses, and a capstone experience to integrate their studies.

Learning outcomes for this program may be found at:

www.redlands.edu/student-life/9511.aspx.

Bachelor of Arts

Core Requirements

2 courses 8 credits

- REST 120 Introduction to Race and Ethnic Studies (4)—An overview of the field, looking at the experiences of major race and ethnic groups in the United States through interdisciplinary lenses.
- REST 351 Race Theory (4)—Examines key theoretical perspectives in REST, with the goal of helping students develop the reading, analytic and writing skills needed to understand theory and how it can be applied to issues of race and ethnicity.

Area of Emphasis

5 courses minimum 20 credits

Majors must construct, in consultation with faculty and the director, an area of emphasis designed to develop depth and concentration of knowledge. Must include at least one REST methods course or other methods course appropriate to the area of emphasis.

All areas of emphasis and their course lists must be approved by the director.

Breadth Courses

4 courses minimum 16 credits

Majors, in consultation with faculty and the director, must take four courses selected to complement the area of emphasis.

Capstone Courses

2 courses 4-6 credits

- REST 401 Senior Capstone I: Project Design (2)
- REST 402 Senior Capstone II: Project Implementation (2-4)

Students should enroll in REST 401 in the first semester of their senior year. This 2-credit course will bring together all graduating majors and will be an opportunity to develop both common understanding of REST and individual senior projects tied to areas of emphases. In the second semester, students will enroll in REST 402 and work independently under the supervision of seminar faculty and faculty advisors to complete their senior project.

Race and Ethnic Studies

THE MINOR

6 courses minimum 24 credits

The minor consists of 24 credits. Students are required to take REST 120 Introduction to Race and Ethnic Studies (4). To ensure an interdisciplinary focus, students must select courses from two or more departments.

Registration Information

Each semester during registration, the Race and Ethnic Studies Program provides a current list of the REST concentration courses for the coming term. Because new courses (particularly Johnston courses and special topics courses in various departments) are likely to be added, this list will always have the most current course offerings. The current REST course list is posted on the Race and Ethnic Studies bulletin board in Larsen Hall, distributed to faculty advisors, and available from the director.

Concentration Courses

- ECON 340 Economics of Race and Gender (4)
- ENGL 233 African American Literature (4)
- ENGL 237 Immigrant Literature (4)
- ENGL 239 Chicana/o Literature (4)
- GOVT 208 California Politics (4)
- HIST 272 America and Asia (4)
- HIST 274 Vietnam (4)
- HIST 321 Civil War and Reconstruction (4)
- HIST 323 California (4)
- HIST 327 Modern African-American History (4)
- HIST 352 Africa and the Atlantic Slave Trade (4)
- JNST Selected courses each year
- PSYC 252 Topics in Psychology: Culture and Human Behavior (4)
- PSYC 355 Topics in Psychology: Psychology of Prejudice and Discrimination (4)
- PSYC 435 Cross-Cultural Psychology (4)
- REL 125 World Religions (4)
- REL 252 African-American Religion and Spirituality (4)

- SOAN 255 Peoples of the American Southwest (4)
- SOAN 328 Race and Ethnic Relations (4)

Negotiable Courses

Faculty members may be willing to negotiate special assignments or projects, which add race and ethnic emphases into a course. These negotiable courses can then count toward the REST major and minor. Students should negotiate special assignments or projects in consultation with the instructor and the Race and Ethnic Studies director. Such negotiations should take place early in a semester or May Term to ensure that the course will be counted toward the major or minor.

Program Honors

Students with excellent records of academic achievement (GPA of 3.3 or higher in the major) may apply for program honors during the second semester of their junior year, and no later than the sixth full week of their first semester as a senior. Candidates must submit a proposal describing project goals, methods, time line for completion, and annotated bibliography. Proposals are reviewed and approved by REST faculty. Completion of approved honors projects is overseen and evaluated by a faculty committee. Honors candidates are expected to make a public presentation of their work. For details about application process and criteria, please see the program director.

Individualized and Specialized Study

Directed studies and internships can be arranged through Race and Ethnic Studies, and a number of departments including Art, Communicative Disorders, Economics, Education, History, Religion, Sociology and Anthropology, Spanish, and Women's Studies. In addition, specialized courses might be offered on a one-time or as-needed basis during May Term or through the Johnston Center.

Course Descriptions (REST)

120 Introduction to Race and Ethnic Studies. Fall (4), Spring (4).

Examination of the historical and contemporary experiences of racial and ethnic groups in the United States. Topics include dimensions of racism and discrimination in American society, the interrelated experiences of racial groups, community-building and cultural development, and movements for social change.

130 Introduction to Native American Studies. Fall (4).

This course provides an understanding of the history, culture, and current concerns of Native Americans. Traditional aspects of Native American cultures such as art and religions are explored, as well as topics affecting Native Americans today. The course also examines the influence of Native Americans on current American society.

160/260/360 Topics in Race and Ethnic Studies. Fall (4), Spring (4).

Topics of current interest in race and ethnic studies. May be repeated for degree credit given different topics. Offered as needed.

220 Ending Oppression.

Fall (3), Spring (3), May Term (3).

Students will learn the theory and practice of Re-Evaluation Counseling and use the peer counseling tool to examine how various forms of oppression appear in society and impact their lives. May be repeated for degree credit for a maximum of 6 credits.

225 Juvenile Justice: Coming of Age From the Inside Out. Spring (4).

This course uses the juvenile justice system as a lens through which we can understand how race, class and gender shape coming of age in America. Students will learn about the juvenile justice system from the inside out in a shared classroom with young men who are incarcerated in San Bernardino.

230 Race and the Law. Spring (4).

Provides a survey of the role of race and ethnicity in the American legal system. Offered as needed.

232 Representing Race and Ethnicity in Film. Spring (4).

Explores the important role that dominant and alternative film practices have played in revealing, defining, and negotiating our understandings of race and ethnicity. Offered as needed.

234 Race, Ethnicity, and Religion.

Fall (4).

Examines ethnicity, race, and religion as constituents of personal and communal identity within a variety of religious traditions. Offered as needed.

235 Hip Hop and Racial Politics. Fall (4).

This course will examine the race and gender politics of hip hop, from its roots in U.S. cities and the black diaspora to its status as global popular culture today. We will explore how hip hop redefines and reproduces our cultural understanding of race, gender, sexuality, and social class.

240 Chicana/o Art. Fall (4), Spring (4).

Introduction to contemporary Chicana/o art. Intersections of art and politics, as well as questions of race, class, gender, sexuality, religion, and culture will guide discussions of how Chicana/o art is viewed or ignored in contemporary American culture. Discussion on form as it relates to content, emphasizing visual analysis. Offered as needed. NU or EV only.

245 Race and Science. Fall (4), Spring (4).

This course examines the last 200 years of the scientific study of race in Western Europe and the United States. A historical approach is taken through studies of contemporary issues which will be examined with the unique perspective that the historical analysis allows.

315 Race and Education.

Fall (4), Spring (4).

Explores issues of race and racism in the public schools and examines strategies used to address educational inequalities.

330 Race in the City. Fall (4), Spring (4).

This class examines how race and class have been built into urban and suburban spaces in the U.S. and offers students a variety of opportunities to explore, research and map

Race and Ethnic Studies

the cities we live in. Prerequisite: REST 120 or by permission.

335 Race, Gender and Public Policy. Fall (4).

This class explores the connection between race, gender and public policy making in America past and present. We will focus on specific case studies of welfare systems, foster care, housing or criminal justice systems, and explore race and gender inequalities. Offered in alternate years.

342 Race and Social Protest. Spring (4).

Explores how people of color collectively mobilized and re-shaped social/political attitudes and forms of civic participation while challenging patterns of racism in search of social equality. Students study various ideological perspectives, leadership styles, and political events that influenced the civil, feminist, labor, and human rights movements. Offered in alternate years.

345 Whiteness and Anti-Racism.

Fall (4), Spring (4).

The course examines the social construction of whiteness and traces how whites are implicated in the formation and continued existence of racism. The course also explores how whites have and can be effective allies in anti-racist activities. Prerequisite: REST 120 or by permission. Offered as needed.

346 Native American Religions and Worldviews. Fall (4).

This course examines the varieties of Native American religions in their traditional setting and modern manifestations. For traditional Indian religions, the relationship between philosophy, land, and culture are explored. For modern-day practices, Indian Christian thought, the Native American church, and issues related to cultural survival are examined.

351 Race Theory. Spring (4).

Examination of theoretical perspectives on race and racism. Through close readings of texts and seminar discussion, students will develop comparative analytic skills needed to chart the theoretical contours of the field. Topics may include the social construction of race, globalization and race, and intersections

of race, class, and gender. Prerequisite: REST 120 or by permission.

401 Senior Capstone I: Project Design. Fall (2), Spring (2).

The first of a two-semester capstone experience for REST majors. Designed to help students build upon, integrate, and extend previous REST work through the design and development of a proposal for a capstone project. Prerequisite: REST 120 or by permission. Offered as needed.

402 Senior Capstone II: Project Implementation. Fall (2-4), Spring (2-4).

The second of a two-semester capstone experience. During this semester, students will complete the capstone project that was designed in REST 401. Students are also expected to prepare a presentation of their work. Prerequisite: REST 120 or by permission. Offered as needed.

THE FACULTY

Julius Bailey
 Karen Derris
 Frances Grace
 William B. Huntley
 Lillian Larsen
 John Walsh

THE MAJOR

The study of religious traditions explores the religious beliefs, actions, and cultural practices of individuals and communities across the world and throughout history. Through the course of their studies, our students gain an inter-cultural literacy and an appreciation for the world views of other peoples and cultures, as well as their own. Religious Studies courses approach the study of religion from a variety of disciplinary perspectives. Students are invited to critically consider the spiritual, historical, literary, ethical, doctrinal, contemplative and social dimensions of religious people and cultures. Through engaging the study of religions in an academic context, we seek to generate respect for the religious lives of all traditions. While many students find the study of religion is important for reflecting upon their own religious identity, no particular religious position is privileged or assumed in any of our courses.

Learning outcomes for this program may be found at:
www.redlands.edu/academics/college-of-arts-sciences/undergraduate-studies/religious-studies/9513.aspx.

Bachelor of Arts

A major consists of ten courses and the senior capstone. The ten courses are to be fulfilled from the categories listed below.

One introductory course in Foundations of Religious Studies:

Foundational courses provide students with a framework for understanding religious traditions and introduce students to the methods and approaches to the study of religion.

- REL 101 Issues in Modern Religion (4)
- REL 125 World Religions (4)
- REL 131 Religion in America (4)
- OR the equivalent determined in consultation with a departmental advisor

Two courses in Cultures and Communities:

Courses in cultures and communities introduce students to the diverse worlds in which religious communities have found—and continue to find—their form.

- REL 126 Asian Religions in Southern California (4)
- REL 199 New Religious Movements (4)
- REL 208 Church History: The Politics of Heaven and Hell (4)
- REL 233 Buddhisms (4)
- REL 245 Lesbians, Gays and Religious Controversies (4)
- REL 251 Women, Sexuality and Western Religion (4)
- REL 252 African-American Religion and Spirituality (4)
- REL 325 Japanese Religion and Arts (4)
- REL 351 Women, Sexuality, and Buddhist Traditions (4)
- REST 234 Race, Ethnicity and Religion (4)
- OR a topics course approved by departmental advisor

Two courses in Texts and Contexts:

Texts and contexts courses invite students to engage in close and contextualized analysis of the textual traditions of a given religious tradition.

- REL 206 Jesus in Text and Film (4)
- REL 241 Ancient/Biblical Hebrew (take 2 course sequence, 2 credits each) (4)
- REL 242 Hellenistic/Biblical Greek (take 2 course sequence, 2 credits each) (4)
- REL 292 Sacred Life Stories in Asian Religious Traditions (4)
- REL 307 Old Testament Literature: Hebrew Scriptures (4)
- REL 308 The Christian Scriptures (4)
- REL 330 Buddhist Literary Imagination (4)
- ENGL 118 The Literature of the Bible (4)
- OR a topics course approved by departmental advisor

Religious Studies

Two courses in Religion and Ethics:

Ethical teachings and practices are central to every religious tradition. The study of religious ethics provides us with resources for addressing ethical crises in the world today.

- REL 120 Religion and Ethics (4)
- REL 122 Religion and Ecology: Environmental Ethics (4)
- REL 250 Compassion (4)
- REL 257 Science and Religion (4)
- REL 293 Healing and Wholeness: Exploring Psychology and Religion (4)
- REL 323 Mysticism (4)
- SOAN 232 Saints, Sects, and Society (4)
- WGST 350 Feminist Ethics (4)
- OR a topics course approved by departmental advisor

In order to construct a course of study with sufficient breadth and depth, of the ten courses drawn from these categories, at least one 200 level (or above) focusing upon non-Western religions must be taken.

Three Electives:

Three additional courses selected from the list above or a semester abroad program chosen in consultation with an advisor in the Religious Studies Department. REL 450 (2 credits) may be taken twice to count for one of the elected courses, as may other 2-credit REL classes.

Capstone Requirement:

Two Senior Seminars:

- REL 490 (taken the Fall semester of the senior year)
- REL 495 (taken the Spring semester of the senior year)

Senior Religious Studies minors, Johnston seniors, and seniors from interdisciplinary programs may request permission to enroll in these seminars.

Capstone Project:

ONE of the following two Capstone Projects (specific guidelines and deadlines available for each option in the department office):

- **Senior Thesis/Project:** Substantial research paper that offers an original and in-depth examination of a topic approved by the student's advisor.

- **Internship:** Reflective engagement in a meaningful off-campus site of service or ministry, approved by one's advisor. Examples are a religious organization (church, temple, mosque, monastery), government agency, or non-profit organization. Students are encouraged to find a site that expands their learning related to an anticipated profession. The internship is meant to be in addition to the CSAC graduation requirement. Eighty hours are required, or the equivalent in consultation with one's advisor.

THE MINOR

At least one must be taken from each of the categories below.

- REL 101, 125, 131, or the equivalent determined in consultation with a departmental advisor
- **One course in Cultures and Communities:** REL 126, 199, 206, 233, 245, 251, 252, 325, 351, REST 234 or a topics course approved by departmental advisor
- **One course in Texts and Contexts:** REL 241, 242, 292, 306, 307, 308, 330, ENGL 118, or a topics course approved by departmental advisor
- **One course in Religions and Ethics:** REL 120, 122, 250, 257, 293, 323, WGST 350, or a topics course approved by departmental advisor
- **Two additional courses** in consultation with a departmental advisor. 2-credit courses such as REL 450 may be taken twice to count as an elective for the minor.

Study Abroad

Students majoring or minoring in religious studies will find it especially useful to complement the courses above by a year or semester of study abroad. Many institutions in Europe, Asia, and Australia have offerings in religious studies. Among the more valuable are the courses in Old Testament, New Testament, and Islamic studies from the University of Edinburgh and the University of Aberdeen under the Arcadia program. For Buddhism, consider the School for International Training (SIT) programs in Thailand; and, for Tibetan

studies, the programs offered by SIT in India and Nepal.

Departmental Honors

Requirements:

- 3.45 cumulative GPA
- Highly motivated and accomplished Religious Studies major
- Submission of Honors Thesis Proposal by October 1
- Formation of a Faculty Committee (three members) for the Honors Thesis who will have the opportunity to give feedback at timely intervals of the project
- Submission of draft of Honors Thesis by February 1, public presentation of the Honors Thesis and final evaluation for granting honors by faculty committee

Course Descriptions (REL)

101 Issues in Modern Religion.

Spring (4).

Introduction to issues deriving from the beliefs, teachings, and practices of religion in modern Western cultures and examination of the influence of religion in modern life. May be repeated for degree credit for a maximum of 8 credits with permission of the instructor and the department chair.

120 Religion and Ethics. Fall (4).

Exploration of religious ethics in relation to contemporary issues in politics, medicine, biology, and law.

122 Religion and Ecology: Environmental Ethics. Spring (4).

Consideration of the environmental crisis from a religious perspective, and a search to understand why ecology is a problematic concern within religion. Evaluation of theological, philosophical, and sociological factors which shape the various religious responses to ecological concerns.

125 World Religions. Fall (4), Spring (4).

By studying major religious traditions of the world, students will consider how religious traditions guide the way people live their lives in an ever-increasingly diverse and religiously pluralistic world. Investigations will include

both historical studies and the writings of religious traditions.

126 Asian Religions in Southern California. May Term (3).

Exploration of the dynamic Asian religious landscape of Southern California. Focus upon the preservation and transformation of received traditions as religious communities develop in Southern California. Consideration of the religious lives and experiences of immigrant communities and converted practitioners of Buddhism, Hinduism, and Taoism. Offered as needed.

131 Religion in America.

Fall (4), Spring (4).

Exploration of religion in America from the pre-colonial era to the present. Emphases will vary, drawing from a variety of religious communities (including Puritan, Native American, Muslim, Buddhist, African American, Hindu, Evangelical, Catholic, and Neo-Pagan) and issues (such as civil rights, "cults," church/state, gender, race, and ethnicity).

160 Topics in Religion.

Fall (1-4), Spring (1-4).

Topics of current interest in religious studies. Course content varies from term to term. May be repeated for degree credit given a different topic. Offered as needed.

199 New Religious Movements.

Fall (4), Spring (4).

Offers an introduction to the variety of new religious movements. Examines the multiple ways these communities have been understood and what those constructions tell us about religion and identity. Offered as needed.

202 History of Judaism. Fall (4).

This course will use primary and secondary texts and stories to deepen students' understandings of the historical and cultural development of Judaism. Through close, critical reading, course lectures, in-class discussions and presentations, students will undertake intensive historical analysis of Jewish faith and practice in ancient, medieval and modern manifestations. Offered as needed.

Religious Studies

206 Jesus in Text and Film. Fall (4).

Study of the life and teachings of Jesus from canonical and extra-canonical literature. Prerequisite: one course in religious studies or by permission. Offered in alternate years.

208 Church History: Politics of Heaven and Hell. Spring (4).

Through studying key figures, movements, and themes, students will learn about the origins, historical development, major controversies, and emergent trends that shape the Christian teaching and praxis. Attention will be given to social, political, economic, global, and cultural analysis. Offered in alternate years.

210 Introduction to Meditation. Fall, Spring (2).

This course, which is primarily experiential, introduces students to a range of meditation methods and contemplative practices. CN only.

226 Religions in Europe. May Term (3).

Designed as a travel course for May Term journeys to European cities and dealing with several religions found there. A journal is required each day discussing readings done in preparation, interviews with locals, visits to churches, museums and marketplaces.

233 Buddhisms. Fall (4), Spring (4).

Considers the variety of ways that Buddhists have engaged with the "three jewels" of Buddhism: the Buddha, the Dharma (the teaching), and the Sangha (the Buddhist community). Examination of doctrine, practice, and culture in different parts of the Buddhist world in a variety of historical periods. Offered in alternate years. NU only.

241 Ancient/Biblical Hebrew. Fall (2), Spring (2).

Elementary Hebrew grammar and composition with emphasis on Biblical vocabulary and syntax. In this course, we will read, in Hebrew, the entire book of Ruth. This course will meet once a week for two consecutive semesters.

242 Hellenistic Greek. Fall (2), Spring (2).

This course will explore Hellenistic Greek grammar and composition with emphasis on Koine vocabulary and syntax. Ancient pedagogical strategies will be used to introduce

students to a range of Hellenistic, Jewish, Rabbinical, and Early Christian sources. The course will meet once a week for two consecutive semesters.

245 Lesbians, Gays, and Religious Controversies. Fall (4).

Lesbian/gay issues have sparked major controversies in Christianity and Judaism. Debates are emerging in Islam and other religions. Topics include: religious acceptance versus demands to change, sacred text interpretations, ordination, marriage/civil unions, parenting, hate crimes, sexuality education, political rights. Focus is on lesbian/gay approaches and responses.

250 Compassion. Spring (4).

Explores what it means to live a life of compassion through these lenses: 1) biographical models such as Gandhi, Nelson Mandela, The Dalai Lama, and Mother Teresa; 2) the compassion teachings of the world's religions; 3) first-person investigation of compassion practices. Offered as needed. NU only.

251 Women, Sexuality, and Western Religion. Spring (4).

Consideration of a range of women's roles in Western religions. Examination of tension between women's subordination and liberation in Christianity, Judaism, and Islam. Sources include Christian and Hebrew bibles, church fathers and mothers, new views of women's history and feminist analysis of religion, and contemporary goddess spirituality. Offered in alternate years.

252 African-American Religion and Spirituality. Fall (4), Spring (4).

Intermediate-level lecture and discussion course, which is an examination of religious themes in African-American experience, including slavery, Black Church denominations (mainstream and Holiness), Black Nationhood and civil rights movements, Black Muslims, Black and Womanist (Black feminist) theologies, African religions in the Americas (Santeria and Voodoo), and new spiritual visions. Offered in alternate years.

257 Science and Religion. Spring (4).

Exploration of differences as well as the intersections between the scientific and religious quests for ultimate truth. Emphasis will vary, including topics such as evolution and creationism, neuro-scientific experiments on religious experiences (e.g., love, forgiveness, altruism, healing, meditation), quantum mechanics, energy theories, Deep Ecology, human nature, and nature. Prerequisites: one course in religious studies and one course in science, or by permission. Offered as needed.

260 Topics in Religion. Fall (4), Spring (4).

Topics of current interest in religious studies. Course content varies from term to term. May be repeated for degree credit given a different topic. Offered as needed.

292 Sacred Life-stories in Asian Religious Traditions. Spring (4).

Sacred life-stories told in the form of biographies, hagiographies, or autobiographies offer their audiences—both historical and present-day readers—critical resources for understanding and interpreting religious worlds. Consists of a close reading of a broad range of life-stories from Buddhist, Hindu, and Chinese religious traditions. Offered in alternate years.

293 Healing and Wholeness: Exploring Psychology and Religion. Spring (4).

Examines religion from the viewpoint of psychology. Topics include the history of psychology and religion; biological foundations of religion; behavioral, correlational, and comparative theories of religion; meditation; religion and human development; mysticism; spirituality; humanistic approaches; and major psychological theorists (Jung, Fowler, James, Starbuck, Hall, Erickson, Maslow, Wilbur). Offered as needed.

307 Old Testament Literature: Hebrew Scriptures. Fall (4).

Close reading of selected books from Torah, prophets, and writings in English translation. The method is historical and literary with student compositions on a chapter in Genesis, a Biblical text about a woman, a psalm, and a book review of a modern feminist.

308 Christian Scriptures. Spring (4).

Situating canonical and extra-canonical texts within their Jewish and Greco-Roman frame, this course explores the complex social, cultural and historical fabric of the writings included in Christian Scripture.

323 Quest of the Mystic: The Inner Path. Spring (4).

Examines the intense inner quest and culminating spiritual realizations by mystics and sages found in every religion. The topic is explored through these three lenses: 1) biographical study of representative mystics; 2) comparative analysis of the teachings about Self-Realization, Enlightenment, Divine Union, states of consciousness, and spiritual evolution; 3) first-person investigation of contemplative methods recommended by the mystics under study. Prerequisites: one previous Religious Studies course and one course in Meditation. Offered as needed.

325 Japanese Religion and Arts. May Term (3).

This course will give students the opportunity to read about Japanese religions and art forms, then visit religious settings and museums. Meanwhile, we will be visiting Japanese schools and given the opportunity to teach Japanese children and university students by engaging in discussions.

330 Buddhist Literary Imaginations. Fall (4), Spring (4).

Examines how Buddhism is imagined and constructed in literary texts within and outside of Buddhist traditions. Readings from both Buddhist literature and modern fiction from around the world about Buddhism are used in order to explore Buddhist social, ethical, and historical realities. Prerequisite: sophomore standing or by permission. Offered in alternate years.

351 Women, Sexuality, and Buddhist Traditions. Fall (4).

Exploration of the diverse roles and representations of women in multiple Buddhist traditions, past and present. Special attention is given to the historical agency of Buddhist women in shaping Buddhist traditions and

Religious Studies

in creating possibilities for various forms of participation in these institutions throughout the Buddhist world. Offered in alternate years.

411 Masterpieces of Asian Literature.

Spring (4).

Classics from Asian literature which treat religious themes, such as the Dhammapada, the Ramayana, the Tale of Genji, and the Sound of the Wave. Major focus on Indian and Japanese literature. Offered as needed.

450 Jameson Center Colloquia.

Fall (2), Spring (2).

A student enrolled in this course will participate in all the Monday afternoon colloquia of the Jameson Center for the Study of Religion and Ethics. A faculty associate of the Jameson Center will supervise participation, including negotiation of a contract for the student's responses to the colloquia. May be repeated for degree credit for a maximum of 8 credits. CN only.

490 Senior Seminar. Fall (2).

The Senior Seminar is designed to allow students to synthesize their training in Religious Studies and to complete their capstone project. Prerequisite: Religious Studies major or minor or by permission.

495 Senior Seminar. Spring (2).

The Senior Seminar is designed to allow students to synthesize their training in Religious Studies and to complete their capstone project. Prerequisite: Religious Studies major or minor or by permission.

Sociology and Anthropology

THE FACULTY

Wesley Bernardini
 Kimberley Coles
 Sawa Kurotani
 Sharon D. Lang
 William Rocque
 Sara Schoonmaker
 James V. Spickard
 Patricia L. Wasielewski

THE MAJOR

Students in the department may concentrate their studies in either sociology or anthropology. When officially declaring a major, students choose their concentration. A total of 44 credits is required in the major. No more than four of the major courses may be taken at other schools.

Learning outcomes for this program may be found at:

www.redlands.edu/academics/college-of-arts-sciences/undergraduate-studies/sociology-anthropology/9515.aspx.

Bachelor of Arts

All students must take the following:

Major requirements 44 credits

Core courses:

- SOAN 100 Introduction to Sociology (4)
- SOAN 102 Introduction to Cultural Anthropology (4) OR SOAN 104 Introduction to Archaeology (4)
- An appropriate 300-level methods course (SOAN 300-309 or SOAN 323)
- An appropriate 300-level theory course (SOAN 390-399)
- 400-level topics course (SOAN 460 or SOAN 465) OR an honors thesis

Electives:

- Two SOAN courses at the 200 level
- Sufficient electives at the 300 or 400 level to bring the total up to 44 credits, to be selected in consultation with the major advisor

Courses taken with departmental faculty through interdisciplinary programs such as Johnston Center may be counted toward

these requirements with the permission of that faculty member or the department chair.

Freshman/Sophomore year:

SOAN 100, 102, and 104 typically are taken before the end of the sophomore year.

Junior year:

Take the theory and methods courses by the Spring semester of the junior year to prepare for upper division coursework.

Senior year:

SOAN 460, SOAN 465 or honors thesis is taken in Fall, Spring or May Term of the senior year.

THE MINOR

Seven courses, each taken for 3 credits or more totaling a minimum of 21 credits are required for a minor in sociology and anthropology.

Required courses:

2 courses 8 credits

- SOAN 100 Introduction to Sociology (4)
- SOAN 102 Introduction to Cultural Anthropology (4) OR SOAN 104 Introduction to Archaeology (4)

In addition to the required courses, students must take five additional SOAN courses (two 200-level and three 300-/400-level) selected in consultation with the departmental faculty.

No more than three of these courses may be taken at other schools. Courses taken with departmental faculty through Johnston Center may be counted toward these requirements with the permission of that faculty member or the department chair.

Internship

Students in both the major and minor programs are encouraged to take advantage of internship opportunities. Students can choose to work in numerous public and private community-service agencies, grass roots organizations, or museums. A maximum of one internship, taken for 3 credits or more, may be used to fulfill the major or minor requirements.

Sociology and Anthropology

Cross-Cultural Study

The department is dedicated to providing students with information about cross-cultural opportunities. Enhanced knowledge about other countries and their cultures, or about subcultures within the United States, provides a more comprehensive understanding of society. Majors are strongly encouraged to participate in one of the University's off-campus study programs. The department also will work independently with students to set up opportunities for foreign and domestic travel which reflect particular programs of study and interests.

The Helen and Vernon Farquhar Laboratory

The department maintains the Helen and Vernon Farquhar Laboratory of Anthropology. The laboratory is used to encourage student research in cultures and history of the American Southwest. Assistantships are available.

Departmental Honors

Students are required to have a 3.00 GPA in the major to pursue honors in the department. They begin to plan their projects in consultation with one or more permanent faculty members by the end of their junior year. They must submit proposals for their projects to the department chair by the end of September of their senior year. Honors proposals are reviewed by all department faculty. If approved, students complete a significant independent research project that typically takes a good portion of the senior year. The research must be substantial and significant and is subject to approval by the department faculty. A major written report is followed by a public presentation and oral examination. These must be performed at an honors level, as determined by the honors committee.

Course Descriptions (SOAN)

100 Introduction to Sociology.

Fall (4), Spring (4).

Study of the structure and process of social life; the impact of cultural, structural, and socio-historical forces on groups and society; and the interdependence of society and the individual.

102 Introduction to Cultural Anthropology. Fall (4), Spring (4).

Introduction to the anthropological perspective in viewing personal, social, and cultural events in human life. Attention given to evolutionary and comparative ways of describing, analyzing, and interpreting ways of life from a cross-cultural perspective.

104 Introduction to Archaeology. Fall (4).

An overview of human cultural evolution, from the earliest human ancestors through the diverse forms of social organization of recent human groups. Exploration of the causes of cultural change and lessons to be learned from the past about the nature of the human species and human society. Offered every year.

160, 260, 360, 460 Topics in Sociology. Fall (2-4), Spring (2-4).

Topics of current interest such as collective behavior, religion and social conflicts, sociology of medicine, sociology of disabilities, or sociology of sport. Prerequisite: by permission is required for the 400-level course. The 200 level and above may be repeated for degree credit given a different topic. Offered as needed.

165, 265, 365, 465 Topics in Anthropology. Fall (4), Spring (4).

Topics of current interest such as gender and feminist studies, archaeological frauds, medical anthropology, death and dying, and regional and social issues pertaining to the U.S., Asia, and the Middle East. Prerequisite: permission required for the 400-level course. The 200 level and above may be repeated for degree credit given a different topic. Offered as needed.

205 Social Issues. Fall (4).

Examination of important contemporary social issues in the United States. Focus on the interrelationship of social structures, institutions, and individuals in the production and management of these issues, as well as their individual and social consequences. Offered as needed.

206 Popular Culture. Fall (4).

Introduction to the analysis of popular culture; how the cultural products of post-industrial society shape and police the subjectivity of individuals; how people use, abuse, and subvert these cultural products to create their own meanings in efforts of self-determination. Offered as needed.

208 Business and Society. Fall (4).

Investigation of the impact of corporations in the context of technological change and global economic restructuring. Exploration of the changing organization of work and industry, as well as the effects of corporate strategies on social welfare, community, and family life. Offered as needed.

221 Rethinking Politics.**Fall (4), Spring (4).**

Introduces political relations and the relationship between culture and power through the detailed examination of politicized forms of power and their manifestations at the global, national, state, local, and personal level. Central themes will be equality and inequality, practices of belonging and exclusion, strategies and forms of domination and resistance, and shifts in legal and bureaucratic effects and practices. Offered in alternate years.

222 Development and Change in the Americas. Fall (4).

Explores the processes of development and social change in the Americas, in the historical context of capitalist transformation from colonialism to contemporary conditions of globalization. Strategizes ways to challenge existing patterns of global inequality by creating alternative forms of development and consciousness. Prerequisite: SOAN 100 or 102 or LAST 101.

230 Bodies and Society. Spring (4).

This course is an introduction to sociological thought about human bodies and their relationships to culture and society. We will place bodies at the center of our analysis, exploring their crucial sociocultural dimensions and critically examining the notion that the only disciplines fit to study bodies are biology and

medicine. Prerequisite: SOAN 100 or 102 or by permission.

232 Saints, Sects, and Society.**Fall (4), Spring (4).**

Religion plays a central role in all societies—and sociology helps us understand its role in the contemporary world. Why do certain types of people embrace religions, while others avoid them? Why has religion recently invaded politics? How is religion changing today? This course will explore these and other topics. Offered alternate years.

251 The Emergence of Civilizations.**Fall (4), Spring (4).**

Consideration of what civilization is, how it emerged, and why. Case studies of early civilizations of the Old and New Worlds, including Mesopotamia, Egypt, the Indus Valley, Mesoamerica, and Peru. Critical analysis of theories explaining the development of social complexity. Offered as needed.

255 Peoples of the American Southwest.**Fall (4), Spring (4).**

The greater American Southwest includes communities that are mosaics of culturally different lifestyles while sharing many common problems. This course examines the variety of responses to those problems and reflects the cultural similarities and differences of the peoples who live in the area. Prerequisite: SOAN 100, 102, or 104 or by permission. Offered as needed.

256 Japanese Society and Culture.**Fall (4), Spring (4).**

Introduction to the main aspects of Japanese society and culture, with an aim for an in-depth understanding of Japanese social and cultural life. Focus on central themes and issues that characterize contemporary Japanese society, including work, family, gender, cultural identity, and the impact of globalization. Prerequisite: one or more SOAN or AST (exclude language) course or by permission. Offered as needed.

257 Latin American Societies and Cultures. Fall (4), Spring (4).

An historical and comparative analysis of society, culture, and politics in a range of

Sociology and Anthropology

Latin American countries. Emphasis on the effects of global power relations on social and political institutions, as well as economic development. Exploration of relationships between racial and ethnic groups in Latin American societies. Prerequisite: SOAN 100 or 102, 104, LAST 101, or by permission. Offered as needed.

259 The Middle East. Fall (4), Spring (4). Students are encouraged to appreciate the dynamic cultural diversity of the Middle East through class discussions and a variety of films and readings, many of which come from indigenous sources. Exploration of vital and timely sociopolitical issues, including Islam, gender, nationalism, and the Israeli-Palestinian and other regional conflicts. Offered as needed.

261 Science vs. Pseudoscience. Fall (4), Spring (4).

This course explores the difference between scientific and pseudoscientific ways of knowing about the world. We will explore how knowledge is produced and evaluated with a focus on debunking popular pseudoscientific ideas. Case studies draw from archaeology and broader paranormal claims like ESP, UFOs and the Bermuda Triangle.

262 Native American Ceramics. Fall (4), Spring (4), May Term (3).

This class combines hands-on training in Native American pottery techniques with an introduction to archeological ceramic analysis. In the course of replicating prehistoric Southwestern Native American pottery, students will learn traditional hand-building pottery skills while at the same time gaining insights into the social significance of pottery.

269, 369, 469 Travel/Study in Sociology and Anthropology. May Term (3).

Travel/study tours to various world locales. Past locations have included Australia, England, Jamaica, Baja California, and southern Mexico. Focus typically on wider social processes present in the travel locale. Prerequisite: by permission. May be repeated for degree credit, for a maximum of 6 credits, given a different destination. Offered as needed.

300 Research Methods and Design.

Fall (4), Spring (4).

Critical analysis of research methodology involving both quantitative and qualitative approaches to the collection of data. Practical experience in data collection and analysis accompanies discussion of ethical issues. Prerequisites: SOAN 100, 102, or 104; and junior standing plus two SOAN courses at the 200 level or above; or by permission. Offered as needed.

301 Fieldwork and Ethnographic Methods. Fall (4), Spring (4).

Examination of the nature of ethnography and the application of fieldwork methods for the development of an ethnography. Emphasis on practicing the method of participant-observation for data formulation. Ethical and methodological issues of fieldwork are examined. Prerequisites: SOAN 100, 102 or 104; and two SOAN courses at the 200 level or above; or by permission. Offered as needed.

302 Quantitative Sociology.

Fall (4), Spring (4).

Introduction to quantitative social analysis, designed for the math-averse. Students learn the benefits and limits of numerical analysis, become familiar with the major public sources of quantitative data, and learn to use computers. Especially recommended for students intending to pursue graduate training. Prerequisites: SOAN 100, 102, or 104; and junior standing plus two SOAN courses at the 200 level or above; or by permission. Offered as needed.

303 World Ethnographies.

Fall (4), Spring (4).

Students gain a thorough understanding of the central methodological paradigms of anthropologists: participant observation. Students have the chance to deconstruct a number of full-length ethnographies with an eye toward comparing and contrasting the research methods and writing styles of various contemporary anthropologists. Prerequisites: SOAN 100, 102, or 104; and two SOAN courses at the 200 level or above; or by permission. Offered as needed.

304 Survey Research Methods.**Fall (4), Spring (4).**

Studies survey research methods and puts them into practice. Students construct a survey, choose a sample of respondents, administer the survey and analyze the data. Explores the process of data analysis using SPSS and reflects on the strengths and limitations of quantitative research to understand social life. Prerequisites: SOAN 100, SOAN 102 or 104, and two SOAN courses at the 200 level or above, or by permission. Offered as needed.

320 Self in Society. Fall (4), Spring (4).

Focus on the definition of the individual and the meaning of individuality in society. Concentration on the study of the "self" allows students to see how the individual is both created from, and a creator of, the social order. Language and basic processes of social interaction are explored. Prerequisite: SOAN 100 or 102 or by permission. Offered as needed.

321 Gender and Emotion.**Fall (4), Spring (4).**

Explores how ideas of gender and ideas of emotions co-construct existing inequalities and stereotypes in society. Focus is on the social definitions, constraints, displays and uses of emotions and how these articulate gendered identities. Prerequisites: SOAN 100 or 102 and SOAN 320 or by permission.

323 Mapping People Mapping Place.**Fall (4), Spring (4).**

The structure of the places we inhabit affects how we experience the world in profound ways: how we move around, how we interact with other people, even the way we conceptualize the world. We'll use geographic information systems (GIS) to explore the "science of space." Prerequisites: SOAN 100, 102 or 104; plus 2 SOAN courses at the 200 level or by permission.

324 Homelessness and Hunger in America. Fall (4).

This course explores the social, economic, and political causes of homelessness and hunger in the United States, mainly as a consequence of severe poverty. It combines

classroom study with field experiences and community service work in outside agencies dedicated to addressing this problem. Prerequisite: SOAN 100 or 102, or by permission. Recommended: Junior or Senior standing and at least one SOAN course 200 level or above or by permission. Offered in alternate years.

325 Class and Inequality.**Fall (4), Spring (4).**

Theoretical and substantive analysis of the major dimensions of economic inequality in industrial societies. The theoretical contributions from Marx and Weber to contemporary theory are used as context for the study of social stratification, social mobility, and changes in these processes in the United States, Western Europe, and socialist states. Prerequisite: SOAN 100 or 102 or by permission. Offered as needed.

326 Charity and Helping Others: Humanitarian Assistance.**Fall (4), Spring (4).**

Explores the history, animating ideals, and contemporary paradoxes of humanitarian action. Analyzes humanitarianism in the context of globalization, assessing its limits and possibilities with particular interest in its social and cultural relations: sovereignty, the ethics of giving care and bearing witness, the "aid business," and the role of the media. Prerequisite: an SE or CC LAF or by permission.

328 Race and Ethnic Relations.**Fall (4), Spring (4).**

Examination of the determinants of racial and ethnic relations in the United States and other countries. Analysis of socio-historical development and politico-economic structures that produce patterns of oppressive relations and minority reactions. Prerequisite: SOAN 100 or 102 or by permission. Offered as needed.

330 Crime and Delinquency.**Fall (4), Spring (4).**

Exploration of definitions of crime and delinquency and various explanations of criminal behavior. Emphasis on political and economic aspects of the criminal justice system as well

Sociology and Anthropology

as the history and application of different philosophies of punishment. Alternatives to the existing system are explored. Prerequisite: SOAN 100 or 102, or GOVT 111, or by permission. Offered as needed.

335 Sociology of the Family.

Fall (4), Spring (4).

Examines the family as a social institution shaped by systems of class, race, gender, and sexuality. Investigates social norms about gender roles, domesticity, the tensions between work and family life, and how they are experienced in the context of family rituals and relationships. Studies policies addressing contemporary family problems. Prerequisites: SOAN 100, 102, and one 200-level SOAN course or by permission. Offered as needed.

336 Consumers and Consumption.

Fall (4), Spring (4).

Explores consumption as a central dimension of capitalist society that shapes and is shaped by the actions of consumers and has both constraining and enabling qualities. Examines links between consumption in the context of globalization. Prerequisites: SOAN 100, 102, and one 200-level SOAN course or by permission. Offered as needed.

337 Ethnicity and Ethnic Conflict.

Fall (4), Spring (4).

Investigation of the social and political connections between modernization and the emerging politics of ethnicity on a worldwide scale. Examination of current examples of ethnic conflict and exploration of theoretical approaches to race, ethnicity, nationality, and the modernization process. Review of ethnic and anti-ethnic political movements in the United States and worldwide. Prerequisite: SOAN 100, 102 or by permission. Offered as needed.

338 Children and Youth.

Fall (4), Spring (4).

Examines childhood and youth as phases of social life actively constructed by young people and adults in context of structural inequalities of age, race, class, gender, and sexuality. Studies scholarly, popular cultural, and literary representations of the lives and

experiences of children and youth. Prerequisites: SOAN 100, 102 and one 200-level SOAN course, or by permission. Offered as needed.

339 Globalization and Its Critics.

Fall (4), Spring (4).

Globalization as an economic, political, social, and cultural process, developing in the historical context of colonialism and global power relations. Exploration of changing patterns of work, migration, and urbanization arising with the globalization of economic production, as well as the anti-globalization movement and other forms of resistance to globalization. Prerequisite: SOAN 100, 102, or by permission. Offered as needed.

341 Social Movements. Fall (4).

Theoretical and substantive analysis of collective action and social movements in the late twentieth century. Exploration of how, why, and when individuals come together to cause or prevent social change. Focus on how social movements gain public space and what happens when they do, both in the United States and around the world. Prerequisite: SOAN 100 or 102, or by permission. Offered as needed.

342 Gender and Sexuality.

Fall (4), Spring (4).

Gender and sexuality in various cultural areas around the world, and consideration of the significance and implications of gender and sexuality in the social life of these people, while introducing current theoretical issues in the cross-cultural study of gender and sexuality. Prerequisite: SOAN 100, SOAN 102, or WGST 120, or by permission. Offered as needed.

343 Community Social Change.

Spring (2-4).

Intensive study of the political and economic structure of communities and grass roots organizations for social change. Working with community members, students participate in and analyze ongoing community development projects. Prerequisites: SOAN 100 or 102, and junior or senior standing or by permission. Offered as needed.

344 Anthropology of Dance. Fall (4).

Based on anthropological texts, films, and performed live experiences, students take a look at who, when, where, how, and why people dance in order to gain an understanding of the meanings of dance within a society. Specific topics include revolutionary politics and dance, dance as embodied knowledge, and exotic dance. Prerequisite: SOAN 102 or by permission. Offered as needed.

345 Interrogating Masculinity. Fall (4).

Exploration of Western thought about masculinities. Examines the relationship between masculinities and femininities, power, class, race, disability, sexual orientation, and popular culture. Issues under consideration include the negotiation of gender and sexual identity, work/family conflicts, violence and dating. Prerequisite: SOAN 100 or 102, one 200-level SOAN course, or by permission.

347 Visual Ethnography. May Term (3).

Explores the use of visual media in ethnographic research, including past and current trends in ethnographic photography and film, cultural and aesthetic analysis, ethnographic field trips to local sites, digital lab work and the completion of an ethnographic project using still photography. Students will improve their camera skills. Prerequisite: SOAN 102 or VMS 101 or by permission. Offered in alternate years.

350 Archaeological Field School. Spring (4).

Intensive training in archaeological field methods through participation in ongoing field research. Includes archaeological survey and/or excavation, mapping, artifact recording, and analysis. Prerequisites: SOAN 104, 251, 255, or by permission. Offered as needed.

352 Who Owns the Past? Spring (4).

Discussion of political issues involved in the practice of archaeology. Topics include the relationship between archaeologists and indigenous peoples, looting and the antiquities market, and museum ethics. Ideas under consideration are who owns the past and who has the right to write history. Offered in alternate years.

367 The Archaeology of Social Transformation. Fall (4).

Change is a persistent quality of human existence. But, what is social change, and how do we identify, explain, and interpret social change over time? We'll explore factors that encourage the expansion of human societies and contribute to their collapse, including the environment, religion, disease, and war.

390 Classical Social Theory. Fall (4), Spring (4).

Analysis of the basic assumptions, concepts, and modes of thinking of Marx, Weber, Durkheim, and the other founders of social science. Prerequisites: SOAN 100, 102 or 104; and two SOAN courses at the 200 level or above, or by permission. Offered in alternate years.

391 Contemporary Social Theory. Fall (4), Spring (4).

Examination of important twentieth-century developments in social theory, focusing on critical, neo-Marxist, neo-functionalist, symbolic interactionist, ethno-methodological, and feminist theories. Prerequisites: SOAN 100, 102, or 104; and two SOAN courses at the 200 level or above; or by permission. Offered as needed.

392 Anthropological Theories. Fall (4), Spring (4).

An in-depth examination of selected classical and contemporary theories in anthropology with particular attention to the concept of culture. Prerequisites: SOAN 100, 102, or 104; and two SOAN courses at the 200 level or above; or by permission. Offered as needed.

400 Senior Capstone. Spring (3).

Capstone designed to give students an opportunity to synthesize their sociological and anthropological learning. Capstone project results in a paper and presentation before department students and faculty. Prerequisites: SOAN 100, 102, or 104; and two 200-level SOAN courses, two 300- or 400-level SOAN courses, and senior standing or by permission. CN only.

Sociology and Anthropology

430 Power, Marginality, and Exclusion. **Fall (4), Spring (4).**

Study of the social process of identifying significant differences among individuals and attributing meaning to them. Particular focus on: consequences of marginalization and exclusion, how social perceptions of difference change over time, individual and group responses to being labeled deviant, social isolation and potential creativity of being positioned on the social margin, and how power is distributed and exercised in these processes. Prerequisites: SOAN 100 or 102 and SOAN 205 or 320 or by permission. Offered as needed.

442 Meanings and Practices of Democracy. **Fall (4).**

Focuses on democracy as actually lived and experienced by members of society through the ethnographic examination of the cultural assumptions embedded in democracy, ranging from representation to freedom, analyzing it as a hegemonic ideology, a form of governance, a set of institutions, and a solution to peace and prosperity. Prerequisites: SOAN 102 and either a 300-level Methods or a 300-level Theory course (in GOVT or SOAN) or by permission. Offered in alternate years. NU only.

451 Reading Sociology and Anthropology. **Fall (4), Spring (4).**

A cooperative seminar for senior SOAN majors, devoted to reading and discussing serious books on various aspects of Sociology and Anthropology. Prerequisites: SOAN 100 and 102, plus three SOAN courses at 300 or 400 level, or by permission.

460 Topics in Sociology. **Fall (4), Spring (4), May Term (3).**

Exploration of an advanced topic in Sociology through intensive reading and discussion. In all seminars, students will critically analyze the complex interplay between individual, culture and social structure to reach a nuanced understanding of sociocultural processes and inequalities. Prerequisites: SOAN 100, 102, or 104; and two 200-level SPAN courses, two 300- or 400-level SOAN courses, and senior standing or by permission. CN only.

465 Topics in Anthropology. **Fall (4), Spring (4).**

Exploration of an advanced topic in Anthropology through intensive reading and discussion. In all seminars, students will critically analyze the complex interplay between individual, culture and social structure to reach a nuanced understanding of sociocultural processes and inequalities. Prerequisites: SOAN 100, 102, or 104; and two 200-level SPAN courses, two 300- or 400-level SOAN courses, and senior standing or by permission. CN only.

475 Independent Research. **Fall (2–4), Spring (2–4).**

Independent research, generally included as an element of the senior capstone. Students work with a department faculty member who helps design the project, supervises it, and provides advice about analyzing the material. The analysis results in a comprehensive written report. Prerequisites: SOAN 100, 102, or 104; and by permission. Offered as needed.

485 Sociology and Anthropology Internship. **Fall (2–12), Spring (2–12).**

Work in an applied setting, which is generally included as a component of the senior capstone. This experience is broadly defined and suited to the student's interests. Students work with a faculty member to establish the internship and to determine how to analyze the setting. The analysis results in a comprehensive report. Prerequisites: SOAN 100, 102, or 104; and by permission. Offered as needed.

498 Sociology and Anthropology Honors Independent Research. **Fall (2–4), Spring (2–4).**

Independent research as part of an approved honors project. Each student works with an honors committee chaired by a department faculty member. The committee supervises the project, helps in research design and analysis, and provides advice for the comprehensive report formally presented to the department faculty and the committee. Prerequisites: SOAN 100, 102, or 104; and by permission. May be repeated for degree credit for a maximum of 8 credits or by permission. Offered as needed.

THE FACULTY

Olga González
Liesder Mayea
Ivonne C. Vailakis

THE MAJOR

A major in Spanish consists of 44 credits beyond SPAN 201–202.

Spanish majors may choose an emphasis in Latin American or Spanish literature, culture, and civilization. Students who start at the fourth-year level are considered to have completed the equivalent of 8 of these 44 credits. These apply only to the major, not toward the total credits required for graduation. At least 30 credits must be in prescribed courses other than individualized study, and at least 28 of these credits must be earned at the University of Redlands.

Language courses must be taken in the correct sequence. A language placement exam is required, and through departmental placement, a student may enter the sequence at a place beyond SPAN 101, but no student can subsequently receive credit for a course that is numbered lower than the highest course previously completed by that student.

Learning outcomes for this program may be found at:
www.redlands.edu/academics/college-of-arts-sciences/undergraduate-studies/spanish/9517.aspx.

Bachelor of Arts

11 courses 44 credits

Required courses:

- SPAN 301–302 Third-Year Spanish (8) or equivalent
- SPAN 424 Introduction to Hispanic Literature (4)
- SPAN 426–427 Survey of Spanish-American Literature (8)
OR SPAN 436–437 Survey of Spanish Literature (8)
- SPAN 425 or 435 (4)
- SPAN 458 and 459 (8)
- Three additional 400-level Spanish courses (12)

Students who plan to major in Spanish should discuss their programs of study with faculty advisors as early as possible.

THE MINOR

A minor in Spanish consists of 24 credits beyond SPAN 202.

Required courses:

- SPAN 301–302 Third-Year Spanish (8) or equivalent
- Four additional courses numbered SPAN 225 or above. At least 12 of these credits must be earned at the University of Redlands.

Advanced Placement

Spanish Language: Students receiving a score of three on the Advanced Placement Test receive 4 credits; those who score four or five receive 8 credits.

Spanish Literature: Students with scores of four or five receive 8 credits toward the major.

Study Abroad

May Term Semester in Ecuador. Students will spend May Term in Ecuador. They will live with Ecuadorian families and experience the culture firsthand. They will travel to different geographical zones to experience and learn about the three distinct ecosystems, including the volcanic, the highlands of the Andes, and the cloud forest. The students will learn about the Ecuadorian culture, including urban Ecuadorian society, as well as indigenous groups. The May Term session may be counted toward the minor.

Semester and Full-Year Programs Abroad. Students should consult with the Study Abroad office. Students should discuss their program of study with the Spanish faculty before departure or will not receive credit in Spanish.

Departmental Honors

A departmental honors program is available for exceptionally able and motivated students. Admission to the program may come by departmental invitation or, should students initiate their own applications, by an affirmative vote of the Spanish faculty. Interested students should consult with the Spanish faculty by their junior year for

Spanish

information about the application procedure and requirements.

Course Descriptions (SPAN)

101–102 First-Year Spanish.

Fall (4), Spring (4).

Pronunciation, conversation, essentials of grammar and composition, reading of elementary texts. Practice and drills on four basic skills: reading, writing, speaking, and listening. Periodic lectures on Hispanic culture. Four hours lecture. Prerequisite: placement exam required or by permission.

201–202 Second-Year Spanish.

Fall (4), Spring (4).

Review of grammar and composition. Conversation. Reading of selected materials to give an introduction to Spanish literature and culture. Emphasis on communicative aspects of the language. Four hours lecture. Very little English spoken. Prerequisite: placement exam or completion of Spanish 102 required or by permission.

301–302 Third-Year Spanish.

Fall (4), Spring (4).

Complete grammar review preparing students for advanced courses. Includes intensive training in composition and conversation. Four hours lecture. Taught completely in Spanish. Prerequisite: a minimum of two years of college-level Spanish or by permission.

410 Introduction to Spanish Linguistics. Spring (4).

Synchronic investigation of the principles of articulatory phonetics, morphology, syntax, and semantics of Spanish. Includes a review of grammar and a discussion of how linguistic forms of Spanish and English compare and contrast. Taught in Spanish. Prerequisite: SPAN 302 or equivalent, or by permission. Offered as needed.

412 Advanced Grammar and Writing.

Fall (4).

This course is designed to explore the structure of the Spanish language. It is designed to strengthen grammatical and writing competence. The course will provide practice in advanced stylistic devices, as well as compositional strategies. Prerequisite: Spanish 302 or by permission. Offered as needed.

424 Introduction to Hispanic Literature. Fall (4), Spring (4).

Reading and introduction to Hispanic literary texts to develop skills in literary analysis and critical writing using examples from Hispanic literature in the three genres. Students will read such authors as Márquez, Cortázar, Poniatowska, Garro and Fuentes. This course is intended to introduce students to in-depth understanding of literature and writing. Prerequisite: SPAN 302 or equivalent, or permission required.

425 Spanish-American Civilization.

Fall (4), Spring (4).

Geography, history, art, literature, and society of Spanish-American lands. Class discussion and oral and written reports required. Prerequisite: SPAN 302 or equivalent, or by permission. Offered in alternate years.

426–427 Survey of Spanish-American Literature, I–II. Fall (4), Spring (4).

Development of Spanish-American literature from the pre-Columbian to the present day. Emphasis on relating literary works to historical events and cultural values. Prerequisite: SPAN 302 or equivalent, or by permission. Offered in alternate years.

435 Spanish Civilization and Culture.

Fall (4), Spring (4).

Survey of the geography, history, art, literature, and society of Spain. History of Spanish language. Class discussion. Oral and written reports required. Prerequisite: SPAN 302 or equivalent, or permission required. Offered in alternate years.

436–437 Survey of Spanish Literature.

Fall (4), Spring (4).

Spanish literature from its beginnings to the present day. Emphasis on relating literary works to historical events and cultural values. Prerequisite: SPAN 302 or equivalent, or permission required. Offered in alternate years.

440 Spanish-American Narrative.

Fall (4), Spring (4).

Contemporary novelists from early beginnings to present day. Addresses principal political and social Latin American problems. Prerequisite: SPAN 302 or equivalent, or permission required. Offered in alternate years.

441 Hispanic Women Novelists.**Fall (4), Spring (4).**

Study of Hispanic novels written by women during the last decades to reflect on the problems faced by women in present-day Spain and Latin America. The chosen works exemplify different aspects of women's liberation, contrasting the situation of Hispanic women of the past and in the present. Prerequisite: SPAN 302 or equivalent, or permission required. Offered as needed.

450 Hispanic Poetry: Genres.**Fall (4), Spring (4).**

Examination of poetry through its varied expressions in Hispanic literature. Successful offerings focus on the historical development of the poetry of Latin America or Spain. Exploration of selected topics in literary themes in the genres. May be repeated for degree credit given different topics. Prerequisite: SPAN 302 or equivalent, or permission required. Offered as needed.

452 Hispanic Theatre.**Fall (4), Spring (4).**

A study of dramatic and theatrical Hispanic works, combining both canonical and non-canonical texts. Includes drama theory, videos of dramas, live plays, and the process of "mise en scène" or staging. Prerequisite: SPAN 302 or equivalent, or permission required. Offered as needed.

454 Spanish Golden Age Literature.**Fall (4), Spring (4).**

Focus on the Golden Age masterpieces while providing a fundamental insight to the most valuable works according to the genre and topics. Students will read, discuss, and analyze the works using the most recent critics. Prerequisite: Spanish 302 or equivalent, or permission required. Offered as needed.

455 The Generation of '98.**Fall (4), Spring (4).**

Representative writers, including Ganivet, Unamuno, Azorín, Baroja, Valle Inclán, Maeztu, and Machado. Primarily prose. Political and social problems of Spain as reflected in literary works. Prerequisite: SPAN 302 or equivalent, or permission required. Offered as needed.

456 Panorama of the Contemporary Spanish Novel.**Fall (4), Spring (4).**

Major contemporary novelists. The main aspects of the Spanish Civil War and its influence in contemporary Spain are addressed in these novels. Prerequisite: SPAN 302 or equivalent, or by permission. Offered as needed.

458 Senior Seminar: Reading Component.**Fall (4).**

Offers the student the opportunity to read extensively and closely texts from particular author(s), genre(s), work(s), or theme(s) in Latin American literature or Peninsular literature. By completing the required reading, students prepare themselves for work that will be required the following semester. Prerequisite: Spanish majors only, senior standing or by permission. NU only.

459 Senior Seminar: Writing Component.**Spring (4).**

This course deals with research, critical approach, and writing about literary works from the previous semester. Students do extensive research and write several drafts of their final thesis. A senior thesis which includes a comprehensive bibliography is expected (30-40 pages). Prerequisites: Spanish majors only, SPAN 458 and senior standing or by permission.

Theatre Arts

FACULTY

Nephelie Andonyadis
Chris Beach
Victoria Lewis
Steve Shade

ADMINISTRATION

Daniel Cork, Technical Director
Trevor Norton, Director of Production

THE MAJOR

The Bachelor of Arts in Theatre emphasizes the collaborative process and nurtures the theatre artist in body, intellect, and spirit. Students are encouraged to pursue diverse theatre goals, cultivate individual expression, and understand theatre as a tool for social and cultural discourse.

Learning outcomes for this program may be found at:

www.redlands.edu/academics/college-of-arts-sciences/undergraduate-studies/theatre/9519.aspx.

Bachelor of Arts

Requirements

The theatre degree requires a minimum of 44 approved theatre credits.

Foundation classes 32 credits

- THA 105 Production Credit (1) (four sections required for a minimum of 4 credits)
- THA 125 Stage Design Fundamentals (4)
- THA 130 Introduction to Theatre Technology (4)
- THA 140 Acting Fundamentals (4)
- THA 251 Changing Stages: Theatre History Part I (4)
- THA 252 Changing Stages: Theatre History Part II (4)
- THA 300 Play Analysis: Page to Stage (4)
- THA 425 Theatre Arts Senior Seminar (4)

Electives (12 credits)

In addition to the foundation classes, theatre majors must choose 12 credits of theatre electives, 4 of which must be at the 300 level. Choose from the following:

- THA 100 Experiencing Theatre (4)

- THA 200 Voice and Movement for Performers (4)
- THA 210 Playwriting (4)
- THA 225 Set Design Techniques (4)
- THA 226 Costume Design Techniques (4)
- THA 227 Lighting Design Techniques (4)
- THA 230 Theatre Management (4)
- THA 240 Acting Techniques (4)
- THA 260 Theatre Topics (3-4)
- THA 310 Directing for the Stage (4)
- THA 325 Advanced Design Workshop (4)
- THA 340 Advanced Acting (4)
- THA 350 Dramaturgy (4)

THE MINOR

The minor is designed to engage students in the many disciplines of theatre arts and to provide the opportunity to develop creative expression within the context of a well-rounded liberal arts education.

Students are required to complete the following courses for a total of 18 credits:

- THA 105 Production Credit (2 sections)
- THA 125 Stage Design Fundamentals (4)
- THA 130 Introduction to Theatre Technology (4)
- THA 140 Acting Fundamentals (4)
- THA 251 Changing Stages: Theatre History Part I (4) AND/OR THA 252 Changing Stages: Theatre History Part II (4)

Electives (12 credits minimum)

Students choose three additional courses from Theatre department electives and/or from courses approved for cross-listing toward degree credit.

Courses considered for cross-listing toward degree credit include:

Art History, Studio Art, Dance, English Literature/Shakespeare, Voice.

Theatre Arts Capstone Requirement

All theatre majors must complete a capstone project that provides a culminating experience to their studies, and represents their efforts toward best practices in the field.

Theatre arts capstone projects are defined individually and must be approved by faculty. Projects can include: a significant role in a realized production, a portfolio of work in professional presentation, a theoretical design project, an acting project, a research paper/presentation. Students design their capstone projects so that they will demonstrate: competence in core theatre arts skills, the ability to integrate disciplinary knowledge, application of theory to practice and understanding of how their work is situated in the expectations of the discipline and in light of their personal goals. All capstone projects must include a writing component demonstrating critical capacity and a formal presentation appropriate to the student's target audience.

Department Facilities

The University's Center for the Arts includes three fully equipped theatre spaces—the Glenn Wallichs Theatre, a 326-seat, low-fly proscenium stage, the Loewe Theatre, a flexible Black Box space with seating for up to 140, and the Rabbit Hole, a 50-seat student performance space equipped with lighting and sound systems. The Wallichs Theatre serves a range of performance styles appropriate to the proscenium format, the Loewe Theatre offers state-of-the-art technical systems in an intimate, experimental environment. In addition, the Theatre Arts Department boasts specialized classroom spaces for performance and design, suitable for the wide range of course offerings and instruction in a theatre curriculum that integrates theory and practice at all levels, from classroom exercises to fully mounted productions. Theatre Arts operates fully equipped costume and scenic shops, staffed by professionals and students.

Department Activities

Each year, an average of four department productions are produced in the Wallichs and Loewe Theatres. These productions are directed by faculty and/or professional guest artists and are designed by faculty, guest artists or advanced students. Students are involved in all aspects of these productions. In addition, the Theatre Arts Department hosts annual dance concerts, jazz concerts

and special events, including residencies with theatre artists and ensemble companies.

The **Theatre Odyssey Program** provides hands-on, in-depth encounters with artists and organizations that reflect the (1) cultural diversity, (2) theatrical innovation, and (3) professional expertise unique to Southern California and that contribute to the students' engagement with best practices in the field. Activities include play attendance, seminars, guest artists/lecturers, and workshops.

Internships

In addition to participating in theatre productions and courses, many students choose to take advantage of internships with professional theatres available through the department. Recent internships have occurred with the Cornerstone Theater Company, Florida Studio Theatre, The Mark Taper Forum, and the Santa Fe Opera Company.

Course Descriptions (THA)

100 Experiencing Theatre. Spring (4).

Designed to introduce students to theatre as cultural history, literary text and performance. The emphasis is on theatre as a social, collaborative, and interdisciplinary art in a variety of forms throughout the world. Activities include play reading, watching live and recorded productions, critical writing, ensemble projects, performance workshops, and play attendance.

105 Production Credit.

Fall (1–4), Spring (1–4).

Practical application of production and performance techniques for the stage. Possible production assignments include performance, design, assistant design, scenic and costume construction, stage management, assistant directing. Requires participation in faculty supervised main stage productions. Assignments made through audition or by interview/instructor approval. May be repeated for credit. Majors must repeat four times.

125 Stage Design Fundamentals.

Fall (4), Spring (4).

Overview of the function and responsibilities of scenic, lighting, and costume designers.

Theatre Arts

Primary information about the tools and basic techniques that are used to bring the designer's concept to the stage are explored, as well as methods of creative problem solving and conceptual thinking specific to the theatrical design practice.

130 Introduction to Theatre Technology. **Fall (4), Spring (4).**

Students learn techniques of stagecraft, production management, and production support. Elements of technical design and production involving scenic, lighting, and costume techniques are explored as tools for interpreting and supporting production designs. Includes lab component.

140 Acting Fundamentals.

Fall (4), Spring (4).

Intensive training of the student's unique expressive abilities. Focus on training the actor's instrument: the body, voice, and creative imagination. Through structured ensemble and solo work, students develop the basic tools of performance: concentration, relaxation, intention, physicalization, and moment-to-moment play. May be repeated for degree credit for a maximum of 8 credits.

200 Voice and Movement for Performers.

Fall (4), Spring (4).

Workshop format designed to liberate, expand, and integrate the student's vocal and physical expressive capacities. Through structured vocal and physical exercises, students deepen their technical and intuitive understanding of the voice, body, and mind relationship. May be repeated for degree credit with permission from the department chair. Offered as needed.

210 Playwriting. Fall (4), Spring (4).

Through writing and performance etudes, the composition of formal scene assignments, and participation in playwrights' workshops, students will explore the components of the playwright's craft (character, plot, action, dialogue, structure, idea, theatricality) culminating in the completion of a short original play. Offered every third semester. May be repeated once for degree credit with instructor approval.

225 Set Design Techniques.

Fall (4), Spring (4).

Studio class focused on tools and strategies used to design scenery for the stage. Design techniques presented include approaches to text analysis, design research methods, creating a conceptual point of view, and visual communication skills of drawing, painting, and scale model making. Emphasis on collaborative aspects of theatre set design. Prerequisites: THA 125 and THA 110 or ART 133, or by permission of the instructor. May be repeated once for degree credit with department chair approval. Offered in alternate years.

226 Costume Design Techniques.

Fall (4), Spring (4).

Studio class in the art and practice of costume design for the stage. Design techniques presented include approaches to text analysis, development of a conceptual point of view, design research methods, and visual communication skills of drawing and painting. Emphasis placed on the collaborative aspects of theatre costume design. Prerequisites: THA 125 and THA 110 or ART 131 or by permission of the instructor. May be repeated once for degree credit with department chair approval. Offered in alternate years.

227 Lighting Design Techniques.

Spring (4).

Studio class focused on tools and strategies used to design lighting for the entertainment industry. Design techniques presented include approaches to text analysis, design research methods, use of technical tools required to accomplish a lighting design, and visual communication skills of sketching light, drafting, and using a light lab. Emphasis on collaborative aspects of design. May be repeated once for degree credit with department chair approval.

230 Theatre Management.

Fall (4), Spring (4).

Practical introduction to the theories and applications of management techniques for the theatre and other live performances including: scheduling, budgeting, time-management, script-analysis, personnel management,

communication; the structures and processes of all stages of auditions and rehearsals; the design, creation, and use of the prompt book; methods and practices of calling and maintaining performances. Prerequisite: THA 130.

240 Acting Techniques. Spring (4).

Techniques for building a character. Specific focus on the actor's approach to the text through work on auditions, monologues, and scenes. Students learn the necessary skills to analyze a scene, physicalize character intention, and play the character's essential action. Prerequisite: THA 140 or permission by instructor. May be repeated for degree credit.

251 Changing Stages: Theatre History Part I. Fall (4) Spring (4).

Explores theatre as performance and cultural history as well as literary text. Geographic and temporal focus varies across Western and Eastern theatres from ancient classical periods up to the Early Modern era (1700s). Potential areas of study: Greece, Asia, Africa, the Americas, Medieval/ Renaissance Europe, ritual/religion, comic/popular theatre, and women and theatre. Offered in alternate years.

252 Changing Stages: Theatre History Part II. Fall (4).

Explores theatre as performance and cultural history as well as literary text. Geographic and temporal focus varies across world theatres from the late 1800s through the 21st century. Potential areas of study: Melodrama, Realism, Dada/Surrealism, Postcolonial Africa, People's Theatre, avant-garde and alternative companies, multicultural, women's, gay/lesbian, and disability theatre. Offered in alternate years.

260 Theatre Topics.

Fall (4), Spring (4), May Term (3).

In-depth study of selected topics from the various theatre disciplines. Topics may include Dance, Mask Making, History of Stage Design, Performance Styles, Scene Painting, Images of Disability in Theatre, Theatre for Young Audiences, Women in Theatre. May be repeated for degree credit for a maximum of 16 credits. Offered as needed.

300 Play Analysis: Page to Stage. Spring (4).

Dramaturgical examination of a variety of play styles and critical paradigms. Approaches include performance, analysis, and research. Interpretive possibilities are explored through the concepts of given circumstances, dramatic action, character, story structure, and idea; essentials for releasing words on the page to action on the stage. Offered every year.

310 Directing for the Stage. Fall (4), Spring (4).

A combination lecture/discussion/workshop focused on the fundamentals of stage direction. Scenes are presented in class and evaluated on student director's written analysis and execution of the scene's dramatic action, character attitudes, idea/intention, ground-plan, environmental factors, dialogue, mood, tempo, and style. Prerequisite: by permission. Offered in alternate years.

325 Advanced Design Workshop. Fall (4), Spring (4).

An advanced studio class in which students complete individual design projects that challenge them to advance their conceptual and craft skills of scenic, costume, and/or lighting design techniques. Emphasis on solving complex design problems, expressing a variety of theatrical styles, and on the collaborative aspects of theatre process. Prerequisites: THA 225 or 226 and by permission. May be repeated for degree credit with permission. Offered as needed.

340 Advanced Acting. Spring (4).

Focus on various approaches to character and style analysis. Through in-depth study, the differences and similarities of diverse acting styles are examined. Sources of study include mask work, approaches to text, video and live performances, and historical research. Prerequisites: THA 140 and 240. May be repeated for degree credit, for a maximum of 8 credits, with department chair approval. Offered as needed.

350 Dramaturgy. Fall (4).

The role of the dramaturg investigated from its roots in eighteenth-century Germany to

Theatre Arts

its late twentieth-century arrival in the American professional theatre. Topics include the function of the dramaturg in classical play production, adaptation, community-specific performance, and new play development. May be repeated for degree credit with approval of department chair. Offered as needed.

425 Theatre Arts Senior Seminar.

Spring (4).

Under faculty supervision, students work independently on a culminating capstone project in one or more areas of concentration—performance, design, dramaturgy, technical production, producing, and/or directing. The seminar format provides guidance to the capstone projects, as well as furthering students' transition to professional practices, creating a structure for discussion of current readings pertinent to student projects, and the practice of collaborative methods and peer critique. Prerequisites: THA 105, 110, 125, 130, 140, and 251 or by permission. NU only.

Visual & Media Studies

THE DIRECTOR

Piers Britton

THE ADVISORY COMMITTEE

Katherine Baber, School of Music
 Nancy Carrick, English
 Patricia Cornez, Computer Science
 Kathleen Feeley, History
 Kelly Hankin, Johnston Center
 Shana Higgins, Library
 Priya Jha, English
 Dustin Leavitt, Creative Writing
 Sheila Lloyd, English
 Hongwei Lu, Asian Studies
 Jim Spickard, Sociology and
 Anthropology
 Kimberly Welch, Women's and Gender
 Studies

THE MAJOR

Visual & Media Studies is an interdisciplinary program offering both courses carrying the VMS alpha and cross-listed courses from a range of departments.

Learning outcomes for this program may be found at:

www.redlands.edu/academics/college-of-arts-sciences/undergraduate-studies/10868.aspx.

Requirements

The major consists of 44 credits, including the following required elements (for details see the list of Concentration Courses):

I. Foundation (4 credits)

VMS 101 Introduction to Visual and Media Studies (4) required as a core, interdisciplinary course.

II. Medium and Genre (8 credits)

At least two medium- or genre-specific courses required with diverse content. These courses may be chosen from the following:

- VMS 111 Introduction to Film (4)
- VMS 211 Screen Genres (4)
- VMS 212 Television Aesthetics (4)
- ARTH 326 Modernity and Modernism (4)
- CRWR 410 Creative Writing Seminar (4)
- CS 103 Introduction to Multimedia (4)

- CS 223 Multimedia Design and Game Programming (4)
- ENGL 114 War in Literature and Film (4)
- ENGL 311 Film and Literature (4)
- HIST 229 U.S. History on Film (4)
- HIST 273 Cyberculture and the Networked Society in the Information Age (4)
- WGST 245 Mothers and Daughters in American Popular Culture (4)
- Others approved by the director.

III. History of Media and Visualization (4 credits)

History courses include:

- VMS 213 Sports, Media & Culture (4)
- ARTH 103 Introduction to Modern Art (4)
- ARTH 324 Art and Identity (4)
- ARTH 328 After the Modern (4)
- HIST 320 U.S. Cultural History (4)
- HIST 328 Gender, Media, and U.S. Culture (4)
- Others approved by the director.

IV. Global and Cultural Perspectives (4 credits)

Relevant courses include:

- ARTH 203 Space and Place (4)
- AST 211 Contemporary Chinese Film (4)
- ENGL 333 Topics in African Diasporic Literatures (4)
- HIST 273 Cyberculture and the Networked Society in the Information Age (4)
- HIST 320 U.S. Cultural History (4)
- REST 232 Representing Race and Identity in Film (4)
- SOAN 206 Popular Culture (4)
- SOAN 347 Visual Ethnography (3)
- WGST 341 Gender and Nation (4)
- Others approved by the director.

V. Theory (4 credits)

Students must take:

- VMS 301 Theories of Media and Visual Culture (4)

Visual & Media Studies

- ENGL 250 Theories of Popular Culture (4) OR another course approved by the director.

VI. Capstone (8 credits)

All majors complete:

- VMS 495 Senior Seminar (4) in fall of their senior year; and
- VMS 497 Capstone Independent Senior Project OR VMS 499 Honors Research Project in the following spring.

NB. To ensure a proper interdisciplinary focus in the major, students must select courses taught in at least three departments or programs.

THE MINOR

The minor consists of 24 credits, including the following required elements (from the relevant lists above, under the required elements concentration courses):

- VMS 101
- One course addressing global or cultural perspectives
- One course in the history of media or visualization
- One course addressing medium or genre
- One theory course

Students may shape the minor to enhance their major program and can do so in consultation with the director or other members of the Faculty Committee. To ensure a proper interdisciplinary focus, students must select courses taught in at least two departments or programs.

Registration information

Each semester during registration, then later at check-in, the Visual & Media Studies Program provides a current list of the VMS concentration courses for the coming term. Because new or special courses (including Johnston courses and topics courses in various departments) are likely to be added, this list will show the most current course offerings. The list is available from the director, is distributed to every faculty advisor, and also appears on the VMS bulletin board by HOL 207.

Directed Study

Students can design a course of Directed Study, VMS 170, 270, and 370 with VMS

faculty members in consultation with the director, whose signature is required on the Individualized Study form.

Cross-listed Courses

Descriptions of these courses can be found in the catalog listings for the relevant department. Check these also for prerequisites, if any. These courses concentrate entirely or significantly on issues pertaining to media and visual culture. They may be counted automatically toward the major or minor.

- ARTH 103 Introduction to Modern Art (4)
- ARTH 203 Space and Place Psychology (4)
- ARTH 324 Art & Identity (4)
- ARTH 328 After the Modern (4)
- AST 211 Contemporary Chinese Film (4)
- AST 311 Chinese Space (4)
- CRWR 410 Creative Writing Seminar (4)
- CS 103 Multimedia (4)
- CS 223 Multimedia Programming (4)
- ENGL 114 War in Literature & Film (4)
- ENGL 217 Images of Women (4)
- ENGL 250 Theories of Popular Culture (4)
- ENGL 311 Film and Literature (4)
- ENGL 333 Topics in African Diasporic Literature (4)
- HIST 229 U.S. History on Film (4)
- HIST 241 Contemporary China: Literary and Cinematic Perspective (4)
- HIST 273 Cyberculture and the Networked Society in the Information Age (4)
- HIST 320 U.S. Cultural History (4)
- HIST 328 Gender, Media, and U.S. Culture (4)
- REST 232 Representing Race and Ethnicity in Film (4)
- SOAN 206 Popular Culture (4)
- SOAN 347 Visual Ethnography (4)
- WGST 245 Mothers and Daughters in American Popular Culture (4)
- WGST 341 Gender and Nation (4)

COURSE DESCRIPTIONS (VMS)

101 Introduction to Visual & Media Studies. Fall (4), Spring (4).

Introduces students to the critical study of visual culture and the spectrum of media. Provides basic grounding in visual competency (i.e., the formal, semiotic and ideological analysis of visual expression and communication) and in the critical analysis of film, television, radio, interactive media, and participatory media.

111 Introduction to Film. Fall (4), Spring (4).

Introduction to the history, theory, and criticism of film with an emphasis on how narrative is accomplished through film language such as shots, screens, and sequences.

211 Screen Genres. May Term (3).

Introduces the concept of genre and how it has been understood in film and media studies, exploring the basis for generic categorization, engaging with debates over contested categories (such as film noir, the women's film, and melodrama), and examining specific instances of one or more genres.

212 Television Fiction and its Audiences. Fall (4), Spring (4).

Explores the critical status of television fiction in relation to other media, focusing on stylistics, but addressing issues such as media convergence, cult TV and fandom, and topics such as the critical recuperation of soap opera, generic hybridity in the TV series, and "quality TV."

213 Sports, Media & Culture. Fall (4), Spring (4).

Analyzes the relationship between sport and its coverage and representation in print, radio, film, television, and now the internet, and how that convergence has influenced various cultural dynamics. Offered as needed.

260 Topics in the Politics of Representation. Fall (4), Spring (4).

Theoretically intensive exploration of the ways in which representation constructs gender, sexual, ethnic, and other identities, and also constructs difference and marginalization.

Topics include discourses of female beauty, the embodiment of nationhood, the representation of Holocaust and racial violence, etc. May be repeated for degree credit given distinct topic.

264 Special Topics in Visual & Media Studies. Fall (4), Spring (4).

Focuses on special topics, themes, or projects in the fields of visual and media studies, including courses that combine critical and creative or production elements. May be repeated for credit given distinct topic.

301 Theories of Media and Visual Culture. Fall (4), Spring (4).

Addresses critical and theoretical concerns that define visual and media studies as fields, including issues of cultural articulation and hegemony, problems of epistemology and aesthetics, concepts of "high" versus "popular" culture, theories of persuasion and attention, and media literacies in an era of media convergence.

495 Senior Seminar. Fall (4).

The first part of a two-semester capstone experience, within which students build upon, integrate, and extend previous VMS work through the design and development of a research paper or project. Prerequisites: VMS 101 and senior standing, or by permission.

497 Capstone Project. Spring (4).

Students pursue a substantial independent project, realizing plans initially developed in VMS 495, Senior Seminar. In consultation with the director, students produce a research paper or other artifact synthesizing VMS work, and present it to their peers and a faculty examination committee. Prerequisite: VMS 495, or by permission.

499 Honors Research Project. Spring (4).

Women's and Gender Studies

THE DIRECTOR

Jennifer Nelson

THE FACULTY COMMITTEE

Renée Azenaro, Art
 Kathleen Feeley, History
 Victoria Lewis, Theatre Arts
 Leela MadhavaRau, Campus Diversity
 and Inclusion
 William Rocque, Sociology
 Julie Townsend, Johnston
 Patricia L. Wasielewski, Women's and
 Gender Studies, Sociology and
 Anthropology
 Kimberly Welch, Women's and
 Gender Studies

FRIENDS OF WOMEN'S AND GENDER STUDIES

There are also diverse faculty and administrators who work with Women's and Gender Studies by offering cross-listed courses, sponsoring internships or directed studies, and advising the program on projects.

THE PROGRAM

Women's and Gender Studies is an interdisciplinary program that brings together diverse sources of research, analysis, insight, and experience to examine women's concerns and gender issues. The rapid pace of change in current societies includes major shifts in the power, social circumstances, ideas, needs, and desires of women, men, and children. Women's and Gender Studies is multiracial and multicultural. Women's and Gender Studies courses may explore specific or wide-ranging areas, as well as historical background and controversial topics.

A Women's and Gender Studies major or minor can equip students to better understand and actively participate in social changes. This course of study can lead to many different paths, including preparation for professional specialization in diverse fields (such as law, government, psychology, social work, education, medicine, the arts, religion, and business), public service work and activism, and a clearer comprehension of personal and global issues. Women's and Gender Studies is grounded in valuing knowledge from both

analysis and experience. Women's and Gender Studies courses embody a commitment to shared approaches to learning.

Learning outcomes for this program may be found at:

www.redlands.edu/academics/college-of-arts-sciences/undergraduate-studies/womens-gender-studies/9521.aspx.

THE MAJOR

Women's and Gender Studies is an interdisciplinary program offering both courses carrying the WGST designation and cross-listed courses from many departments.

Bachelor of Arts

Requirements for the Major
(48 credits)

I. Foundation (4 credits)

- WGST 150 Introduction to Women's and Gender Studies (4)

II. Theory & Activism

2 courses 8 credits

At least one theory course and one activism course required. Theory courses include:

- WGST 340 Contemporary Feminist Theory (4)
- WGST 341 Gender and Nation (4)
- WGST 350 Feminist Ethics (4)
- ECON 340 Economics of Race and Gender (4)
- GOVT 317 Feminist Political Theory (4)
- PHIL 310 Philosophy of Sex and Gender (4)
- PSYC 320 Psychology of Gender (4)
- SOAN 342 Gender and Sexuality (4)
- Other courses approved by the director

Activism courses include:

- WGST 140 Feminism and Social Justice (4)
- WGST 230 Feminist Community Engagement (4)
- WGST 427 Women in Collective Action (4)
- WGST 180, 280 Exploratory Internships
- WGST 380, 480 Specialized Internships
- Other courses approved by the director

III. Methods

1 course 4 credits

At least one 4-credit course must be a WGST methods course or other methods course appropriate to the focus of the plan of study, chosen in consultation with the student's WGST advisor.

IV. Plan of Study (24 credits)

Plan of Study will be designed in consultation with a majoring student's WGST advisor. The Plan of Study will help WGST majors define their own learning goals and map out a course of study toward, those goals. Majoring students will work closely with their advisor to develop an individualized plan reflective of their particular interdisciplinary interests. It is recommended that declaring majors will submit a Plan of Study at the end of their second year, and periodically review and adjust the Plan in consultation with their advisor. The Plan should include a preliminary set of courses that students plan to take to satisfy the 24-credit requirement in this area.

V. Capstone (8 credits)

WGST 459 Senior Seminar: all majors enroll in the fall of their senior year for 4 credits.

WGST Senior Project: all majors complete an Independent Senior Project (WGST 470) or Honors Research Project (WGST 499) in the spring of their senior year for 4 credits.

THE MINOR

The minor consists of 24 credits. Students are required to take WGST 150 as a core interdisciplinary course. Students may shape the minor to enhance their major program and can do so in consultation with the director or other members of the Faculty Advisory Committee.

Registration Information

Each semester at registration, then later at check-in, the Women's and Gender Studies Program provides a current list of WGST and cross-listed courses for the coming term. Because the Women's and Gender Studies Program is growing and new courses (including Johnston courses and special topics courses in various departments) are likely to be added, this list always will have

the most current course offerings. Current WGST course listings are available in Larsen Hall 207 and from the director, and are distributed to every faculty advisor. They also are posted on the Women's and Gender Studies bulletin board next to Larsen 220.

Directed Study and Internships

Students can design a course of directed study, WGST 170, 270, 370, and 470, with the director or with other WGST faculty members in consultation with the director, whose signature is required on the Individualized Study form. Internships—both exploratory (WGST 180, 280) and specialized (WGST 380, 480)—offer the opportunity for learning more about particular employment and community service settings. Internships can also be student-initiated and negotiated with the director.

The following internships are available each Fall and Spring semester and include:

- WGST 180.01 San Bernardino Sexual Assault Services (4).
- WGST 180.02 Battered Women's Shelter (2-4). Training to become a volunteer for Option House Shelter for battered women and their children.
- WGST 180.03 Women's Center (2-4). Activities on staff of the campus Women's Center. Specific focus negotiated with student facilitators of the Women's Center and WGST faculty advisor to the center.
- WGST 180.04-.09 Student proposed (2-4).

Cross-listed Courses

These courses are described by their own departments. Check the appropriate departmental listings for full descriptions and prerequisites, if any. They are regularly applicable to Women's and Gender Studies and may be counted automatically toward the major or the minor. These courses concentrate entirely or significantly on women's or gender issues:

- ECON 340 Economics of Race and Gender (4)
- ENGL 114 War in Literature and Film (4)
- ENGL 119 World Literature (4)

Women's and Gender Studies

- ENGL 217 Images of Women in Literature (4)
- ENGL 317 Women's Literature (4)
- ENGL 351 Studies in Postcolonialism (4)
- ENGL 362 Single Author Seminar (4)
- GOVT 305 Sex, Power, and Politics (4)
- GOVT 317 Feminist Political Theory (4)
- HIST 224 History of Sports in the U.S. (4)
- HIST 229 U.S. History on Film (4)
- HIST 320 U.S. Cultural History (4)
- HIST 326 Primary Witness in Women's History (4)
- HIST 328 Gender, Media, and U.S. Culture (4)
- JNST Feminist Film Activism
- JNST Forbidden Love: Literatures of Lesbian Desire
- JNST Gay, Lesbian, and Queer Cinemas
- JNST Odd Characters in Literature
- PHIL 310 Philosophy and Feminism (4)
- PSYC 320 Psychology of Gender (4)
- REL 131 Religions of America (4)
- REL 245 Lesbians, Gays, and Religious Controversies (4)
- REL 251 Women, Sexuality, and Western Religion (4)
- REL 351 Women and Buddhism (4)
- REST 232 Representing Race and Ethnicity in Film (4)
- REST 235 Hip Hop and Racial Politics (4)
- REST 335 Race, Gender, and Public Policy (4)
- SOAN 230 Bodies and Society (4)
- SOAN 321 Gender and Emotion (4)
- SOAN 335 Sociology of the Family (4)
- SOAN 342 Gender and Sexuality (4)
- SOAN 345 Interrogating Masculinity (4)

Negotiable Courses

Occasionally, additional courses and individualized studies from other departments also may be counted as Women's and Gender Studies courses. Such a course would include significant attention to women's or gender

issues and offer the opportunity for focusing a research paper or project on such issues.

In a negotiable course, students must clarify with the instructor (at the beginning of the semester) their plans to have their work credited toward the major or minor. Students also should discuss their intentions to focus research papers or projects on Women's and Gender Studies issues. Negotiable courses must be approved by the director of Women's and Gender Studies for credit toward the WGST major or minor.

Course Descriptions (WGST)

130 Sexuality Education, Birth Control, Abortion: Current Struggles. Spring (4).

Women's knowledge of their bodies, especially concerning sexuality and reproduction, is a primary issue for women's well-being. This course focuses on current controversies over sexuality education, birth control, abortion, and related issues.

140 Feminist and Social Justice Campus Activism. Spring (4).

Students will begin the course focusing on the theoretical underpinnings of campus activism, including an analysis of initiatives with a feminist and social justice twist. With that background in place, students will put theory into practice by developing individual or group activist projects.

150 Introduction to Women's and Gender Studies. Fall (4), Spring (4).

An interdisciplinary approach to introduce students to the area of Women's and Gender Studies. This might be the first time you have considered what it would mean to think about women as a general group and to look into what that might mean for understanding knowledge produced by them and about them.

165, 265, 365 Special Topics in Women's and Gender Studies.

Fall (2–4), Spring (2–4).

Topics of current interest in Women's and Gender Studies. May be repeated for a maximum of 8 degree credits, given a different topic. Offered as needed.

210 African American Women's History. Fall (4).

Offers an introduction to African American women's history, exploring the most recently published scholarship on a range of nineteenth- and twentieth-century topics, from the historical symbolism of Africa to the meaning of work, health, community movements, and sexuality in the history of women of African descent in the United States. Offered in alternate years.

220 Comparative Feminisms. Fall (4).

Compares feminism in the United States during the nineteenth and twentieth centuries with feminism on a global scale. The non-United States segment of the course will focus on countries with active indigenous feminist movements. Is there a global movement for women's rights? Are women's rights also human rights? What parallels can we draw between the movement in the U.S. and indigenous movements happening outside of the U.S.? Do all women's rights activists call themselves feminist?

227 Women in Society. Fall (4), Spring (4).

Application of a sociological perspective to the study of women. Review of current information about women's positions in U.S. society with special attention to differences in class, race and ethnicity, and political ideology. Theories of power, discrimination, self-concept, and social action as applied to women's experiences. Prerequisite: WGST 150 or SOAN 100 or 102. Offered as needed.

230 Feminist Community Engagement. Fall (4).

Explores the connections between theory and practice with academic readings on activism and community building and student experiences as interns or community activists with non-profit organizations. Possible topics for projects are sexual violence, battering, poverty among women, self defense, women and the law, reproductive rights, or women's health issues. Offered in alternate years.

232 History of Sexuality in the United States. Spring (4).

Explores the understandings of sexuality from the colonial period to the present, charting both the development of sexuality as a concept and the explosion of discussion about it. Topics include prostitution, rape, birth control, abortion, courting rituals, sexual revolution, women's liberation, sexual identity, and campaigns for lesbian and gay rights. Offered in alternate years.

235 History of Women in the United States: Twentieth Century. Spring (4).

Examines recent research on the private and public lives of women from 1880 to the present with attention to the differences among women of varied regional, racial, ethnic, and economic backgrounds. Covers significant themes in women's history, including work inside and outside of the household, reform movements, immigration, sexuality, and feminism. Offered in alternate years.

245 Mothers and Daughters in American Popular Culture. Fall (4).

Examines how the question of the representation of motherhood and the mother/daughter relationship is influenced by American popular culture since 1945. Analyzes how cultural concepts of motherhood and the mother/daughter bond reflect issues regarding ethnicity, class, sexuality, and generational differences. Offered as needed.

249 Chickflicks: Women Filmmakers. Spring (4).

Focuses on the rich tradition of women directors who have made their marks on film history and audiences. Students will focus on the films of a number of prominent female directors from a range of historical time periods, cinema traditions, and national film industries. Offered as needed.

253 I'm not a Feminist but...21st Century Women's Movements. Fall (4).

Students will read the writings of the contemporary feminist movement referred to as the Third Wave. We will discuss whether the Third Wave can be distinguished from the Second Wave movement. Theoretical material, media

Women's and Gender Studies

(films and TV shows), and personal testimony of feminist action will be included. Offered as needed.

255 Sex, Lies, and Urban Life. Spring (4). This course explores the historical and literary discourse associated with the cultural and socioeconomic aspects of urban migration and settlement for women to and within American cities. Examines how issues of sexuality, work, gender, inequality, domesticity, race and ethnicity shape the metropolitan experience of women in the United States. Offered as needed.

256 Women and Witchcraft in America. Fall (4).

Examines the significance of gender, class, sexuality, and ethnicity in the history of witchcraft in America, from the colonial period to the present. Studies how the constructions of gender and sexuality shape the history of witchcraft in America.

330 Feminist Research Methods. Fall (4).

Students learn how feminist scholars rethink analytic paradigms and create new theoretical models to guide their work. Examination of how knowledge is constructed and deployed, how interdisciplinary feminist perspectives inform research methods, what the practical implications are of those methods, and how feminist analysis redefines traditional categories and disciplinary concepts. Prerequisite: sophomore status or above. Offered in alternate years. NU only.

340 Contemporary Feminist Theory. Spring (4).

Survey of recent theoretical approaches in feminism exploring causes of women's oppression and strategies for liberation. Includes theory by liberals, socialist feminists, radical feminists, and by women of color. Examination of issues of sex and gender together with racial, cultural, and economic factors. Themes and titles vary. Offered in alternate years.

341 Gender and Nation.

Fall (4), Spring (4).

This course explores the ways gender informs our understanding of nationalism, and how

nationalist discourses imagine and construct identities in specifically gendered, class, race, community and caste terms in various locales. We will read a variety of different works by feminist scholars, political scientists, literary critics and historians. Prerequisite: WGST 150 recommended.

350 Feminist Ethics. Fall (4).

Examination of women as moral agents and the question of whether women approach ethics in a different voice. Themes vary. Prerequisite, one of the following: WGST 130, 150, 330 or by permission. Offered as needed.

427 Women in Collective Action.

Fall (4), Spring (4).

Study of contemporary and historical examples of women affecting change in society. Examination of theories of social movements and change as applied to women's efforts politically and culturally to transform the social order. Examples drawn from the United States and other countries. Prerequisite: WGST 150, WGST 227, or by permission. Offered as needed.

459 Senior Seminar. Fall (4).

Students synthesize and reflect on their interdisciplinary Women's and Gender Studies learning. All students design and develop a research paper or project. Those who are Women's and Gender Studies majors do so in consultation also with their Women's and Gender Studies advisor and plan for a Directed Study to complete their paper or project in spring. Prerequisites: WGST 150, two 200-level courses (WGST or Cross-listed), one 300- or 400-level course (WGST or Cross-listed), and senior standing, or by permission.

Integrated Programs of Study

PRELAW

The Program Advisors

Jack Osborn, Business

Arthur G. Svenson, Government

Major Emphasis

Students should plan a major in a specific discipline in consultation with their advisors. Typically the major would be from one of the following departments: business, economics, global business, government, history, English, philosophy, or sociology and anthropology.

Recommended Central Courses

We recommend that prelaw students select a minimum of eight courses from the following list:

- ACCT 210 Principles of Financial Accounting and Reporting (4)
- ACCT 220 Principles of Managerial Accounting (4)
- BUS 226 The Rise of American Capitalism 1860-1932 (4)
- BUS 240 Business Law (4)
- BUS 310 Principles of Management and Organizational Behavior (4)
- BUS 353 Financial Management (4)
- ECON 250 Principles of Microeconomics (4)
- ECON 251 Principles of Macroeconomics (4)
- ECON 350 Intermediate Microeconomics (4)
- ENGL 126 Literary Inquiries (4)
- ENGL 130 Literature of the Americas (4)
- ENGL 161 Studies in Literature: Law and Literature (4)
- ENGL 230 American Jewish Literature (4)
- ENGL 233 African American Literature (4)
- ENGL 237 Immigrant Literature (4)
- ENGL 256 Native American Literature (4)
- ENGL 309 Advanced Argumentative Writing (4)
- GOVT 208 California Politics (4)
- GOVT 111 American National Government and Politics (4)
- GOVT 212 Classical Political Thought (4)

- GOVT 306 Constitutional Law: National and State Powers (4)
- GOVT 307 Constitutional Law: Liberty and Authority (4)
- HIST 121 American Civilization I (4)
- HIST 122 American Civilization II (4)
- PHIL 120 Ethics and Social Philosophy (4)
- PHIL 130 Reasoning and Logic (4)
- PHIL 320 Ethics and Law (4)
- SPCH 110 Fundamentals of Speech (4)
- SPCH 111 Contemporary Oral Argumentation (4)

Recommended Elective Courses

Students are advised to take at least five courses in this area, taking care not to duplicate courses in the Liberal Arts Foundation or those from the major. (Specific courses are determined by students in consultation with their advisors.)

- BUS 354 Investments (4)
- BUS 336 International Business (4)
- BUS 361 Ethical Dilemmas in Management (4)
- BUS 421 Corporate Finance (4)
- BUS 450 The European Union (4)
- ECON 352 Industrial Organization and Public Policy (4)
- ECON 354 Public Finance (4)
- ECON 355 Environmental and Resource Economics (4)
- ENGL 210 Poetry (4)
- ENGL 216 Poetry East-West (4)
- ENGL 221, 222 Shakespeare (4)
- ENGL 233 African American Literature (4)
- ENGL 251 Postcolonial Literature and Criticism (4)
- GOVT 123 Introduction to World Politics (4)
- GOVT 214 Modern Political Thought (4)
- GOVT 220 Governments and Politics of Europe (4)
- GOVT 244 International Law and Organization (4)
- GOVT 304 Congress (4)
- GOVT 308 American Presidency (4)

Integrated Programs of Study

- GOVT 318 American Political Thought and Practice (4)
- HIST 111 European Civilization: Early Modern (4)
- HIST 112 European Civilization: The Nineteenth and Twentieth Centuries (4)
- PSYC 100 Introduction to Psychology (4)
- SOAN 100 Introduction to Sociology (4)
- SOAN 102 Introduction to Cultural Anthropology (4)
- SOAN 205 Social Issues (4)
- SOAN 330 Crime and Delinquency (4)
- SOAN 426 Political Economy (4)
- SPCH 200 Forensics (4)
- BIOL 239 Molecular Genetics and Heredity (4)
- BIOL 334 Comparative Physiology (4)
OR BIOL 344 Human Physiology (4)
- BIOL 341 ER Observations (4)
- CHEM 320 Biochemistry (4)
- MATH 122 Calculus II (4)
OR a Statistics course
- PHIL 255 Medical Ethics (4)
- SOAN 100 Introduction to Sociology (4)

† To see the MCAT's official list of topics examined, go to <https://www.aamc.org/students/download/85566/data/bsttopics.pdf>.

Many of these required and recommended courses are either full-year sequences, prerequisites for other courses, not offered every semester or year, or must be completed before taking the MCAT (usually taken in the spring of the junior year). Students should plan a tentative schedule for their entire course of study early.

The health professions advisors provide students with support and information concerning course selection, the MCAT, application procedures, and letters of recommendation. Students should consult with the health professions advisors to develop programs tailored to their particular needs and interests.

For other health-related fields, admissions requirements and application procedures are similar to those for medical school. Students interested in careers in dentistry, veterinary medicine, physical therapy, physician assistance, and the like should consult with the health professions advisors for more details and information.

PREMED/PREHEALTH PROFESSIONS

The Program Advisors

Please contact the biology department to be assigned a health professions advisor.

The Curriculum

The minimum requirements for admission to most medical schools in the United States include 8 to 16 semester credits of biology, 16 to 20 of chemistry, 4 to 8 of mathematics, 6 to 8 of physics, and 8 to 10 credits from English and the humanities.

Central Courses

Students generally take the following courses:

- BIOL 131-133 Principles of Biology (4 ea)
- CHEM 131-132 General Chemistry (4 ea)
- CHEM 231-232 Organic Chemistry (4 ea)
- ENGL - 6 to 8 credits, including composition*
- MATH 121 Calculus I OR MATH 118, 119 Integrated Calculus (4-8 cr)
- PHYS 220-221 Fundamentals of Physics (4 ea)
- PSYC 100 Introduction to Psychology (4)

* In most cases, fulfilling the WA and WB requirements will suffice.

Recommended Courses

A student's application to medical school is strengthened if several of the following courses are taken†:

PROUDIAN INTERDISCIPLINARY HONORS PROGRAM

The Program Director

Daniel Kiefer, English

Requirements

The Proudian Program is designed for up to twelve talented students in each graduating class who wish to explore interdisciplinary learning. The program offers students three special seminars on interdisciplinary topics.

Integrated Programs of Study

Two of these occur in the sophomore year (Spring and May Term), and one in the senior year (Fall). These courses frame two individualized junior-year options: study abroad or, in special cases, an internship in a profession or business. A senior thesis is required of each scholar. The program assumes the value—indeed the necessity—of interdisciplinary inquiry in the twenty-first century.

There are special privileges that come with election to the program. Scholars have exclusive use of the Prouidian Room (Hall of Letters 200) and its equipment. They have faculty borrowing privileges at the library. Scholars may also propose alternate ways of meeting the Liberal Arts Foundation requirements for graduation. These proposals must be approved by a faculty member who teaches in the relevant Foundation category, and by the director. These changes also require, of course, successful completion of the full program, including the senior thesis.

Admission to the program is competitive and based on highly selective criteria (GPA, SAT scores, writing samples, and especially a series of individual interviews). Selection takes place during the first semester of the sophomore year. More specific information concerning application may be obtained from the director of the program.

Course Descriptions (IDS)

The prerequisite for all courses is admission to the program.

365 Sophomore Seminar I. Spring (4).

Introduces interdisciplinary theory and method, as well as seminar learning skills. Requires completion of a major paper/project. Culminates in an academic symposium where students present papers to a University-wide audience. Prerequisite: admission to program. Offered every year.

366 Sophomore Seminar II. May Term (3).

Interdisciplinary seminar, including travel for research and group learning. Prerequisite: admission to program. Offered every year.

380 Junior-Year Exploratory Internship. Fall (2–3), Spring (2–3).

465 Senior Seminar. Fall (4).

Advanced interdisciplinary topics are addressed, perhaps arising out of students' junior-year experiences, and selected by faculty and students in concert. This seminar includes a section on the development of the senior honors thesis.

495 Senior Thesis. Fall (1–4), Spring (1–4).

SOCIAL SCIENCE PROGRAM

The Program Director

John Glover, History

Requirements

The Social Science Program (SSP) is a State of California-approved, comprehensive curriculum covering the social science subjects taught in California secondary schools. It consists of 88 total credits divided into 60 credits of core courses and another 28 credits of breadth courses. Social Science Program candidates must also complete a major. The program provides students with a command over the various content areas of the social sciences such as history, geography, government, and economics as taught in high schools across the state. In addition, successful completion of the SSP entitles the student to enter a teaching credential program without taking the comprehensive CSET (formerly the Praxis) exam. Interested students are strongly encouraged to seek advisement from the program director and appropriate SSP faculty as early as possible due to the demanding nature of the program. A detailed list of the core and breadth courses can be obtained from the director or the History Department web page via www.redlands.edu.

Course Description (SSCI)

460 Social Science Capstone.

Fall (3–4), Spring (3–4).

A combination of Social Science methodology and individual creation of student portfolios bringing together a summary of their work since beginning the program. Prerequisite: completion of the program. Offered as needed.

Integrated Programs of Study

ENGINEERING 3-2 COMBINED DEGREE

The Program Advisor and Liaison

Eric Hill, Physics

Program Description

In partnership with Columbia University in New York City, the University of Redlands provides students the opportunity to earn both a B.S. from Columbia University's School of Engineering and Applied Science and a B.A. or B.S. from Redlands. This program combines the strengths of a liberal arts education in a small college setting with professional preparation at a highly regarded school of engineering. It is preparation for a career in industry or graduate work in engineering, mathematics, or the physical sciences.

Through Junior year, students study at the University of Redlands and complete their General Education requirements appropriate for a B.S. student, their major and pre-engineering requirements. Early second semester of their Junior year, they apply for admission to Columbia University's School of Engineering—admission is guaranteed provided they fulfill the requirements outlined below. For the next two years, students study at Columbia University. Upon successful completion of the program at the end of five years, students are awarded a double major—one from Redlands and the other from Columbia University's School of Engineering and Applied Science. Students are free to pair any University of Redlands undergraduate major with any Columbia University engineering or applied science major; however, the pre-engineering requirements are most compatible with the Physics B.A. or individualized Johnston emphases—see appropriate sections of this *Catalog* for more information on the Physics and Johnston programs.

Students interested in this program must work closely with the Program Advisor to develop a suitable plan of study. Regardless of whether a student participates in this Combined Degree program, the pre-engineering courses, in combination with the science or math undergraduate degree, are

good preparation for enrolling in an Engineering graduate program.

Requirements for Guaranteed Admission to Columbia's School of Engineering and Applied Science

- Full-time enrollment at the University of Redlands or another affiliated school for at least the two years prior to applying.
- An overall and pre-engineering GPA of 3.3 or higher as calculated by Columbia. Additionally, the minimum grade for each pre-engineering science or math course must be a B or greater on the first attempt.
- Three favorable recommendations: one each from the Program liaison, a math professor, and a science professor.
- Completion (by the end of the semester in which you are applying) of the specific prerequisite courses for your intended major—see below, and consult with the Program Advisor.

Pre-Engineering Courses

I. Foundational

The following pre-engineering courses are required for all engineering majors:

- MATH 121, (OR MATH 118-119), MATH 122, and MATH 221 Calculus I, II, III (4 each)
- PHYS 231-233 General Physics I and II (4 each)
- CHEM 131 General Chemistry (4)
- CS 110 Introduction to Programming (4)
- ECON 250 Principles of Microeconomics (4)

II. Major-specific

In addition to the Foundational Pre-Engineering courses, students must take courses specific to their engineering major of choice. Possible majors and numbers of courses required are listed below; consult with the Program Advisor for details.

- Applied Math or Applied Physics (1 course)
- Biomedical Engineering (6 courses)
- Chemical Engineering (3 courses)

Integrated Programs of Study

- Civil Engineering (3 courses)
- Computer Engineering (3 courses)
- Earth and Environmental Engineering (4 courses)
- Electrical Engineering (3 to 4 courses)
- Engineering Management Systems (5 courses)
- Engineering Mechanics (2 courses)
- Industrial Engineering/Operations Research (5 to 6 courses)
- Material Science and Engineering (2 courses)
- Mechanical Engineering (4 courses)

Additional Course Offerings

UNIVERSITY ACTIVITY (UACT)

The University offers credit for such activities as work with the student newspaper or with productions in Glenn Wallichs Theatre. Students should check with the appropriate project sponsor for enrollment information.

UACT: 0–3 credits. CN grading only.
Written evaluation.

Course Description (UACT)

125 Principles of Journalism. Spring (2).

This introduction to journalism provides an overview of the profession and its most essential skills: information-gathering, interviewing, writing, and rewriting. Topics include the evolving systems of news, the myth of neutrality, and meaning of “fair and balanced,” and how journalism is distinct from other forms of new media.

COMMUNITY SERVICE ACTIVITY (CSAC)

Course Descriptions (CSAC)

360 Service Learning: Special Topics. (3-4).

Faculty-taught courses integrating service with the curriculum. The standard class involves 40+ hours of class instruction and 30+ hours of service outreach. Faculty establish their own take-home assignments, but generally pre-service preparation, time sheet, journal, final paper, and group verbal reflection are required. Various faculty—see Schedule of Classes.

380 Service Learning: Activity. (3).

An 80-hour service activity with individual placement contracts, reflective components, journals, evaluations, time sheet, final paper, and group verbal reflection. Required group and individual meetings with the CSL administrator prior to contract development and approval.

382 Service Learning Initiative. (1-2).

In negotiation with the CSL director, students may earn 1 or 2 credits (1 credit equates to 30 hours of service and additional reflection; 2 credits doubles those numbers) beyond the

departmental course credits. Students must have an approved placement contract, a reflective component, journal, evaluations, time sheets, final paper, and verbal reflection. This option may be appropriate for travel courses and study abroad programs. (Approval from CSL director and Study Abroad if travel course.) Prerequisite: by permission.

383 Service Learning: Outreach. (0).

Designed for service-oriented work study placements, previous service (including University of Redlands courses), or extensive service outside the University. Formal documentation of hours and a final reflective paper must accompany the CSL 383 Request. See CSL about registration requirements.

LIBRARY (LIB)

Course Description (LIB)

301 Advanced Library Research Skills: Peer Tutor Training. (1).

Library Reference Assistants will participate in ongoing training in library resources and will provide peer reference/research assistance in the Library, as well as selected campus locations outside the Library. Training offers the opportunity to develop advanced information and interpersonal skills, as well as an opportunity to shape and provide training in future LRA programs.

SPEECH (SPCH)

The Faculty

William Southworth

The College of Arts and Sciences offers service courses in public speaking.

Speech courses have been designed for students pursuing careers in business (Business Speech) and for students who seek to develop their skills in public speaking and debate (Fundamentals of Speech and Contemporary Oral Argumentation). Most courses are offered without prerequisites and can be found on the list of recommended courses outside the major in many departments.

Course Descriptions (SPCH)

110 Fundamentals of Speech. Fall (4).

Principles of public speaking and interpretation with classroom evaluation of speeches. Designed to enhance the student's skills in persuasive or informative speaking.

111 Contemporary Oral Argumentation. Fall (4), Spring (4).

Introduction to the study of argumentation, controversy, and debate through theory and practice. Focuses on theories of argumentation and debate and providing students with multiple opportunities to refine their argumentative voices. Students will be expected to participate on a regular basis, be creative, and think and speak on their feet.

115 Business Speech. Spring (4).

Theory relevant to a variety of business speech situations, including speeches to inform, entertain, and persuade. Instruction in the following business speech situations: interviews, sales, technical reports, and conference speaking.

260 Topics in Speech. May Term (3).

Seminar includes a rhetorical analysis of contemporary social issues and movements. Prerequisite: by permission.

through self-assessment, exploration of career possibilities, graduate school and job search planning, and preparation and development of a variety of real-world survival skills. Prerequisite: juniors only.

154 College Success Strategies. Fall (2), Spring (2).

Provides an opportunity for students to adopt habits that promote academic success. Key elements include setting goals, enhancing study skills (time management, note-taking, memorization, etc.), and developing life skills. Students are expected to make an active commitment to self-assessment, experimentation with new techniques, and taking concrete action steps toward achievement.

201 Community Leadership. May Term (2).

This course focuses on leadership in our residential communities. Students will develop an understanding of leadership, professionalism, community development, and management. The class will combine guided study activities and regular group meetings to build an understanding of their role in creating successful residence hall communities and developing student staff. Prerequisite: by permission. CN only.

STUDENT SERVICES (SSRV)

Course Descriptions (SSRV)

101 Residence Life 101. Fall (2), May Term (2).

This course focuses on the tenets of community building and communication for the incoming Community Assistant. Students will develop an understanding of community building, programming, communication skills and policies, and emergency protocol. Through active discussion, creative projects, and guest speakers, students will build an understanding of creating successful communities and supporting students. Prerequisite: by permission. CN only.

150 Real World 101: Life after College. May Term (3).

Designed to prepare students for life after college while challenging them to develop a solid post-graduate plan. This is accomplished

School of Business

THE DEAN

Stuart Noble-Goodman

THE FACULTY

Rasool Azari

Bing Bai

Peter Bergevin

Angelo Carlo Carascoso

Kimberly Cass

Charng Yi Chen

Hamid Falatoonzadeh

Allison Fraiberg

Kamala Gollakota

Gerald M. Groshek

Mahmoud Kaboudan

Denise MacNeil

Mike MacQueen

Johannes Moenius

Monica L. Perry

James B. Pick

Hindupur V. Ramakrishna

G. Keith Roberts

Avijit Sarkar

Jeffery D. Smith

James C. Spee

Satish Thosar

Xin Zhao

Introduction

The School of Business designs programs for working professionals that provide a high-quality education with real-world relevance. Our mission is as follows:

The University of Redlands School of Business enriches our society with graduates who manage well, solve business problems creatively, communicate effectively, learn continually, think globally, and act ethically.

We are a community of learners that fosters leadership, opens doors of opportunity, provides high-quality teaching, and creates knowledge.

Our degree programs offer undergraduate and graduate study within the framework of a liberal arts institution.

Learning outcomes for these programs can be found at:

www.redlands.edu/docs/Academics/BUSINESS_STUDENT_LEARNING_OUTCOMES.htm.

Program Delivery and Regional Campuses

Students receive a personalized Schedule of Instruction (SOI) that lists the courses they need to complete their degree. The SOI is published for each student at the beginning of the program and is subject to change with written notification. A single registration form that registers the students into all of the courses at the beginning of their program is submitted for the convenience of the students. It also assures the students of the sequence and dates of their courses.

Our programs are offered at convenient locations throughout Southern California. In addition to our main campus in Redlands, courses are offered in Rancho Cucamonga, Riverside, Temecula, San Diego, Santa Ana, Torrance, and Burbank. The centers provide the academic and administrative support that enables our students to complete their programs by attending class one time per week.

Informational Meetings

The School of Business regularly schedules informational meetings for individuals throughout Southern California and will schedule meetings for organizations upon request.

At these meetings, a University representative presents information on programs offered, admission requirements, curriculum, degree-completion requirements, cost, and financial aid. Individual pre-admission counseling is encouraged.

School of Business Admission

UNDERGRADUATE ADMISSION

The School of Business offers a Bachelor of Science in Business and a Bachelor of Arts in Management.

- All applicants must complete a formal application.
- Official transcripts from every college or university attended (in any country) since high school must be submitted. Only transcripts sent to the Office of Student Records or Enrollment and Operations from the registrar of each institution attended will be accepted as official. No portion of a college record may be omitted from consideration of eligibility for transfer.
- Forty semester credits of accepted transfer and assessment credit are required for admission. Courses taken in the University of Redlands School of Business core program cannot be applied to the 40-credit minimum.
- A minimum grade point average of 2.00 (C) on a 4.0 scale is required in all college courses acceptable to the University of Redlands.
- Three years of full-time work experience since high school graduation must be presented, which may be cumulative and may include time spent at home as a family caregiver.
- International students whose primary language is not English must present a TOEFL score of 500 (or 173 for the computer-based test or 61 for the Internet-based test) or higher.

GRADUATE ADMISSION

The School of Business offers master's degrees in business administration, information technology, and management.

The School of Business perceives the educational process holistically, recognizing that individuals from a variety of backgrounds and experiences can benefit from a graduate business education. Students entering graduate study demonstrate both the motivation and the capability to manage effectively. A complete application will include:

- A completed application form, including essays
- Transcript of undergraduate degree from a regionally accredited institution
- Current resume
- Other information may be supplied to support an application, such as GMAT or other test scores, life and work experiences, interviews, and letters of recommendation.
- A TOEFL score of 550 (or 213 for the computer-based test or 80 for the Internet-based test) or higher is required for international students whose primary language is not English.

Appeal Procedure to the Admissions Review Committee

The School of Business recognizes that college work previously undertaken by adults in their earlier years may not reflect current abilities. To allow for a measure of flexibility, the School of Business has formed the Admissions Review Committee to consider petitions from students who do not meet admissions requirements, but believe they have compelling reasons for being granted an exception. Petitions are to be addressed to Enrollment and Operations.

After reviewing each petition, the Admissions Review Committee will make one of three recommendations:

1. The student will be admitted without further qualification;
2. The student will be admitted on provisional status for the first four courses;*
3. The student will be denied admission.

The decision of the Admissions Review Committee is final.

**This status requires that the student earn a cumulative GPA of 3.00 or better in the first four courses. After this requirement is met, the student is transferred automatically to regular admission status.*

School of Business Academic Standards

Standards listed below provide additional information relevant to the School of Business. For policies that apply University-wide, please see the Academic Standards chapter of this Catalog.

Undergraduate Academic Standing

Satisfactory Academic Standing

A student who is making reasonable progress toward graduation (measured by completed credits toward graduation) and who is not subject to academic probation or academic disqualification (see below) is considered to be in good standing. A minimum cumulative GPA of 2.00 in all work taken at the University and in the major is necessary to graduate.

Academic Warning

Students receive an academic warning if they receive grades below 2.0 in two consecutive courses even if their cumulative GPA is 2.00 or higher. Students placed on academic warning receive letters indicating this status but, because they are considered to be in good standing, this action is not reflected on transcripts.

Academic Probation

Academic probation indicates that a student's difficulties are serious and his or her continuation at the University has been placed in question. A student is placed on academic probation when his/her cumulative GPA falls below 2.00. Students have two consecutive courses to restore their cumulative GPA to the 2.00 required for continuing registration and for graduation.

Academic Disqualification

Students are subject to academic disqualification if their cumulative GPA is not restored to 2.00 by the end of the second consecutive course following the academic probation action. Academic disqualification bars students from further study at the University of Redlands for a period of six months. Students who have begun a course prior to receiving notification of academic disqualification are permitted to complete that course.

Restoration to Satisfactory Academic Standing

Students are automatically restored to good standing if their cumulative GPA is restored to 2.00 by the end of the second consecutive course following academic probation.

Reinstatement from Academic Disqualification

No sooner than six months after notification of academic disqualification, students may appeal to the Academic Review Board (ARB) for reinstatement.

Appeals of academic disqualification include the following documentation:

- a plan from the student analyzing his/her academic load, work commitments, and any other factors that might have contributed to poor performance, and what steps the student has taken and will take in the future to correct the situation;
- a letter of support from the student's Student Services Manager or program director indicating a plan for restoration to satisfactory academic standing;
- supporting documents from qualified professionals for students who have experienced medical difficulties or other unusual circumstances;
- for students who have spent time away from the University of Redlands since academic disqualification, official transcripts of work completed during that time must be forwarded to the ARB. Students may include letters of support from persons qualified to assess their ability to return to academic work.

For students who successfully appeal, the notation on their transcripts will be changed from academic disqualification to continued academic probation.

Public Information

The University of Redlands maintains student records in compliance with the Federal Family Educational Rights and Privacy Act of 1974 (as amended)(FERPA), which assures students and parents of their right to privacy of information. The University also complies with the California Education Code, Sections 22509 through 22509.18, which states that

School of Business Academic Standards

the management of student records shall be a matter of federal and state law and regulation.

The following is considered public information and may be released or published without the student's consent:

Student name, date, and place of birth; major field of study; dates of attendance; degrees, honors, and awards received; most recent educational institution attended; campus address, telephone number, and student-assigned e-mail; home address and telephone number; participation in special academic programs; participation in recognized student activities; participation in officially recognized sports; class level, weight, and height of athletic team members.

Students who wish the above information withheld must sign a request within two weeks of their first registration and at the beginning of each academic year (July 1) thereafter. See the Academic Standards chapter of this *Catalog* for more information regarding Academic Records.

Attendance

Students are expected to attend all scheduled meetings of the courses for which they are registered. Students who miss two consecutive class meetings without notifying their instructor may be administratively dropped from the course. Other consequences may arise as a result of enforcement of the requirements of financial aid programs. See the section Dismissal in this section of the *Catalog*.

Concurrent Coursework

A matriculated School of Business student may take the regular course(s) in the student's Schedule of Instruction concurrently with one elective. If this limit is to be exceeded, the student must obtain the approval of his or her program director.

Dismissal

Administrative Dismissal for Non-Attendance

Should a student drop or be dropped from two courses in sequence, or three courses within a twelve-month period of matriculation, the student may be administratively

withdrawn from the program. The amount of the student's financial obligation for tuition and fees is determined by taking the last date the student attended class.

Administrative Dismissal for Financial Obligation

Students who fail to meet their financial obligations to the University will be dismissed and will be accountable for tuition and fees accrued through the dismissal date. Students dismissed for any reason must stop attending class as they are no longer registered.

Examinations

Faculty members may administer quizzes and examinations during a course, but are expected to notify students of quizzes and examinations in the course syllabus. Students will not usually be permitted to make up missed final examinations; however, if absence from any announced examination is required because of an emergency (personal or work-related), the examination may be made up if the instructor is provided with written verification of the emergency.

Incomplete Grades (I)

See the Academic Standards chapter of this *Catalog* for more information regarding incomplete grades. For School of Business students, the deadline to make up an incomplete grade is the end of the eighth week following completion of the course. School of Business students cross-registered in Arts and Sciences courses must meet the Arts and Sciences deadline.

Independent Study

In exceptional cases, independent study provides alternatives not available through regular course offerings or because of scheduling limitations. Credit for a single course or area of study ranges from 2 to 4 credits, but no more than 12 credits can be counted toward the degree.

Students desiring an independent study must first consult with their student services manager. Second, the Associate Dean must approve the independent study and assign and contact the faculty sponsor. Third, the

student must develop an independent study contract with the assigned faculty sponsor. The completed contract, which specifies course requirements (e.g., the number of meetings, readings, fieldwork, papers, and examinations), must be signed by the student and the faculty sponsoring the study. Fourth, the contract must be approved and signed by the Associate Dean prior to enrollment/registration or beginning any work. These four steps must occur in the specified order. An independent study fee must be paid. (See the School of Business Tuition and Fees section of this *Catalog*.)

Re-enrollment

Students who wish to re-enter a program must complete the necessary registration materials. Information regarding available locations and meeting dates may be obtained by contacting one's student services manager.

Students seeking readmission to the University in a **different** degree program from their prior matriculation must meet the requirements of the program in which they plan to enroll. These students have four years from the date of the first class meeting of the new core program to complete their degree.

Students must re-enroll at the beginning of a course and will be charged the tuition rate currently in effect. Students must contact their student services manager in their regional location to re-enroll. A student's account must be current at the time of re-enrollment, or re-enrollment will be denied.

Transfer Credit

Undergraduate

A maximum of 66 lower-division semester credits may be transferred from regionally accredited, two- and four-year colleges. Grades of 2.0 (C) or higher are required. Of the 66 lower-division credits, 24 may come through the College Level Examination Program (CLEP). For students who have upper-division coursework from four-year colleges, transfer credits are accepted up to the total credits required for the degree minus the number of credits earned in the major program. Course waivers from the

major program are allowed up to the residency requirement of 32 credits. Additional work may be required at the discretion of the department or programs. Students already admitted to the University of Redlands who wish to take courses at other institutions to complete their degree may only transfer work completed with a grade of 2.0 (C) or higher. All registration at the other institutions must be approved in advance of enrollment. After completion of the major program, a student may take up to 24 credits from other colleges or universities. If a student requires more than 24 credits to complete degree requirements, the balance of those credits must be taken through the University of Redlands. Quality grade points (derived from number grading) are not awarded for transfer work, and credits for these courses are not calculated into the GPA. A student will not be granted credit for any prior transferable credit coursework that is not declared at admission or during the first term of attendance.

Graduate

Graduate students may transfer a maximum of 8 credits, grade 3.0 (B) required, from regionally accredited institutions to waive program requirements. Transfer credit acceptability is determined during the admissions process. Program requirements may be waived only where the course content equates with a University of Redlands course and when obsolescence is not a factor.

Withdrawal

Students who find it necessary to withdraw from a course or their program must do so in writing. Additionally, students must first discuss their course or program withdrawal requests with their Student Services Manager (SSM). Written requests from School of Business students reaching the Registrar's office without evidence of this consultation will not be processed; the SSM will be asked to contact the student to discuss the student's plan to withdraw. There may be financial ramifications; withdrawing from a course that satisfies prerequisite requirements may also impact the student's ability to remain in the program.

School of Business Academic Standards

In order to drop a course prior to the first meeting, the Registrar must be notified, in writing, before the course begins. No record of the dropped course appears on the student's transcript.

In order for a student to drop a course after the course has begun but prior to the last meeting of the course, the Registrar must be notified in writing. The request should include the last date of attendance. The withdrawal is effective the day after the last date of attendance. The student is responsible for obtaining refunds of tuition and/or charges, which are calculated according to the tuition refund schedule located in the appropriate Tuition and Fees section of this *Catalog*. The student will receive a grade of "W" on his or her transcript.

Should a student miss the first two sessions of a course without notifying the instructor, the student may be dropped from the course without penalty.

If a student is dropped from two courses in sequence, or three courses within a twelve-month period of matriculation, he or she may be administratively withdrawn from the program. The student should then contact the SSM if he or she wishes to re-enroll.

In order to withdraw from the program, the student must notify the Registrar in writing. The request should include the last date of attendance. The withdrawal is effective the day after the last date of attendance. The student is responsible for completing a course in progress at the time of the program withdrawal if the student wishes to receive credit for that course. Academic credit is not given for the partial completion of a course.

School of Business Financial Aid

GENERAL INFORMATION

Every effort has been made to ensure the accuracy of this information at the time of publication. However, due to frequent changes in program regulations mandated by the U.S. Congress, Department of Education, and the State of California, the information contained herein is subject to change without notice.

Financial need is calculated as the difference between the cost of attending college and the expected contribution from students and their families. Financial aid is an award from a scholarship, grant, loan, or work opportunity that will assist in meeting this need.

Financial Aid Vocabulary

Acronyms and initials are frequently used in discussing financial aid; many appear in this publication. Familiarity with the following terms is helpful when investigating potential financial aid programs:

COA	Cost of Attendance
DL	Direct Lending
EFC	Expected Family Contribution
FAFSA	Free Application for Federal Student Aid
GPA	Grade Point Average
IRS	Internal Revenue Service
FSEOG	Federal Supplemental Educational Opportunity Grant
SAR	Student Aid Report

Eligibility

To receive need-based financial aid, a student must meet each of the following conditions:

- The applicant must be a United States citizen, or eligible non-citizen.
- The applicant must have demonstrated financial need according to the current need-analysis procedure.
- The applicant must be registered with the Selective Service if the applicant is a male, at least 18 years old, and not a current member of the active armed forces.
- The applicant must be fully admitted and making progress toward an eligible degree or certificate program.
- The applicant must certify non-participation in the unlawful manufacturing, dispensation, possession, or use of a controlled substance.

OUTSIDE FUNDING SOURCES

Military and Veteran Assistance

Military Benefits

The University of Redlands Adult and Professional Education units (School of Business, School of Education and Continuing Studies) offer a discounted tuition rate to active duty military personnel. This rate traditionally matches the Tuition Assistance rate offered by the military.

In addition, spouses of active duty military personnel are eligible for the same discounted tuition rate; the number of spouse awards is limited per school.

Veterans Benefits

The University of Redlands has been designated by the Veterans Administration as one of the qualified institutions veterans may attend and receive benefits under the following U.S. Codes:

- Chapter 30, Montgomery GI Bill (MGIB)—Active Duty
- Chapter 31, Veterans and Vocational Training and Rehabilitation Act (VR&E) [Public Laws 894 and 97-815]
- Chapter 32, VEAP
- Chapter 33, Post 9-11 GI Bill and Yellow Ribbon GI Education Enhancement Program
- Chapter 34, Vietnam Era Education Program
- Chapter 35, Dependents Educational Assistance Program (DEA)
- Chapter 1606, Montgomery GI Bill—Select Reserve (MGIB-SR)
- Chapter 1607, Reserve Educational Assistance Program (REAP)

The University is a Yellow Ribbon School with the U.S. Department of Veterans Affairs. For more information about VA benefit eligibility, contact the U.S. Department of Veterans Affairs at 1 (888) 442-4551 or visit <http://gibill.va.gov/>. To apply to the Yellow Ribbon Program at University of Redlands, contact a Veteran Certifying Official at (909) 748-8478 or visit www.redlands.edu/military.

School of Business Financial Aid

LOANS

Federal Perkins Loan

This federal loan has an interest rate of 5%. Repayment begins nine months after graduation, upon termination of an academic program, or enrolling in fewer than 6 credits during a term. Repayment extends over a maximum of ten years at a minimum monthly payment of \$40. Additional repayment options may be requested for low-income individuals based upon criteria developed by the U.S. Secretary of Education.

Eligibility. Students with substantial financial need, which is demonstrated by a maximum Pell Grant and FSEOG, will be eligible for the Perkins Loan Program.

Federal Direct Subsidized Student Loan

No interest is charged nor is repayment required while the borrower is enrolled at least half-time. For loans disbursed after July 1, 2012, the interest rate is 6.8%. Students will be eligible for this loan if they demonstrate financial need using standards established by the U.S. Secretary of Education. For more information, visit www.redlands.edu/direct.asp.

Eligibility. Full-time and half-time undergraduate students are eligible to apply. Eligibility is determined through needs analysis, documented via the FAFSA form. Eligibility is limited to U.S. citizens and qualified non-citizens. Also, the student must be officially admitted and registered in a degree-seeking program before the loan can be certified.

Loan Limits. Full-time and half-time undergraduate students may borrow up to \$5,500 per academic year. Maximum aggregate loan amounts for a dependent undergraduate student is \$31,000 (up to \$23,000 may be subsidized); for an independent undergraduate student \$57,500 (up to \$23,000 may be subsidized). Repayment of principal and interest begins six months after leaving school or if enrollment is less than half-time, with up to ten years using standard repayment. For loan periods beginning after July 1, 2012, interest on subsidized loans is no longer paid by the federal government during the six-month grace period. Students are not required to begin making payments until the

grace period ends; however, during the grace period, interest will accrue on subsidized and unsubsidized loans. If interest is not paid during the grace period, it will be capitalized. All loans are assessed a loan origination fee on the amount of the loan.

Federal Direct Unsubsidized Student Loan

This long-term loan is available from the Department of Education. The interest rate on this loan for disbursements made after July 1, 2012 is 6.8%. The Unsubsidized Loan is similar in terms and conditions to the Subsidized Loan, however, interest begins to accrue on the Unsubsidized Loan as soon as the funds are disbursed and during all eligible periods of deferment and the grace period. The student's options in handling the interest on the loan are:

1. Pay the interest and principal;
2. Pay the interest quarterly and defer the principal; or
3. Defer the interest and principal until the student goes into repayment. (Interest will accrue while the student is enrolled and in the grace period. Interest will be capitalized to the loan when the student begins repayment.)

Eligibility. Full-time and half-time students are eligible to apply. Eligibility is documented via the FAFSA form. This loan is available to students who do not demonstrate the financial need necessary to qualify for a subsidized loan.

Loan Limits. Full-time and half-time graduate students may borrow up to \$20,500 per academic year. Undergraduate students may borrow up to \$12,500 per academic year. Maximum aggregate loan limits are: for a dependent undergraduate student, \$31,000; for an independent undergraduate student (or a dependent undergraduate student whose parent does not qualify for the PLUS Loan), \$57,500; for a graduate or professional student, \$138,500.

Federal Direct PLUS Loan for Undergraduate Students

This loan is available to creditworthy parents of undergraduate students, regardless of income. This loan program allows parents to borrow the difference between the cost of education

and the financial assistance the student is scheduled to receive. The interest rate is fixed at 7.9%. When borrowing through this loan program, please remember that the federal government will deduct 4% in fees before funds are disbursed to the University. (For example, if you need to receive a \$5,000 credit on your student account for the year, you should plan to borrow \$5,208 to cover loan fees.) Further, we always recommend that the amount you request be for the entire year. A student and/or parent may request additional information from the Office of Financial Aid or online at www.redlands.edu/plus.asp.

Direct Grad PLUS Loan

The Grad PLUS Loan (GPLUS) is available to creditworthy students enrolled at least half-time in a graduate or professional program. The loan program is not dependent on income and assets and allows students to borrow the difference between the cost of education and the financial assistance they are scheduled to receive. The interest rate for this loan is fixed at 7.9%. It is recommended that students maximize their Direct Loan eligibility before borrowing from this program. For more information, visit www.redlands.edu/dgrad-plus.asp.

NEED-BASED GRANTS

Federal Pell Grants (Undergraduate only)

This federal grant ranges from \$575 to \$5,550 for undergraduate students. The award is determined by the amount of the calculated student contribution in relation to the cost of attending the University of Redlands. Eligibility may extend to the period required to complete the first baccalaureate degree. Grants do not have to be repaid. Eligibility is limited to a total of twelve semesters during the pursuit of the first baccalaureate degree.

Eligibility. Undergraduate students with financial need are eligible. Those eligible generally have a low income and limited assets. Eligibility is determined through needs analysis, documented via the FAFSA form, and is limited to U.S. citizens and qualified non-citizens.

Cal Grant A or B (Undergraduate only)

California resident students must apply directly to the California Student Aid Commission for the Cal Grant by filling out a FAFSA and a GPA verification form by March 2. Forms are available online at www.csac.ca.gov. Cal Grant eligibility is contingent on students and/or parents meeting income and asset requirements.

Federal Supplemental Educational Opportunity Grant (FSEOG) (Undergraduate only)

This federal grant is intended to assist students who demonstrate a substantial financial need; it is administered by the Office of Financial Aid. Grants can be awarded up to \$300 per academic year. A student must qualify for the maximum Pell Grant to receive a FSEOG.

SATISFACTORY ACADEMIC PROGRESS

All students enrolled in undergraduate degree-completion programs or graduate programs through the School of Business must meet the Satisfactory Academic Progress set forth by the University of Redlands and the federal government.

Satisfactory academic progress is evaluated on the basis of the number of credits completed and approved degree requirements, as well as the students' cumulative grade point average (GPA). To receive financial aid at the University of Redlands and maintain satisfactory academic progress, students must meet the following minimum standards when progress is checked at biannual intervals.

All students must complete at least 80% of their attempted credits each academic year. For example, a student whose program is 22 credits for the year must complete at least 18 credits to be in compliance with the University's policy.

GPA

- Undergraduate students—minimum cumulative GPA of 2.0.
- Graduate students—minimum cumulative GPA of 3.0.

School of Business Financial Aid

Time Frame for Completion

The maximum time frame for completion of a program is 150% of the actual program. As an example, the two-and-one-half-year undergraduate degree completion program must be completed in no more than three years. For students who attend less than full-time, the maximum time frame will be prorated accordingly, based on their attendance.

The Office of Financial Aid will review all students receiving financial aid for Satisfactory Academic Progress at equal intervals on a biannual basis. Students who do not meet the above requirements during any SAP review will be placed on a six-month financial aid probation until their subsequent review. Students who wish to continue to receive aid must submit a probationary agreement within thirty days of being notified of probation status. A student will lose financial aid eligibility (financial aid suspension) at the end of the probationary period if they still fail to meet the minimum qualifications when reviewed. Students who wish to petition financial aid suspension must submit a letter of appeal to the SAP Review Board in the Office of Financial Aid.

STUDENT RIGHTS AND RESPONSIBILITIES

The rights and responsibilities of all financial aid recipients as required by federal and state regulations are outlined below.

What students have the right to know:

- The deadlines for submitting an application for each of the available programs.
- How financial need was determined.
- How much of financial need has been met.
- What resources were considered in the calculation of need.
- What financial aid programs are available and their exact requirements.
- How eligibility for financial aid programs is determined, how decisions on eligibility are made, the basis for these decisions, and the procedures for appealing decisions if a student has been treated unfairly.
- What portion of financial aid is a loan, and what portion is a grant. If the aid is a

loan, you have the right to know the total amount that must be repaid, the amount of each payment, the interest rate, the length of time to repay the loan, and when repayment is to begin.

- What it costs to attend the University of Redlands and what the University's refund policy requires.
- How the University determines satisfactory progress has been met, and what happens if it is not met.
- What happens if a student withdraws or drops out during the year.

Responsibilities of students:

- You should carefully read all information regarding programs at the University of Redlands.
- You must complete all forms accurately and submit them on time to the correct agency or office.
- You should be careful and accurate in completing your application for student financial aid. Errors can result in long delays in your receipt of financial aid. Intentional misreporting of information on application forms for federal financial aid is a violation of law and is considered a criminal offense subject to penalties under the U.S. Criminal Code.
- You must be aware of and comply with the deadlines for application and reapplication for aid.
- You need to maintain good academic standing and make satisfactory progress.
- You are required to report to the Office of Financial Aid if you drop below full-time status.
- You must provide all additional documentation, verification, corrections, and/or new information requested by either the Office of Financial Aid or by any agency to which you submitted an application.
- You have to update information concerning name change, address change, withdrawal, or graduation as they occur. Notify the Office of Financial Aid or any agency that has awarded you funds.

- You must accept responsibility for reading, understanding, and keeping copies of all forms that you are asked to sign.
- You must comply with all applicable policies and regulations when you accept financial aid from any source.
- You should keep track of the total amount of your loans as you go through school so that you have accurate knowledge of the total amount you owe when it is time to begin repayment.
- If you have received a Federal Direct Student Loan or a Federal Direct Loan from the Office of Financial Aid, you must complete an exit interview as required by federal law before graduating, transferring, or withdrawing from the University of Redlands.
- You must perform the work that is agreed upon in accepting a work opportunity award. You are required to monitor your earnings and not to exceed the maximum amount of work opportunity award. Overworking will necessitate a reduction of other forms of financial aid in your package.
- If you receive additional funds from any source, such as outside scholarships, before or after you receive financial aid from the University, you must report the source and value of the award to the Office of Financial Aid. Receipt of additional funds frequently requires an adjustment to the existing financial aid award to avoid an "over-award" as defined by federal and state regulations.

FEDERAL REFUND POLICY

Students who withdraw or take a leave of absence from the University during an academic term may receive prorated aid and tuition based on their federally required withdrawal calculation. The withdrawal calculation reevaluates aid eligibility at the time of withdrawal by accounting for "earned" versus "unearned" aid based on the amount of time that has elapsed during the term. There are three steps that the University of Redlands must complete to comply with the federal policy:

1. Determine the withdrawal date.
2. Determine the amount of earned federal aid.
3. Return unearned federal funds to the appropriate program(s).

The withdrawal date is the date the student gives official notification of their intent to withdraw. For the withdrawal to be considered official, the student must provide written notification to the Office of the Registrar after consultation with their Student Services Manager. If the student fails to withdraw officially, the applicable date will become the midpoint of the term, unless the University can document a later date. In certain circumstances, if a later date of last academic activity is substantiated, this date can be used in lieu of the midpoint of the term.

Students who withdraw before completing at least 60 percent of the term will "earn" funds in direct proportion to the time they were enrolled. The percentage of earned aid is determined by dividing the total number of calendar days enrolled by the total number of days in the term. Students who complete at least 60 percent of the term are eligible for 100 percent of their federal financial aid.

Unearned aid must be returned to the appropriate programs in accordance with the calculations schedule approved by the U.S. Secretary of Education. Refunds to specific Title IV programs will be made according to current regulations. For additional information on the refund calculation and refund schedule, see the Tuition and Fees section of this *Catalog*.

APPLICATION PROCEDURES AND DEADLINES

- Complete the Free Application for Federal Student Aid (FAFSA)* by March 2 prior to the academic year of anticipated entrance.
- All California residents who also wish to apply for a Cal Grant must submit a GPA verification to CSAC by March 2, prior to the academic year of anticipated entrance.
- Apply for a Pell Grant by completing the FAFSA.

*May be submitted online at www.fafsa.gov or mailed by paper format.

School of Business Financial Aid

UNIFORM CRIME REPORTING

For information regarding compliance with federal regulations on uniform crime reporting, please refer to the Legal Statements section of this *Catalog*.

DRUG-RELATED CONVICTIONS AND STUDENT INELIGIBILITY

Title IV financial aid eligibility is suspended for students convicted of violating State or Federal drug possession or sale laws that occurred during a period of enrollment for which a student was receiving Title IV aid.

For drug possession convictions, eligibility is suspended:

- one year for the first offense,
- two years for the second offense, and
- indefinitely for the third offense.

For drug sale convictions, eligibility is suspended:

- two years for the first offense, and
- indefinitely for the second offense.

A student's Title IV financial aid eligibility may be resumed before the end of the ineligibility period if:

- the student satisfactorily completes a drug rehabilitation program which complies with criteria established by the Secretary and such a program includes two unannounced drug tests; or
- the conviction is reversed, set aside, or otherwise removed from the student's record.

APPEAL PROCESS

Any student wishing to appeal a financial aid decision must do so in writing to the University of Redlands, Office of Financial Aid.

INFORMATION AND ASSISTANCE

For further information about financial aid or for assistance in completing any of the application forms, write: Office of Financial Aid, University of Redlands, P.O. Box 3080, Redlands, CA 92373-0999; or call Monday through Friday, 8:00 a.m. to 5:00 p.m., at (909) 748-8047 or contact them at: financialaid@redlands.edu.

School of Business Tuition and Fees

The following schedules list the principal expenses and regulations concerning the payment of fees for the 2012-2013 academic year. **Expenses are subject to change.** When such changes are made, notice will be given as far in advance as possible.

Fees for the 2013-2014 academic year will be published during summer 2013.

TUITION, FEES, AND EXPENSES

Numbers in columns indicate dollar amounts.

Tuition, per credit

B.S., Business	\$652
B.A., Management	652
M.A., Management	761
M.B.A.	761
M.S., Information Technology.	761
Certificate Programs	761
Electives for Business (undergraduate), per credit	652
Electives for Business (graduate), per credit	761

Audit, per credit

Audited courses are billed at the current per-credit rate for the degree program in which the course resides.

Independent Study Fee \$275

The independent study fee must be prepaid and is non-refundable. Independent study courses are billed at the current per-credit rate for the degree program in which the course resides.

Repeat Courses, per credit

Repeated courses are billed at the student's per-credit program rate, provided he/she is currently enrolled in his/her core program. All other courses will be billed at the current per-credit rate for the degree program in which the course resides.

Other Fees

Textbooks

Students purchase textbooks at market price at the time of purchase.

Student Services Fee

Per course	\$30
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Cross-registration with Arts and Sciences

Full-time School of Business students may cross-register for one Arts and Sciences course per term as part of their degree program with the approval of their Student Services Manager, provided the course does not duplicate a School of Business offering. Classes must be at the intermediate or advanced level (courses numbered 300 through 499). Arts and Sciences add requests must be signed by the student's Student Services Manager and the Registrar. Part-time students are subject to the same regulations applicable to full-time students.

Other Special Costs

Replacement Diploma Fee	\$50
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Examination for Credit in

Lieu of Coursework, per credit. \$295
Available only to full-time students who have not previously audited or attended the course.

Matriculation Fee

(not refundable) \$150
Encompasses costs incurred by the University for maintenance of students' permanent records.

Degree Completion Extension Fee

Fee must be prepaid \$350
When an extension is granted to a student for degree completion, all options for gaining earned and certified credit will remain open to the student during the time of the extension. The extension for degree completion will begin on the date of the student's originally scheduled deadline.

Transcripts of Records, each copy	\$5
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Methods of Payment

Tuition and fees are billed course-by-course with payment due 45 days from the invoice date. All charges must be paid in full or application must be made to the University's approved tuition installment plan (TuitionPay)* prior to the tuition due date. All remittances should be made payable to the University of Redlands.

Students with a past due balance on their University account are subject to dismissal from the University. The University will not

School of Business Tuition and Fees

release transcripts or a diploma until the past due balance is paid in full.

Students will not be permitted to pre-register for the next term until the past due balance is paid in full.

If the University is required to use third-party collections (i.e., collection agency or attorney) to collect the student account balance due, any future registration may require payment in advance.

For information regarding student and parent loan programs, please refer to the appropriate category in the Financial Aid section of this *Catalog*.

**For information regarding the tuition installment plan (TuitionPay), please contact the Student Accounts office.*

Policy on Refunds

Refund policies at the University of Redlands are established in compliance with the 2008 amendments to the Higher Education Act of 1965. The University has adopted the federal refund policy guidelines as its institutional policy. Refund policies are subject to change at any time, according to federal and state regulations. When such changes are made, notice will be given as far in advance as possible. To obtain a refund or a separate publication outlining examples of refund policy requirements and calculations, please contact the Student Accounts office. Refunds are based on the date of official withdrawal.

Students receiving federal Title IV financial aid funding may be eligible for a refund according to the federal refund guidelines. Federal regulations stipulate the allocation of refunds representing federal aid and the repayment requirements for students receiving cash disbursements of federal aid.

Official Withdrawal

A withdrawal is considered official when written notice has been provided to the Office of the Registrar stating the intention of the student to discontinue the course(s) or program in which he/she is registered or the University administratively withdraws students from courses or programs for non-attendance, financial non-payment, or academic actions. Written withdrawal

notification must include the last date of attendance. The withdrawal will be considered effective as of the last date of attendance.

If a student fails to attend the first two sessions of any course, the student may be administratively dropped from the course by the University. If a student is dropped from two courses in sequence or three courses within a twelve-month period, he/she may be administratively withdrawn from the program and will be charged in accordance with the University's Refund Policy.

Returning Students

Students re-enrolling after withdrawal from the University will be charged current rates and fees based on the start date of new registration.

Noncompliance with Admission Deadlines

Students who begin coursework and then are denied admission because of failure to complete their admissions files by the end of the first course will be charged in accordance with the University's Refund Policy.

Denial of Admission

Students who are denied admission to a program after beginning their coursework may immediately withdraw or continue the current course. Students will be liable for 100% of the course costs for all courses completed. Course costs include per-credit tuition, matriculation fees, and related course fees. Academic credit will be received for all completed courses. A withdrawal is considered official when written notice is provided to the Office of the Registrar stating the student's intention to withdraw.

Allocation of Federal Portion of Refunds after Withdrawal

If a student must have a portion of their Title IV Funds returned as a result of their withdrawal calculation (see *Withdrawal*, page 289), the funds must be returned in the order dictated by federal guidelines. Current return guidelines indicate that funds must be returned in the following program order:

1. Unsubsidized Federal Direct Loan
2. Subsidized Federal Direct Loan
3. Federal Perkins Loan
4. Federal PLUS Loan (includes Grad PLUS)
5. Federal Pell Grant
6. Academic Competitiveness Grant (ACG)
7. National Smart Grant
8. Federal SEOG
9. Federal Teach Grant
10. Other Title IV Assistance

Repayment Policy

Some students receive financial aid beyond the cost of tuition and fees. In those cases, a student may have requested and received a credit balance refund from their student account. If a student withdraws completely or is disqualified, the student will be expected to repay the calculated refund using the federally mandated refund policy guidelines. Failure to repay funds could cause suspension from future participation in any federal financial aid programs.

School of Business Graduation Requirements

UNDERGRADUATE

Catalog Requirement

Students must complete the graduation requirements as stated in the catalog for the year of admission. If a student is readmitted, the requirements prevailing at the time of readmission must be met. A student is not free to select graduation requirements from more than one catalog.

Quantity and Quality of Work

To graduate, students must complete all of the requirements of their degree programs and earn at least 120 credits of academic credit. Students must maintain a grade point average (GPA) of 2.00 or better in all work taken at the University of Redlands. Quality grade points (derived from numeric grading) are not awarded for transfer work or courses taken on a Credit/No Credit basis, and credits for these courses are not calculated in the GPA.

Graduation Requirements

Students must fulfill five basic requirements before receiving a baccalaureate degree:

- Completion of 120 semester credits of study, of which at least 32 credits must be earned or certified at the University of Redlands.
- Completion of the major program to which the student was admitted. The specific requirements are outlined in this *Catalog*.
- Satisfaction of General Education requirements consisting of a minimum of 42 semester credits, as listed under general education requirements.
- A minimum cumulative GPA of 2.00 earned for all college-level work taken at the University of Redlands.
- Students in degree-completion programs must complete all requirements within four years from the date of the first class meeting. Students who do not complete their degrees within the four-year completion limit may apply for a degree extension, up to a maximum of three years (total of seven years from the original matriculation date in the degree program).

Students in programs that have been eliminated or dramatically changed may be required to complete the degree requirements in place at the time of an approved degree extension. If the extension is approved by the Associate Dean of the School, the Associate Dean will also determine if the student must complete the program in place at the time of the approved extension. If the extension is approved, a Degree Completion Extension Fee is assessed and must be paid before any registration can take place and/or credit applied to the student's record. Please refer to the School of Business Tuition and Fees section of this *Catalog* for more details. Should a student fail to complete the degree within the extension period, he or she must apply for readmission to the University and complete the degree requirements in place at the time of re-enrollment.

General Education Requirements

While the School of Business major programs focus primarily on advanced work in business-related courses, the School believes that well-educated students also need experience in arts and humanities, behavioral and social sciences, mathematics and science, and writing and communication. General education requirements, therefore, constitute a significant portion of the degree and are intended to acquaint students with the variety of theoretical concepts and the diversity of methodologies employed in the pursuit of knowledge.

The degree comprises 120 credits divided into three areas: general education, the major, and electives. Each student must earn 42 semester credits of general education, distributed among four categories: Arts and Humanities (AH), Mathematics/Science (MS), Behavioral/Social Science (SS), and Writing and Communication (WC). Among the four categories, each has its own required number of credits, as noted below. Six of these credits are the student's individual choice and may be taken from any of the categories. A minimum of 9 of these credits must

School of Business Graduation Requirements

be earned in upper-division courses. No individual course can fulfill more than one category requirement.

Students, with the assistance of their Student Services Manager, are responsible for monitoring their progress toward fulfillment of the General Education requirements. The students bear the ultimate responsibility for monitoring academic progress and ensuring fulfillment of all degree requirements.

Arts and Humanities (AH). A minimum of 12 semester credits is required.

Behavioral/Social Science (SS). A minimum of 9 semester credits is required.

Mathematics/Science (MS). A minimum of 9 semester credits is required. Students are required to take at least one 3-credit college-level mathematics course. At least one (minimum 1-credit) natural science course (biology, chemistry, physics, geology, physical geography, astronomy, oceanography and physical anthropology) is required. Students may take one course in computer science or another science.

Writing/Communication (WC). Minimum of 6 semester credits is required. Students must take at least one course in English composition.

General Education requirements may be fulfilled by:

- transfer of appropriate and acceptable credit from other colleges or universities; or
- successful completion of the appropriate Electives for Business courses; or
- successful petitioning of the appropriate courses through the School of Business Prior Learning Assessment Center or certificated learning, either certified by the American Council on Education or the University of Redlands; or
- successful completion of CLEP, DANTES, or DSST exams; or
- Advanced Placement

Bachelor of Science in Business

The following courses in the Bachelor of Science in Business schedule of instruction qualify as General Education courses and partially fulfill General Education graduation requirements.

Writing/Communication (WC)

- BUSB 301 Critical Analysis: Written and Oral Communication (4)

Social Science (SS)

- BUSB 230 Economics for Business (4)
- BUSB 300 Ethical and Legal Environment of Business (4)

Natural Science and Mathematics (MS)

- BUSB 145 Mathematical Foundations for Business (4)
- BUSB 232 Business Statistics (4)
- BUSB 260 Financial and Managerial Accounting (4)
- BUSB 333 Business Information Systems (4)

Bachelor of Arts in Management

The following courses in the Bachelor of Arts in Management schedule of instruction qualify as General Education courses and partially fulfill General Education graduation requirements.

Writing/Communication (WC)

- BUSB 301 Critical Analysis: Written and Oral Communication (4)

Social Science (SS)

- BUSB 230 Economics for Business (4)
- BUSB 300 Ethical and Legal Environment of Business (4)

Arts and Humanities (AH)

- BAMG 401 Critical Perspectives for Management (4)

Natural Science and Mathematics (MS)

- BUSB 145 Mathematical Foundations for Business (4)

School of Business Graduation Requirements

Application for Graduation

Students complete a formal application for diploma thirty days prior to completion of all degree requirements. Applications may be obtained from the student's Student Services Manager.

Commencement

The School of Business enrolls students throughout the year and has students completing degree requirements at various points during the year. Students may commence in the academic year in which they complete their degree requirements if their degree requirements are completed by February 1. An application to participate in commencement must be completed and post-marked by January 25.

Students enrolled in a degree program with a Schedule of Instruction (SOI) that is completed by August 31 may apply to participate in commencement that year provided there are eight (8) or fewer credits to be completed in addition to the remaining courses in the SOI. Students whose SOIs were completed prior to February 1 and with as many as eight (8) credits still needed may also apply to participate in commencement. An application must include a reasonable plan for completing the remaining credits by August 31 and should be sent to one's Student Services Manager, postmarked by January 25.

Graduate Programs

Requirements vary among graduate programs. Students should consult the appropriate departmental listing in this *Catalog* for specific requirements. However, the following regulations pertain to graduate students in all programs at the University of Redlands.

Credit Obsolescence

No course that has been completed more than six years before the date of graduation shall be counted toward a University of Redlands graduate degree.

Students who do not complete their degrees within the six-year completion limit may apply for a degree extension, up to a maximum of two years (total of eight years from the original matriculation date in the degree program).

Students in programs that have been eliminated or drastically changed may be required to complete the degree requirements in place at the time of an approved degree extension. If the extension is approved by the Associate Dean of the School, the Associate Dean will also determine if the student must complete the program in place at the time of the approved extension. Additionally, an approved degree completion extension will extend the Credit Obsolescence the same amount of time. If the extension is approved, a Degree Completion Extension Fee is assessed and must be paid before any registration can take place and/or credit applied to the student's record.

Minimum Credit and Curriculum Requirements

The minimum number of credits required varies according to the program. See individual listings for this information.

Curricula for School of Business graduate degree programs may be subject to change each year. School of Business students should consult the annual supplementary publication.

Prerequisite Courses

For admission to a course that requires a prerequisite, a student must have satisfactorily completed a prerequisite course with a grade of 1.7 or higher.

School of Business Awards and Honors

Gordon C. Atkins Memorial Scholarship Award

This award recognizes School of Business graduates for their academic achievement and program participation. It is given annually in memory of Dr. Atkins, who helped create the Alfred North Whitehead College.

Walker Ethics Award

Recipients are students enrolled in the School of Business who demonstrate an understanding of the importance of ethics within organizations by submitting a written essay, research paper, or case study addressing an ethical problem, issue, or accomplishment within a particular organization.

Banta Community Service Award

Recipients are students enrolled in the School of Business who demonstrate a commitment to their communities through philanthropic, volunteer, and/or service activities.

Alice Mozley Endowed Business Scholarship Award

This award recognizes an outstanding undergraduate or graduate student enrolled in the School of Business.

Williamina Davidson, Evelyn Reamer Matich '51 and Catherine Matich '49 Endowed Scholarship Award

This award recognizes an undergraduate or graduate student from Riverside or San Bernardino counties enrolled in the School of Business.

Kathie J. Rawding Endowed Scholarship Award

Recipients are female undergraduate or graduate students of color enrolled in the School of Business who possess high potential for success, have demonstrated financial need, and are not receiving tuition remission from an employer.

Whitehead Leadership Society

The purpose of the Whitehead Leadership Society (WLS) is to encourage leadership and academic excellence within the School of Business.

As facilitators of professional education and lifelong learning, individual members provide active service and support to the

University community, foster an academic climate to enhance student achievement, focus on increasing productive student and faculty dialog, and honor the traditions of liberal education.

Students who have demonstrated leadership among their student peers may be nominated. All full-time and adjunct faculty are qualified to join the society.

High Distinction

Undergraduate honors are identified as High Distinction on the transcripts and diplomas of students who have maintained a GPA of 3.96 or higher. For undergraduate students to have their honors recognized in the printed program at commencement, all of their degree requirements must be met by March 1. There are no exceptions to this honors policy.

THE BANTA CENTER FOR BUSINESS, ETHICS, AND SOCIETY

The School of Business is home to the Banta Center for Business, Ethics, and Society, endowed in 2006 by distinguished alumnus David Banta ('63). It offers special programs to promote the examination of ethical issues in corporate and professional life. It advances students' awareness of ethical problems and improves their ability to make ethical decisions by offering co-curricular lectures and seminars, as well as student awards and fellowships. Its faculty also oversees the development of the School of Business's ethics curriculum, including the business ethics courses that are required in every degree program.

Banta Research Fellowships

Twice each academic year, the Banta Center for Business, Ethics, and Society appoints up to three School of Business students to assist the faculty with research projects related to business ethics and corporate responsibility. Recipients receive tuition remission.

Banta Community Service Award

The Banta Center for Business, Ethics, and Society offers students enrolled in the School of Business tuition remission for their commitment to their communities through philanthropic, volunteer, and other service activities outside the classroom.

School of Business Awards and Honors

Walker Ethics Award

The Banta Center for Business, Ethics, and Society offers students enrolled in the School of Business tuition remission for demonstrating an understanding of the importance of ethics and corporate responsibility by submitting a written essay, research paper, or case study addressing an ethical problem, issue or accomplishment within a business or industry. Submissions are solicited each academic year.

School of Business Programs of Study

UNDERGRADUATE PROGRAMS

The School of Business faculty works continuously to improve its undergraduate degree programs in response to feedback from students, stakeholders, and business leaders concerning the current subject needs for high-quality business education. Program features can and do change over time in order to ensure business relevance and to offer innovative features that make the programs more valuable to students. Consult with admissions for the most up-to-date version of our programs.

The Bachelor of Science in Business

The Bachelor of Science in Business is designed to enhance the knowledge and effectiveness of business professionals by linking their experiences with concepts from various business disciplines. Students learn how to apply business concepts in solving problems, synthesizing information as reflective practitioners, and integrating knowledge learned in real-world and classroom settings. The themes of ethics, communication, critical thinking, and organizing global knowledge from a cultural and geographic perspective are woven into the program and demonstrated in course projects. The program culminates in the development and presentation of a capstone paper.

Learning Outcomes

Learning outcomes for this program may be found at:

http://www.redlands.edu/docs/academics/business_student_learning_outcomes.htm

Requirements:

The major program consists of fifteen required core courses totaling 60 semester credits. Course descriptions are found in the section of this *Catalog* titled School of Business Course Descriptions.

Core Courses:

15 courses 60 credits

- BUSB 300 Ethical and Legal Environment of Business (4)
- BUSB 301 Critical Analysis: Written and

Oral Communication (4)

- BUSB 145 Mathematical Foundations for Business (4)
- BUSB 330 Managing and Leading Organizations (4)
- BUSB 230 Economics for Business (4)
- BUSB 333 Business Information Systems (4)
- BUSB 232 Business Statistics (4)
- BUSB 340 Principles of Marketing (4)
- BUSB 260 Financial and Managerial Accounting (4)
- BUSB 342 International Business (4)
- BUSB 361 Financial Management (4)
- BUSB 370 Managing Quality and Operations (4)
- BUSB 433 GIS for Business (4)
- BUSB 481 Strategic Management (4)
- BUSB 485 Capstone: Analysis and Integration in Business and Management (4) OR BUAD 495 Business Consultancy Capstone (4) OR INTB 495 Global Business Consultancy Capstone (4)

The Bachelor of Arts in Management

The Bachelor of Arts in Management offers students a well-rounded educational experience that focuses on the development of management and leadership skills. The program is of particular interest to those who need to complete their baccalaureate education to move up in the organizational hierarchy and want to supplement their current skills with specific business functions (such as finance, budgeting, operations, information systems, etc.) with specialized knowledge of leadership and organizational behavior. The core of the Management program provides students with a conceptual foundation on managing and leading people and organizations; it also emphasizes demonstrable communication skills that help students evolve as managers and leaders in the future. Students have the opportunity to relate the classroom experience to their current jobs and apply their new knowledge.

School of Business Programs of Study

Learning Outcomes

Learning outcomes for this program may be found at:

http://www.redlands.edu/docs/academics/business_student_learning_outcomes.htm

Requirements:

The major program consists of fifteen required core courses totaling 60 semester credits. Course descriptions are found in the section of this *Catalog* titled Course Descriptions.

Core Courses:

15 courses 60 credits

- BUSB 300 Ethical and Legal Environment of Business (4)
- BUSB 230 Economics for Business (4)
- BUSB 301 Critical Analysis: Written and Oral Communication (4)
- BUSB 145 Mathematical Foundations for Business (4)
- BUSB 330 Managing and Leading Organizations (4)
- BAMG 232 Data Analysis and Decision Making for Managers (4)
- BAMG 401 Critical Perspectives on Management (4)
- BAMG 356 Human Resources Management (4)
- BAMG 334 Understanding Informational Contexts (4)
- BAMG 365 Accounting and Finance for Managers (4)
- BAMG 430 Advanced Topics in Organizational Behavior and Management (4)
- BUSB 342 International Business (4)
- BUSB 340 Principles of Marketing (4)
- BUSB 481 Strategic Management (4)
- BAMG 485 Management Capstone (4)
OR BUAD 495 Business Consultancy Capstone (4) OR INTB 495 Global Business Consultancy Capstone (4)

The School of Business offers electives that are designed to assist undergraduate students in accomplishing their academic goals. This is done by providing elective courses in general education and business that enhance and

complement the core program, offer academic depth and breadth in areas of interest, and enable students to earn academic credit toward degree completion. Weekend and evening courses are conveniently scheduled at regional campus locations throughout Southern California and on the main campus in Redlands. For further information and for the schedule of business electives being offered, please visit the University's web site at <http://www.redlands.edu/academics/school-of-business/business-electives.aspx>.

Optional Concentrations

Students in the Bachelor of Science in Business and the Bachelor of Arts in Management programs may add an optional concentration to their degrees. Five concentrations are available: Accounting, Human Resources Management, Marketing, Organizational Leadership, or Purchasing, Logistics, and Supply Chain Management.

Concentration Requirements

Accounting. 26 credits

- ACCTCS 210 Principles of Financial Accounting and Reporting (4)
- ACCTCS 220 Principles of Managerial Accounting (4)
- ACCTCS 310 Intermediate Accounting I (4)
- ACCTCS 320 Intermediate Accounting II (4)
- ACCTCS 410 Auditing (4)
- ACCTCS 415 Tax Accounting (4)
- ACCTCS 421 Governmental and Not-for-Profit Accounting (2)

Human Resources

Management 16 credits

- HRCS 310 Human Resources Management (4)
- HRCS 311 Legal Aspects of Human Resources Management (3)
- HRCS 312 Employee Recruitment and Selection (3)
- HRCS 313 Compensation and Benefits Administration (2)
- HRCS 314 Performance Management (2)

Complete two of the following courses:

- HRCS 316 Ethics in Human Resources Management (1)
- HRCS 317 Risk Management and Workers Compensation Administration (1)
- HRCS 318 Training and Development (1)

Marketing 17 credits

- BUSCS 340 Principles of Marketing (4)
- BUSCS 341 Marketing Research (3)
- BUSCS 342 Customer Experience Management (3)
- BUSCS 343 Internet and Social Media Marketing (2)
- BUSCS 344 Integrated Marketing Communication (3)
- BUSCS 345 Marketing Analytics (2)

Organizational Leadership

Concentration 12 credits

- BUSCS 320 Managing Individual Performance (3)
- BUSCS 321 Coaching and Mentoring (1)
- BUSCS 322 Leading and Managing Teams (2)
- BUSCS 323 Managing and Resolving Conflict (2)
- BUSCS 324 Organizational Change Management (2)
- BUSCS 325 Organizational Leadership Principles and Practice (2)

Purchasing, Logistics, and

Supply Chain Management . . 12 credits

- BUSCS 310 Supply Chain Management Principles and Practices (3)
- BUSCS 311 Supply Chain Management Logistics (3)
- BUSCS 312 Supply Chain Management Procurement (3)
- BUSCS 313 Supply Chain Management Practicum (3)

The Assessment of Prior and Experiential Learning

School of Business undergraduate students have the opportunity to earn certified credit toward graduation requirements through prior learning assessment, which is the review

of college-level learning acquired in some courses, as well as outside the environment of an academic institution. Students develop a portfolio of prior and experiential learning in HUMB 310: Interpreting Experience. Students will examine and interpret personal and professional learning experiences and then relate those experiences to specific college-level learning outcomes. Instead of challenging a course by exam, portfolio students challenge courses by written narrative. The portfolios are evaluated by faculty through the Prior Learning Assessment Center at the School of Business to determine if credit may be certified for significant prior learning, demonstrated in writing, which relates to selected University of Redlands courses. The portfolio also includes sections devoted to the assessment of ACE-evaluated courses—military or business—and other professional and certificated training. Students wishing to submit only their professional and military training for assessment may do so without taking the HUMB 310 course.

Credits earned through the prior learning assessment process may be used to meet General Education category requirements and general graduation requirements. A maximum of 30 credits may be certified through faculty assessments of prior and experiential learning, including assessed prior learning credits from other institutions. The services of the Prior Learning Assessment Center are available only to students in the School of Business undergraduate programs. Faculty policy permits prior and experiential learning credit to be used for admission, but the credits, like all prior and experiential learning credits, are posted to student transcripts only upon completion of all other degree requirements at the time of degree certification.

Study Abroad Programs

Students may choose from a growing number of study abroad programs such as INTB 477 International Business: Perspectives from Asia, or INTB 476 Cambridge Study: Trends in Global Business, or INTB 470 International Area Studies, which includes programs in Costa Rica, Europe or other regions of the world. These can replace BUSB 342 International Business or can serve as an elective

School of Business Programs of Study

course. These programs are tailored to the schedules of working adults, concentrating the travel portion of the course over two weeks.

GRADUATE PROGRAMS

The School of Business faculty works continuously to improve its graduate degree programs in response to feedback from students, stakeholders, and business leaders concerning the current subject needs for high-quality business education. Program features can and do change over time in order to ensure business relevance and to offer innovative features that make the programs more valuable to students. Consult with admissions for the most up-to-date version of our graduate programs.

The Master of Business Administration

The Master of Business Administration (M.B.A.) provides a foundation in the core functions of business and the development of leadership and integrity, enhanced through a firm grounding in the University of Redlands' rich liberal arts tradition. Successful leaders need attributes drawn from a liberal education, especially the ability to think critically, communicate effectively, and work in teams. The Master of Business Administration program provides an academic balance through a combination of conceptual knowledge, critical thinking, and practical application in the fundamental disciplines of business and management. Class sessions include seminars, lectures, simulations, case analyses, and small group activities. Student interaction inside and outside of the classroom is key to a successful experience. Emphasis courses are delivered in a web-enhanced format that combines in-class sessions with online activities.

Learning Outcomes

Learning outcomes for this program may be found at:

http://www.redlands.edu/docs/academics/business_student_learning_outcomes.htm

M.B.A. Requirements

The program consists of twelve required courses totaling 48 credits. Course descriptions are found in the Course Descriptions section of this *Catalog*.

- BUAD 610 Contexts for Contemporary Business (4)
- BUAD 648 Applied Business Statistics (4)
- MGMT 667 Business, Ethics, and Society (4)
- BUAD 641 Managerial Economics (4)
- BUAD 659 Accounting for Managers (4)
- MGMT 680W Marketing Management (4) OR FINC 661W Financial Markets and Institutions (4) OR GISB 691W GIS for Marketing (4) OR INTB 694W Global Marketing (4) OR ISYS 681W Customer Information Strategies (4)
- BUAD 660 Managerial Finance (4)
- BUAD 683 Information and Knowledge Management (4)
- BUAD 655W Global Business (4) OR INTB 693W Global Finance (4) OR GISB 692W Spatial Analysis for Global Business OR ISYS 680W Global Information Systems (4) OR FINC 662W Investment Theory and Analysis (4) OR INTB 694W Global Marketing (4) OR INTB 677 International Marketplace: Perspectives from Asia (4) OR INTB 676 Cambridge Study: Challenge of Study: Global IT Services Marketplace (4) OR INTB 670 International Area Studies (4)
- MGMT 631 Management and Organization Theory (4)
- MGMT 650 Management Science and Decision Analysis (4)
- MGMT 697W Strategy Capstone (4) OR FINC 664W Financial Strategy Capstone (4) OR GISB 693W GIS Strategy: Concepts and Implementation (4) OR INTB 692W Global Strategy Capstone (4) OR ISYS 683W Information Systems Strategy Capstone (4) OR MGMT 694W Marketing Strategy Capstone (4) OR BUAD 695 Business Consultancy Capstone (4) OR INTB 695 Global Business Consultancy Capstone (4)

M.B.A. Emphases

Students may add an optional emphasis to their M.B.A. degree. An emphasis consists of three courses in a focused area. These specialized courses are substituted for selected core courses in the M.B.A. program and do not add to the overall length of the program. Five areas of specialization are available: Finance, Geographic Information Systems, Global Business, Information Systems or Marketing.

Finance Emphasis

The Finance Emphasis focuses on developing comprehensive insight into financial markets and analyzing the rationale behind the financial actions taken within firms. Finance emphasis courses examine the linkages between the financial structures present in the external environment and the financial arrangements internal to business.

Finance Emphasis Requirements:

Completion of three 4-credit courses:

- FINC 661W Financial Markets and Institutions (4)
- FINC 662W Investment Theory and Analysis (4) or approved study abroad course
- FINC 664W Financial Strategy Capstone OR BUAD 695 Business Consultancy Capstone (4) OR INTB 695 Global Business Consultancy Capstone (4)

Geographic Information Systems Emphasis

The Geographic Information Systems (GIS) Emphasis focuses on producing management professionals who can analyze and resolve complex business problems utilizing spatial information and analysis. Students have the flexibility to develop their capabilities with spatial and geographic approaches to the analysis of business activities. Students who opt for this area of specialization will approach business issues from an international perspective and develop capabilities required when confronting global business challenges.

GIS Emphasis Requirements:

Completion of three 4-credit courses:

- GISB 691W GIS for Marketing (4)
- GISB 692W Spatial Analysis for Global Business (4) or approved study abroad course
- GISB 693W GIS Strategy: Concepts and Implementation (4) OR BUAD 695 Business Consultancy Capstone (4) OR INTB 695 Global Business Consultancy Capstone (4)

Global Business Emphasis

The Global Business Emphasis approaches business issues from an international perspective and develops capabilities required when confronting global business challenges.

Global Business Emphasis Requirements:

Completion of three 4-credit courses:

- INTB 694W Global Marketing (4)
- INTB 693W Global Finance (4) OR approved study abroad course
- INTB 692W Global Strategy Capstone (4) OR BUAD 695 Business Consultancy Capstone (4) OR INTB 695 Global Business Consultancy Capstone (4)

Information Systems Emphasis

Students who choose this area of specialization will develop capabilities to meet the challenges of evolving trends in information technology and systems management.

Information Systems Emphasis Requirements:

Completion of three 4-credit courses:

- ISYS 681W Customer Information Strategies (4)
- ISYS 680W Global Information Systems (4) OR approved study abroad course
- ISYS 683W Information Systems Strategy Capstone (4) OR BUAD 695 Business Consultancy Capstone (4) OR INTB 695 Global Business Consultancy Capstone (4)

Marketing Emphasis

The Marketing Emphasis focuses on the fundamentals of domestic and global marketing strategy.

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Marketing Emphasis Requirements:

Completion of three 4-credit courses:

- MGMT 680W Marketing Management (4)
- INTB 694W Global Marketing (4)
OR approved study abroad course
- MGMT 694W Marketing Strategy
Capstone (4) OR BUAD 695 Business
Consultancy Capstone (4)
OR INTB 695 Global Business
Consultancy Capstone (4)

Study Abroad Programs

Students may choose from a growing number of study abroad programs such as INTB 677 International Marketplace: Perspectives from Asia, or INTB 676 Cambridge Study: Challenge of Global Business, or INFT 676 Bangalore Study: Global IT Services Marketplace, or INTB 670 International Area Studies, which includes programs in Costa Rica, Europe, or other regions of the world. These can replace BUAD 655W Global Business, or the second emphasis course. These programs are tailored to the schedules of working adults, concentrating the travel portion of the course over two weeks.

The Master of Science in Information Technology

The Master of Science in Information Technology (MSIT) is an innovative degree program designed to meet the ever-changing needs of today's businesses. With many technology positions being outsourced to overseas companies, it is more important than ever that U.S.-based workers develop the skills and attain the knowledge required to remain and excel in the technology field. The program prepares graduates to take high-profile leadership roles in planning, designing, implementing, and managing strategic IT/IS. Graduates will be equipped to deploy and manage effectively the technology, people, and processes involved in a complex and constantly changing business environment. Unique features of the program include international collaborative learning with student teams in other countries, a real-world consulting assignment with a client company, and immediate opportunity to apply the lessons learned in current work situations.

Learning Outcomes

Learning outcomes for this program may be found at:

http://www.redlands.edu/docs/academics/business_student_learning_outcomes.htm

Requirements

The major program consists of seventeen required courses totaling 48 semester credits. Course descriptions are found in the section of this *Catalog* titled School of Business Course Descriptions.

17 courses 48 credits

- INFT 600 MSIT Program Orientation (0)
- INFT 610 Legal, Policy, and Ethical Issues for Technology (3)
- MGMT 680 Marketing Management (3)
- INFT 615 Teams and Interpersonal Communication (3)
- INFT 605 Information Systems Concepts and Decision Support (3)
- BUAD 659 Managerial Accounting (3)
- BUAD 660 Managerial Finance (3)
- INFT 620 Introduction to Object-Oriented Programming (3) [may be substituted with INFT 621 Database Management Foundations (3)]
- INFT 625 Topics in Emerging Technologies and Innovations (3)
- INFT 630 Global E-Commerce (3) [may be substituted with one of the "Study Abroad Programs" in Cambridge (INTB 676) or Asia (INTB 677) or India (INFT 676)] or INTB 670 International Area Studies (4)
- INFT 635 Information Technology Architecture and Management (3)
- INFT 640 Systems Analysis and Design (3)
- INFT 645 Telecommunications and Networks (3)
- INFT 650 IT Project Management (3)
- INFT 655 IT Change Management (3)
- INFT 660 Security Management (3)
- INFT 697 IS/IT Strategy Capstone (3)

The Master of Arts in Management

Managers and future managers need critical knowledge and skills to launch and sustain successful careers. The M.A. in Management emphasizes the interpersonal and organizational skills of management. This program is especially valuable for professionals who have been promoted from a technical position and need to learn how to manage people, as well as for experienced managers who wish to deepen their knowledge of the human side of management.

Students examine and develop their managerial and leadership skills through coursework and a self-directed learning plan. They use nationally recognized assessment tools to evaluate their knowledge and skills at the beginning of the program. In addition, students select an organization (usually their workplace) in which to apply their new knowledge and receive feedback from University of Redlands faculty.

The curriculum design of the M.A. in Management program is based upon extensive research on the capabilities and knowledge needed for management success. The approach used in the M.A. in Management program to develop students' skills is a rigorous one. Students must demonstrate their ability to comprehend and analyze management challenges. Based on their analyses, students create possible solutions and evaluate the appropriateness of their recommendations.

At the conclusion of the program, students reassess their managerial strengths and weaknesses and compare these results to the same assessments done when they entered the program. They reflect on their evolution as managers and develop new plans for continued personal growth and development. Additionally, students analyze their learning from each course and integrate those insights into a comprehensive final presentation or paper.

Learning Outcomes

Learning outcomes for this program may be found at:

http://www.redlands.edu/docs/academics/business_student_learning_outcomes.htm

Requirements

The major program consists of twelve required courses totaling 35 semester credits. Course descriptions are found in the section of this *Catalog* titled Course Descriptions.

- MGMT 604 Managerial Assessment and Development (3)
- MGMT 610 Contexts for Contemporary Management (3)
- MGMT 621 Contemporary Ethical Issues in Management (3)
- MGMT 622 Leadership and Motivation (3)
- MGMT 623 Team and Group Dynamics (3)
- MGMT 624 Communication and Conflict in Organizations (3)
- MGMT 661 Decision Making: Managing Risks, Serving the Customer, Examining the Numbers (4)
- MGMT 674 Human Resources Management (3)
- MGMT 686 Organization Theory (3)
- MGMT 689 Managing Change and Organizational Learning (3)
- MGMT 690 Strategy (3)
- MGMT 699 The Reflective Manager (2)

School of Business Programs of Study

NUMBERING SYSTEM

0–99	Freshman level (not counted toward degree credit)
100–199	Freshman level (included in degree grade point ratio)
200–299	Sophomore level
300–399	Junior level
400–499	Senior level
500–599	Continuing education courses not otherwise offered at undergraduate or graduate levels
600–699	Graduate level

COURSE FREQUENCY

Major program courses are offered in sequence at times indicated in the Schedule of Instruction (SOI). An SOI is published for each student at the beginning of the program and is subject to change with written notification.

DEFINITION OF ACADEMIC CREDIT

One semester credit is awarded for the amount of work an average student would accomplish in a minimum of 40 hours (undergraduate) and 45 hours (graduate), including the hours spent in the laboratory or classroom.

EXPLANATION OF COURSE MARKINGS

Courses that continue over a series of semesters in learning groups, such as the practicum or thesis, are described together. Course numbers:

- separated by a comma can be scheduled in any sequence;
- separated by a hyphen must be taken in sequence as the first is a prerequisite for the one following; and
- separated by a slash indicate that undergraduate and graduate courses are offered together. Undergraduates register for the courses numbered 001-499, while graduates register for the 600-level courses.

School of Business Course Descriptions

MANAGEMENT (BAMG)

232 Data Analysis and Decision Making for Managers. (4).

Introduces data interpretation and analysis for managerial decision making from a practitioner's perspective. Application of data analysis functions and techniques in a spreadsheet framework as they relate to problems in various business functions in a dynamic environment.

334 Understanding Informational Contexts. (4).

Introduction to using information systems to create contexts for effective business environments. Examines how to effectively use and produce information to build dynamic organizational cultures that support creative individuals and teams.

356 Human Resources Management. (4).

Study of the theory and practice of the human resource/personnel function in organizations, including labor relations. Current issues in Human Resources Management will be addressed. Not open to students who have received credit for MGMT 356.

365 Accounting and Finance for Managers. (4).

Focuses on the role of financial and accounting information in managerial decision making. This course explores how managers access capital, manage resources, budget operations, and report economic events. This course may be waived by students who have completed *both* BUAD 364, Accounting I and BUSB 461, Financial Management.

401 Critical Perspectives for Management. (4).

Develops advanced critical analysis skills in writing, reading, and oral presentation through considering aspects of leadership in management in its various dimensions and within diverse theoretical and disciplinary frameworks. Prerequisite: BUSB 301.

430 Advanced Topics in Organizational Behavior and Management. (4).

In-depth study in one topic of management or organizational behavior that includes

a review of the literature, a deeper understanding of theoretical foundations, and applications to real organizational issues. Prerequisites: BUSB 330, BAMG 356 and BAMG 401.

485 Management Capstone. (4).

Focuses on integrating knowledge, skills and abilities in leadership, critical inquiry, communication and secondary research acquired during the program and applying them to an organizational analysis. Prerequisites: BAMG 430 and BUSB 481.

BUSINESS ADMINISTRATION (BUAD)

301 Small Business Management. (3).

Considerations for those involved in small business. Analysis of location, legal problems, staffing, financing, marketing, and other topics.

348 Electronic Commerce and Internet Marketing. (3).

Discussion of electronic commerce, including its components, structure, and technology, as well as the application of marketing concepts to e-commerce.

393 Principles of Personal and Family Finance. (2-3).

Emphasis on principles of finance and financial planning underlying personal and family finance. Topics include budgeting, installment buying, savings, investments, borrowing, pensions, wills, estates, insurance, home ownership, banking, taxes, and buying on credit.

495 Business Consultancy Capstone. (4).

Integrating prior coursework within the context of strategy formulation and implementation, student teams conduct a "live" consulting engagement with an organization in Southern California. Students develop the parameters of the engagement and apply appropriate theoretical knowledge in a practical setting to prepare and present a project report. With Undergraduate Program Director approval, may substitute for BUSB 485 or BAMG 485. Prerequisite: BUSB 481.

School of Business Course Descriptions

610 Contexts for

Contemporary Business. (4).

Critical approaches course providing students with research methods, communication strategies, and leadership skills necessary for graduate-level work. Focus on the history of economic thought, with special attention paid to the history of capitalism and globalization.

620A People Module: A. (3).

620B People Module: B. (3).

Emphasizes improving managerial and marketing skills to identify, establish, retain, and grow relationships with customers and employees. Focus on creating value for customers, employees, and organizations. Prerequisite for 620A: BUSB 330, BUS 310, or equivalent. Prerequisite for 620B: BUSB 340 or equivalent. Modules taken concurrently.

630A Connections Module: A. (3).

630B Connections Module: B. (3).

Explores ways that information technology and geographic information systems connect people, groups, organizations, information, geographies, and resources to derive value for organizations. Modules taken concurrently.

640A Valuation Module: A. (3).

640B Valuation Module: B. (3).

Examines investments that create sustainable economic value. Students learn financial strategies that optimize shareholder wealth while meeting ethical standards and fulfilling societal responsibilities. This module examines the extent to which the existing financial reporting system meets those goals. It also investigates alternative accounting information models that not only measure financial profits, but also the effect on human and environmental conditions of an entity's financial undertakings. Prerequisites for 640A: BUSB 260, ACCT 210, ACCT 220, or equivalent. Prerequisites for 640B: BUSB 361, BUS 353, or equivalent. Modules taken concurrently.

641 Managerial Economics. (4).

Application of economic principles to managerial decision making. Emphasis is on theory of consumer behavior and macroeconomic policies. Focus in theory of consumer behavior is on market equilibrium, elasticity

measures, demand functions, production costs, and market structures. In macroeconomics, focus is on Keynesian economics, as well as fiscal and monetary policies.

648 Applied Business Statistics. (4).

Emphasis on the application of statistical methods for managerial decision making. Focus is on hypothesis testing and multiple regressions as key decision-making tools.

655/655W Global Business. (4).

Emphasis on the application of the core business functions in an international context and the implications of global issues for business decision makers. Not open to students who have received credit for INTB 693W, ISYS 680W, FINC 662W, GISB 692W or INFT 676.

659 Accounting for Managers.

(MSIT 3), (MBA 4).

Examines accounting as an information system used by managers as an economic decision-making input.

660 Managerial Finance.

(MSIT 3), (MBA 4).

An overview of financial management tools used in analyzing and developing strategies for making business decisions. Topics include: time value of money, bond and stock valuation, risk and return, capital budgeting, capital structure and dividend policy, working capital management, options and their applications in corporate finance.

670A Responsibilities Module: A. (3).

670B Responsibilities Module: B. (3).

Studies the essential strategic frameworks and concepts needed for business management. Emphasis is placed on the development of management strategies, as well as the ethical, social, and legal responsibilities that shape their implementation. Global and domestic operational contexts examined. Topics include mission identification, performance evaluation, industry and competition analysis, integration and partnerships, organizational change and diversification, corporate social responsibility, the legal and regulatory environment of business, ethical decision making, sustainable enterprise management, and multinational corporate strategies. Modules taken concurrently.

School of Business Course Descriptions

680A Resources Module: A. (3).**680B Resources Module: B. (3).**

Integrates the exploration of microeconomics concepts with the tools and techniques of decision analysis to provide frameworks for resolving the resource challenges that managers face in the global marketplace. Prerequisites for 680A: BUSB 230, ECON 250, ECON 251, or equivalent. Prerequisites for 680B: BUSB 370, BUS 369, or equivalent. Modules taken concurrently.

683 Information and Knowledge Management. (4).

Survey of information systems principles emphasizing the strategic role of information systems in business, and global and interactive aspects of information systems. Not open to students who have received credit for MGMT 691.

690 MBA Culminating Experience (Capstone). (0).

This student-directed learning experience requires demonstration of multidisciplinary managerial competencies and application of program learning objectives to a substantive entrepreneurial, organizational, or societal issue. Prerequisites or corequisites: BUAD 620A, BUAD 620B, BUAD 630A, BUAD 630B, BUAD 640A, BUAD 640B, BUAD 670A, BUAD 670B, BUAD 680A, and BUAD 680B.

695 Business Consultancy Capstone. (4).

Integrating prior coursework within the context of strategy formulation and implementation, student teams conduct a "live" consulting engagement with an organization in Southern California. Students develop the parameters of the engagement and apply appropriate theoretical knowledge in a practical setting to prepare and present a project report. With Graduate Program Director approval, may substitute for MGMT 697W, INTB 692W, FINC 664W, GISB 693W, ISYS 683W or MGMT 694W.

BUSINESS (BUSB)**095 Mathematical Fundamentals for Business. (0).**

The course includes the study of the basic laws of numbers, fractions, exponents, graphing, and radicals, as well as gaining an understanding of a variety of expressions and equations, including equalities, inequalities, polynomials, and quadratics. The development of solving of word problems will be studied extensively. CN only.

145 Mathematical Foundations for Business. (4).

Introduction of mathematical foundations with applications for decision making in business, economics, finance, business statistics, and operations management. Focus is on mathematical concepts, including functions and their graphs, systems of equations and inequalities, linear programming, mathematics of finance, basic probability and statistics. Prerequisite: successful completion of the Math Assessment or BUSB 095.

230 Economics for Business. (4).

Introductory study of macro- and microeconomics. Micro studies decision making by individual firms and consumers in regard to the allocation of scarce resources, supply and demand basics, and optimum output determination. Macro includes coverage of the national and global economy, the impact of economic aggregates and government action.

232 Business Statistics. (4).

Introduction to basic statistical concepts, including measures of central tendency and dispersion, frequency distributions, probability distributions, sampling distributions, and estimation. Also application in statistical inference, one- and two-sample hypothesis testing, chi-square, analysis of variance, and multiple regression models. Prerequisite: BUSB 145 or equivalent.

260 Financial and Managerial Accounting. (4).

Examines accounting information as an economic decision-making tool. This course presents the concepts, policies, and procedures

School of Business Course Descriptions

that govern accounting information systems. Students use that understanding to improve resource allocation by managers, owners, and creditors of an organization. Prerequisite: BUSB 145 or equivalent.

300 Ethical and Legal Environment of Business. (4).

Examination of moral and legal business issues in domestic and international contexts with emphasis on contemporary problems.

301 Critical Analysis: Written and Oral Communication. (4).

Deepens students' analytical skills in written and oral communication. Focus on purpose, depth, organization, research, style, and effectiveness. Special attention is paid to contemporary business contexts, as well as historical perspectives.

330 Managing and Leading Organizations. (4).

Overview of organizational behavior and theory. Focus is on the behavior of individuals and groups within organizations. The study of organizational decision making, organizational design, culture, leadership, power and politics, and management of change. Ethics, diversity, and globalization are integrated throughout the course. Prerequisite: BUSB 301 or equivalent.

333 Business Information Systems. (4).

Introductory organizational and managerial overview of information systems. Assessing and constructing data and information for decision making, designing interactive and spatial information systems, and assessing their ethical implications. Communicating effectively in a systems development environment.

340 Principles of Marketing. (4).

Introduction to the concept of marketing and marketing principles. Focus on creating value for customers. Develops an understanding of the four elements of the marketing mix (product, price, promotion, and place/distribution) with application to product, service, profit, and not-for-profit enterprises in local, national, and international environments. Prerequisite: BUSB 301 or equivalent.

342 International Business. (4).

Examination of developments within international markets and the effects of the activities of business enterprises. Students study the effects of increasing international linkages on the role and conduct of domestic and international business functions. This course may be substituted by the study-abroad programs in Cambridge (INTB 476), Asia (INTB 477), or INTB 470. Prerequisite: BUSB 301 or equivalent.

361 Financial Management. (4).

Principles of financial planning, control, and analysis of the firm and the role of the financial manager within the firm. Prerequisites: BUSB 145 and BUSB 260 or equivalent.

370 Managing Quality and Operations. (4).

Operations management issues and techniques to analyze problems for organizations that provide services and manufacturing products. Strategic issues and practical applications include productivity, competitiveness, supply chain management, decision making, quality management, process selection, linear programming, transportation models, forecasting, inventory management, enterprise resource planning, project management, and simulation. Prerequisites: BUSB 145 and BUSB 232 or equivalent.

433 GIS for Business. (4).

Overview of GIS and spatial analysis applied to organizations. Focus is on geographic information, location-based decision making, spatial data, investment in and value of GIS, ethical aspects, and GIS strategies. Students learn through case studies and lab practice with spatial data. Prerequisite: BUSB 333 or equivalent.

481 Strategic Management. (4).

Develops analytical tools critical to assessing environments, opportunities and threats needed to build and sustain long-term competitive advantage. Addresses knowledge, skills, and approaches necessary to generate, evaluate, and implement strategic alternatives. Emphasizes interrelationships of various organizational functions. Prerequisites: In the

School of Business Course Descriptions

BA Management program: BUSB 330, BAMG 334, BUSB 340, BUSB 342, and BAMG 365 or their equivalents. In the BS Business program: BUSB 330, BUSB 333, BUSB 340, BUSB 342, and BUSB 361 or their equivalents.

485 Capstone: Analysis and Integration in Business and Management. (4).

Focuses on integrating knowledge and skills acquired during the program and applying them to an organizational analysis. Students develop and present a capstone paper that utilizes artifacts created in earlier courses, synthesizes principles and theories from a broad arena of learning, and demonstrates effective skills of critical inquiry. Prerequisites: BUSB 330, 340, 342, 361, and 481 or their equivalents.

ENGLISH (ENGB)

102 Composition II: Critical Analysis. (3).

Methods, strategies, and contexts for developing clear and effective analytical writing. Special attention paid to taking a position, argument development, use of evidence, organization, and style. Not open to students who have received credit for ENGW 201.

125 Business and Professional Speaking. (3).

Theory and practice relevant to a variety of business and professional speaking situations. Topics include listening, audience analysis, research, organization, style, and delivery.

323 Reading Film. (3).

Study of the dynamics, theory, and structures of film, exploration of film genres, and analysis of films from various genres, historical periods, and cultures. Prerequisite: BUSB 301 is recommended.

326 Contemporary Literary Contexts. (3).

Study of theories and techniques of critical literary analysis with application to texts from various genres, historical periods, and cultures. Prerequisite: BUSB 301 is recommended.

351 Writing and Work. (3).

Advanced course focusing on diverse forms of writing in the workplace, including but not

limited to reports, proposals, evaluations, and persuasive documents. Special attention paid to collaborative writing settings, presentation strategies, and web design principles.

360 Topics in Literature and Film. (1-3).

Selected intermediate topics in literature and/or film chosen to reflect student interest and instructor availability. May be repeated for degree credit for a maximum of 6 credits given a different topic.

447 Business, Literature, and Film. (3).

Examination of representations of business, commerce, and related themes in literature and film from various genres, periods, and cultures.

449 Literature, Globalism, and Enterprise. (3).

Study of literature from various genres, periods, and cultures through the twin lenses of globalism and enterprise. Themes may include cultural and economic hegemony; multinational business; post-colonialism; evolving representations of markets, exchange, and power; regionalism; authority and voice; etc.

FINANCE (FINC)

661W Financial Markets and Institutions. (4).

Analysis of the role of money/capital markets and financial institutions in the allocation of capital in the economy. Depository and non-depository financial institutions are examined with special attention to the evolution and regulation of such institutions.

662W Investment Theory and Analysis. (4).

Examination of theoretical framework for investments and portfolio analysis. Focuses on development of investment objectives and evaluation of risk-return trade-off leading up to optimal portfolio selection and management.

664W Financial Strategy Capstone. (4).

Capstone seminar that synthesizes topics from core and Finance Emphasis courses through financial modeling, analysis, simulation and

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strategy. Prerequisites: FINC 661W and FINC 662W or prior permission of program director.

GEOGRAPHIC INFORMATION SYSTEMS (GISB)

410 The Urban Community: A Spatial Approach. (3).

Study of the urban community, including the topics of city dynamics, metropolitan concepts, neighborhoods, migration, race, ethnicity, gender, poverty, industrial location, edge cities, environment, and urban planning. Spatial analysis is introduced to better understand the city. Several GIS labs on urban processes are included. Prerequisite: BUSB 333 or introductory-level course in Information Systems.

691W GIS for Marketing. (4).

Examination of the strategic marketing planning process, with special emphasis on components for which geographic information systems (GIS) can provide valuable decision-making support. Focus on the use of GIS in support of environmental scanning, market segmentation, target marketing, test marketing, distribution, and targeted promotional activities.

692W Spatial Analysis for Global Business. (4).

Evaluation using geographic information systems (GIS) of core business functions in an international context and the implications of global issues for business decision makers.

693W GIS Strategy: Concepts and Implementation. (4).

Integration of course concepts on GIS systems planning, decision making, and strategy with prior coursework. Student teams work with top management of a local company to develop a geographic information systems (GIS) Strategic Design Plan. The outcome is a Strategic GIS plan presented to the firm. Prerequisites: GISB 691W and GISB 692W or prior permission of program director.

HEALTH SCIENCE (HLSC)

116 The Stress of Living. (3).

Considers individual lifestyles and stress styles

and teaches stress management techniques, including relaxation response, imagery, and self-hypnosis. Appropriate stress management intervention for the individual, group, and organization. Includes experiential and didactic learning experiences.

396 Special Studies in Health Science. (1–6).

Reading and research in a special area under faculty direction. Project to include statement of objectives, outline of activities planned, results expected, and how each are to be reported and evaluated.

HUMANITIES (HUMB)

309 Theories of Human Nature. (3).

Analysis and comparison of a number of major theories of human nature. Not open to students who have received credit for MGTW 310.

310 Interpreting Experience. (3).

Students interpret their experience and that of others to develop written, oral, and critical thinking skills. Integral to the process is creation of a portfolio of experiential learning that can be evaluated for additional college-level credit. Attention paid to interpretation of experience through biography, autobiography, and literature. Not open to students who have received credit for LSHU 310, LSIS 310, or MGTW 310.

INFORMATION SYSTEMS (ISYS)

364 Geographical Information Systems: Managing Environmental Problems. (3).

Students, managers, and business professionals are introduced to the use and practical importance of Geographical Information Systems (GIS). Covers the design and functioning of GIS, applications to business and environmental problems, and management of GIS. Includes hands-on experience. Not open to students who have completed ISYS 365.

680W Global Information Systems. (4).

Analysis of potential opportunities available and challenges faced by business, in general, and IT function, in particular, in an increasingly global, technological environment. Emphasis is on legal, regulatory, policy, and

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sociocultural issues. Not open to students who have received credit for TCOM 611 or 614.

681W Customer Information Strategies. (4). Examines e-commerce marketing relative to the development and implementation of a comprehensive and integrated marketing strategy. Addresses the Internet as a platform for global interaction with customers and as a means to implement customer information strategies.

683W Information Systems Strategy Capstone. (4).

Capstone seminar that employs Information Systems (IS) perspective in a synthesis of core MBA and emphasis coursework. Focus is on (1) systems development, (2) the implications of IS issues for business decision makers, and (3) the analysis of IS case studies to implement effective responses to business challenges using knowledge and methods in information systems and technology. Prerequisites: Either completion of ISYS 681W and ISYS 682W or approval of MBA program director.

INFORMATION TECHNOLOGY (INFT)

600 MSIT Program Orientation. (0).

Introduces students to the MSIT curriculum and the approach to graduate academic engagement offered at the University of Redlands School of Business and its unique learning community. CN only.

605 Information Systems Concepts and Decision Support. (3).

Survey of information systems (ISs) principles, including the role of ISs in business, development and management of ISs, the strategic role of ISs in organizations, and the global and ethical aspects of ISs. The course also emphasizes the role of Decision Support Systems (DSS) in organizations.

610 Legal, Policy, and Ethical Issues for Technology. (3).

Evaluates laws, regulations, and policies at the state, national, and international levels that relate to information systems/technology. Addresses current and predicted information systems/technology issues. Analyzes intellectual property and ethical issues as they relate

to the demands of a rapidly changing information-oriented society. Prerequisite: INFT 600.

615 Teams and Interpersonal Communication. (3).

Examines important concepts and skills for participative and productive teamwork. Addresses the importance of effective oral and written communication for working with coworkers and teams. Explores challenges and opportunities of working with culturally diverse and geographically dispersed teams.

620 Introduction to Object-Oriented Programming. (3).

Introduces programming with an emphasis on object-oriented programming (OOP) utilized to develop business information systems. Focuses on the fundamentals of programming and conceptual problem-solving approaches by using visual and object-oriented programming techniques. May be substituted with INFT 621 Database Management Foundations.

621 Database Management Foundations. (3).

Overview of fundamental database development concepts, including modeling, design, and implementation. The course provides a realistic context in which students can learn how database and database processing are developed in a simulated real-world setting. Focus is on how database management systems can be used to facilitate business problem solving. This course may substitute for INFT 620: Introduction to Object-Oriented Programming.

625 Topics in Emerging Technologies and Innovations. (3).

Examines new and promising information technologies to include the processes of technological change and innovations, role of government, assessing new markets, economic and social consequences, and technology scenario planning. Includes student discussions of special topics in a seminar format. Not open to students who have received credit for TCOM 663 Emerging Technologies.

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630 Global E-Commerce. (3).

Provides a learning environment for the critical analysis of business on the Internet and the concomitant global ramifications. Explores the critical issues and legal challenges introduced by moving to the e-commerce dimension. Not open to students who have received credit for INTB 670, INTB 676, INTB 677 or INFT 676.

635 Information Technology Architecture and Management. (3).

Investigates creative adaptive architecture strategies for successfully implementing enterprise architectures. Requires the student to identify, interpret, and analyze business objectives and organizational issues in order to develop a constructive enterprise information technology and systems strategy that supports the business strategy.

640 Systems Analysis and Design. (3).

Presents the principles of systems analysis and design using both traditional and object-oriented methodologies and tools. Students will concentrate on planning, requirements specification, and design.

645 Telecommunications and Networks. (3).

Provides an overview of the field, including the basic technical concepts of signals and waves, modulation, telephone systems, the telecommunications industry, the public network, local and wide-area networks, the Internet, wireless technologies and services, business applications for telecommunications, and global telecommunications.

650 IT Project Management. (3).

Develops the project management skills needed to define, plan, lead, monitor, and complete projects. Presents an understandable, integrated view of the concepts, skills, tools, and techniques involved in information technology project management by weaving together current theory and practice.

655 IT Change Management. (3).

Examines components of organizational change required to implement information technology solutions and focuses on developing the technical, communication, and

managerial skills necessary to manage such organizational change.

660 Security Management. (3).

Evaluates and analyzes the hardware and software security technologies and management techniques necessary to create appropriately secure and effective information systems. Analyzes the legal, political, global, ethical, and privacy environments that impact security and digital liability protection programs.

676 Bangalore Study: Global IT Services Marketplace. (3-4).

Examination of the global nature of the knowledge and IT services marketplace. Focus is on understanding strategies for organizations to benefit from the global availability of the services. May substitute for INFT 630, BUAD 655W, INTB 693W, GISB 692W, FINC 662W, ISYS 680W, or INTB 694W (for Marketing Emphasis).

697 IS/IT Strategy Capstone. (3).

Integrates and synthesizes the MSIT program through research and analysis of a strategic information technology issue in the client company. Requires collection and analysis of primary and secondary data. Students evaluate alternative courses of action and present to company executives recommendations for successful resolution. Prerequisites: INFT 650, 655, and 660.

INTERNATIONAL BUSINESS (INTB)

470 International Area Studies. (4).

Students intensively study a specific country or region in the world. They evaluate the characteristics of the analyzed area's socioeconomic conditions, its policy environment, and its business activities. They then analyze how these factors jointly influence the international marketplace. Course combines lectures with overseas seminars, company/institutional visits, and cultural exposure. Prerequisite: BUSB 301 or by permission. May be repeated for credit given different country or region.

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476 Cambridge Study:**Trends in Global Business. (4).**

Combination of study and travel aimed at exploring the evolution of business functions in the context of political, social, and economic considerations at the global level. Application of the European Union to illustrate the rationale and challenges posed by global business. May substitute for BUSB 342.

477 International Business:**Perspectives from Asia. (4).**

Combining preparatory instruction at the University of Redlands with two weeks of overseas seminars and travel, this course explores the global business environment from an Asian perspective. May substitute for BUSB 342.

495 Global Business Consultancy**Capstone. (4).**

Integrating prior coursework within the context of strategy formulation and implementation, student teams conduct a “live” consulting engagement with an organization in a foreign country. Students develop the parameters of the engagement and apply appropriate theoretical knowledge in a practical setting to prepare and present a project report. With Undergraduate Program Director approval, may substitute for BUSB 485 or BAMG 485. Prerequisite: BUSB 481.

670 International Area Studies. (3-4)

Students intensively study a specific country or region in the world. They evaluate the characteristics of the analyzed area’s socioeconomic conditions, its policy environment, and its business activities. They then analyze how these factors jointly influence the international marketplace. Course combines lectures with overseas seminars, company/institutional visits, and cultural exposure. Note: Students cannot repeat the same course destination from their undergraduate program. May substitute for BUAD 655, INTB 693W, GISB 692W, FINC 662W, ISYS 680W, INFT 630, or INTB 694W (for Marketing Emphasis).

676 Cambridge Study:**Challenge of Global Business. (3-4).**

Examination of the relation between

political and economic structures and business activity at the regional and global levels. Focus on the development of regional institutions in the European Union in response to the increasing global nature of business. May substitute for BUAD 655, INTB 693W, GISB 692W, FINC 662W, ISYS 680W, INFT 630, or INTB 694W (for Marketing Emphasis).

677 International Marketplace:**Perspectives from Asia. (3-4).**

Combining preparatory instruction at the University of Redlands with two weeks of overseas seminars and travel, this course evaluates the characteristics of Asian business activities and their impact on the international marketplace. May substitute for BUAD 655, INTB 693W, GISB 692W, FINC 662W, ISYS 680W, INFT 630, or INTB 694W (for Marketing Emphasis).

692W Global Strategy Capstone. (4).

Examination of national and international competition, government interaction, product and technological development and intra-firm coordination and their effects on the formation and implementation of business objectives, strategy, and structure. Prerequisites: INTB 693W and INTB 694W or prior permission of program director.

693W Global Finance. (4).

Study and application of finance in the global arena. Focus of critical attention on how financial strategies, risk, tools, investments, theories, and institutions work in a global context.

694W Global Marketing. (4).

Exploration of and application of marketing concepts to the demands and conditions of the global marketplace. Critical evaluation of the marketing challenges presented by the increased exposure of individuals, businesses, and governments to international market forces.

695 Global Business Consultancy**Capstone. (4).**

Integrating prior coursework within the context of strategy formulation and implementation, student teams conduct a “live” consulting

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engagement with an organization in a foreign country. Students develop the parameters of the engagement and apply appropriate theoretical knowledge in a practical setting to prepare and present a project report. With Graduate Program Director approval, may substitute for MGMT 697W, INTB 692W, FINC 664W, GISB 693W, or ISYS 683W.

MANAGEMENT (MGMT)

296 Special Studies: Military Science. (1-6).

Reading and research in a special area under faculty direction. Project to include statement of objectives, outline of activities planned, results expected, and how they are to be reported and evaluated.

334 Management Simulation. (1-6).

Advanced applications approach to the study of management. Survey and application of the main aspects of management: communicating, motivating, planning, organizing, leading, controlling, change, and conflict.

347 Supervision. (3).

Study of the worker with emphasis on motivating, communicating, counseling, training, managing time, and evaluating performance. Emphasis is on small groups and individuals rather than the organization and its environment.

387 Humor and Creative Management. (3).

Consideration of cognitive styles and exploration of theories of humor while providing exercises connecting creative intelligence and humor. Students develop framework for examining organizational humor and cognition and their relationships to innovation and creativity. Also construct models and plans for intervention to enhance humor and creative intelligence in organizations. Not open to students who have received credit for MGMT 386.

396 Special Studies: Management. (0-6).

Reading and research in a special area under faculty direction. Project to include statement of objectives, outline of activities planned, results expected, and how they are to be reported and evaluated.

397A Special Studies: Management: Leadership and Motivation. (1-3).

Leadership and motivation theory with personal application and development for understanding leadership in today's diverse work environments. Topics include merging leadership and motivational concepts such as transformational leadership, emotional intelligence, the triarchic theory of intelligence, followership, job satisfaction, power and influence, change and creativity.

397B Special Studies: Management: Management of Human Capital. (1-3).

Study and critical analysis of both theory and practice of human capital management in modern complex organizations.

397C Special Studies: Management: Money and Banking. (1-3).

Development of electronic money and banking into the traditional subjects of money, banking, and financial markets. The course provides an integrated coverage of domestic and international financial markets and the global economy.

398 Special Studies: Public Service Administration. (1-6).

Reading and research in a special area under faculty direction. Project to include statement of objectives, outline of activities planned, results expected, and how they are to be reported and evaluated.

604 Managerial Assessment and Development. (3).

First course in the Master of Arts in Management program. Students complete an assessment of critical managerial competencies, including: (1) personal skill, (2) people management skills, (3) analytic skills, and (4) management knowledge. Students develop a self-directed learning plan to address competencies in the four areas and competencies related to the student's career. Not open to students who have successfully completed MGMT 601. Prerequisite to all other courses in the Masters in Management program. Must be passed with a grade of 2.0 or higher before proceeding on to other courses.

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610 Contexts for Contemporary Management. (3).

Writing-intensive introduction to the fundamental history of ideas that shapes contemporary management and practices. Emphasis on the critical evaluation of classical and contemporary texts in the field of management through analytical and argumentative writing.

621 Contemporary Ethical Issues in Management. (3).

Analysis of the history of management to provide a perspective on contemporary and anticipated issues of corporate social responsibility. Ethical and moral questions related to these issues are explored. Examination of ways in which businesses are an open system interacting with local, national, and global communities. Not open to students who have received credit for MGMT 620.

622 Leadership and Motivation. (3).

Examination of effective leadership, leadership traits, and motivation and reward of employees in a diverse environment. Topics include merging leadership concepts such as transformational and visionary leadership, stewardship, and leadership integrity.

623 Team and Group Dynamics. (3).

Examination of the benefits of organizational teams and methods for using the skills, experiences, insights, and ideas of team members to enhance organizational performance. Topics include where and how teams work best, and how to enhance team effectiveness.

624 Communication and Conflict in Organizations. (3).

Topics include active listening, assertive communication, the dynamics of conflict, interventions used to manage conflict, costs and benefits of conflict, and styles of conflict management. Focus on improving student communication and conflict management skills, as well as students' ability to analyze interpersonal communication and conflict. Not open to students who have received credit for BUAD 692.

631 Management and Organization Theory. (4).

Study of organizational theory, organizational behavior, and basic human resources management. Topics include managing individual performance, team and intergroup dynamics, leadership, human resources management, organizational design, decision making and management of change.

650 Management Science and Decision Analysis. (4).

Demonstration of various quantitative methods developed over the years. Provides students with an understanding of the role management science plays in the decision-making process. Topics include linear programming (LP), network models, transportation, assignment, transshipment, project management (PERT/CPM), inventory control, simulation, decision theory, forecasting, and supply chain management.

661 Decision Making: Managing Risks, Serving the Customer, Examining the Numbers. (3).

Provides an introduction to applied decision making using simple mathematical techniques. Topics include cost-revenue models, competitiveness, productivity, forecasting, resource allocation, and project management as they relate to business decisions in a dynamic environment.

667 Business, Ethics, and Society. (4).

Examination of the ethical, legal and social environment of business and its impact on managerial decision making.

674 Human Resources Management. (3).

Study and critical analysis of theory and practice of the human resource/personnel function in modern, complex organizations. Includes topics such as personnel policies, workforce diversity, HR practices, employee discipline, health and safety, and collective bargaining. Addresses goals of equity, efficiency, and effectiveness in a diverse environment. Not open to students who have received credit for MGMT 670.

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680/680W Marketing Management. (4) (MSIT 3).

Exploration of crucial aspects of marketing with emphasis on the customer and the marketing mix. Development of analytical and critical thinking skills through case study. Design and assessment of a basic marketing plan. Not open to students who have received credit for INTB 694W, ISYS 681W, FINC 661W, or GISB 691W.

686 Organization Theory. (3).

Examination of organizations from multiple perspectives. Investigation of four organizational frames: (1) structural, (2) political, (3) symbolic, and (4) systems. Exploration, comparison, and integration of the four frames to bring new perspectives to difficult problems and build high-performing, responsive organizations.

689 Managing Change and Organizational Learning. (3).

Examination of components of organizational change and the design of learning organizations that are capable of continuous improvement. Students build the capability for creating and assessing knowledge.

690 Strategy. (3).

Strategy sets a critical direction and guides the allocation of resources to achieve long-term organizational objectives. Examination of the formulation of strategy based on internal strengths and weaknesses, as well as external opportunities and threats in the context of changing technology and environment. Not open to students who have completed MGMT 693.

694W Marketing Strategy Capstone. (4).

Marketing strategy integrates marketing and other functional areas within a firm. It provides orientation to organizations on how to use resources and capabilities to maximize long-run customer value, as well as generate the greatest financial return. Prerequisites: MGMT 680W and INTB 694W or approved study abroad program.

697/697W Strategy Capstone. (4).

Capstone seminar integrating prior coursework within the context of strategy formulation and implementation. Prerequisite: MGMT 680 or MGMT 680W. Not open to students who have completed INTB 692W, ISYS 683W, FINC 664W, GISB 693W, MGMT 694W, BUAD 695, or INTB 695.

699 The Reflective Manager. (2).

Last course in the Master of Arts in Management program. Students complete a post-assessment of critical managerial competencies, including: (1) personal skills, (2) people management skills, (3) analytic skills, and (4) management knowledge. Students evaluate the level of integration from coursework and self-directed study. Examination of how well the competencies were learned. Prerequisite: taken after the eleventh course in the program.

SCIENCE (SCIB)

150 Current Issues in Science and Technology. (3).

Examination of some of the most important technological developments of this century and their impact upon human lives. Examination of the complex relationship between humans, the environment, and technology. Not open to students who have received credit for LSNS 150.

201 Natural Sciences Through Living Laboratories. (3).

Exploration of the principles and methodology of astronomy, marine biology, natural history, and ecology to understand the natural environment. Students will utilize campus-based facilities and field sites throughout Southern California as laboratories. Not open to students who have received credit for LSNS 201.

460 Topics in Environmental Science. (3).

Greater understanding of the science that underlies such environmental problems as ozone depletion and the loss of genetic diversity through explorations of the nature and scope of science relative to environmental issues. The methods of science, the limitations

of scientific knowledge and the role of science in society today are discussed. Not open to students who have received credit for EVSW 460.

SOCIAL SCIENCE (SOCB)

302 The Personal and Social Impact of Marital Dissolution. (2–3).

Issues include the environment of the formerly married (divorced, separated, widowed); problems encountered before, during, and after the process of dissolution; single parenthood; common causes of marital difficulties and approaches to their resolution; adjustments of the individual from married to single life; and social forces affecting the lives of the formerly married. Not open to students who have received credit for ISSS 302.

304 Death and Bereavement. (2–3).

Economic, legal, psychological, and historical aspects of the process of the dying person and the survivors; similarities and differences of reactions to death and dying; causes and consequences of suicide; fear of and curiosity about death; and social attitudes concerning death and dying. Not open to students who have received credit for ISSS 304.

307 Gender and Work. (3).

Examination of social-psychological, political, and historical realities affecting men and women in the workplace. Incorporates personal experience as students; examines issues such as power tokenism, support, networking, socialization, and change. Special interplay to the exchange between gender and other social factors such as race, class, and sexual orientation.

309 The American Family. (3).

Broad interdisciplinary overview of the variety of situations that we call “the American family.” Designed to allow students to pursue particular interests in this area. Not open to students who have received credit for SOC 309.

UNDERGRADUATE CONCENTRATION COURSES

ACCOUNTING (ACCTCS)

ACCTCS-210 Principles of Financial Accounting and Reporting. (4).

Explore financial accounting and reporting concepts and procedures used in daily business operations. Examine the use of economic resources, as well as the obligations and activities of financial entities. Learn how financial information is used to analyze the financial health and performance of an enterprise.

ACCTCS-220 Principles of Managerial Accounting. (4).

Analysis of financial and relevant non-financial information used in planning, directing, motivating and evaluating economic behavior. Concepts, terms and techniques from financial accounting, economics and behavioral sciences are applied to operational situations.

ACCTCS-310 Intermediate Accounting I. (4).

Study of the financial accounting environment and the authoritative accounting literature that provides a guide to the recording of economic resources and obligations, and the related economic activities of a business enterprise. Prerequisite: ACCTCS 220.

ACCTCS-320 Intermediate Accounting II. (4).

Study of the financial accounting environment and the authoritative accounting literature that provides a guide to the recording of economic resources and obligations, and the related economic activities of business enterprise. Prerequisite: ACCTCS 310.

ACCTCS-410 Auditing. (4).

Examine the purposes, expectations and responsibilities of independent public auditors as the profession evolves in society. Emphasis on the auditor’s decision process. Topics: legal liability, ethics, sampling theory, evidence and audit standards. Prerequisite: ACCTCS 310.

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ACCTCS-415 Tax Accounting. (4)

Determine federal and state income tax liability for individuals, corporations and partnerships. Topics: calculating taxes, filing returns, paying taxes, refunds, and legislative and judicial development of tax law. Prerequisite: ACCTCS 210.

ACCTCS-421 Governmental and Not-For-Profit Accounting. (2).

Learn accounting principles and practices related to state and local government agencies and not-for-profit entities, including hospitals, colleges, religious groups and social service organizations. Topics: fund accounting and financial analysis. Prerequisite: ACCTCS 210.

BUSINESS (BUSCS)

BUSCS-310 Supply Chain Management Principles and Practices. (3).

Survey of supply chain management, including defining the scope of service, procurement, and purchasing and materiel management. Business concepts include return on investment, value chain principles, contracts and legal issues, and operations management.

BUSCS-311 Supply Chain Management Logistics. (3).

Examine transportation and distribution concerns, including production scheduling, third-party logistics, calculating costs of services, warehousing, materiel management, analyzing value of services, staffing, and supervision, and technology.

BUSCS-312 Supply Chain Management Procurement. (3).

Explore procurement management and contract administration, including procurement policies and procedures, supplier selection, cost analysis, contract negotiation, strategic sourcing, bidding and requests for proposals, and overall project management.

BUSCS-313 Supply Chain Management Practicum. (3).

Capstone experience focusing on the application of industry best practices. Topics include aligning supply chain management operations with business practices. Prerequisites:

Two of the following courses: BUSCS 310, BUSCS 311 or BUSCS 312.

BUSCS-320 Managing Individual Performance. (3).

Explore the roles and responsibilities of supervisors and managers in developing, monitoring and managing performance standards. Topics include motivation, goal setting, supervisory excellence, communication skills, reward systems, vision and values.

BUSCS-321 Coaching and Mentoring. (1).

Survey the role coaching and mentoring play in improving performance, employee morale and customer service. Topics include identifying what makes a great coach or mentor, understanding the role, and establishing ongoing mentoring and coaching relationships.

BUSCS-322 Leading and Managing Teams. (2).

Examine how effective teams are led and managed even when you may not have direct authority over team members. Understand hierarchies, team dynamics, managing expectations, aligning teams with organizational goals and communication.

BUSCS-323 Managing and Resolving Conflict. (2).

Develop effective conflict management skills. Learn how and when conflicts arise, and identify approaches to manage conflicts with subordinates, peers, and supervisors. Know how to engender good will and develop win-win conflict management tactics.

BUSCS-324 Organizational Change Management. (2).

Identify when, how and why organizational change occurs. Create approaches to manage change by using intervention strategies, creating buy-in, communicating in a productive and positive manner, identifying the sequence of change, and managing resistance.

BUSCS-325 Organizational Leadership Principles and Practice. (2).

Explore organizational leadership roles: visionary, manager, director, change agent, supervisor, coach, and mentor. Identify how leadership styles influence the direction of

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the organization. Develop an appreciation for how leaders affect daily operations.

BUSCS 340 Principles of Marketing. (4).

Introduction to the concept of marketing and marketing principles, with a focus on how marketing creates value for the customer. Survey the marketing mix (product, price, promotion and place/distribution) and its application to products and services in profit and not-for-profit enterprises in a local, national, and international environment.

BUSCS-341 Marketing Research. (3).

Learn how to make effective marketing decisions using marketing research. Explore market research sources, data collection, analysis, surveys, research theories, and strategies. Evaluate quantitative and qualitative research with an emphasis on the value and limitations of various sources. Identify how to blend and manage marketing research sources.

BUSCS-342 Customer Experience Management. (3).

Develop an appreciation for the various ways customers experience products and services from brand awareness to product and service fulfillment to loyalty programs. Examine the customer and brand experience. Identify how to create a customer experience management system. Learn to deliver exceptional customer service.

BUSCS-343 Internet and Social Media Marketing. (2).

Explore Internet marketing, including its components, structure, and technology, as well as the application of marketing concepts to social media. Learn the strategies, tools, and tactics related to Internet marketing with special attention given to the development of messaging techniques designed for specific social media tools.

BUSCS-344 Integrated Marketing Communication. (3).

Survey the integration of advertising, sales promotion, public relations, direct marketing, and the marketing mix to support marketing strategy. Learn the linkages of segmentation, targeting, positioning, buyer behavior, and branding. Explore planning, budgeting, and

the execution of a comprehensive, integrated marketing communication program from message development through media selection and evaluation.

BUSCS-345 Marketing Analytics. (2).

Learn how marketing measurement relates to business return on investment using analytics. Review top view campaign performance, tactical management, and real-time campaign monitoring. Explore how to integrate results from multiple media and channels, including retail, sales, direct marketing, and online media. Covers use of analytics tools.

HUMAN RESOURCES MANAGEMENT (HRCS)

HRCS-310 Human Resources Management. (4).

Study the theory and practice of the human resource personnel function in organizations, including labor relations. Current issues in human resources management will be addressed.

HRCS-311 Legal Aspects of Human Resources Management. (3).

Review state and federal regulations governing human resources management, including labor law, discrimination, sexual harassment, occupational safety and health (OSHA), unions, and labor relations.

HRCS-312 Employee Recruitment and Selection. (3).

Explore recruitment and staffing processes, including analyzing position requirements, preparing job descriptions, recruiting candidates, selecting finalists, and orienting new employees.

HRCS-313 Compensation and Benefits Administration. (2).

Explore the design, development and administration of common employee compensation and benefit programs, including pay strategies, administration of health care and retirement plans, and reward systems.

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HRCS-314 Performance

Management. (2).

Review of best practices in measuring, analyzing and monitoring job performance.

HRCS-316 Ethics in Human Resources

Management. (1).

Review ethical issues and dilemmas human resources professionals face in the workplace. Explore organizational culture, the role of human resources manager, laws and legal constraints, and rights and responsibilities of employees and employers.

HRCS-317 Risk Management and Workers Compensation

Administration. (1).

Explore the identification and management of risk from a human resources perspective, including workers' compensation liabilities, workplace health and safety concerns, adequate or appropriate insurance coverage, and hostile work environments.

HRCS-318 Training and Development. (1).

Examine current trends and issues in workplace training and development with special attention to the design, development, and application of training programs to improve productivity, safety, and quality.

School of Education

THE DEAN

James Valadez

THE FACULTY

Janee Both Gragg

Joe Castino

Rod Goodyear

Chris Hunt

Jose Lalas

Phil Mirci

Ross Mitchell

Marjo Mitsutomi

Ronald Morgan

Bobby Ojose

Susan Porter

Conroy Reynolds

Pauline Reynolds

Shyrea Roberson

Alayne Sullivan

Lonnie Urbina

INTRODUCTION

Founded in 1924, the School of Education has prepared many leaders in California public and private education. Teachers, counselors, and administrators have selected Redlands for its long tradition of academic excellence, individual attention, innovative programs for employed adults, and its focus on urban education. Students in all programs in the School of Education receive personal attention from outstanding full-time faculty, seasoned adjunct practitioners, and experienced field supervisors. The curriculum purposefully blends theory and practices, integrating professional development and personal reflection into each of its programs of study. Technology and the integration of cross-cultural, sensitive methods are woven into all programs to better serve the needs of school districts, higher education institutions, and community agencies.

MISSION

“Standing for academic excellence and educational justice” is the credo adopted by the School of Education. This credo compliments the School’s highly regarded practice of student-centered teaching and learning to guide each student toward becoming an excellent, compassionate, and reflective practitioner-leader. The School’s programs prepare students to embrace learning as a central value in their lives and continuously acquire new knowledge and skills necessary for them to be effective educators throughout their careers. Effectiveness will be demonstrated through our graduates’ success in teaching the diverse population of students in their schools and providing visionary educational leadership in accordance with the core values that define our understanding of teaching and learning as a transformative process.

School of Education Admissions

ADMISSIONS

The School of Education Admissions Office encourages all interested individuals to visit the campus either informally or by appointment. To schedule an appointment, please call (909) 748-8064 or visit our web site at www.redlands.edu. Prospective applicants receive information describing the school's degree and credential programs, course curriculum, admissions requirements, cost, and financial aid. Admissions counselors and program coordinators are also available to meet with interested groups hosted by school districts, organizations, businesses, and community agencies.

After meeting application requirements, applicants may be permitted to begin the first course or term of a program while additional materials are collected and processed. Official admission status must be attained before continuing into the second course or term.

Students will need access to e-mail and Internet resources for all programs. Access to word processing and other education applications is strongly recommended. Enrolled students have access to campus-based computing resources.

ADVISING

Upon acceptance into a program, each student is assigned a faculty advisor who assists the student in developing a program designed to meet both State and University requirements and tailored to the student's interests. The faculty coordinator of the program approves each student's course of study. Competencies in the various fields, as specified by professional requirements or state credential laws, must be attested to by faculty as the student progresses in the program.

PRELIMINARY TEACHER CREDENTIAL

The School of Education offers the Multiple Subject (elementary), Single Subject (secondary), and Special Education Teacher Credential Programs. The programs are accredited by the California Commission on Teacher Credentialing and are aligned with SB 2042 standards. The teacher credential programs are designed for

individuals who have earned their baccalaureate degrees. For undergraduate credential programs, see the Education segment in the College section of this *Catalog*.

Credential courses are offered during evening hours to accommodate working adults. The program's early field experience will require a few daytime hours to complete. Student teaching is a 14-week, full-time work commitment that occurs at the end of the program.

Program Application and Admission Requirements for Preliminary Teacher Credential

Application Requirements

Completed application form

- Verification of passing CBEST
- Evidence of a baccalaureate degree
- Evidence of a 2.75 undergraduate GPA, or approved petition
- Completion of Child Development course or equivalent
- Evidence of 50 hours of observation or work with children
- Initiation of Certificate of Clearance
- Evidence of subject matter competency by passing state CSET examination or completion of state-approved waiver program—may show evidence of registering for examination for application purposes, but will need to pass examination before student teaching
- For international students, minimum TOEFL score of 550 on the written exam, minimum TOEFL score of 213 on computer version of exam

Admission Requirements

- All application requirements completed (see above)
- Official transcripts issued by the Registrar of institution granting baccalaureate degree, sent directly to the School of Education
- Two letters of recommendation from professionals
- Evidence of negative TB test results, within the last two years

- Certificate of Clearance
- Admission approved by the School of Education faculty

Subject Matter Competency

All teacher credential candidates must demonstrate competency in their specific subject matter area. In the State of California, this requirement can be met by successful completion of one of the alternatives that follow.

Multiple Subject candidates (teaching in elementary schools) must:

- Pass Multiple Subject CSET (subtest I, II, III).

Single Subject (teaching single-content areas in middle or high schools) candidates must either:

- Pass state-approved examinations (CSET) in their specific subject matter area, or
- Complete a state-approved, single-subject waiver program.

Special Education candidates must:

- Pass MS CSET (subtest I, II, III) OR
- Pass SS CSET in a core subject.

Before teacher credential candidates are allowed to student teach, competency in related subject matter content areas must be evidenced by either passing the CSET or by having completed at least four-fifths of an approved subject matter competency program. A student who successfully completes a waiver program does not need to pass the state-approved subject competency examinations.

MASTER OF ARTS DEGREES

Graduate Application and Admissions Requirements

Application Requirements

- Completed application form
- Evidence of baccalaureate degree
- Evidence of a 3.0 undergraduate GPA, or approved petition

For international applicants:

- TOEFL scores of 550 or higher on the written examination or 213 or higher on the computer-based examination

For credential applicants only:

- Evidence of passing CBEST
- Initiation of Certificate of Clearance

Admissions Requirements

- One official transcript issued by the Registrar of the institution granting baccalaureate degree, and sent directly to the School of Education
- Essay of 500 words describing personal experience and interests in relationship to the degree program
- Two recommendations from professionals who know the applicant's work
- Faculty review of file and admission approval

For credential applicants only:

- California teacher credential or basic service credential for administrative credential required
- If earning credential only, the essay requirement is waived

DOCTORATE IN EDUCATION (ED.D.)

Application Requirements

- Completed application form
- Resume or curriculum vita
- Evidence of a master's degree
- One official transcript issued by the Registrar of the institution granting the master's degree, and sent directly to the School of Education
- Writing requirement consisting of two parts:
 1. A sample of professional writing (e.g., masters project or thesis, essay, major course paper, policy analysis, curriculum guide, book). There is no minimum or maximum length.
 2. An essay (1,000 -1,500 words) addressing the following:
 - How does your experience and education prepare you for doctoral work in educational justice?

School of Education Admissions

- How do you plan to use the knowledge, skills, and dispositions obtained from your doctoral studies to address leadership issues related to educational justice?
- Three (3) letters of recommendation from professionals who know the applicant's work
- GRE or MAT scores sent directly to the School of Education

Admissions Requirements

The admission decision will be based on a holistic review of evidence of the quality of graduate-level work, the professional writing sample, the essay of 1,000-1,500 words addressing the writing prompts listed previously, three letters of recommendation from professionals who know the applicant's work, experience in an educational profession, and scores on the GRE or MAT. A panel of School of Education faculty will review the materials submitted by the applicant. After this review, potential candidates will be invited for an interview with a different panel of School of Education faculty. Invitations for admission will be based on the successful completion of this process.

School of Education Academic Standards

Standards listed below provide additional information relevant to the School of Education. For policies that apply University-wide, please see the Academic Standards chapter of this Catalog.

Academic Records

The following is considered public information and may be released or published without the student's consent:

Student name, date, and place of birth; major field of study; dates of attendance; degrees, honors, and awards received; most recent educational institution attended; campus address, telephone number, and student-assigned e-mail; home address and telephone number; participation in special academic programs; participation in recognized student activities; participation in officially recognized sports; class level, weight, and height of athletic team members.

Students who wish the above information withheld must sign a request within two weeks of their first registration and at the beginning of each academic year (July 1) thereafter.

Attendance

Students are expected to attend all scheduled meetings of the courses for which they are registered. Students who miss two consecutive class meetings without notifying their instructor may be administratively dropped from the course. Other consequences may arise as a result of enforcement of the requirements of financial aid programs.

Examinations

Faculty members may administer quizzes and examinations during a course, but are expected to notify students of quizzes and examinations in the course syllabus. Students will not usually be permitted to make up missed final examinations; however, if absence from any announced examination is required because of an emergency (personal or work related), the examination may be made up if the instructor is provided with written verification of the emergency.

Dismissal

Administrative Dismissal for Financial Obligation

Students who fail to meet their financial obligations to the University will be dismissed and will be accountable for tuition and fees accrued through the dismissal date. Students dismissed for any reason must stop attending class as they are no longer registered.

Independent Study

In exceptional cases, independent study provides alternatives not available through regular course offerings or because of scheduling limitations. Credit for a single course or area of study ranges from 2 to 4 credits, but no more than 12 credits can be counted toward the degree.

Independent Study is arranged only under the following circumstances:

- to investigate topics not offered in the catalog;
- for catalog courses not currently offered; or
- for catalog courses not available in the student's geographical area and not offered in the region within three months of the end of the core program or date of request.

First, students consult with their academic advisor. Second, the program coordinator must approve the independent study and assign and contact the faculty sponsor. Third, the student develops an independent study contract with the assigned faculty sponsor. The completed contract, which specifies course requirements (e.g., the number of meetings, readings, fieldwork, papers, and examinations) must be signed by the student and the faculty sponsoring the study. Fourth, the contract must be approved and signed by the appropriate program director or department chair prior to enrollment/registration or beginning any work. Fifth, the contract is signed by the Dean. These five steps must occur in the specified order.

Incomplete Grades

See the Academic Standards chapter of this *Catalog* for more information regarding incomplete grades. The deadline to make up an

School of Education Academic Standards

incomplete grade is eight weeks from the start of the next term. School of Education students cross-registered in Arts and Sciences courses must meet the Arts and Sciences deadline.

Transfer Credit

School of Education graduate students may transfer a maximum of 6 credits, grade 3.0 (B) required, from regionally accredited institutions to waive program requirements. Transfer credit acceptability is determined during the admissions process. Program requirements may be waived only where the course content equates with a University of Redlands course and when obsolescence is not a factor. No course that has been completed more than six years before the anticipated date of graduation shall be counted toward a University of Redlands graduate degree.

Re-Enrollment

Students who wish to re-enter a program must contact the director of the appropriate program and complete the necessary registration materials. Students seeking readmission to the University after an absence of more than one year must meet the degree program requirements at the time of readmission.

Withdrawal

Students in the School of Education who find it necessary to withdraw from a course or their program must do so in writing.

In order to drop a course prior to the first meeting, the Registrar must be notified, in writing, before the course begins. No record of the dropped course appears on the student's transcript.

In order to drop a course after the course has begun but prior to the last meeting of the course, the Registrar must be notified in writing. The student is responsible for obtaining refunds of tuition and/or charges, which are calculated according to the tuition refund schedule located in the appropriate Tuition and Fees section of this *Catalog*. The student will receive a grade of "W" on his or her transcript.

Should a student miss the first two sessions of a course without notifying his or her instructor,

he or she may be automatically dropped from the course without penalty.

If a student is dropped from two courses in sequence, or three courses within a twelve-month period of matriculation, he or she may automatically be administratively withdrawn from the program. The student should then contact the program advisor if he or she wishes to re-enroll.

In order to withdraw from the program, a student must notify the Registrar in writing. The withdrawal is effective the day the notification is postmarked and is not based on the number of classes attended. The student is responsible for completing a course in progress at the time of withdrawal. Academic credit is not given for the partial completion of a course.

Public Information

The University of Redlands maintains student records in compliance with the Federal Family Educational Rights and Privacy Act of 1974 (as amended)(FERPA), which assures students and parents of their right to privacy of information. The University also complies with the California Education Code, Sections 22509 through 22509.18, which states that the management of student records shall be a matter of federal and state law and regulation.

The following is considered public information and may be released or published without the student's consent:

Student name, date, and place of birth; major field of study; dates of attendance; degrees, honors, and awards received; most recent educational institution attended; campus address, telephone number, and student-assigned e-mail; home address and telephone number; participation in special academic programs; participation in recognized student activities; participation in officially recognized sports; class level, weight, and height of athletic team members.

Students who wish the above information withheld must sign a request within two weeks of their first registration and at the beginning of each academic year (July 1) thereafter. See the Academic Standards chapter of this *Catalog* for more information regarding Academic Records

GRADUATE PROGRAMS

Requirements vary among graduate programs. Students should consult the appropriate departmental listing in this *Catalog* for specific requirements. However, the following regulations pertain to graduate students in all programs at the University of Redlands.

Credit Obsolescence

No course that has been completed more than six years before the date of graduation shall be counted toward a University of Redlands graduate degree.

Application for Graduation

Students complete a formal application for diploma thirty days prior to completion of all degree requirements. Applications may be obtained from the student's academic advisor.

Commencement

The School of Education enrolls students throughout the year and has students completing degrees at various points during the year. Students may commence in the academic year in which they complete their degree requirements if their degree requirements are completed by July 31. Doctorate degree candidates must successfully defend their dissertations by the last day of the eleventh week of Winter Term.

Students enrolled in a degree program with a Schedule of Instruction (SOI) that is completed by July 31 may participate in commencement that year, provided there are 3 (or fewer) credits to be completed in addition to the remaining courses in the SOI.

Minimum Credit and Curriculum Requirements

The minimum number of credits required varies according to the program. See individual department listings for this information.

Curricula for School of Education graduate degree programs may be subject to change each year. School of Education students should consult the annual supplementary publication.

School of Education Financial Aid

GENERAL INFORMATION

Every effort has been made to ensure the accuracy of this information at the time of publication. However, due to frequent changes in program regulations mandated by the U.S. Congress, Department of Education, and the State of California, the information contained herein is subject to change without notice.

Financial need is calculated as the difference between the cost of attending college and the expected contribution from students and their families. Financial aid is an award from a scholarship, grant, or loan that will assist in meeting this need.

Financial Aid Vocabulary

Acronyms and initials are frequently used in discussing financial aid; many appear in this publication. Familiarity with the following terms is helpful when investigating potential financial aid programs:

COA	Cost of Attendance
EFC	Expected Family Contribution
DL	Direct Lending
FAFSA	Free Application for Federal Student Aid
GPA	Grade Point Average
IRS	Internal Revenue Service
FSEOG	Federal Supplemental Educational Opportunity Grant
SAR	Student Aid Report

Eligibility

To receive need-based financial aid, a student must meet each of the following conditions:

1. The applicant must be a United States citizen or eligible non-citizen.
2. The applicant must have demonstrated financial need according to the current need-analysis procedure.
3. The applicant must be registered with the Selective Service if the applicant is a male, at least 18 years old, and not a current member of the active armed forces.
4. The applicant must be fully admitted and making progress toward an eligible degree or certificate program.
5. The applicant must certify non-participation in the unlawful manufacturing, dispensation, possession, or use of a controlled substance.

OUTSIDE FUNDING SOURCES

Military and Veteran Assistance

Military Benefits

The University of Redlands Adult and Professional Education units (School of Business, School of Education and Continuing Studies) offer a discounted tuition rate to active duty military personnel. This rate traditionally matches the Tuition Assistance rate offered by the military.

In addition, spouses of active duty military personnel are eligible for the same discounted tuition rate; the number of spouse awards is limited per school.

Veterans Benefits

The University of Redlands has been designated by the Veterans Administration as one of the qualified institutions veterans may attend and receive benefits under the following U.S. Codes:

- Chapter 30, Montgomery GI Bill (MGIB)—Active Duty
- Chapter 31, Veterans and Vocational Training and Rehabilitation Act (VR&E) [Public Laws 894 and 97-815]
- Chapter 32, VEAP
- Chapter 33, Post 9-11 GI Bill and Yellow Ribbon GI Education Enhancement Program
- Chapter 34, Vietnam Era Education Program
- Chapter 35, Dependents Educational Assistance Program (DEA)
- Chapter 1606, Montgomery GI Bill—Select Reserve (MGIB-SR)
- Chapter 1607, Reserve Educational Assistance Program (REAP)

The University is a Yellow Ribbon School with the U.S. Department of Veterans Affairs. For more information about VA benefit eligibility, contact the U.S. Department of Veterans Affairs at 1 (888) 442-4551 or visit <http://gibill.va.gov/>. To apply to the Yellow Ribbon Program at University of Redlands, contact a Veteran Certifying Official at (909) 748-8478 or visit www.redlands.edu/military.

LOANS

Federal Perkins Loan

This federal loan has an interest rate of 5%. Repayment begins nine months after graduation, upon termination of an academic program, or enrolling in fewer than 6 credits during a term. Repayment extends over a maximum of ten years at a minimum monthly payment of \$40. Additional repayment options may be requested for low-income individuals based upon criteria developed by the U.S. Secretary of Education.

Eligibility. Students with substantial financial need, which is demonstrated by a maximum Pell Grant and FSEOG, will be eligible for the Perkins Loan Program. School of Education credential students may receive up to \$200 in Perkins.

Federal Direct Subsidized Student Loan

This long-term student loan is made available from the U.S. Department of Education. No interest is charged nor is repayment required while the borrower is enrolled at least half-time. For loans disbursed after July 1, 2012, the interest rate is a fixed 6.8%. For more information, visit www.redlands.edu/direct.asp.

Eligibility. Full-time and half-time students are eligible to apply. Students are eligible for this loan if they demonstrate a financial need using standards established by the U.S. Secretary of Education. Eligibility is determined through needs analysis, documented via the FAFSA form. Eligibility is limited to U.S. citizens and qualified non-citizens. Also, the student must be officially admitted and registered in a degree-seeking program before the loan can be certified.

Loan Limits. Post-baccalaureate (teacher credential) students may borrow up to \$5,500 per academic year. The maximum aggregate loan amount for an undergraduate or postbaccalaureate student is \$31,000 (up to \$23,000 may be subsidized). Repayment of principal and interest begins six months after leaving school or if enrollment is less than half-time, with up to ten years using standard repayment. For loan periods beginning after July 1, 2012, interest on subsidized loans is no longer paid by the federal government during

the six-month grace period. Students are not required to begin making payments until the grace period ends; however, during the grace period, interest will accrue on subsidized and unsubsidized loans. If interest is not paid during the grace period, it will be capitalized. All loans are assessed a loan origination fee on the amount of the loan.

Federal Direct Unsubsidized Student Loan

This long-term loan is available from the Department of Education. The interest rate on this loan for disbursements made after July 1, 2012 is 6.8%. The Unsubsidized Loan is similar in terms and conditions to the Subsidized Loan; however, interest begins to accrue on the Unsubsidized Loan as soon as the funds are disbursed and during all eligible periods of deferment and the grace period. The student's options in handling the interest on the loan are:

1. Pay the interest and principal;
2. Pay the interest quarterly and defer the principal; or
3. Defer the interest and principal until the student goes into repayment. (Interest will accrue while the student is enrolled and in the grace period. Interest will be capitalized to the loan when the student begins repayment.)

Eligibility. Full-time and half-time students are eligible to apply. Eligibility is documented via the FAFSA form. This loan is available to graduate students and students who do not otherwise demonstrate the financial need necessary to qualify for a subsidized loan.

Loan Limits. Full-time and half-time graduate students may borrow up to \$20,500 per academic year. Undergraduate students may borrow up to \$5,500 per academic year. Maximum aggregate loan limits are: for a dependent undergraduate student, \$31,000; for an independent undergraduate student (or a dependent undergraduate student whose parent does not qualify for the PLUS Loan), \$57,500; for a graduate or professional student, \$138,500.

Federal Direct PLUS Loan for Undergraduate Students

This loan is available to creditworthy parents of undergraduate students, regardless of

School of Education Financial Aid

income. This loan program allows parents to borrow the difference between the cost of education and the financial assistance the student is scheduled to receive. The interest rate is fixed at 7.9%. When borrowing through this loan program, please remember that the federal government will deduct 4.0% in fees before funds are disbursed to the University. For example, if you need to receive a \$5,000 credit on your student account for the year, you should plan to borrow \$5,208 to cover loan fees. A student and/or parent may request additional information from the Office of Financial Aid or online at: www.redlands.edu/plus.asp.

Direct Grad PLUS Loan

The Grad PLUS Loan (GPLUS) is available to creditworthy students enrolled at least half-time in a graduate or professional program (students enrolled in the School of Education credential program are ineligible). The loan program is not dependent on income and assets and allows students to borrow the difference between the cost of education and the financial assistance they are scheduled to receive. The interest rate for this loan is fixed at 7.9%. It is recommended that students maximize their Direct Loan eligibility before borrowing from this program. For more information, visit www.redlands.edu/dgradplus.asp.

NEED-BASED GRANTS

Federal Pell Grants

(Teaching credential only)

This federal grant ranges from \$575 to \$5,550 for undergraduate and post-baccalaureate students. The award is determined by the amount of the calculated student contribution in relation to the cost of attending the University of Redlands. Grants do not have to be repaid. Eligibility is limited to a total of twelve semesters during the pursuit of the first baccalaureate or post-baccalaureate degree.

Eligibility. Full-time and half-time undergraduate or post-baccalaureate students with financial need are eligible. Those eligible generally have a low income and limited assets. Eligibility is determined through needs analysis, documented via the FAFSA form, and is limited to U.S. citizens and qualified non-citizens.

Cal Grant A or B (Credential only)

California residents who received a Cal Grant as an undergraduate student must submit a G-44 directly to the California Student Aid Commission to receive a fifth year of Cal Grant eligibility. Cal Grant eligibility is contingent on students and/or parents meeting income and asset requirements. Forms are available on the web at www.csac.ca.gov.

SATISFACTORY ACADEMIC PROGRESS

All students enrolled in a teacher credential program or graduate program through the School of Education must meet the Satisfactory Academic Progress Policy set forth by the University of Redlands and the federal government. Satisfactory academic progress is evaluated on the basis of the number of credits and approved degree requirements, as well as the student's cumulative grade point average (GPA). To receive financial aid at the University of Redlands and maintain satisfactory academic progress, students must meet the following minimum standards when progress is checked at biannual intervals:

- All students must complete at least 80% of their attempted credits each academic year. For example, a student whose program is 22 credits for the year must complete at least 18 credits to be in compliance with the University's policy.

GPA

- Undergraduate students (including post-baccalaureate teacher credential program)—minimum cumulative GPA of 2.0
- Graduate students—minimum GPA of 3.0
- The maximum time frame for completion of the two-year graduate program is no more than three years or 150% of the actual time. The maximum time frame for completion of the ten-month teacher credential program is no more than fifteen months or 150% of the actual time.

For students who attend less than full-time, the maximum time frame will be prorated accordingly, based on their attendance.

Review Intervals

Graduate Program

The Office of Financial Aid will review all students receiving financial aid for Satisfactory Academic Progress at equal intervals on a biannual basis. Students who do not meet the above requirements during any SAP review will be placed on a six-month financial aid probation until their subsequent review. Students who wish to continue to receive aid must submit a probationary agreement within thirty days of being notified of probationary status. A student will lose financial aid eligibility (financial aid suspension) at the end of the probationary period if they still fail to meet the minimum qualifications when reviewed. Students who wish to petition a financial aid suspension must submit a letter of appeal to the SAP Review Board in the Office of Financial Aid.

Teacher Credential Program

Post-baccalaureate students (teacher credential) will be required to meet minimum SAP requirements as stated above. The Office of Financial Aid will review progress at the end of the pre-service core classes, just prior to the beginning of the student teaching requirement. Students who fail to meet minimum requirements will be placed on financial aid probation for the remainder of the program and will not receive additional aid until a probationary agreement is approved by the Office of Financial Aid. Students who fail to finish student teaching in the time allotted by the School of Education, and who fail to meet the probationary requirements, will be placed on financial aid suspension and will be ineligible for further aid. Students who wish to petition financial aid suspension must submit a letter of appeal to the SAP Review Board in the Office of Financial Aid.

STUDENT RIGHTS AND RESPONSIBILITIES

The rights and responsibilities of all financial aid recipients as required by federal and state regulations are outlined below.

What students have the right to know:

- The deadlines for submitting an application for each of the available programs.

- How your financial need was determined.
- How much of your financial need has been met.
- What resources were considered in the calculation of your need.
- What financial aid programs are available and their exact requirements.
- How eligibility for financial aid programs is determined, how decisions on eligibility are made, the basis for these decisions, and the procedures for appealing decisions if you believe you have been treated unfairly.
- What portion of your financial aid is a loan, and what portion is a grant. If the aid is a loan, you have the right to know the total amount that must be repaid, the amount of each payment, the interest rate, the length of time you have to repay the loan, and when repayment is to begin.
- What it costs to attend the University of Redlands, and what the University's withdrawal policy requires of the University and of you.
- How the University determines whether you are making satisfactory progress and what happens if you are not.
- What happens if you withdraw or drop out during the year.

Responsibilities of students:

- You should carefully read all information regarding programs at the University of Redlands.
- You must complete all forms accurately and submit them on time to the correct agency or office.
- You should be careful and accurate in completing your application for student financial aid. Errors can result in long delays in your receipt of financial aid. Intentional misreporting of information on application forms for federal financial aid is a violation of law and is considered a criminal offense subject to penalties under the U.S. Criminal Code.
- You must be aware of and comply with the deadlines for application and reapplication for aid.

School of Education Financial Aid

- You need to maintain good academic standing and make satisfactory progress.
- You are required to report to the Office of Financial Aid if you drop below full-time status.
- You must provide all additional documentation, verification, corrections, and/or new information requested by either the Office of Financial Aid or by any agency to which you submitted an application.
- You have to update information concerning name change, address change, withdrawal, or graduation as they occur. Notify the Office of Financial Aid or any agency that has awarded you funds.
- You must accept responsibility for reading, understanding, and keeping copies of all forms that you are asked to sign.
- You must comply with all applicable policies and regulations when you accept financial aid from any source.
- You should keep track of the total amount of your loans as you go through school so that you have accurate knowledge of the total amount you owe when it is time to begin repayment.
- If you have received a Federal Perkins Student Loan or a Federal Direct Loan from the Office of Financial Aid, you must complete an exit interview as required by federal law before graduating, transferring, or withdrawing from the University of Redlands.
- If you receive additional funds from any source, such as outside scholarships, before or after you receive financial aid from the University, you must report the source and value of the award to the Office of Financial Aid. Receipt of additional funds frequently requires an adjustment to the existing financial aid award to avoid an “over-award” as defined by federal and state regulations.

FEDERAL REFUND POLICY

Students who withdraw or take a leave of absence from the University during an academic term may receive prorated aid based on their federally required withdrawal calculation. The withdrawal calculation re-evaluates aid eligibility at the time of withdrawal by accounting for “earned” versus “unearned” aid based on the amount of time that has elapsed during the term. There are three steps that the University of Redlands must complete to comply with the federal policy:

- Determine the withdrawal date.
- Determine the amount of earned federal aid.
- Return unearned federal funds to the appropriate program(s).

The withdrawal date is the date the student gives official notification of their intent to withdraw. For the withdrawal to be considered official, the student must provide written notification to the School of Education. If the student fails to withdraw officially, the applicable date will become the midpoint of the term, unless the University can document a later date. In certain circumstances, if a later date of last academic activity is substantiated, this date can be used in lieu of the midpoint of the term.

Students who withdraw before completing at least 60 percent of the term will “earn” funds in direct proportion to the time they were enrolled. The percentage of earned aid is determined by dividing the total number of calendar days enrolled by the total number of days in the term. Students who complete at least 60 percent of the term are eligible for 100 percent of their federal financial aid.

Unearned aid must be returned to the appropriate programs in accordance with the calculation schedule approved by the U.S. Secretary of Education. Refunds to specific Title IV programs will be made according to current regulations. For additional information on the refund calculation and refund schedule, see the Tuition and Fees section of this *Catalog*.

APPLICATION PROCEDURES AND DEADLINES

- Complete the Free Application for Federal Student Aid (FAFSA) at www.fafsa.gov prior to the academic year of anticipated entrance.
- All California residents who receive a Cal Grant must submit a GPA verification form prior to the academic year of anticipated entrance.

UNIFORM CRIME REPORTING

For information regarding compliance with federal regulations on uniform crime reporting, please refer to the Legal Statements section of this *Catalog*.

DRUG-RELATED CONVICTIONS AND STUDENT INELIGIBILITY

Title IV financial aid eligibility is suspended for students convicted of violating State or Federal drug possession or sale laws that occurred during a period of enrollment for which a student was receiving Title IV aid.

For drug possession convictions, eligibility is suspended:

- one year for the first offense,
- two years for the second offense, and
- indefinitely for the third offense.

For drug sale convictions, eligibility is suspended:

- two years for the first offense, and
- indefinitely for the second offense.

A student's Title IV financial aid eligibility may be resumed before the end of the ineligibility period if:

- the student satisfactorily completes a drug rehabilitation program which complies with criteria established by the Secretary and such a program includes two unannounced drug tests; or
- the conviction is reversed, set aside, or otherwise removed from the student's record.

APPEAL PROCESS

Any student wishing to appeal a financial aid decision must do so in writing to the University of Redlands, Office of Financial Aid in Redlands, California.

INFORMATION AND ASSISTANCE

For further information about financial aid or for assistance in completing any of the application forms, write: Office of Financial Aid, University of Redlands, P.O. Box 3080, Redlands, CA 92373-0999; or call Monday through Friday, 8 a.m. to 5 p.m., at (909) 748-8047; or e-mail financialaid@redlands.edu.

School of Education Tuition and Fees

The following schedules list the principal expenses and regulations concerning the payment of fees for the 2012-2013 academic year. All expenses are subject to change. When such changes are made, notice will be given as far in advance as possible.

Fees for the 2013-2014 academic year will be published during summer 2013.

TUITION, FEES, AND EXPENSES

Numbers in columns indicate dollar amounts.

Tuition, per credit

Education

Preliminary Teaching Credential	\$575
M.A., Education/Credential	
Administration	685
Counseling	685
Clinical Mental Health	685
Curriculum and Instruction	685
Higher Education	685
Service Credential Program	
Pupil Personnel Services	685
Preliminary Administrative Services	685
Professional Administrative Services	685
Professional Development, Induction Programs	
Master's Level	685
Non-Master's Level, per course	547
Doctorate	950

Audit, per credit

Audited courses are billed at the current per-credit rate for the degree program in which the course resides.

Repeat Courses, per credit

Repeated courses are billed at the student's per-credit program rate, provided he or she is currently enrolled in his or her core program. All other courses will be billed at the current per-credit rate for the degree program in which the course resides.

Cross-Registration with Arts and Sciences

Full-time School of Education students may cross-register for one Arts and Sciences course per term as part of their degree program with the approval of their academic advisor, provided the course does not duplicate a

School of Education offering. Classes must be at the intermediate or advanced level. Arts and Sciences add requests must be signed by the student's academic advisor and the Registrar. Part-time students are subject to the same regulations applicable to full-time students.

Other Special Costs

Replacement Diploma Fee \$50

Examination for Credit in

Lieu of Coursework, per credit. \$295

Available only to full-time students who have not previously audited or attended the course.

Matriculation Fee

(not refundable) \$150
Encompasses costs incurred by the University for maintenance of students' permanent records.

Degree Completion Extension Fee

Fee must be prepaid \$350

When an extension is granted to a student for degree completion, all options for gaining earned and certified credit will remain open to the student during the time of the extension. The extension for degree completion will begin on the date of the student's originally scheduled deadline.

Dissertation Extension Fee \$950

If a doctoral candidate is unable to complete the dissertation and successful defense of the dissertation within the last trimester of the doctoral program, a fee equivalent to 1 credit of tuition will be charged for each trimester required to complete the dissertation and defense. The candidate will be required to enroll in EDUC 862 Dissertation Writing Extension for each trimester required for completion of the dissertation and defense. The dissertation extension will be supervised by the candidate's dissertation faculty chair.

Re-enrollment Fee \$40

Thesis Fee 50

Transcripts of Records, each copy 5

Methods of Payment

Tuition and fees are billed course-by-course, with payment due 45 days from the invoice date. All charges must be paid in full or

application must be made to the University's approved tuition installment plan (TuitionPay)* prior to the tuition due date. All remittances should be made payable to the University of Redlands.

Students with past due balance on their University account are subject to dismissal from the University. The University will not release transcripts or a diploma until the past due balance is paid in full.

Students will not be permitted to pre-register for the next term until the past due balance is paid in full.

If the University is required to use third-party collections (i.e., collection agency or attorney) to collect the student account balance due, any future registration may require payment in advance.

For information regarding student and parent loan programs, please refer to the appropriate category in the Financial Aid section of this *Catalog*.

**For information regarding the tuition installment plan (TuitionPay), please contact the Student Accounts office.*

Policy on Refunds

Refund policies at the University of Redlands are established in compliance with the 2008 amendments to the Higher Education Act of 1965. The University has adopted the federal refund policy guidelines as its institutional policy. Refund policies are subject to change at any time, according to federal and state regulations. When such changes are made, notice will be given as far in advance as possible. To obtain a refund or a separate publication outlining examples of refund policy requirements and calculations, please contact the Student Accounts office. Refunds are based on the date of official withdrawal.

Students receiving federal Title IV financial aid funding may be eligible for a refund according to the federal refund guidelines. Federal regulations stipulate the allocation of refunds representing federal aid and the repayment requirements for students receiving cash disbursements of federal aid.

Official Withdrawal

A withdrawal is considered official when written notice has been provided to the Office of the Registrar stating the intention of the student to discontinue the course(s) or program in which he or she is registered or the University administratively withdraws students from courses or programs for non-attendance, financial non-payment, or academic actions. Written withdrawal notification must include the last date of attendance. The withdrawal will be considered effective as of the last date of attendance.

If a student fails to attend the first two sessions of any course, the student may be administratively dropped by the University from the course. If a student is dropped from two courses in sequence or three courses within a twelve-month period, he or she may be administratively withdrawn from the program and will be charged in accordance with the University's Refund Policy.

Returning Students

Students re-enrolling after withdrawal from the University will be charged current rates and fees based on the start date of new registration.

Noncompliance with Admission Deadlines

Students who begin coursework and then are denied admission because of failure to complete their admissions files by the end of the first course will be charged in accordance with the University's Refund Policy.

Denial of Admission

Students who are denied admission to a program after beginning their coursework may immediately withdraw or continue the current course. Students will be liable for 100% of the course costs for all courses completed. Course costs include per-credit tuition, matriculation fees, and related course fees. Academic credit will be received for all completed courses. A withdrawal is considered official when written notice is provided to the Office of the Registrar stating the student's intention to withdraw.

School of Education Tuition and Fees

Tuition Liability and Refund Schedule

A Change of Status form or a letter of withdrawal must be sent to the Office of the Registrar to withdraw officially from the program. The matriculation fee is non-refundable.

Allocation of Federal Portion of Refunds After Withdrawal

If a student must have a portion of their Title IV Funds returned as a result of their withdrawal calculation, the funds must be returned in the order dictated by federal guidelines. Current return guidelines indicate that funds must be returned in the following program order:

1. Unsubsidized Federal Direct Loan
2. Subsidized Federal Direct Loan
3. Federal Perkins Loan
4. Federal PLUS Loan (includes Grad PLUS)
5. Federal Pell Grant
6. Academic Competitiveness Grant (ACG)
7. National SMART Grant
8. Federal SEOG
9. Federal Teach Grant
10. Other Title IV Assistance

Repayment Policy

Some students receive financial aid beyond the cost of tuition and fees. In those cases, a student may have requested and received a credit balance refund from their student account. If a student withdraws completely or is disqualified, the student will be expected to repay the calculated refund using the federally mandated refund policy guidelines. Failure to repay funds could cause suspension from future participation in any federal financial aid programs.

Incentive Program

APLE

APLE is a competitive teacher incentive program designed to encourage outstanding students, district interns, and out-of-state teachers to become California teachers in subject areas where a critical teacher shortage has been identified or in designated schools meeting specific criteria established by the Superintendent of Public Instruction. Contact the APLE coordinator at (909) 748-8490 for more information.

School of Education Awards and Honors

Alpha Delta Kappa, Outstanding Student Teaching Award

Presented annually to an undergraduate and/or post-baccalaureate student pursuing a teacher credential who demonstrates a strong commitment to education and has the potential to become an outstanding educator. Alpha Delta Kappa is an honorary educational organization which promotes educational and charitable projects, sponsors scholarships, and works toward promoting excellence in the teaching profession.

Burdett Endowed Scholarship Award

Presented annually to a post-baccalaureate teacher credential candidate who demonstrates a strong commitment to education and the potential to become an outstanding educator.

Educator of the Year

Presented by the University of Redlands Alumni Association to a University graduate whose career exemplifies excellence in service and commitment to education through teaching, counseling, or administration.

Gordon Atkins Award

Presented to the master's candidate judged by graduate faculty to have demonstrated the most outstanding academic and professional development at the completion of his or her program.

Iola Threatt Elementary Teaching Award

Presented annually to an undergraduate or post-baccalaureate candidate in a multiple subject teacher credential program who possesses the qualities of creativity, conscientiousness, insight, perception, and commitment to teaching.

Stanley Combs Secondary Teaching Award

Presented annually to an undergraduate or post-baccalaureate candidate in a single subject teacher credential program who best exemplifies the moral and spiritual qualities, poise, humility, and professional attitude characteristic of a good teacher.

School of Education Programs of Study

ACCREDITATION AND CERTIFICATION

Each teacher and service credential is accredited by the California Commission on Teacher Credentialing (CCTC). The teacher credentials are aligned with California SB 2042 standards. The pupil personnel services and the administrative services credentials also meet current state mandates. Master's programs and the doctoral program are accredited through the Western Association of Schools and Colleges (WASC).

Learning outcomes for these programs may be found at:

www.redlands.edu/docs/Academics/education_student_learning_outcomes.htm

GRADUATE PROGRAMS

Master of Arts in Education Degrees

- **Counseling:**
 - Higher Education Emphasis
 - with Pupil Personnel Services Credential
 - without Credential
- **Curriculum and Instruction:**
 - with Language and Culture
 - with Spatial Literacy
- **Educational Administration:**
 - with Preliminary Administrative Services Credential
 - with Professional Administrative Services Credential
 - with Internship
- **Higher Education**

Master of Arts Degree

- **Clinical Mental Health Counseling**

Doctorate

- **Doctorate in Leadership for Educational Justice (Ed.D.)**

Professional Development

Professional development and teacher induction courses are also offered.

PRELIMINARY TEACHER CREDENTIAL PROGRAMS

Teacher Credential Programs (SB 2042)

- Preliminary Multiple Subject, elementary
- Preliminary Single Subject, secondary
- Preliminary Internship Option
- Professional Teacher Credential, Teacher Induction
- Professional Clear Credential (Ryan)
- Education Specialist Credential with an Emphasis in Mild/Moderate Disabilities

Teacher Credential Coursework and Field Experience

The coursework and the field experience segments of the Preliminary Teacher Credential are delivered in a prescribed sequence. An educational foundation course is followed by four methods-related courses. These methods courses are accompanied by two early field experiences in the public school system and the first two task-segments of the Teaching Performance Assessment (TPA), a state-mandated interactive examination that must be passed prior to recommendation for a credential. When candidates demonstrate the required program competencies, including all prerequisites, content and pedagogy coursework with a 3.0 or higher grade point average, and successful completion of the first two TPA tasks, they may begin their student teaching placements and the culminating seminar course. Throughout this portion of the program's sequence, the final two task-segments of the TPA are completed and evaluated. The use of educational technology is incorporated in all courses, field experiences and TPA segments, as are the theory and skills needed to effectively teach English Learners and diverse student populations enrolled in today's classroom.

Multiple Subject Teacher Credential Required Courses:

- EDUC 501 Educational Foundations (3)
- EDUC 503 Multiple Subject Curriculum and Methods I (Math and Science) (3)

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- EDUC 500A Multiple Subject Fieldwork Clinic I (1)
- EDUC 505 Multiple Subject Literacy and Language I (3)
- EDUC 507 Multiple Subject Curriculum and Methods II (3)
- EDUC 500B Multiple Subject Fieldwork Clinic II (1)
- EDUC 509 Multiple Subject Literacy and Language II (3)

and: Student Teaching:

- EDUC 553A Student Teaching I (5)
- EDUC 553B Student Teaching II (5)
- EDUC 552 Teaching Seminar (3)

or: Internship:

- EDUC 554 Internship (13)
- EDUC 552 Teaching Seminar (3)

Single Subject Teacher Credential

Required Courses:

- EDUC 501 Educational Foundations (3)
- EDUC 502 Teaching and Learning in Secondary Schools (3)
- EDUC 500C Single Subject Fieldwork Clinic I (1)
- EDUC 504 Single Subject Literacy and Language (3)
- EDUC 506 Single Subject Content Teaching (3)
- EDUC 500D Single Subject Fieldwork Clinic II (1)
- EDUC 508 Single Subject Content Area Literacy (3)

and: Student Teaching:

- EDUC 553A Student Teaching I (5)
- EDUC 553B Student Teaching II (5)
- EDUC 552 Teaching Seminar (3)

or: Internship:

- EDUC 554 Internship (13)
- EDUC 552 Teaching Seminar (3)

Education Specialist Credential with an Emphasis in Mild/Moderate Disabilities

The Education Specialist program prepares individuals to teach students with mild to moderate disabilities and students with autism spectrum disorders in P-12 settings.

Candidates take coursework and engage in field experiences concurrently from the very beginning of the program. The course content prepares candidates to: know and understand various types of disabilities and their causes; design, adapt and differentiate instruction for students with a wide range of abilities and disabilities; design and implement positive behavior support plans for students' behavioral challenges; administer and interpret a wide variety of assessment instruments for referral and progress monitoring of struggling students and students with mild to moderate disabilities. The combined coursework and fieldwork experiences require candidates to think critically and reflectively about the theory to practice continuum. The capstone experience in this program consists of an intensive student teaching experience in a special education classroom or setting, plus the presentation of a summative portfolio of assignments and case studies to address the Teacher Performance Expectations (TPE) required by the California Commission on Teacher Credentialing (CCTC). Completion of these requirements, along with successful completion of all coursework with a GPA of 3.0 or higher is required for recommendation for the credential.

Required Courses:

- EDUC 571 Overview of Special Education (3)
- EDUC 572 Curriculum and Instruction for Students with Mild to Moderate Disabilities and Autism Spectrum Disorders (3)
- EDUC 573 Planning, Case Management, and Behavioral Strategies for Students with Disabilities (2)
- EDUC 574 Diagnostic Reading and Specialized Interventions (3)
- EDUC 501 Foundations of Education (3)*
- EDUC 503 Multiple Subjects Curriculum (3)
- EDUC 505 Multiple Subjects Literacy and Language (3)
- Health Education Workshop

*EDUC 501 waived for students holding a

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multiple or single subject credential or those taking a workshop offered to Education Specialist candidates. EDUC 503 and 505 waived for students holding a multiple subject credential.

MASTER OF ARTS IN EDUCATION DEGREES AND SERVICE CREDENTIALS

The School of Education offers four main areas of study for a Master of Arts in Education degree: Counseling, Curriculum and Instruction, Educational Administration, and Higher Education. The requirements for a California teaching or service credential may be incorporated into degree programs. In addition, degrees may be earned without credentials, as in the Educational Administration Master's or a Master's in Counseling. For those already holding master's degrees, a pupil personnel services or both preliminary and professional levels of the administrative service credential may be earned in credential-only programs.

There are three program starts each year: September, January, and May. Classes are scheduled in the evening to accommodate working adults. Courses are taught by full-time faculty and adjunct practitioners. Students also have Internet access to course content, classmates and faculty through Blackboard, a software program that facilitates online discussions and information exchange.

Each master's program is based on a foundation of four graduate courses. These "core courses" provide the basic knowledge and skills to perform graduate level research, assessment, evaluation, writing, and personal and professional reflection, as well as pluralism. In addition to these core courses, each program has requirements specific to its discipline and tailored to meet student needs and interests.

All master's candidates complete an exit process tailored to their individual program (see program information for more details.).

Master of Arts in Education School Counseling

The Master of Arts in Education School Counseling program involves training in counseling, consultation, and helping relationships. The program provides general

counseling preparation for public and private school service, as well as other counseling positions outside the school setting. Coursework meets all standards required for a California Pupil Personnel Services (PPS) Credential.

In the Counseling program, students may combine the degree and credential, earn a master's degree only, or obtain a Pupil Personnel Services Credential, provided they already have a master's degree. The master's degree consists of 48 credits plus 600 documented fieldwork hours beyond the classroom. Twelve of the 48 credits are the core graduate courses and the remaining 36 credits are counseling-based and required for the PPS Credential. Those with master's degrees who are earning only the PPS Credential usually have a credit requirement which ranges from 15 to 24, depending on the type of master's degree the student has already earned. The 600 fieldwork hours are required for each option, and credential candidates must ensure at least two-thirds of their fieldwork hours are completed in K-12 school settings.

Although a California teacher credential is not required for the PPS Credential, successful completion of the California Basic Educational Skills Test (CBEST) is a prerequisite to enter the program. Also, candidates for the PPS program must apply for a Certificate of Clearance and need evidence of a negative TB test dated within the past two years when they initially enroll in the program. Additionally, students must pass a comprehensive written exam and oral exit interview at the end of the program.

Master of Arts in Education School Counseling with Pupil Personnel Services Credential

To obtain the master's degree along with the Pupil Personnel Services (PPS) Credential, candidates must take the four core graduate courses and all courses listed for the PPS Credential.

Core Graduate Courses

- EDUC 603 Inquiry I: Introduction to Quantitative Research (3)
- EDUC 604 Inquiry II: Introduction to Quantitative Research (3)

School of Education Programs of Study

- EDUC 626 Multicultural Counseling Aspects in Schools (3)
- EDUC 637 Master's Seminar (3)

Pupil Personnel Services Credential (PPS)

Applicants who already have a master's degree in a counseling-related field and who wish to receive a PPS Credential, must complete the following CCTC-approved courses. Some of these courses may be waived by the Director of School Counseling if already taken and transcribed in an approved master's degree.

- EDUC 601 The Counseling Process (3)
- EDUC 626 Multicultural Counseling Aspects in Schools (3)
- EDUC 653 Theories of Counseling and Psychotherapy (3)
- EDUC 654 Career Development Theory and Practice (3)
- EDUC 655 Counseling Systems (3)
- EDUC 657A Practicum: Fieldwork in Counseling (3)
- EDUC 657B Practicum: Fieldwork in Counseling (1)—must be taken three times for a total of 3 credits
- EDUC 659 Assessment Techniques in Counseling (3)
- EDUC 670 Program Administration and Evaluation (3)
- EDUC 674 School Politics and Law (3)
- EDUC 675 Curriculum and Program Development (3)
- EDUC 680 Human Development Across the Lifespan (3)

Fieldwork Requirement:

Students in the School Counseling program must complete 400 of their required 600 hours in two different K-12 levels (which is the state requirement for the PPS Credential).

Master of Arts in Education Counseling Higher Education Emphasis

The Counseling Higher Education emphasis allows students to focus on the higher education arena rather than K-12.

Students in the Counseling Higher Education Emphasis will complete the courses listed above for the School Counseling with

Pupil Personnel Services Credential with the following exceptions:

- EDUC 674 and EDUC 675 will not be taken since both have specific K-12 emphasis
- Instead, students will take:
- EDUC 667 Students in Higher Education (3)
 - EDUC 668 Mental Health Counseling in Higher Education (3)

Fieldwork Requirement:

The student who chooses to take the College Counseling track would conduct all 600 hours of their fieldwork hours at the college level. These could be done at a community college or four-year college or university in a variety of student service areas.

Master of Arts in Education Curriculum and Instruction

The Curriculum and Instruction program is designed for classroom teachers and education professionals who want to enhance their teaching effectiveness and knowledge of issues related to meaningful and relevant curriculum. In both options (a) language and culture and (b) spatial literacy, students take the four core courses listed below and select the program emphasis that best fits their career goals. In addition to the core courses and the four courses required in the selected option, students choose four elective courses with the advice of the program director to complete the 36 required credits. Students who have completed their teaching credential at the University of Redlands as post-baccalaureate students within the past six years may use four of these courses, not including student teaching, as their electives. Other students may transfer six units from an accredited program outside of the University of Redlands.

The following Core Courses are required of all Curriculum and Instruction students:

- EDUC 602 Pluralism in Education (3)
- EDUC 603 Inquiry I: Introduction to Quantitative Research (3)
- EDUC 604 Inquiry II: Introduction to Qualitative Research (3)
- EDUC 637 Master's Seminar (3)

School of Education Programs of Study

Language and Culture Option Required Courses:

- EDUC 645 Introduction to Linguistics for Educators (3)
- EDUC 646 Diversity and Inclusion (3)
- EDUC 647 Perspectives in Second Language Acquisition (3)
- EDUC 649 Teaching English Learners (3)
- Elective Courses or Transfer Courses: Twelve additional credits to be selected in consultation with the program director

Spatial Literacy Option Required Courses:

- EDUC 616 Foundations of Spatial Thinking (3)
- EDUC 617 Mapping/GIS as Instructional Tools (3)
- EDUC 618 Cultivating Spatial Literacy in Today's World (3)
- EDUC 619 Assessment and Evaluation of Spatial Literacy Programs (3)
- Elective Courses or Transfer Courses: Twelve additional credits to be selected in consultation with the program director

Master of Arts in Education Educational Administration

The Educational Administration program provides theoretical and practical coursework in school leadership. It is designed to develop school administration leaders in both the public and private sectors of education.

Students may combine the master's degree and the Preliminary Administrative Services Credential, earn a master's degree only, or complete an Administrative Services Credential at either the preliminary or professional level. Credential candidates who have been recommended for an administrative appointment in a district may be eligible for an administrative internship.

Credential candidates must possess a basic teacher or service credential and have passed the California Basic Educational Skills Test. Candidates must apply for a Certificate of Clearance when they initially enroll in the program. Prior coursework will be evaluated for equivalency.

The master's degree consists of 36 credits: 12 credits of the core graduate courses and 24 credits of courses relating to the program, credential requirements, and student interests. All master's candidates complete a portfolio, exit interview and comprehensive exam at the completion of their program.

Master of Arts in Education with Preliminary Administrative Services Credential

To receive the Master of Arts degree along with the Preliminary Administrative Services Credential, candidates must complete the four core graduate courses and all of the courses and requirements of the Preliminary Administrative Services Credential.

Core Graduate Courses

- EDUC 602 Pluralism in Education (3)
- EDUC 603 Inquiry I: Introduction to Quantitative Research (3)
- EDUC 604 Inquiry II: Introduction to Qualitative Research (3)
- EDUC 637 Master's Seminar (3)

Preliminary Administrative Services Credential

In order to become an administrator in California K-12 public schools, candidates need to gain the competencies and meet the standards required by the California Commission on Teacher Credentialing (CCTC). The following courses are approved by the CCTC to attain a Preliminary Administrative Services Credential or a Certificate of Eligibility.

- EDUC 601 The Counseling Process (3)
- EDUC 602 Pluralism in Education (3)
- EDUC 670 Program Administration and Evaluation (3)
- EDUC 671 Leadership (3)
- EDUC 673 School Finance (3)
- EDUC 674 School Politics and Law (3)
- EDUC 675 Curriculum and Program Development (3)
- EDUC 676 School Personnel Management (3)
- EDUC 678A Practicum: Fieldwork in Education: Induction (1) and EDUC 678B Practicum: Fieldwork in Education:

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Fieldwork (2). Candidates employed as administrative interns enroll in EDUC 679, Preliminary Administrative Internship Practicum (1-3).

Additionally, in order to receive the credential when coursework is completed, a candidate must have worked under the authority of a basic teacher or service credential for three years and must successfully complete an exit interview facilitated by faculty members.

Professional Administrative Services Credential

The Professional Administrative Services Credential program assists current school administrators in developing their professional skills and competencies through several options of study approved and supported by a mentor, their employer, and the coordinator of the Educational Administration program. Candidates currently employed as school administrators whose positions require the Preliminary Administrative Services Credential first enroll in an Academic Plan Development course where an individually designed program is written and approved. Each academic plan consists of 4 credits of required post-graduate coursework and 120 hours of approved professional development and coursework or the development of a professional portfolio. The academic plan must address the standards of administrative practice required by CCTC. At the end of the program, the candidate must successfully complete an exit assessment course.

- EDUC 720 Professional Administrative Services Credential Assessment: Plan Development and Mentoring (2)
- EDUC 726 Professional Administrative Services Credential Assessment: Exit (2)
- 120 hours of approved professional development and coursework

Master of Arts in Education Higher Education

The Higher Education master's program consists of 36 credits and is designed for persons pursuing careers in colleges and universities. The program prepares students to work in postsecondary institutions through

exposure to the social, cultural, and organizational contexts of higher education, theories of leadership and student development, and current issues. Students develop the skills to practice informed decision making in their roles as higher education professionals and the program embraces a social justice perspective to professional practice.

Core Graduate Courses

- EDUC 603 Inquiry I: Introduction to Quantitative Research (3)
- EDUC 604 Inquiry II: Introduction to Qualitative Research (3)
- EDUC 637 Master's Seminar (3)
- EDUC 669 Diversity in Higher Education (3)

Required Program Courses

- EDUC 607 Higher Education in the United States (3)
- EDUC 608 Evaluation and Assessment: Enhancing Program Effectiveness and Student Learning (3)
- EDUC 609 Higher Education Law (3)
- EDUC 614 Organization Theory and Management in Higher Education (3)
- EDUC 624 Introduction to College Student Development Theory (3)

Higher Education Elective Courses

Each candidate plans an additional 9 credits of coursework in consultation with the program chair.

MASTER OF ARTS DEGREE

Master of Arts in Clinical Mental Health Counseling

The Master of Arts Degree Program in Clinical Mental Health Counseling (CMHC) offers an environment of academic excellence designed to provide a transformational learning experience while preparing and empowering graduate students seeking entrance into the field of clinical mental health counseling. By having access to cutting-edge educational experiences, skilled clinical supervision, and a rigorous academic program of study, students are

School of Education Programs of Study

afforded the opportunity to acquire a comprehensive body of knowledge, professional skills, ethical foundations, and cultural competencies. With an embedded emphasis on issues of social justice and advocacy counseling, this carefully structured training program prepares students for success, responsible citizenship, and lifelong learning in the field of Clinical Mental Health Counseling (CMHC).

The 60-unit CMHC Master's degree coursework prepares students for California licensure with the Board of Behavioral Sciences as a Licensed Professional Clinical Counselor (LPCC) and to sit for the National Counselor Examination (NCE) for National Counselor Certification.

Clinical Training

Students admitted into the CMHC program, upon completing their first year of coursework, are required to perform practicum hours in a clinical setting across three semesters. Practicum hours must be completed concurrently with the sequence of academic practicum courses.

Required Courses:

- EDUC 601 The Counseling Process (3)
- CMHC 610 Sociocultural Counseling and Intervention (3)
- CMHC 613 Counseling Law and Ethics (3)
- EDUC 680 Human Development Across the Lifespan (3)
- EDUC 653 Theories of Counseling and Psychotherapy (3)
- EDUC 655 Counseling Systems (3)
- CMHC 692 Crisis Intervention Counseling (3)
- CMHC 695 Introduction to Substance Abuse Counseling (3)
- CMHC 693 Advanced Counseling: Psychopathology and Diagnostic Procedures (3)
- CMHC 615 Group Psychotherapy and Counseling (3)
- CMHC 620 Assessment Techniques in Counseling (3)
- CMHC 694 Psychopharmacology (3)
- CMHC 699A Practicum I (2)
- CMHC 640 Research and Evaluation (3)

- CMHC 699B CMHC Practicum II (2)
- EDUC 654 Career Development Theory and Practice (3)
- CMHC 699C Practicum III (2)

Elective Courses

- Twelve additional credits of advanced clinical coursework are required that can be used to specialize Clinical Mental Health practice.

Pupil Personnel Services Credential (PPS)

Clinical Mental Health Counseling students may earn the Pupil Personnel Services Credential allowing them to work in the public P-12 school system by adding the necessary coursework to the 60-unit MA.CMHC.

Required Courses include:

- EDUC 674 School Politics and Law (3)
- EDUC 675 Curriculum and Program Development (3)
- EDUC 685 PPS: Counseling in Schools (3)
- EDUC 657 A (3), B (1), C (1), D (1)

Students adding the PPS Credential will need to complete 400 hours of fieldwork in two different (P-12) settings.

DOCTORATE DEGREE

Doctorate in Leadership for Educational Justice

The Doctorate in Leadership for Educational Justice (Ed.D.) is a nationally unique program that engages up to 20 students per cohort in rigorous study, debate, research and practice. Our driving mission is to produce scholarly practitioners who are sought for leadership roles in schools, districts, agencies and public service, as well as faculty positions in institutions of higher education. The program's emphasis on educational justice sets it apart from other doctoral programs. The tenet that pre K-12 students from all backgrounds should have access to high-quality instruction, resources, and other educational opportunities guides this program. Candidates are consistently encouraged to analyze, debate, and develop productive strategies in response to the principles, challenges, and opportunities of equity and educational justice.

The graduates of the Doctorate in Leadership for Educational Justice:

- Acquire and demonstrate leadership in educational policy planning, school governance, school finance, legal and ethical practices, and school management for equitable educational outcomes.
- Provide leadership that is informed by critical pedagogy in designing, implementing and evaluating curriculum and instruction to support academic achievement in K-12 settings, as well as gain teaching experience at institutions of higher education.
- Conduct research and engage in applied projects with practicing educational leaders in the field by addressing current issues in diverse contexts.
- Master theoretical perspectives for the concrete skills required for success as an administrator, educator, researcher, or counselor.

The program comprises 60 semester credits of advanced graduate work. Twelve credits of approved graduate work may be transferred into the program from other regionally accredited institutions or accepted from masters or higher-level work taken at the University of Redlands. The required program consists of 48 semester credits to be taken over three years of three trimesters (September through December, January through March, and April through July). The program begins with a four-day Educational Justice Institute that focuses on current issues and offers students an opportunity to engage with international experts. This institute, offered each summer, brings together all doctoral students. Each cohort group shares common experiences, as well as focuses on particular areas of study during each of the three summer institutes.

The first year of the doctoral program lays a foundation for the study of educational justice in the context of theory, leadership, and policy, and builds skills in inquiry and the critical examination of practice. Year two continues to build on the foundation of understanding and applies it to the practice of educational leaders in various settings. During the second year, students will develop

their dissertation proposals and prepare for comprehensive examinations that must be passed before advancement to candidacy. The third year will focus on the primary research and writing of the dissertation under the guidance of the candidate's faculty chair and dissertation committee. Candidates will also have the opportunity to apply their knowledge of critical pedagogy by developing and teaching a course or creating professional development opportunities.

Required Program Course

Year One (21 credits)

- EDUC 830 Foundations of Social Justice Leadership (3)
- EDUC 840 Educational Inquiry (3)
- EDUC 850A Research to Practice Seminar I (1)
- EDUC 831 Legal and Ethical Issues in Educational Leadership (3)
- EDUC 841 Quantitative Research Methods I (3)
- EDUC 850B Research to Practice Seminar (1)
- EDUC 832 Educational Policy: A Multiple Perspectives Approach (3)
- EDUC 842 Qualitative Research Methods (3)
- EDUC 850C Research to Practice Seminar I (1)

Year Two (15 credits)

- EDUC 860 Dissertation Development and Proposal Writing (3)
- EDUC 833 Education Finance and Budgeting (3)
- EDUC 851A Research to Practice Seminar II (1)
- EDUC 843 Evidence and Educational Practice (3)
- EDUC 844 Social Justice Leadership for Changing Organizational Systems (3)
- EDUC 851B Research to Practice Seminar II (1)
- EDUC 835 Critical Theory and Educational Leadership (3)
- EDUC 851C Research to Practice Seminar II (1)

School of Education Programs of Study

Year Three (12 credits)

- EDUC 836 Practicum in Professional Development for Multiple Settings (3)
- EDUC 861 Dissertation Writing (3)— must be taken three times for a total of 9 credits

DEFINITION OF ACADEMIC CREDIT

One semester credit is awarded for the amount of work an average student would accomplish in a minimum of 40 hours (undergraduate) and 45 hours (graduate), including the hours spent in the laboratory or classroom.

NUMBERING SYSTEM

500–599	Post-baccalaureate credential courses not otherwise offered at undergraduate or graduate levels
600–699	Graduate level
700–799	Post-graduate credential courses not otherwise offered as graduate courses
800–899	Doctoral courses
500X-599X	Continuing education courses not applicable to a degree

EXPLANATION OF COURSE MARKINGS

Course numbers:

- separated by a comma can be scheduled in any sequence;
- separated by a hyphen must be taken in sequence as the first is a prerequisite for the one following; and
- separated by a slash indicate that undergraduate and graduate courses are offered together. Undergraduates register for the courses numbered 001-499, while graduates register for the 500- or 600-level courses.

School of Education Course Descriptions

The courses listed here are credential or graduate-level courses for those holding a baccalaureate degree. Undergraduate education courses are listed in the Education section under the College of Arts and Sciences in this Catalog.

CLINICAL MENTAL HEALTH COUNSELING (CMHC)

610 Sociocultural Counseling and Intervention. (3).

Exploration of similarities and differences that occur within and across cultures, and the conceptual intersection of cultural and social identities. Students explore their own cultural and personal attitudes, beliefs, and biases, which may influence cross-cultural interactions that impact the counseling relationship while developing their own theoretical approach as professional counselors.

613 Counseling Law and Ethics. (3).

This course is an in-depth exploration and examination of legal, ethical, and professional issues facing today's counseling profession. Students will review the legal and ethical issues they will encounter in practice and identify their role and responsibility in addressing and managing these issues.

615 Group Counseling and Consultation. (3).

This course allows students to practice the application of psychotherapeutic and counseling techniques and interventions in a group setting. Using a developmental perspective to contextualize treatment approaches, students will be prepared to lead and facilitate a variety of different types of groups with diverse populations within various settings. Prerequisites: CMHC 610, 613, EDUC 653, and EDUC 680.

620 Assessment Techniques in Counseling. (3).

Students develop skills in the selection, administration, and interpretation of standardized tests and other tools used to assess various cognitive, behavioral, and affective modalities. Prerequisites: EDUC 601, 680, CMHC 610, 613.

630 Theory and Practice in Family Counseling. (3).

This course is designed for students to advance their theoretical integration and skills in family therapy. The purpose of this advanced practice seminar is to assist students in applying clinical family theories and techniques. Emphasis will be placed on students' critical assessment of different applications of selected theories and techniques. Prerequisites: EDUC 653, EDUC 655.

640 Research and Evaluation. (3).

This course provides a basic review of descriptive and inferential statistics and how these techniques are used with research methods appropriate for counseling. Students will become proficient in computer analysis of data sets, designing and evaluating research techniques, and having the skills to understand primary research in counseling literature. Prerequisites: CMHC 610, EDUC 653.

692 Crisis Intervention Counseling. (3).

This course focuses on expanding the development of counseling skills, with particular emphasis on the knowledge, skills, and awareness needed to work effectively with clients who are in crisis. This course will also place a high priority on each student's ability to develop a greater sense of self-awareness and introspection.

693 Advanced Counseling: Psychopathology and Diagnostic Procedures. (3).

An opportunity for advanced students to make an intensive study/analysis of selected counseling cases to enhance assessment competencies in case description, problem appraisal, assessment, diagnostic classification, intervention strategies, as well as case consultation and presentation skills. Prerequisites: EDUC 601, 653.

694 Psychopharmacology. (3).

This course is designed to acquaint counseling students with the fundamentals of psychotropic drugs. Basics of pharmacology, adverse effects, indications, and drug interactions will be discussed. The overall aim of the course is to provide information, allowing

School of Education Course Descriptions

mental health providers to be informed members of the mental health care team.

695 Introduction to Substance Abuse Counseling. (3).

This course provides counselors and human service workers with an overview of the addictive process and acquaints students with concepts of chemical dependence and co-occurring disorders that impact the individual, family system, and the community. Course content will include theories and etiology of substance addiction, including prevention, intervention, and treatment.

699A Practicum I: Clinical Mental Health Counseling. (2).

Provides preparation for internship through highly structured and supervised counseling practice. Students will demonstrate the basic competencies required of professional counselors. One-hundred hours of counseling practice is required which includes providing direct service in agencies, hospitals, or schools. Class meetings provide input and group supervision by faculty. Prerequisites: EDUC 601, 651, 653, 655, 680, CMHC 610, 613.

699B,C Practicum II & III: Clinical Mental Health Counseling. (2).

The internship provides an opportunity for the student to perform, under clinical supervision, a variety of professional counseling activities that a regularly employed staff member in the setting would be expected to perform. Prerequisites: EDUC 601, 651, 653, 655, 680, CMHC 610, 613.

EDUCATION (EDUC)

500A Multiple Subject Fieldwork Clinic I. (1).

Candidates will focus on the successful completion of the Teacher Performance Assessment (TPA) Task I: Principles of Content-Specific and Developmentally Appropriate Pedagogy. Responses will require observation in classrooms and work with individual student learners. This course must be taken with EDUC 507 and EDUC 505. Equivalent to EDUG 440A. Corequisites: EDUC 507 and EDUC 505 and permission from the School of Education.

500B Multiple Subject Fieldwork Clinic II. (1).

Candidates will focus on the successful completion of the Teacher Performance Assessment (TPA) Task II: Principles of Content-Specific and Developmentally Appropriate Pedagogy. Responses will require observation in classrooms and work with individual student learners. This course must be taken with EDUC 503 and EDUC 509. Equivalent to EDUG 400B. Corequisite: EDUC 503 and EDUC 509 and permission from the School of Education.

500C Single Subject Fieldwork Clinic I. (1).

Candidates will focus on the successful completion of the Teacher Performance Assessment (TPA) Task I: Principles of Content-Specific and Developmentally Appropriate Pedagogy. Responses will require observation in classrooms and work with individual student learners. This course must be taken with EDUC 502 and EDUC 504. Equivalent to EDUG 400C. Corequisite: EDUC 502 and EDUC 504 and permission from the School of Education.

500D Single Subject Fieldwork Clinic II. (1).

Candidates will focus on the successful completion of the Teacher Performance Assessment (TPA) Task II: Principles of Content-Specific and Developmentally Appropriate Pedagogy. Responses will require observation in classrooms and work with individual student learners. This course must be taken with EDUC 506 and EDUC 508. Equivalent to EDUG 400D. Corequisite: EDUC 506 and EDUC 508 and permission from the School of Education.

501 Educational Foundations. (3).

Introduction to the field of education; its history, philosophy, sociocultural context, diversity, pedagogy, educational psychology, legal issues, and educational reform. Integrates traditional educational thinking with culturally relevant perspectives, and current research practices. Equivalent to EDUG 401. Prerequisite: permission to enroll in Teacher Credential courses from the School of Education.

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502 Teaching and Learning in Secondary Schools. (3).

Introduction to adolescent development, curriculum instructional methods, assessment, and diagnostic strategies pertaining to secondary schools. Focus includes teaching and assessment methodology, including methodologies of English Language Development (ELD) and Specially Designed Academic Instruction in English (SDAIE). Field experience required. Equivalent to EDUG 402. Prerequisites: EDUC 501 and permission from the School of Education.

503 Multiple Subject Curriculum and Methods I. (3).

Elementary math and science teaching strategies and curriculum. Integrates health, physical education, visual arts, and music. Teaching informed by California K-12 content standards and frameworks, with a focus on assessment and ELD/SDAIE strategies. Experiences with hands-on, computer-based inquiry lesson development. Field experience required. Equivalent to EDUG 403. Prerequisites: EDUC 501 and permission from the School of Education.

504 Single Subject Literacy and Language. (3).

Develops understanding of the theoretical frameworks and processes involved in secondary literacy instruction. Fundamentals of language-acquisition theory, including basic concepts in linguistics will be covered. Focuses on content-based literacy instruction. Provides an introduction to systematic, explicit, and meaningfully applied instruction in reading, writing, and related language skills. Field experience required. Equivalent to EDUG 404. Prerequisites: EDUC 501 and permission from the School of Education.

505 Multiple Subject Literacy and Language I. (3).

Develops understanding of theoretical frameworks and processes in elementary literacy instruction. Fundamentals of language-acquisition theory, including linguistic concepts will be covered. Focuses on emerging literacy-instruction strategies for English learners and English speakers. Provides an introduction to systematic,

explicit, and meaningfully applied instruction in reading, writing, and related language skills. Field experience required. Equivalent to EDUG 405. Prerequisites: EDUC 501 and permission from the School of Education.

506 Single Subject Content Teaching. (3).

Development of methodology and strategies related to curriculum and instructional methods, assessment, and diagnostic strategies pertaining to the content areas in secondary schools. Focus includes teaching and assessment methodology, including advanced teaching methodology Cognitive Academic Language Learning Approach (CALLA). Field experience required. Equivalent to EDUG 406. Prerequisites: EDUC 501 and permission from the School of Education.

507 Multiple Subject Curriculum and Methods II. (3).

Elements of curriculum design, assessment, and classroom management with an emphasis on K-8 social studies content and the integration of language arts, visual arts, and technology. Course content is informed by the California State K-12 content frameworks and state content standards. The course includes specific ELD/SDAIE strategies for instruction. Equivalent to EDUG 407. Prerequisite: EDUC 501.

508 Single Subject Content Area Literacy. (3).

Develops understanding of theoretical frameworks and processes in secondary-literacy instruction. Focuses on literacy development in the content areas. Candidates develop strategies to promote the reading-writing connection. Discussion focuses on explicit strategies and methods for guiding and developing the content-based reading and writing abilities of all students. Field experience required. Equivalent to EDUG 408. Prerequisites: EDUC 501 and permission from the School of Education.

School of Education Course Descriptions

509 Multiple Subject Literacy and Language II. (3).

Enhances understanding of the theoretical framework and processes involved in elementary-literacy instruction. Focuses on effective practices to promote literacy skills among students of diverse cultures, languages, gender, ethnicity, and children with special needs. Introduces elementary curriculum, and addresses early diagnostic and intervention techniques. Field experience required. Equivalent to EDUG 409. Prerequisites: EDUC 501 and permission from the School of Education.

520X Experiences with Exceptional Children and Youth. (3).

Experience with exceptional children and youth, emphasizing assessment, diagnosis, prescription, curriculum materials, and teaching strategies. Meets CCTC special education requirements for Clear Credential and Teacher Induction Standards.

527X Health Education. (3).

Promotes understanding of the many topics of health and wellness in today's society and their importance in the development of curriculum and teaching methods for sound classroom practices. Meets CCTC health education requirements for Clear Credential and Teacher Induction Standards.

528X Teaching Curriculum to All Students in California Schools. (4).

Improves teachers' ability to reflect and apply California Standards for the Teaching Profession. Requires demonstration of knowledge and ability to teach state-adopted academic content standards and addressing students' differing performance levels. Prerequisite: involvement in a school district Teacher Induction Program.

544X Pluralism in Education. (3).

Introduces contemporary and historical perspectives regarding cultural diversity. Candidates explore how cross-cultural contact and power are affected by social and economic factors, develop understanding of cultural similarities, and appreciate differences in communication styles. Strategies are presented for fostering positive cross-cultural

interactions among culturally diverse students. ELL factors emphasized.

545X Introduction to Linguistics for Educators. (3).

Provides understanding of how phonology, morphology, syntax and semantics affect ELL's aural and written language. Introduces strategies for ELL's literacy, communicative competence, language development, and academic achievement. First to second-language transfer issues, linguistic and sociolinguistic challenges, and academic English issues covered for ELL's. This course cannot be applied to a degree.

546X Diversity and Inclusion. (3).

Emphasizes culturally inclusive instruction and the role that culture plays in school settings. Candidates acquire strategies for obtaining in-depth knowledge of English learners' cultural experiences, and examine their own cultural beliefs and assumptions. Inclusive learning environments explored with regard to culturally responsive practices, learning styles, and knowledge of ELL's backgrounds. This course cannot be applied to a degree.

547X Perspectives on Second Language Acquisitions. (3).

Introduces contemporary and historical perspectives regarding cultural diversity. Candidates explore how cross-cultural contact and power are affected by social and economic factors, develop understanding of cultural similarities, and appreciate differences in communication styles. Strategies are presented for fostering positive cross-cultural interactions among culturally diverse students. ELL factors emphasized.

549X Teaching English Learners. (3).

This course is an advanced study of teaching English learners. It deepens and broadens the second language development knowledge, skills, and abilities acquired during the professional teacher preparation program. Candidates acquire specialized skills designed to meet the instructional needs of English learners. Meets the Professional Clear Credential Requirement.

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552 Teaching Seminar. (3).

Culmination of the Teacher Credential Program. Consists of a series of topics designed to further develop candidates' professional preparation. Serves also as a summary of course and field experience. Provides time for candidates to link theory to daily practice and prepares them for seeking a position in a school district. Equivalent to EDUG 452. Prerequisite: permission from the School of Education.

553A Student Teaching I. (5).

Supervised classroom experiences in Pre-K through grade 12. Full-day student teaching required for seven weeks, constituting a full-time job. Student teaching placements are arranged prior to student teaching by the Director of Field Experiences. Equivalent to EDUG 453A. Prerequisite: permission from the School of Education. Corequisite: EDUC 552 Teaching Seminar.

553B Student Teaching II. (5).

Supervised classroom experiences in Pre-K through grade 12. Full-day student teaching required for seven weeks, constituting a full-time job. Credit for both EDUC 553A and 553B precedes recommendation for a multiple or single subject credential. Student teaching placements are arranged prior to student teaching by the Director of Field Experiences. Equivalent to EDUG 453B. Prerequisite: permission from the School of Education. Corequisite: must be taken with the second half of EDUC 552 Teaching Seminar.

554 Internship. (13).

The Internship Program is an eighteen-week placement, supervised weekly in a public school classroom. Open for application to those who have earned a bachelor's degree and have passed both the CBEST and the applicable CSET, MSAT, PRAXIS, SSAT or an approved waiver program. Prerequisite: permission from the School of Education. Corequisite: EDUC 552.

EDUC 571 Overview of Special Education. (3).

Content includes (1) an overview of the characteristics, identification, and educational needs of special populations, (2) social, biological,

historical, cultural, economic, political and legal contexts in which special education occurs, (3) characteristics of effective programs, and (4) introduction to assessments and procedures used for determining special education eligibility. Fieldwork included.

572 Curriculum and Instruction for Students with Mild/Moderate Disabilities and Autism Spectrum Disorder. (3).

Students will study curriculum methods for students with mild/moderate disabilities, becoming familiar with evidence-based instructional practices and assessments effective for students with mild to moderate disabilities in order to inform placement decisions and implementation of IEP plans and goals.

573 Planning, Case Management, and Behavioral Strategies for Students with Disabilities. (2).

Candidates learn education specialists' roles, responsibilities and communication strategies within student study/student success teams, IEP/ITP teams and co-teaching models. Candidates are provided with an in-depth examination of basic behavioral theory and principles of learning as they apply to classroom management of exceptional students by developing a Behavior Support Plan (BSP).

574 Diagnostic Reading and Specialized Interventions. (3).

This course addresses the design and implementation of reading, literacy, and communication assessments and interventions to meet the needs of a full range of learners. Candidates will learn how to use these assessments and interventions in the context of Response-to-Intervention and other pre-referral intervention models.

EDUC 575 Education Specialist Teaching Seminar. (2).

Culmination of the Education Specialist Teaching Credential Program. Consists of a series of topics designed to develop and further candidates' professional preparation.

EDUC 576 Special Education Internship. (13).

The Internship Program is an eighteen-week supervised public school classroom experience

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in a Mild/Moderate delivery model and setting K-12 through age 22. Open for application to those who have earned a bachelor's degree, have passed CBEST, CSET, or an approved waiver program and have met program pre-service requirements.

EDUC 577A Special Education Student Teaching I. (5).

Supervised public school classroom experiences in Mild/Moderate delivery models and setting K-12 through age 22. Full-day student teaching required for seven weeks, constituting a full-time job. Student teaching placements are arranged prior to student teaching by the Director of Fieldwork Experiences.

EDUC 577B Special Education Student Teaching II. (5).

Supervised public school classroom experiences in Mild/Moderate delivery models and settings K-12 through age 22. Full-day student teaching required for seven weeks, constituting a full-time job. Student teaching placements are arranged prior to student teaching by the Director of Fieldwork Experiences. Continuation of EDUC 577A.

588X Integrating Technology and Learning in K-12 Classrooms. (3).

Designed for current K-12 teachers to enhance their technology integration skills when designing curriculum and instruction; to increase productivity, communication, research, and learning in response to the differing needs of their diverse student population. Meets the CCTC Level II requirements for Professional Clear Credential and Teacher Induction Standards. Prerequisite: EDUC 589 or equivalent.

590X Education Topics. (1-4).

A workshop course for educators to continue their professional growth. Topics will vary for each offering. Students will submit a paper describing how they have implemented the skills developed through the workshop.

601 The Counseling Process. (3).

Students will develop a conceptual understanding of the helping process and learn basic counseling and interviewing skills.

Practice in applying skills will take place through role playing and videotape review.

602 Pluralism in Education. (3).

Examination of the relationship of ethnicity, gender, class, and culture on student success in classrooms, schools, and educational systems. Cultural proficiency provides a model for study and practice.

603 Inquiry I: Introduction to Quantitative Research. (3).

Elements of quantitative research and evaluation are covered. Familiarity with written conventions is developed. Introduces review of literature, problem definition, study design, data collection and analysis, and interpretation of statistics. Application to current practice is emphasized.

604 Inquiry II: Introduction to Qualitative Research. (3).

This course introduces the essential elements of qualitative research for all education master's programs. Students will learn about the assumptions embedded in qualitative research, some of the different approaches to qualitative work, and engage in a small project to develop skills in data collection, analysis, and the communication of findings.

605 Community College Today. (3).

Introduction to contemporary issues concerning community colleges today. Emphasis will be on the academic areas, as well as those facing student support services. Faculty and professional staff issues will also be addressed.

606 Topics in Higher Education. (3).

Topics courses address questions, theories, and practice related to a special topic or area in higher education.

607 Higher Education in the United States: Contexts and Populations. (3).

This graduate survey course examines five themes in American higher education: (a) history of higher education, (b) educational access, (c) student populations, (d) roles of educators, and (e) current context.

608 Evaluation and Assessment: Enhancing Program Effectiveness and Student Learning. (3).

Emphasis on the evaluation of program efficiency, effectiveness, and impact, as well as the assessment of learning in and out of classroom settings in higher education. Intends to build the skills of planning, development, implementation, analysis, and communication of findings in projects related to evaluation and assessment.

609 Higher Education Law. (3).

This course focuses on the legal issues that are involved with higher education. The course will specifically address historical legal cases in higher education, avenues of engagement, implications of verdicts, and analysis of current and future trends.

614 Organization Theory and Leadership in Higher Education. (3).

Emphasis on theoretical perspectives of organization theory and management with a focus on colleges and universities. Introduction to organization theory, organizational structure, governance, and cultures of higher education.

616 Foundations of Spatial Thinking. (3).

Through spatial thinking, we understand and solve problems in our daily lives and in the world. This course covers all aspects of spatial thinking and its value in learning, including spatial cognition, spatial literacy, and geospatial learning. Maps and mapping within the realm of graphicacy will be covered.

617 Mapping/GIS Instructional Tools. (3).

The application of mapping and other geospatial tools and resources enhance spatial thinking and learning in the K-12 classroom. This course will emphasize hands-on activities using tools that facilitate spatial literacy. Curriculum planning and resource evaluation are included in this course. Prerequisite: EDUC 616.

618 Cultivating Spatial Literacy in Today's World. (3).

Spatial and geospatial learning vary across the curricula and by developmental stage. Meanwhile, the use of location and geography to share information in today's world

is expanding. Students will explore how mapping activities and spatial literacy learning outcomes can be aligned with diverse audiences and educational settings. Prerequisites: EDUC 616, EDUC 617.

619 Assessment and Evaluation of Spatial Literacy Programs. (3).

Evaluation and assessment are based on aligning objectives with learning outcomes. Students will explore how these apply to spatial literacy as they consider existing and potent metrics, methods, and approaches within a spatial literacy evaluation toolkit. Individual exercise classes, workshops, and whole programs will be considered. Prerequisites: EDUC 616, EDUC 617, EDUC 618.

620 Experiences with Exceptional Children and Youth. (3).

Experience with exceptional children and youth, emphasizing assessment, diagnosis, prescription, curriculum materials, and teaching strategies. Incorporates graduate-level research and writing requirements. Meets CCTC special education requirements for Clear Credential and Teacher Induction Standards.

621 Instructional Strategies for Adult Learners. (3).

Designed for individuals who are engaged in adult education or training. Exploration of adult learning development with the intent to develop strategies for self-direction, reflection, and transformation. Students gain practice in effective teaching and learning strategies and accessing resources through technology.

622 Trends and Issues in Adult Education. (3).

Designed for individuals engaged in adult education or training. Investigates adult learning development, lifespan learning, and issues in current adult education. The class selects topics of interest, such as distance learning, training, continuing education, and adult literacy.

623 Designing Curriculum for Adult Learners. (3).

Designed for individuals engaged in adult education or training. Studies various models

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of adult education and training with attention to the variety of delivery modes. Students learn to access resources through electronic sources.

624 Introduction to College Student Development Theory. (3).

This course introduces students to the main theories of college student development. Students will become familiar with and develop their own understanding of holistic, psychosocial, cognitive, and social identity theories related to college student development. Students will consider what these theories mean for their work in institutions of higher education.

625 Democratic Classroom Management. (3).

Examination of various approaches to classroom management designed to model democracy, promote equity, and maintain safe school environments.

626 Multicultural Counseling Aspects in Schools. (3).

Students will engage in experiences that promote understanding of ethnic, cultural, socioeconomic, and environmental factors impacting pupil learning and achievement. Students will learn cross-cultural counseling skills to meet the needs of diverse learners, while developing awareness of their own world view and examining how this affects their work with K-12 students.

627 Health Education. (3).

Promotes understanding of the many topics of health and wellness in today's society and their importance in the development of curriculum and teaching methods for sound classroom practices. Incorporates graduate-level research and writing requirements. Meets CCTC health education requirements for Clear Credential and Teacher Induction Standards.

628 Teaching Curriculum to All Students in California Schools. (3).

Improves teachers' ability to reflect and apply California Standards for the Teaching Profession. Requires demonstration of knowledge and ability to teach state-adopted academic content standards and addressing students'

differing performance levels. Incorporates graduate-level research and writing requirements. Meets CCTC health education requirements for Clear Credential and Teacher Induction Standards. Prerequisite: must be taken over a two-year period in conjunction with a district-provided induction program and correlated with the California Formative Assessment and Support for Teaching (CFASST).

629 Independent Study in Higher Education. (3).

Independently designed learning experience focuses on a particular question or topic in higher education. May be repeated for degree credit for a maximum of 6 credits.

630 Development of Phonological and Orthographic Knowledge. (3).

Focuses on the structure of the English language and the development of word analysis (phonological awareness, morphology, decoding and spelling) knowledge. The class provides research-based skills, knowledge and application relative to strategies and resources for developing fluent reading in students at all grade levels, including English language learners.

637 Master's Seminar. (3).

Culminating experience of the program. Students will have the opportunity to identify, explore, and research an area in depth and then communicate findings to the professional community. Prerequisites: permission from the School of Education and completion of EDUC 603 and EDUC 604.

638 Advanced Studies in Literacy: Research, Theory, and Practice. (3).

Advanced course on literacy for all students, including English language learners and special needs students. Intended for elementary and secondary teachers, covering current research-based practices from a variety of perspectives blending theory and practice. Candidates learn to articulate broader conceptual and practical frameworks in teaching reading and writing.

639 Assessment in Reading and Writing. (3).

Designed for advanced literacy assessment and the use of assessment and diagnostic instruments in informing instruction and intervention for learners. Prepares elementary and secondary teachers to become adept at observations and interviews while attaining skills in selecting, scoring, and interpreting results from a variety of informal and formal assessments.

640 Teaching Multicultural Literature and Literacies. (3).

Candidates are introduced to key theories of multicultural education. Practices related to teaching multicultural literature are introduced. Curriculum design related to teaching multicultural literacies embedded in readings and course assignments. Educational justice theories emphasized in connection with multicultural literacy education. Prerequisite: EDUC 638.

642 Practicum in Literacy Assessment and Instruction. (3).

Provides fieldwork application of principles and procedures for the design, selection, and implementation of materials, methods, and contexts for literacy assessment and instruction in teaching reading and writing, including English language learners and special needs students.

645 Introduction to Linguistics for Educators. (3).

Provides a profound examination into how languages are patterned and structured. Various theories and research on language structure and related factors in first and second language acquisition are studied. In addition, the course will examine effective teaching and assessment strategies that provide all students access to the core curriculum.

646 Diversity and Inclusion. (3).

Explores both historic and contemporary perspectives in cross-cultural education. Opportunities, achievement and career gaps, and socioeconomic outcomes will be examined. Utilizing a cultural and systemic perspective, interactions of education institutions and

socio-historic contexts leading to differentiated outcomes are examined. Culturally relevant and socially exemplary programs are studied.

647 Perspectives in Second Language Acquisition. (3).

Provides a theoretical understanding of how first and second languages are learned. Introduces language acquisition theories, factors in first and second language development, and pedagogically effective language teaching and learning strategies. Candidates' theoretical and practical language acquisition framework will enable them to effectively evaluate language activities in the classroom.

648 Democratic Classroom Management and Social Justice. (3).

Provides a reflective investigation of various approaches to classroom management that is grounded in a cognitive knowledge base and informed by social justice. Examines the ways in which social justice is secured through cognitive management and cognitive curriculum practices. Introduces practical strategies to promote equity and safe school environments in K-12 classrooms.

649 Teaching English Learners. (3).

An advanced study of teaching English learners. Deepens and broadens the second language development knowledge, skills, and abilities acquired during the professional teacher preparation program. Candidates acquire specialized skills designed to meet the instructional needs of English learners. Meets the Professional Clear Credential Requirement.

650 Understanding Issues in Literacy Assessment and Evaluation. (3).

The purpose of this course is to examine developing literacy policy and assessment efforts; foster communication and dialogue about the processes and products of such development; and explore various audiences and their often-divergent needs for different types of information (e.g., large-scale or high-stakes assessment projects).

651 Group Counseling and Consultation. (3).

This course seeks to engage students around concepts related to the development and

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implementation of school-based (P-12) group counseling oriented toward various issues facing students in schools today. Students will also be introduced to group theory and techniques as it relates to the P-12 environment, along with group leadership skills.

653 Theories of Counseling and Psychotherapy. (3).

Introduces a variety of counseling theories used to conceptualize cases in both community and educational counseling environments, including K-12, community college, and university settings with specific focus on utilizing individual and systemic, theory-based techniques for diverse populations across the lifespan. Prerequisite: EDUC 601 or by permission.

654 Career Development Theory and Practice. (3).

Students will become familiar with career development theories, sources of occupational information, the career counseling process, assessment in career counseling, and curricular approaches to fostering career development. They also will become familiar with the impact of diversity and individual differences on career development and choices.

655 Counseling Systems. (3).

This course introduces systems thinking for the helping professional. The systems approach distinguishes itself from the more traditional analytic approach by emphasizing the interactions and connectedness of the different components of a system. Students will learn the basics of thinking systemically. Prerequisite: EDUC 653.

657A Practicum: Fieldwork in Counseling. (3).

Designed to provide an overview of the various fieldwork requirements in the school counseling profession and to understand the role of the 21st century school counselor. Assist students in comparing and contrasting responsibilities as they relate to the state and national standards for school counselors.

657B Practicum: Fieldwork in Counseling. (1).

Review and critique of fieldwork experience from a public or equivalent setting, which includes 12 three-hour group case conference sessions over the three semesters and preparation for Exit Oral Interview, portfolio completion and written comprehension exam. Prerequisite: EDUC 657A. CN only.

659 Assessment Applications for School Counselors. (3).

Provides candidates with the knowledge to use assessment data in making evidence-based decisions. Candidates additionally will learn how multiple factors affect student learning when assessing the needs of all students. Analyzing assessment information in the context of understanding potential obstacles to student learning will also be examined.

662 Educator's Workshop. (1-4).

Designed to reflect curriculum trends and issues in education, while current and topical.

666 Fieldwork Practicum in Higher Education. (1-3).

Independently designed learning experience focuses on a particular area of expertise in higher education. Students will be assigned a mentor to direct fieldwork experiences. CN only.

667 Students in Higher Education. (3).

This course provides an examination of institutional culture in higher education in general and college students in particular. The history of higher education, institutional type, student development and demographics will be explored for their impact on student and organizational culture and on campus mental health care services.

668 Mental Health Counseling in Higher Education. (3).

Examines the theories and research in college counseling within the culture of student services. Explores current and future issues, problems, and trends with a focus on college counseling. The interaction of the academic and student services areas, and legal and ethical issues will also be studied.

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669 Diversity in Higher Education. (3).

This course introduces students to theory, research, and practice related to diversity in American higher education. Students learn about crucial topics such as those related to discrimination and privilege, as well as developing a critical understanding of what these issues mean for institutions and their own professional practice.

670 Program Administration and Evaluation. (3).

Emphasis on the theoretical and practical perspectives of management and evaluation of programs and program design. Introduction to organizational theory and management, team learning in a school environment, and curricular programming. Application of work required in a program proposal, including design, implementation, and evaluation strategies. Fieldwork required.

671 Leadership. (3).

Features individual leadership assessments, administrative styles, employee motivation, and leadership theory. Emphasis on school improvement, decision making and planning skills, and the sociology of organizations.

673 School Finance. (3).

Sound fiscal procedures and budgeting are introduced, including an examination of federal, state, and local educational financing. Resource management and setting budgetary priorities at the school site are studied.

674 School Politics and Law. (3).

Federal and state laws, as well as court decisions and legal opinions, are presented and analyzed as they relate to educational policies and procedures. Contract law and laws dealing with school operations are highlighted. Exploration of the field of school governance and politics in relation to positive school climate and improvement.

675 Curriculum and Program Development. (3).

Consideration of the philosophical and historical elements of curriculum, as well as emerging issues. Specific attention given to planning, developing, implementing, and evaluating programs. Additional topics include current

research in teaching practices, special programs, and the process of change within a school.

676 School Personnel Management. (3).

Examination of techniques and styles for selecting, supervising, and evaluating school personnel. Includes opportunities to observe and monitor staff performance and offers various professional in-service approaches. Employee relations, motivation, and negotiations included as students develop skills in personnel management.

678A Educational Administration Program Induction. (1)

Designed to introduce students to the expectations of the Educational Administration program and make a commitment to educational justice. Consists of a semester's work to develop a program completion plan, and set up a portfolio demonstrating the achievement of competencies based on CCTC Standards.

678B Practicum: Fieldwork in Education. (2).

Designed to fulfill major fieldwork requirements. Consists of a semester's work in educational settings to enable the student to apply administrative skills learned throughout the program. Degree and credential candidates develop a portfolio of evidences demonstrating the achievement of competencies based on CCTC Standards. Prerequisite: EDUC 678A.

679 Preliminary Administrative Internship Practicum. (1-3).

Designed to provide support and guidance for candidates who have been hired by school districts on administrative internship credentials. Expectations are the same as EDUC 678. Enrollment required every term except when enrolled in EDUC 678. CN only.

680 Human Development Across the Life Span. (3).

Designed for school counselors to explore historical and contemporary perspectives on typical and atypical human growth, development, and learning styles. Utilizing a systemic approach, the course examines physical, emotional, mental, cultural, sexual, and moral development throughout the lifespan. Prerequisite: current enrollment in the Counseling Program.

School of Education Course Descriptions

681 Foundations of Technology and Learning. (3).

First in a four-course series, this is an introduction to instructional technology/learning through the study of current research/data. Standards-based instruction, assessment, accountability, IIUSP, and data analysis will be discussed using student/school site data (STAR, API, District Multiple Measures, CBEDS, etc.).

682 Technology and Learning: from Research to Practice (Part I). (3).

Second in a four-course series. Focus on the impact of technology on instruction and student achievement. Key issues: brain-based learning, instructional delivery models, learning modalities/multiple intelligence, problem-based versus "drill and kill," assessment tools, and Internet. Prerequisite: EDUC 681.

683 Technology and Learning: from Research to Practice (Part II). (3).

Third in a four-course series. Participants apply their understanding of technology and instruction to make informed decisions about instructional hardware, software, and management. Existing technology and emerging technology will be addressed. Prerequisites: EDUC 681, 682.

684 Technology, Learning, and Planning for the Future. (3).

Final course in the series. Focus on application of learning from the previous three courses. Students will analyze data gathered in the previous courses to develop and present a plan for the future use of technology for their learning community. Prerequisites: EDUC 681, 682, 683.

685 Pupil Personnel Services: Counseling in Schools. (3).

This course explores various responsibilities that are required to be an effective counselor in today's school environment. Additionally, an overview of the identity of the professional school counselor's role will be addressed to facilitate the knowledge necessary to navigate the current functions of PPS counseling at the various K-12 levels.

688 Integrating Technology and Learning in K-12 Classrooms. (3).

Enhances current K-12 teachers' technology integration skills when designing curriculum and instruction; to increase productivity, communication, research, and learning in response to differing needs of diverse student populations. Incorporates graduate level research and writing requirements. Meets CCTC Level II requirements for Clear Credential and Teacher Induction Standards. Prerequisite: EDUC 589 or equivalent.

696 Advanced Addictions Counseling. (3).

Introduces the student to issues related to the etiology and treatment of various addictions. Counseling skills and approaches that can be utilized to match interventions for disorders of addiction to individual client needs will be addressed. Versatility and flexibility are emphasized, as well as the use of research-supported prevention and intervention strategies. Prerequisite: EDUC 695.

720 Professional Administrative Services Credential Assessment: Plan Development and Mentoring. (2).

Required of all Professional Administrative Services Credential candidates. Working with a mentor, students must complete all assessment activities and develop and obtain approval of an induction plan addressing organizational and cultural environments, dynamics of strategic issues management, ethical and reflective leadership analysis and development of public policy, management of information systems, and human and fiscal resources. CN only.

722 Learning and Leadership. (3).

Topics include instructional leadership, learning, and instructional research and theory; evaluation of teaching effectiveness, staff performance, and pupil achievement; staff development; site-based decision making; and current trends and issues. CN only.

723 Communication in an Environment of Diversity. (3).

Topics include effective interpersonal communication skills, effective oral and written presentation, cultural values and language

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diversity, demographics of the local community, the politics of language, restructuring, and coalition building. CN only.

724 Organizational Systems in Education. (3).

Topics include theory and function of human organizations, schools as systems (political, social, cultural, economic), management of organizations for change, and leadership in organizational settings. CN only.

725 Resource Management in Schools. (3).

Topics include sound practices in the management of fiscal, material, and human resources within a legal framework; district-level funding and budgeting; current problems affecting school financing; short- and long-term planning; appropriate assignment of personnel; and developing and implementing effective personnel policies. CN only.

726 Professional Administrative Services Credential Assessment: Exit. (2).

Required of all Professional Administrative Services Credential candidates. Students must complete all parts of the induction plan, a self-assessment of expectations, and an exit assessment interview. The student's mentor and the program director must verify that the student met the plan expectations. CN only.

780 Special Studies. (2).

Individually designed activity that might include approved professional development, research or evaluation problems, directed readings or tutorial, or an internship consistent with an approved professional development plan. CN only.

830 Foundations of Social Justice Leadership. (3).

Examines social justice theories and their implications in developing leadership in school reform. Identifies the social, cultural, political, and economic factors that influence schooling in a diverse society. Provides leadership knowledge, skills, and abilities for dealing with societal and institutional barriers to academic success and personal growth of all learners. Prerequisite: admission to Ed.D. program.

831 Legal and Ethical Issues in Educational Leadership. (3).

Explores legal and ethical issues in educational leadership in the context of the current policy environment. Course topics focus on laws affecting education and the application of legal and ethical practices in areas of personnel management, student services, and curriculum and program development. Prerequisite: admission to Ed.D. program.

832 Educational Policy: A Multiple Perspectives Approach. (3).

This course explores federal, state, and local policy development, implementation, and analysis. Topics include school governance, boardsmanship, and working with contracts and state and federal agencies to assure equitable access to all students. Prerequisite: admission to Ed.D. program.

833 Education Finance and Budget. (3).

Explores how revenues are generated, negotiated, distributed, and budgeted to achieve desired educational outcomes. Topics include the underlying social, political, and economic tensions associated with planning, developing, delivering, and managing educational finance resources, funding sources, facilities, and means of revolving programmatic tensions related to revenue generation, negotiation, distribution, and budgeting. Prerequisite: admission to Ed.D. program.

834 Using Technology to Create and Manage Equitable Learning Environments. (3).

Addresses technology-related issues in leadership and vision, instruction and learning, productivity and professional practice, support, management, and operations, assessment and evaluation, social and legal, and ethical issues. Focuses on the impact of the digital divide and the development of information and technology literacy throughout K-12 education. Prerequisite: admission to Ed.D. program or by permission.

835 Critical Theory and Educational Leadership. (3).

Explores pragmatics of educational leadership models grounded in social justice scholarship.

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Presents a range of school-reform models oriented toward equity-based, professional development goals within diverse contexts. Examines research-supported school improvement relative to transformation-based leadership policies. Guides candidates to develop a comprehensive model of school leadership practices relative to specific professional settings. Prerequisite: admission to Ed.D. program.

840 Educational Inquiry. (3).

Explores research theories within the context of an inquiry framework on issues related to educational leadership. Develops an understanding of the range of research methodologies to plan, conduct, and evaluate qualitative and quantitative research. Develops ways of thinking and knowing about educational inquiry that contributes to the field of study. Prerequisite: admission to Ed.D. program.

841 Quantitative Research Methods. (3).

Introduces the purpose and means of various statistical practices within academic research. Acquaints students with the language of quantitative research; different understandings of the purpose and use of statistical research; various ways of framing research questions and designing studies; and generally accepted procedures for generating, analyzing, and interpreting statistical data. Prerequisite: admission to Ed.D. program.

842 Qualitative Research Methods. (3).

An in-depth study of the major paradigms and perspectives of qualitative research. Strategies of inquiry, methods of data collection and analysis, interpretation, evaluation, and representation will be the focus of the course. Prerequisite: admission to Ed.D. program.

843 Evidence and Educational Practice. (3).

This course focuses on the use of evidence by educational leaders to improve student and organizational outcomes. Prerequisites: EDUC 840, 841, and 842.

844 Social Justice Leadership for Changing Organizational Systems. (3)

Engagement in social justice discourse in analyzing organizations as paradigmatic political environments impacting one's work

within them and the use of systemic leadership in change agency. Prerequisite: admission to the Ed.D. program.

845A Quantitative Research Methods II A. (1).

Extends understanding of categorical data statistical and graphical analysis for reporting educational research and evaluation results; includes techniques for studies of causation and association, and for both cross-sectional and longitudinal designs; and meets professional and doctoral development needs (e.g., compliance standards as well as research enhancement).

850A Research to Practice Seminar I A. (1).

A topical seminar that links research to practice relating to social justice and leadership. This course is taken concurrently with Social Justice Theories and Issues in Educational Leadership. Prerequisite: admission to Ed.D. program.

850B Research to Practice Seminar I B. (1).

A topical seminar that links research to practice relating to ethical and legal issues in leadership. This course will be taken concurrently with Legal and Ethical Issues in Educational Leadership. Prerequisite: admission to Ed.D. program.

850C Research to Practice Seminar I C. (1).

A topical seminar that links research to practice relating to making and implementing educational policy. This is taken concurrently with Educational Policy: A Multiple Perspectives Approach. Prerequisite: admission to Ed.D. program.

851A Research to Practice Seminar A. (1).

A topical seminar that links research to practice relating to educational finance and budgeting. Prerequisite: admission to Ed.D. program.

851B Research to Practice Seminar II B. (1).

A topical seminar that links research to practice relating to technology and information systems in management and instruction. This course will be taken concurrently with Using Technology to Create and Manage Equitable Learning Environments. Prerequisite: admission to Ed.D. program.

851C Research to Practice Seminar II C. (1).

A topical seminar that links research to practice relating to the use of critical theory to create change. Prerequisite: admission to Ed.D. program.

852 Research to Practice: Innovations in Leadership and Professional Development. (3).

As a culminating experience in “practice,” candidates will design and implement a syllabus for a course they may teach, develop a professional development workshop, or design a community project to promote educational justice. This opportunity will provide a laboratory for deepening skills in the application of critical pedagogy focused on educational justice. Prerequisite: admission to Ed.D. program or by permission. CN only.

860A Dissertation Development. (1).

Writing of the dissertation proposal under the supervision of the student’s dissertation chair. Prerequisite: EDUC 842.

860B Dissertation Development and Proposal Writing. (1).

Writing of the dissertation proposal under the supervision of the student’s dissertation chair. Prerequisite: EDUC 860A.

860C Dissertation Development and Proposal Writing. (1).

Writing of the dissertation proposal under the supervision of the student’s dissertation chair. Prerequisite: EDUC 860B.

861 Dissertation Writing. (3).

Dissertation writing is completed under the supervision of the candidate’s faculty research chair and the dissertation committee. Normally, candidates enroll in EDUC 861 for three terms for 3 credits each term. If the dissertation process extends longer than 9 credits, candidates enroll in EDUC 862 for 0 credits until finished. Prerequisite: dissertation proposal acceptance. CN only.

862 Dissertation Writing Extension. (0).

If the dissertation is not complete and accepted after the awarding of 9 credits, candidates will need to enroll in this course until

the dissertation is completed and accepted. There is a seven-year deadline from last term of enrollment in EDUC 861 to complete the dissertation. Prerequisite: permission from program director. CN only.

870 Special Topics. (1-3).

Designed to facilitate doctoral candidates’ guided study relative to a cognate emphasis. Entails content-specific, research and theory-based exploration of a topic related to candidate’s discipline-specific focus in the area of educational justice. Guided by a contractual outline of projects to be successfully completed (1-3 credits, can be repeated).

School of Continuing Studies

The School of Continuing Studies offers courses that may be taken individually, or as a group, leading toward a certificate.

INTRODUCTION

The School of Continuing Studies provides individuals with a variety of pathways to earn credits toward a degree, pursue a personal or professional interest, or participate in ongoing training.

Numerous courses and programs are offered throughout Southern California at regional centers in Burbank, Rancho Cucamonga, Redlands, Riverside, San Diego, Santa Ana, Temecula, and Torrance. Programs are offered in convenient evening and intensive daytime formats.

Admission

Courses are open enrollment, meaning no formal admission or application is required.

Registration

Registration must occur prior to the beginning of the course and payment is due at the time of registration.

Cross-registration with the School of Business, School of Education, and College of Arts and Sciences

Full-time, upper-division Arts and Sciences students may cross-register for School of Continuing Studies courses with the permission of their academic advisor and the Registrar. School of Business students may cross-register for School of Continuing Studies courses with the permission of their Student Services Manager. School of Education students may cross-register for School of Continuing Studies courses with permission of their program chair.

Auditing for No Credit

A student may audit a course with the approval of the School and the Instructor. Standard tuition fees apply. The Instructor will not administer or grade any exams or papers of an auditing student. Audited courses are billed at the current per-credit rate for the course.

Attendance

Students are expected to attend all of the scheduled meetings of the course(s) for which they register. Failure to attend may result in a poor or failing grade or administrative withdrawal from the course(s).

Withdrawal

Students who find it necessary to withdraw from a course or program must do so in writing. Written requests should be submitted to the School. There may be financial ramifications. In order to withdraw from a course prior to the first meeting, the School must be notified before the course begins. No record of the course will appear on the student's transcript. If a student withdraws from a course after the course has begun but prior to the last meeting, refunds will be calculated based on the last course meeting date prior to submittal of the request. Refunds are calculated based on the University refund policy. The student will receive a grade of "W" on his/her transcript. Students not attending the first two sessions of a course may be administratively withdrawn.

Examinations

The instructor may administer quizzes and examinations during a course, but are expected to notify students of quizzes and examinations in the course syllabus. Students will not usually be permitted to make up missed final examinations; however, if absence from any announced examination is required because of an emergency (personal or work related), the examination may be made up if the Instructor is provided with written verification of the emergency.

Transfer Credit for Certificate Programs

Credits (grade of 2.0 or higher) may be transferred from regionally accredited colleges and applied to a certificate program. No more than 50 percent of the certificate program may be fulfilled with transfer credit. All transfer requests must be approved by the School. Additional work may be required at the discretion of the School.

Tuition

See web site for current tuition rates:
<http://www.redlands.edu/continuingstudies>

Textbooks

Students purchase textbooks through the University of Redlands campus bookstore. Textbooks and materials are not included in tuition.

Methods of Payment

Tuition is due at the time of registration and may be paid by check, credit or debit card.

Policy on Refunds

Refund policies at the University of Redlands are established in compliance with the 2008 amendments to the Higher Education Act of 1965. The University has adopted the federal refund policy guidelines as its institutional policy. Refund policies are subject to change at any time, according to federal and state regulations. When such changes are made, notice will be given as far in advance as possible. To obtain a refund, please contact the Student Accounts office. Refunds are based on the date of official withdrawal.

Students receiving federal Title IV financial aid funding may be eligible for a refund according to the federal refund guidelines. Federal regulations stipulate the allocation of refunds representing federal aid, as well as the repayment requirements for students receiving cash disbursements of federal aid. A separate publication outlining examples of refund policy requirements and calculations is available from the Student Accounts office.

Administrative Dismissal for Financial Obligation

Students who fail to meet their financial obligations will be dismissed and will be accountable for tuition and fees accrued through the dismissal date. Students dismissed for any reason must stop attending class as they are no longer registered.

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PROGRAMS OF STUDY AND COURSES OFFERED

ACCOUNTING CERTIFICATE (ACCTCS) (26 CREDITS)

210 Principles of Financial Accounting and Reporting. (4).

Explore financial accounting and reporting concepts and procedures used in daily business operations. Examine the use of economic resources, as well as the obligations and activities of financial entities. Learn how financial information is used to analyze the financial health and performance of an enterprise.

220 Principles of Managerial Accounting. (4).

Analysis of financial and relevant non-financial information used in planning, directing, motivating and evaluating economic behavior. Concepts, terms, and techniques from financial accounting, economics, and behavioral sciences are applied to operational situations.

310 Intermediate Accounting I. (4).

Study of the financial accounting environment and the authoritative accounting literature that provides a guide to the recording of economic resources and obligations, and the related economic activities of a business enterprise. Prerequisite: ACCTCS 210.

320 Intermediate Accounting II. (4).

Study of the financial accounting environment and the authoritative accounting literature that provides a guide to the recording of economic resources and obligations, and the related economic activities of business enterprise. Prerequisite: ACCTCS 310.

410 Auditing. (4).

Examine the purposes, expectations and responsibilities of independent public auditors as the profession evolves in society. Emphasis on the auditor's decision process. Topics: legal liability, ethics, sampling theory, evidence, and audit standards. Prerequisite: ACCTCS 310.

415 Tax Accounting. (4).

Determine federal and state income tax liability for individuals, corporations and

partnerships. Topics: calculating taxes, filing returns, paying taxes, refunds, and legislative and judicial development of tax law. Prerequisite: ACCTCS 210.

421 Governmental and Not-For-Profit Accounting. (2).

Learn accounting principles and practices related to state and local government agencies and not-for-profit entities, including hospitals, colleges, religious groups, and social service organizations. Topics: fund accounting and basic financial analysis. Prerequisite: ACCTCS 210.

HEALTHCARE ADMINISTRATION CERTIFICATE (HADCDs) (15 CREDITS)

301 The U.S. Healthcare System. (1).

Review structure and function of the U.S. healthcare system, including issues and forces shaping its future. Topics include need and access to care, insurance programs, managed care, costs/expenditures, availability of resources, and assessment/improvement.

302 Healthcare Leadership Principles and Practice. (2).

Explore the principles of leadership, supervision and management within the healthcare system.

303 Healthcare Quality and Performance Management. (2).

Learn to improve organizational quality, effectiveness and performance in the areas of patient care, safety, risk management, healthcare operations, staff supervision, regulatory reporting and compliance, customer satisfaction, and business results.

304 Healthcare Information Systems and Informatics. (2).

Explore the managerial perspective on the effective use of data and information technology to improve performance in healthcare organizations.

305 Healthcare Human Resources Management and Labor Relations. (2).

Review of HR management practices in healthcare organizations.

306 Healthcare Finance. (4).

Examine financial management principles and practice in healthcare services, with an emphasis on accounting, financial statements, finance and payment systems, cash flow analysis, risk management, budgeting, and capital finance.

307 Healthcare Strategy and Marketing Development. (2).

Learn the role, function, and application of strategic planning and market development in healthcare organizations. Emphasis is placed on strategic planning, product/service development, and implementation.

HUMAN RESOURCES MANAGEMENT CERTIFICATE (HRCS) (16 CREDITS)

310 Human Resources Management. (4). Study the theory and practice of the human resource personnel function in organizations, including labor relations. Current issues in human resources management will be addressed.

311 Legal Aspects of Human Resources Management. (3).

Review state and federal regulations governing human resources management including labor law, discrimination, sexual harassment, occupational safety and health (OSHA), unions and labor relations.

312 Employee Recruitment and Selection. (3).

Explore recruitment and staffing processes, including analyzing position requirements, preparing job descriptions, recruiting candidates, selecting finalists, and orienting new employees.

313 Compensation and Benefits Administration. (2).

Explore the design, development and administration of common employee compensation and benefit programs, including pay strategies, administration of health care and retirement plans, and reward systems.

314 Performance Management. (2).

Review of best practices in measuring, analyzing and monitoring job performance.

Complete 2 of the following 3 courses:**316 Ethics in Human Resources Management. (1).**

Review ethical issues and dilemmas human resources professionals face in the workplace. Explore organizational culture, the role of the human resources manager, laws and legal constraints, and rights and responsibilities of employees and employers.

317 Risk Management and Workers' Compensation Administration. (1).

Explore the identification and management of risk from a human resources perspective, including workers compensation liabilities, workplace health and safety concerns, adequate or appropriate insurance coverage, and hostile work environments.

318 Training and Development. (1).

Examine current trends and issues in workplace training and development with special attention to the design, development, and application of training programs to improve productivity, safety, and quality.

IBM SYSTEM z CERTIFICATE (BUSCS) (12 CREDITS)

330 Enterprise Application Programming for the z/OS. (3).

Explore IBM Rational Developer for System z and develop application programming skills for large-scale enterprise systems. Topics include JCL and COBOL for applications, Websphere application development, DB2 programming, and server transaction management using CICS. Prerequisite: BUSCS 332.

331 Enterprise Server Data Management Using DB2. (3).

Learn database management skills for large-scale enterprise systems using DB2. Topics include DB2 database administration, tools for managing and programming databases within the z/OS, and special topics related to large-scale enterprise database administration.

332 Enterprise Systems Using the z/OS. (3).

Acquire knowledge and skills necessary to navigate and manage the mainframe and

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distributed computing environment using the IBM z/OS operating system. Topics include interface knowledge, file system structure, system utilities and common subsystems.

333 Administration, Networking and Security for Enterprise Systems Using the z/OS Operating Systems. (3).

Develop advanced skills to support large-scale mainframe and distributed computing applications using the IBM z/OS. Topics include system administration, networking hardware connectivity, network architecture, authentication communications strategies, problem solving, and threat analysis. Prerequisite: BUSCS 332.

MARKETING CERTIFICATE (BUSCS) (17 CREDITS)

340 Principles of Marketing. (4).

Introduction to the concept of marketing and marketing principles, with a focus on how marketing creates value for the customer. Survey the marketing mix (product, price, promotion, and place/distribution), and its application to products and services in profit and not-for-profit enterprises in a local, national, and international environment.

341 Marketing Research. (3).

Learn how to make effective marketing decisions using marketing research. Explore market research sources, data collection, analysis, surveys, research theories, and strategies. Evaluate quantitative and qualitative research with an emphasis on the value and limitations of various sources. Identify how to blend and manage marketing research sources.

342 Customer Experience Management. (3).

Develop an appreciation for the various ways customers experience products and services from brand awareness to product and service fulfillment to loyalty programs. Examine the customer and brand experience. Identify how to create a customer experience management system. Learn to deliver exceptional customer service.

343 Internet and Social Media Marketing. (2).

Explore Internet marketing, including its components, structure, and technology, as well as the application of marketing concepts to social media. Learn the strategies, tools, and tactics related to Internet marketing with special attention given to the development of messaging techniques designed for specific social media tools.

344 Integrated Marketing Communication. (3).

Survey the integration of advertising, sales promotion, public relations, direct marketing, and the marketing mix to support marketing strategy. Learn the linkages of segmentation, targeting, positioning, buyer behavior, and branding. Explore planning, budgeting, and the execution of a comprehensive, integrated marketing communication program from message development through media selection and evaluation.

345 Marketing Analytics. (2).

Learn how marketing measurement relates to business return on investment using analytics. Review top-view campaign performance, tactical management, and real-time campaign monitoring. Explore how to integrate results from multiple media and channels, including retail, sales, direct marketing, and online media. Covers use of analytics tools.

ORGANIZATIONAL LEADERSHIP CERTIFICATE (BUSCS) (12 CREDITS)

320 Managing Individual Performance. (3).

Explore the roles and responsibilities of supervisors and managers in developing, monitoring, and managing performance standards. Topics include motivation, goal setting, supervisory excellence, communication skills, reward systems, vision, and values.

321 Coaching and Mentoring. (1).

Survey the role coaching and mentoring play in improving performance, employee morale, and customer service. Topics include identifying what makes a great coach or mentor,

understanding the role, and establishing ongoing mentoring and coaching relationships.

322 Leading and Managing Teams. (2).

Examine how effective teams are led and managed even when you may not have direct authority over team members. Understand hierarchies, team dynamics, managing expectations, aligning teams with organizational goals, and communication.

323 Managing and Resolving Conflict. (2).

Develop effective conflict management skills. Learn how and when conflicts arise, and identify approaches to manage conflicts with subordinates, peers, and supervisors. Know how to engender goodwill and develop win-win conflict management tactics.

324 Organizational Change Management. (2).

Identify when, how and why organizational change occurs. Create approaches to manage change by using intervention strategies, creating buy-in, communicating in a productive and positive manner, identifying the sequence of change, and managing resistance.

325 Organizational Leadership Principles and Practice. (2).

Explore organizational leadership roles: visionary, manager, director, change agent, supervisor, coach and mentor. Identify how leadership styles influence the direction of the organization. Develop an appreciation for how leaders affect daily operations.

PROFESSIONAL FINANCIAL PLANNING CERTIFICATE (BUSCS) (21 CREDITS)

350 Financial Planning, Principles, and Practice. (3).

Learn how financial plans are developed. Topics include: establishing a client-planner relationship, gathering client data and determining client financial needs for investment, insurance, estate planning, and retirement benefits. Understand the roles and responsibilities of the financial planner, including professional ethics.

351 Insurance Planning and Risk Management. (3).

Develop life, health, casualty, and liability insurance planning strategies as part of a comprehensive financial plan. Topics include: assessing and managing risk, evaluating insurance products for tax and estate planning consequences, and understanding the role of insurance in retirement and businesses.

352 Investment Planning. (3).

Survey various investment vehicles available to meet financial planning goals. Topics include: evaluating risk tolerance, asset allocation strategies, security analysis, bond and security valuations, modern portfolio theory, market analysis, alternative investment instruments, and special topics.

353 Income Tax Planning. (3).

Develop an understanding of income tax planning opportunities, issues, and challenges. Topics include income tax law, compliance, calculations, accounting, tax of business entities, trust and estate tax, tax basis, depreciation, like-kind exchange consequences, property tax, alternative minimum tax (AMT), tax reduction techniques, passive activity rules, special circumstances, and deductions.

354 Employee Benefits and Retirement Planning. (3).

Learn how employee benefit plans and comprehensive retirement planning help clients meet their financial goals. Topics include: retirement needs analysis, Social Security, types of retirement plans, qualified plan rules, investment considerations, distribution rules and consequences, employee benefit plans and options.

355 Estate Planning. (3).

Survey estate planning principles as they relate to the development of a comprehensive financial plan. Topics include: property titles and transfers, documents, including wills and trusts, gifting strategies, tax consequences and compliance, liquidating estates, charitable giving, life insurance, business transfers, fiduciaries, and special topics.

356 Financial Plan Development. (3).

Develop professional financial planning

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strategies, approaches, and techniques. Upon completing the course, each participant will have developed and presented a comprehensive financial plan based on various client concerns, life stages, and risk tolerances.

PROJECT MANAGEMENT CERTIFICATE (PMCS) (14 CREDITS)

301 Project Management Principles and Practices. (3).

Overview of project management processes and principles used in planning and monitoring project activities from inception through closure.

302 Project Leadership, Teambuilding, and Communications. (3).

Learn essential qualitative areas necessary for effective project management, including leadership, personnel and team management, communication and strategic planning.

303 Project Cost and Quality Management. (3).

Review the essential project management tools and techniques used to estimate costs and manage quality, including procurement of resources and planning, and performing quality assurance throughout the project life cycle.

304 Project Planning, Scheduling, and Risk Management. (3).

Survey project management planning, scheduling, and risk principles, and develop effective approaches to apply these principles to complex projects.

305 Project Management Practicum. (2).

Capstone experience to the project management certificate. A practical and applied approach for review and reinforcement of previously learned project management skills, strategies, and techniques.

PURCHASING, LOGISTICS AND SUPPLY CHAIN MANAGEMENT CERTIFICATE (BUSCS) (12 CREDITS)

310 Supply Chain Management Principles and Practices. (3).

Survey of supply chain management, including defining the scope of service, procurement, and purchasing and materiel management. Business concepts include return on investment, value chain principles, contracts, legal issues, and operations management.

311 Supply Chain Management Logistics. (3).

Examine transportation and distribution concerns, including production scheduling, third-party logistics, calculating costs of services, warehousing, materiel management, analyzing value of services, staffing and supervision, and technology.

312 Supply Chain Management Procurement. (3).

Explore procurement management and contract administration, including procurement policies and procedures, supplier selection, cost analysis, contract negotiation, strategic sourcing, bidding and requests for proposals, and overall project management.

313 Supply Chain Management Practicum. (3).

Capstone experience focusing on the application of industry best practices. Topics include aligning supply chain management operations with business practices. Prerequisites: Two of the following courses: BUSCS 310, BUSCS 311 or BUSCS 312.

ELECTIVE COURSES

BUSCS 125 Business and Public Speaking. (3).

Theory and practice relevant to a variety of business and public speaking situations. Develop informational, authoritative, and persuasive presentations. Topics include active listening, audience analysis, research, style and delivery of public presentations.

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BUSCS 130 Business Writing. (3).

Develop approaches to effectively plan, write, and edit common business communications, including letters, reports, memos, and e-mails. Identify proper tone, grammar, style and format to meet audience needs. Create planning strategies and approaches that ensure accuracy and timeliness. Learn the use and misuse of electronic communication in a business setting.

BUSCS 135 Business Reporting Using Excel. (3).

Learn common business computing tasks, including the application of basic college algebra and statistical methods using Excel. Examine navigation techniques, spreadsheet and workbook formats, formulas, build-in functions, chart design, common tips and tricks, special features to simplify tasks, data filters, the Tip Function, and Chart Wizards.

BUSCS 145 Mathematical Foundations for Business. (4).

Introduction of mathematical foundations with applications for decision making in business, economics, finance, business statistics, and operations management. Focus is on mathematical concepts, including functions and their graphs and systems of equations.

BUSCS 230 Economics for Business. (4).

Introductory study of macro- and micro-economics. Macro-economics includes coverage of the national and global economy. Micro-economics studies decision making by individual firms and consumers in regard to the allocation of scarce resources.

BUSCS 232 Business Statistics. (4).

Basic statistical concepts, including measuring of central tendency and dispersion, frequency distributions, probability distributions, sampling distributions, and estimations. Also covered are statistical inference, one- and two-sample hypothesis testing.

EDUCCS 672 Educational Administrative Development. (1-2).

Individualized exploration of educational administration designed to reflect administrative trends and issues in education while current and topical.

Faculty

(Dates indicate first year of full-time service.)

Raúl Acero, Professor of Art, 2007; B.A., State University of New York at Fredonia; M.F.A., Ohio University

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- Alan DeWeerd**, Professor of Physics, 1998; B.S., University of California, Irvine; M.S., Ph.D., University of Wisconsin, Madison
- Elizabeth Doolittle**, Lecturer in Mathematics, 2001; B.S., California Lutheran University; M.S., University of Arizona
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- Jeffrey Fear**, Professor of Business Administration, 2007; B.A., University of Michigan; M.A., Ph.D., Stanford University
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- Nicholas Halisky**, Clinical Professor of Education, 2003; B.A., M.A., M.E., Whittier College
- Kelly Hankin**, Professor of Film, Johnston Center for Integrative Studies, 2002; B.A., San Diego State University; M.A., Ph.D., University of Rochester
- Jessica Hehman**, Assistant Professor of Psychology, 2009; B.S., Northern Kentucky University
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- Xinyan Jiang**, Professor of Philosophy, 2000; B.A., M.A., Peking University; M.A., Ph.D., University of Cincinnati
- Mahmoud A. Kaboudan**, Professor of Business, 2001; B.S., Cairo University; M.A., Ph.D., West Virginia University; M.B.A., Marshall University
- Yukiko Kawahara**, Associate Professor of Asian Studies, 1999; B.A., Hiroshima Jogakuin College; M.A., Ph.D., University of Arizona
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- Heather King**, Professor of English, 2000; B.A., Boston University; M.A., Ph.D., University of Wisconsin-Madison
- Daniel Klooster**, Professor of Latin American Studies, 2008; B.A., Macalester College; M.A., Ph.D., University of California, Los Angeles
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- Sharon D. Lang**, Professor of Anthropology, 1997; B.A., Boston University; M.A., Ph.D., Harvard University
- Lillian Larsen**, Associate Professor of Religious Studies, 2006; B.S., Wheaton College; M.E., University of Massachusetts; M.Div., M.A., Catholic Theological Union; M.Phil., Ph.D., Columbia University
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- Victoria A. Lewis**, Professor of Theatre Arts, 2000; B.A., Dunbarton College; M.A., Columbia University Teachers College; Ph.D., University of California, Los Angeles
- Sheila Lloyd**, Associate Professor of English, 2006; B.A., Yale University; M.A., Ph.D., Cornell University
- Teresa Longin**, Professor of Chemistry, 1998; B.S., Ithaca College; Ph.D., California Institute of Technology
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- Philip Mirci**, Associate Professor of Education, 2008; B.A., M.A., California State University, San Bernardino; M.A., University of Redlands; M.A., St. Patrick's Seminary; Ph.D., Claremont Graduate University
- Laurel Mitchell**, Senior Lecturer in Accounting, 2004; B.B.A., College of William and Mary; M.Phil., Ph.D., Columbia University
- Ross E. Mitchell**, Assistant Professor of Education, 2007; B.S., University of California, Riverside; M.S., The University of Chicago; Ph.D., University of California, Riverside
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- Michael Ng-Quinn**, Professor of Government, 1985; B.A., University of Chicago; Ph.D., Harvard University
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- Stuart Noble-Goodman**, Assistant Professor of Environmental Studies, 1999; B.A., University of California, Berkeley; M.A., Ph.D., Duke University
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- Bobby Ojose**, Assistant Professor of Education, 2007; B.S., Lagos State University, Nigeria; M.A., California State University, Dominguez Hills; Ed.D., University of Southern California
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- Jeffery Smith**, Associate Professor of Business, 2003; B.A., M.A., Ph.D., University of Minnesota, Minneapolis
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- Suzette Soboti**, Professor of Athletics and Physical Education, 1998; B.A., Skidmore College; M.A., Montclair State University
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- Julia Sushytska**, Assistant Professor of Philosophy, 2008; B.A., John Carroll University; M.A., Ph.D., State University of New York at Stony Brook
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- Satish Thosar**, Professor of Business, 2005; Bachelor of Commerce, Bombay University; M.B.A., Xavier Institute; Ph.D., Indiana University
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- Judith A. Tschann**, Professor of English, 1978; B.A., University of Minnesota; M.A., Ph.D., State University of New York at Stony Brook
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(Dates indicate years of service.)

- A. Keith Barnes**, Emeritus Hunsaker Professor of Management, 1984–1997
- Michael J. Bloxham**, Professor Emeritus of Mathematics, 1982–2009
- Wayne R. Bohrnstedt**, Professor Emeritus of Music, 1953–1993
- Douglas Bowman**, Professor Emeritus of Religion, 1969–1997
- David Bragg**, Professor Emeritus of Mathematics, 1967–2001
- John Brownfield**, Professor Emeritus of Art, 1965–2004
- Elaine S. Brubacher**, Professor Emerita of Biology, 1980–2008
- Richard F. Carlson**, Professor Emeritus of Physics, 1967–2001
- Aaron J. Cox**, Professor Emeritus of Physics, 1970–2008
- Alice B. Crabtree**, Librarian Emerita, 1959–1977
- Emily Culpepper**, Professor of Women's and Gender Studies and Religious Studies, 1989–2011
- H. Ben Dillow**, Professor Emeritus of Speech, 1969–2004
- Maurice J. Durall**, Professor Emeritus of Communicative Disorders, 1967–1999
- Carol Ann Franklin**, Professor Emerita of Education, 1976–2008
- John L. Golz**, Professor Emeritus of Music, 1953–1981
- Marcia L. Halvorsen**, Professor Emerita of Economics, 1975–1996
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The University of Redlands is accredited by the Western Association of Schools and Colleges and has, in addition, programmatic accreditation by the National Association of Schools of Music, the American Speech-Language-Hearing Association, and the American Chemical Society. The University is accredited by the California Commission on Teacher Credentialing. For more information on the Western Association of Schools and Colleges, please contact WASC 985 Atlantic Avenue, Suite 100, Alameda, CA 94501; (510) 748-9001.

STATEMENT REGARDING CHANGES

The University of Redlands generally reserves the right to modify, delete, or supplement terms, provisions, or policies set forth or referred to in this *Catalog*.

NOTICE OF NON-DISCRIMINATION

The University of Redlands does not discriminate on the basis of race, color, national origin, gender, disability, age, marital status, or sexual orientation in its programs and activities. The following person has been designated to handle inquiries regarding the non-discrimination policies:

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University of Redlands
P.O. Box 3080
Redlands, CA 92373-0999
(909) 748-8040 (Telephone Number)
(909) 335-5154 (Fax Number)

STUDENT RIGHT-TO-KNOW ACT

Information on the University of Redlands graduation and retention rates, disclosed in compliance with the Student Right-to-Know Act, Public Law 101-542, as amended, may be obtained by writing to the Registrar, University of Redlands, P.O. Box 3080, Redlands, CA 92373-0999.

JEANNE CLERY DISCLOSURE OF CAMPUS SECURITY POLICY AND CAMPUS CRIME STATISTICS ACT

The University of Redlands' annual security report includes statistics for the previous three years concerning reported crimes that occurred on campus; in certain off-campus buildings owned or controlled by the University; and on public property within or immediately adjacent to and accessible from the campus. The report also includes institutional policies concerning campus security, such as policies concerning alcohol and drug use, crime prevention, the reporting of crimes, sexual assault, and other matters. You can obtain a copy of this report by contacting the Director of Public Safety or by accessing the following website: www.redlands.edu.

CAMPUS SEX CRIMES PREVENTION ACT DISCLOSURE

In response to the federal Campus Sex Crimes Prevention Act, public information regarding sex offenders in California is authorized under section 170101 (j), of the Violent Crime Control and Law Enforcement Act of 1994 [42 U.S.C. 14071 (j)], and may be obtained by viewing the Megan's Law CDROM at the Redlands Police Department or San Bernardino County Sheriff's Department.

NOTICE OF EQUITY IN ATHLETICS

In accordance with the requirements of the Equity in Athletics Disclosure Act, the University of Redlands has prepared an annual report on its intercollegiate men's and women's athletic program participation rates and financial support data. The report is on file with and may be obtained by any student, prospective student, or member of the public from the Athletic Director or the Registrar.

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In accordance with the Federal Family Educational Rights and Privacy Act of 1974 (as amended), access to academic and behavioral student records is limited to students, dependent students' parents, and authorized school officials. The University of Redlands will not release student records without student consent or proof of dependence.

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Notes

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