

# PACIFIC UNION COLLEGE GENERAL CATALOG



2016-2018

135TH-136TH ACADEMIC YEARS

MAILING ADDRESS:  
ONE ANGWIN AVENUE  
ANGWIN, CA 94508-9707  
(707) 965-6311

PACIFIC UNION COLLEGE IS AN EQUAL OPPORTUNITY EDUCATIONAL INSTITUTION.

## **Pacific Union College**

### *Is accredited\* by:*

The Accrediting Commission for Senior Colleges and Universities of the Western Association of Schools and Colleges  
Western Association of Schools and Colleges  
985 Atlantic Avenue, Suite 100, Alameda, California, 94501  
(510) 748-9001, <http://www.wascweb.org>

Adventist Accrediting Association  
General Conference of Seventh-day Adventists  
12501 Old Columbia Pike, Silver Spring, Maryland 20904  
(301) 680-6000, <http://education.gc.adventist.org>

### *Offers programs accredited by:*

Commission on Teacher Credentialing  
Council on Social Work Education (Baccalaureate)  
International Assembly for Collegiate Business Education  
National Association of Schools of Music (Baccalaureate)  
Accreditation Commission for Education in Nursing  
(Baccalaureate and Associate Degree Programs)

### *Is a member of:*

American Association of Collegiate Registrars and Admissions Officers  
American Association of Presidents of Independent Colleges and Universities  
Association of American Colleges and Universities  
Association of Governing Boards of Universities and Colleges  
Association of Independent California Colleges and Universities  
California Council on the Education of Teachers  
College Placement Council

Council of Independent Colleges  
Independent Colleges of Northern California  
National Association of Independent Colleges and Universities  
National League for Nursing  
North American Association of Summer Sessions  
Western Association of Graduate Schools

### *Is approved by:*

The Attorney General of the United States for nonimmigrant students  
California Board of Registered Nursing  
California Commission on Teacher Credentialing

## **Equal Opportunity Commitment**

Pacific Union College is committed to equal opportunity for qualified men and women of any handicap, race, color, national or ethnic origin. It extends to them all the rights, privileges, programs and activities generally accorded or made available to members of the college community. It does not discriminate against qualified persons on the basis of handicap, sex, race, color, national or ethnic origin in administration of its educational and admissions policies, financial affairs, employment programs, student life and services, or any other college, administered program.

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\*Accreditation documents may be viewed in the Office of the Vice President for Academic Administration.

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Clinical Laboratory Science  
Communication Sciences & Disorders  
Cytotechnology  
Dental Hygiene  
Dentistry  
Health Information Administration  
Healthcare Administration  
Law  
Medical Radiography & Radiation Sciences  
Medicine  
Nuclear Medicine  
Nutrition & Dietetics  
Occupational Therapy  
Optometry  
Orthotics & Prosthetics  
Pathologists' Assistant  
Pharmacy  
Physical Therapy  
Physical Therapy Assistant  
Physician's Assistant  
Public Health  
Respiratory Care  
Veterinary Medicine

Pacific Union College, a distinctive Seventh-day Adventist college in the liberal arts tradition, is characterized by the intentional integration of faith and learning. As such, the College's curriculum is designed to provide its students with the type of essential learning outcomes that all students will need to both survive and thrive in the twenty-first century. The Association of American Colleges and Universities, the leading association concerned with the quality, vitality, and public standing of undergraduate liberal arts education, defines these essential learning outcomes:

- Knowledge of human cultures and the physical and natural world through study in the sciences and mathematics, social sciences, humanities, histories, languages, and the arts, focused by engagement with big questions, both contemporary and enduring.
- Intellectual and practical skills, including inquiry and analysis, critical and creative thinking, written and oral communication, quantitative literacy, information literacy, teamwork and problem solving, practiced extensively across the curriculum in the context of progressively more challenging problems, projects, and standards for performance.



*Heather J. Knight*

- Personal and social responsibility, including civic knowledge and engagement – local and global, intercultural knowledge and competence, ethical reasoning and action, foundations and skills for lifelong learning, anchored through active involvement with diverse communities and real-world challenges.

- Integrative and applied learning, including synthesis and advanced accomplishment, across general and specialized studies demonstrated through the application of knowledge, skills, and responsibilities to new settings and complex problems.\*

At PUC, however, all of these exciting essential learning outcomes are mediated through the teaching of caring and committed Christian professors who present their disciplines through the lens of faith. Furthermore, this profound intellectual and spiritual journey takes place in a magnificent natural environment designed to draw our students even closer to a loving Creator. So, welcome to Pacific Union College, a very special place that you will find to be “academically outstanding and spiritually authentic.”

Let the learning begin!

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*\*Aim High and Make Excellence Inclusive*  
Strategic Plan, 2008-2012

Association of American Colleges and Universities, p. 3.

# Calendar, 2016-2018

## September 2016

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## October 2016

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## November 2016

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## December 2016

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## January 2017

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## February 2017

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## June 2017

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## August 2017

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## September 2017

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## October 2017

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## November 2017

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## December 2017

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## January 2018

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## February 2018

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## March 2018

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## April 2018

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## May 2018

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## June 2018

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## July 2018

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## August 2018

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## 2016-2017

### Fall Quarter (2016)

W-Su	Sep	21-25	New Student Orientation
M		26	Instruction begins
Th		29	Last day to enter or delete courses
M-S	Oct	10-15	Fall Revival
F	Nov	18	Thanksgiving recess begins (4:00 p.m.)
Su		27	Thanksgiving recess ends (10:00 p.m.)
M		28	Last day to withdraw from courses
M-Th	Dec	12-15	Final examinations

### Winter Quarter (2017)

Su	Jan	8	New Student Orientation
M		9	Instruction begins
Th		12	Last day to enter or delete courses
M		16	Martin Luther King Day; no classes
T-S		17-21	Winter Revival
F	Feb	10	Mid-quarter vacation; no classes
M	Mar	6	Last day to withdraw from courses
M-Th		20-23	Final examinations

### Spring Quarter (2017)

Su	Apr	2	New Student Orientation
M		3	Instruction begins
Th		6	Last day to enter or delete courses
M		10	2017-18 registration begins/Seniors
F-Su		21-23	Alumni Weekend
M		24	2017-18 registration begins/All students
M-S		24-29	Student Week of Prayer
M	May	29	Memorial Day; no classes
T		30	Last day to withdraw from courses
M-Th	Jun	12-15	Final examinations
F-Su		16-18	Commencement

### Summer Quarter (2017)

M	Jun	19	Instruction begins
T	Jul	4	Independence Day; no classes
F	Aug	18	End of Summer Quarter

## 2017-2018

### Fall Quarter (2017)

W-Su	Sep	20-24	New Student Orientation
M		25	Instruction begins
Th		28	Last day to enter or delete courses
M-S	Oct	9-14	Fall Revival
F	Nov	17	Thanksgiving recess begins (4:00 p.m.)
Su		26	Thanksgiving recess ends (10:00 p.m.)
M		27	Last day to withdraw from courses
M-Th	Dec	11-14	Final examinations

### Winter Quarter (2018)

Su	Jan	7	New Student Orientation
M		8	Instruction begins
Th		11	Last day to enter or delete courses
M		15	Martin Luther King Day; no classes
T-S		22-27	Winter Revival
F	Feb	9	Mid-quarter vacation; no classes
M	Mar	5	Last day to withdraw from courses
M-Th	Mar	19-22	Final examinations

### Spring Quarter (2018)

Su	Apr	1	New Student Orientation
M		2	Instruction begins
Th		5	Last day to enter or delete courses
M		9	2018-19 registration begins/Seniors
F-Su		20-22	Alumni Weekend
M		23	2018-19 registration begins/All students
M-S		23-28	Week of Prayer
M	May	28	Memorial Day; no classes
T		29	Last day to withdraw from courses
M-Th	Jun	11-14	Final examinations
F-Su		15-17	Commencement

### Summer Quarter (2018)

M	Jun	18	Instruction begins
W	Jul	4	Independence Day; no classes
F	Aug	17	End of Summer Quarter

## Using this Catalog

You should become acquainted with this catalog before you begin your studies at Pacific Union College and should consult it throughout your college career. It is an important resource which describes the policies you must follow and the requirements you must meet in order to achieve your academic goals.

You should use this catalog to find information regarding the academic program that you have selected. Even if you have not yet decided on a major, you should become familiar with the general education program and plan a schedule of courses based on its requirements. Though an academic advisor is provided to offer guidance and advice, *you have the ultimate responsibility for meeting the requirements of the program you choose.*

Every effort has been made to ensure that the information in this catalog is correct at the time of publication. Altered circumstances and policy changes, however, may affect the accuracy of the information it contains. Consequently, should any regulations or program requirements be in conflict with information in this catalog, current regulations and requirements govern.

The catalog presents only an overview of college policies and regulations. Other existing requirements are equally binding, though not published in this catalog.



## History

The Seventh-day Adventist Church has a heritage of strong commitment to education. Its members expressed this commitment during the late 1800s and early 1900s by establishing schools and colleges near major population centers across North America. In 1874 the Church founded its first college in Battle Creek, Michigan. A few years later the rapidly growing California church began looking for a good location for a school in Northern California.

In the vineyards of Healdsburg, fifteen miles north of Santa Rosa, the searchers found an ideal property. Total cost of the imposing brick structure and its furnishings, just off Healdsburg's main street, was thirty gold coins. The new school, to which Pacific Union College traces its roots, opened April 11, 1882, with two teachers and twenty-six students. In 1899, to reflect more accurately the school's purpose and its expanding curriculum, the school's name was changed to Healdsburg College; it became Pacific Union College in 1906.

When the Angwin Resort on Howell Mountain, above Napa Valley's St. Helena, became available, the College Board sensed the opportunity to secure more adequate space for the growing school and the associated businesses that had been established to provide student employment. They bought the buildings and land for \$60,000. On September 29, 1909, Pacific Union College was dedicated at its present Angwin site. The resort's hotel, bowling alleys, and cottages became dormitories, classrooms, and faculty homes. Students and faculty worked together building other structures, often using lumber harvested from college property.

## The Campus

Today the institution occupies a 200-acre main campus surrounded by approximately 1800 acres of college-owned agricultural and forested land. The school's estate includes 60 major structures as well as faculty homes, necessary utilities, and other buildings. Fifteen academic buildings house the library, classrooms, laboratories, and offices. West Hall, the oldest, dates from 1917. The newest, Chan Shun Hall, is a modern science complex, in use since 1986. It includes 55,000 square feet of classroom, laboratory, and office space. Four women's residence halls can accommodate approximately 700 students; three men's halls, approximately 600.

## The Area

The college is located on Rancho La Jota, whose title is based on an old Mexican land grant. It is surrounded by places of historic significance in the development of the American West: Sonoma, the northernmost Spanish mission in California and the scene of the Bear Flag Revolution; Fort Ross, the southernmost Russian outpost on the continent; Sutter's Fort and the California gold diggings; and the routes of early explorers, traders, and immigrant groups.

Howell Mountain, the school's site, is a junction point for the life zones of north and south, coast and interior, and is recognized as an unusually rich area for studying plant and animal life. About one hundred miles from the campus, at Albion in Mendocino County, the college owns fourteen acres where it operates the Albion Field Station. This primitive region, where the Albion River empties into the Pacific Ocean, presents unusual opportunities to study marine biology and botany.

The San Francisco, Oakland, and Sacramento International Airports are within a two-hour drive from the campus. Bus service from St. Helena to Napa, Berkeley, Oakland, San Francisco, and other cities brings the cultural opportunities of large urban communities within reach of the student body.

## **Institutional Student Learning Outcomes**

The outcomes for the Academic Program\* and for General Education\*\*, together with these Institutional Student Learning Outcomes, comprise a Christian liberal arts education at Pacific Union College.

*“Joyful is the person who finds wisdom, the one who gains understanding” —Proverbs 3:13*

➤ ***Wholeness***

PUC graduates will make mature, independent choices integrating the needs of body, mind, and spirit.

➤ ***Integrity***

PUC graduates will live lives based on the highest ethical standards.

➤ ***Service and Stewardship***

PUC graduates will practice the Biblical imperatives to serve humanity, resist injustice, and care for the created world.

➤ ***Diversity***

PUC graduates will display intercultural competence and understanding as informed members of a dynamic global church and world community.

➤ ***Our Adventist Heritage***

PUC graduates will understand and value the major tenets of Seventh-day Adventist Christian thought, including the blessing and significance of the Sabbath.

➤ ***Maintaining Lifelong Learning***

PUC graduates will continue to practice the intellectual skills, curiosity, and creativity necessary to live lives of useful human service, both personally and professionally.



\* *The Academic Program Student Learning Outcomes can be found online at <http://www.puc.edu/academics/degrees,programs>.*

\*\* *The General Education Student Learning Outcomes can be found in the section entitled “General Education” in this catalog.*

Pacific Union College is a Christian liberal arts college sponsored by the Seventh-day Adventist Church. Its mission is to prepare its students for fellowship with God and service to Him through service to humanity. To achieve its mission, the college offers an excellent education, informed by a distinctive Seventh-day Adventist Christian point of view, to all who appreciate the school's unique values and its integration of faith and learning. Paying special attention to Christianity's role in civilization, the college considers liberal arts study with a Christian perspective to be uniquely valuable not only for its own sake, but also as a basis for career training and professional life.

*Pacific Union College is a Seventh-day Adventist learning community offering an excellent Christ-centered education that prepares its students for productive lives of useful human service and uncompromising personal integrity.*

## **Christian Liberal Education**

Liberal arts education with a Christian perspective prepares one to live in responsible human freedom. Such study promotes a balanced self-development. It frees one from the confines of personal experience and immediate interests and encourages entering with understanding into the experience of others. It advocates at once a tolerance of differing views, the respect those views deserve, and vigorous engagement with them. It fosters those lifelong habits of curiosity and serious inquiry that sustain the growth of the human spirit. It develops creative self-expression, including the ability to speak and write articulately. It provides breadth and flexibility for coping and adapting in a changing world.

## **The Major**

As an essential part of their liberal arts education, students choose majors for specialized study in harmony with their personal interests and as preparation for successful entry into their

chosen careers or into graduate study. The college regularly reviews all programs to maintain their quality and to ensure that they respond to current student demand and to the changing needs of the Church and the larger community.

## **General Education Core**

The structured general-education core gives scope of knowledge. The liberal arts emphasis in both the major and the general-education core promotes quality of understanding. The graduate should therefore have

a growing knowledge and an enlightened appreciation of the major areas and modes of learning. A personally appropriated Christian view of the origin and purpose of human life should give this knowledge coherence for each student.

## **Independent, Critical Thinking**

Beyond giving information, the disciplines of the liberal arts create the environment for students to develop their abilities to think analytically, critically, and independently. Students are challenged to find original solutions for a variety of problems. Such study teaches not only the different modes of inquiry and their valid uses, but also their limitations.

## **Faith and Learning**

In a church-related college, tensions may sometimes occur between the claims of a religious belief system and those of academic pursuits. But because faith without thought is not an acceptable alternative to thought without faith, such unresolved tensions should never force the sacrifice of one to protect the other. Ideally, they should energize creative study of the valid claims of both faith and learning and of their interrelationships. A foundation of knowledge and understanding strengthens faith.

## **The Mission of the College**

Because the challenge of resolving ambiguities and uncertainties often produces the most valuable new insights, such study should both preserve intellectual honesty and enhance a faith worth holding. Knowing truth does indeed bring freedom.

### **Responsible Freedom**

Students are urged through their total college experience to evaluate their own convictions and to infuse them with enduring cultural values and essential Christian principles. They are invited to recognize that changing times require a fresh statement of this heritage, but not its compromise. They are challenged to blend these timeless values and principles in a distinctive lifestyle that includes responding helpfully to human need, wherever encountered, in a natural expression of their own Christian calling. As Jesus showed, the finest incarnation of responsible freedom is in compassionate human service.

### **The Mission Realized**

The mission of the college is therefore partly realized when its students leave the campus well prepared for advanced study and for selfless service to humanity in productive careers marked by uncompromising personal integrity. The mission is more perfectly realized when these same students are set on their way free to approach their potential as persons restored in the image of God and as agents of His grace in the world.

## Orientation for New Students

Prior to fall quarter, the college provides an orientation program to acquaint new students with various aspects of campus life. Activities include a weekend retreat, familiarization with the use of campus facilities and services, and social gatherings to provide opportunities for becoming acquainted with other students and faculty members.

Prior to winter and spring quarters, an orientation information session is held to acquaint new and transfer students with various aspects of campus life.

## Student Life

Pacific Union College is an independent, coeducational institution, operated in harmony with the beliefs, practices, and educational philosophy of the Seventh-day Adventist Church. In keeping with the special character of the college, you are encouraged to relate your academic study to your understanding of the Christian faith.

The college emphasizes the development of sound Christian character and makes a continuous effort to maintain an atmosphere that encourages commitment and growth in a personal relationship with Jesus Christ. Thus faith and learning combine to prepare you for a life of Christian service.

### College Standards for Student Conduct

In harmony with the purposes of the college, you are expected to consistently avoid all forms of personal conduct that are scholastically deleterious or spiritually or morally destructive. You are expected to refrain from the use of drugs, alcoholic beverages, tobacco, and improper sexual conduct, and to respect the facilities of the college and the property of others.

Applicants unwilling to pledge compliance with these standards will not knowingly be accepted or retained at Pacific

Union College. If you find yourself out of harmony with these standards and social policies, or your conduct and attitude show evidence of a negative or noncooperative influence, you may expect dismissal from the college.

The Student Services Office publishes the *Student Handbook* ([www.puc.edu/studenthandbook/](http://www.puc.edu/studenthandbook/)), which presents in detail the standards of conduct referred to above. Application to and enrollment in the college are viewed as evidence that you have chosen to abide by The Student Life Agreement and the practices and regulations that appear in official college publications.

### Religious Life

In keeping with the special character of this Christian college, you are expected to attend a specified number of worship and vesper services, all of which are planned to stimulate growth and maturity in Christian living.

You may participate in a variety of other religious activities: small group Bible study, the Student Missionary program, short-term mission opportunities, off- and on-campus service groups, and retreats. These activities provide opportunities for you to be active in service to God and humanity.

### Cultural Activities

Cultural activities include a Fine Arts Series featuring guest artists and members of the music faculty in classical music concerts; the Heubach Lecture Series and the Longo Lecture series, each of which offers outstanding presentations by distinguished guest speakers; and Rasmussen Art Gallery exhibitions featuring guest artists, members of the art faculty, and student art work. These events are provided to the campus and surrounding community free of charge.

### Recreational Facilities

College recreational facilities include a lounge and game room in the Campus Center (Dining Commons, first floor); a gymnasium with three full-size basketball courts where basketball,

## Student Life and Services

volleyball, futsal and badminton are available; a fitness center with cardio machines and weight rooms containing free weights and weight machines; an Olympic-size swimming pool; lighted outdoor tennis courts; and athletic fields for softball, soccer, volleyball, flagball, and running track & trails. Recreational areas near the college offer skiing, golfing, scuba diving, and boating.

### Student Association

Every student enrolled for a minimum of six quarter hours is automatically a voting member of the Student Association. The Association is responsible for promoting and conveying the ideals and objectives of the college and coordinates a number of social and religious activities and other services on campus. These include producing the campus newspaper (*Campus Chronicle*), and the yearbook (*Diogenes Lantern*).

The main purpose of the Student Association is to provide social and spiritual programming and to serve as a liaison with college administrators. The SA Senate is an additional forum for addressing relevant campus issues.

You are invited and encouraged to participate in the various opportunities the Association provides for activities and leadership. A detailed description of the Student Association organization appears in the Association's Constitution and Bylaws.

## Student Housing and Dining

As a Pacific Union College student, you must register your housing in the Student Services Office. Housing policies also apply if you are enrolled in summer sessions or working full or part time on campus during summer sessions.

### Residence Halls

Pacific Union College affirms the values to be gained from being primarily a residential college. If you are an unmarried student age 22 or younger who accepts admission to the college, you agree to live in a residence hall (unless you apply for and are granted an exception). Residence halls are available to students currently enrolled at Pacific Union College who meet eligibility requirements. If you are age 24 or older you may live in a residence hall on a "space-available" basis upon application.

### Off-Campus Housing

If you are an unmarried student in good standing, your request for off-campus housing may be approved if you are:

1. age 23 or older,
2. age 22 and will be turning 23 during the current academic year,

3. a fifth-year senior (Student Missionary and Taskforce years may count as one year),
4. a holder of an earned bachelor's degree,
5. a single parent,
6. divorced or widowed,
7. living with parents or other immediate relatives (grandparents, aunts, uncles, siblings at least 25 years old) in their primary residence,
8. a student with significant financial need and are offered room and board at substantial savings (you are required to live in the host family's home), or
9. a part-time student enrolled for six or fewer credits.

Requests for off-campus housing are considered and acted upon quarterly. You should secure approval before signing a lease for off-campus housing. Unmarried community students are not to live in "coed" groups.

### Dining

Bon Appétit at PUC Dining Commons provides a selective menu and a variety of services to satisfy the needs and tastes of a cosmopolitan campus community. The college provides a lacto-ovo-vegetarian and vegan menu on the à la carte plan. If you have any special dietary needs, you should visit the General Manager.

If you live in a residence hall, you are expected to take your meals in the PUC Dining Commons & Pacific Café and are charged a minimum fee each quarter. For further information, see the section entitled "Financial Information" in this catalog.

Bon Appétit caters for small-group activities, picnics, and banquets. Small groups and organizations may reserve four auxiliary dining rooms in the Dining Commons (all food is to be prepared by Bon Appétit). Reservations are made at the Bon Appétit office located in the Dining Commons.

## Health Services

The Health Services Department offers evaluation and treatment of a wide variety of illnesses and injuries. The clinic is open Monday through Friday and is located on the lower level of the education building. Nurse office visits are available daily on a walk-in basis; physician office visits are available daily by appointment. A nurse advice line (707-965-6789) is available whenever the clinic is closed, including during weekends and breaks. Visit the Health Services section of the PUC website at [www.puc.edu/healthservices](http://www.puc.edu/healthservices) for more information. The services offered to students at the on-campus clinic are covered by the college's general fee. Any off-campus care will be the financial responsibility of the individual under their own primary insur-

ance plan. Students are strongly encouraged to work with the Health Services Department prior to accessing any care outside the clinic.

### Career and Counseling Center

The Career and Counseling Center is an important resource for personal and academic success. You may schedule appointments for personal and career counseling. Referral service to other professionals in the immediate vicinity is also available through the Center.

The Career and Counseling Center provides the following services:

#### Counseling Services

Professional, confidential support is available on an individual, couple, family or group basis. Counselors want to help you deal with any anxiety, depression, stress, situational difficulties, or other personal problems that might interfere with your academic performance or seriously compromise your quality of life.

#### Testing Services

The Career and Counseling Center is an official non-Saturday test site for college and graduate school admissions. Test application forms, national testing dates and deadlines are available.

Additionally, the center coordinates CLEP and DSST examinations and other institution-based examinations.

#### Career Services

Career testing and personality testing are available through the Career and Counseling Center. Career counseling is also available so that you may explore career options, self-assessment, skills, interests, values, goals, and job-seeking strategies. Additionally, the Center offers assistance in writing résumés, application letters, and developing effective interviewing skills.

#### Internship and Graduate School Exploration

The Career and Counseling Center coordinates on-campus resources for internship and graduate school exploration. Representatives from professional schools, businesses, industries, technological firms, human services, educational organizations, and government agencies visit Pacific Union College to attend campus events and recruit students. Interviews are conducted on campus, usually in the Career and Counseling Center.

### Teaching and Learning Center

The Teaching and Learning Center (TLC) is Pacific Union College's academic support center. The TLC is dedicated to helping you achieve your academic goals and college degree. The Center also provides a variety of services to help you develop your abilities for a successful college experience. These services include free tutoring, academic coaching, and opportunities to develop note-taking skills, study skills, and time management, plus other effective learning strategies. See TLC personnel for accommodations for learning, physical, or psychological disabilities, coordination of student veteran services; and academic advising for undeclared students.

#### Disability Support Services

Pacific Union College complies with the Americans with Disabilities Act (1990) with its updated Amendments Acts (2008), section 504 of the Rehabilitation Act, and applicable state and local regulations regarding students with disabilities.

The college is committed to promoting and achieving equitable learning opportunities and participation for students with documented disabilities. To receive services, students must provide current and appropriate documentation of their qualifying disability. Since accommodations are not retroactive, it is in the student's best interest to submit documentation as soon as possible to the Disabilities Support Services Coordinator (DSSC) at the TLC. The DSSC will arrange accommodations based on the student's documentation and needs. Examples of accommodations are: exam accommodations, downloadable and audible format of books, note-takers, tutoring, accessible housing and other services.

For more information, contact the DSSC or refer to the documentation guidelines and policies online: available through the College's website: <http://www.puc.edu/academics/tlc/disabilities-support-services>.

#### Student Veteran Services

As a Yellow-Ribbon school, Pacific Union College welcomes student veterans as they enter or return to college.

The Veterans Services Coordinator at the Teaching and Learning Center provides college orientation, advocacy, and problem-solving strategies for student veterans' unique needs. If you are a student veteran, you are encouraged to contact the Veterans Services Coordinator so that you may learn about the resources available to you.

Information regarding credit for military training and veterans educational benefits may be found in the sections of this catalog entitled "Academic Information" and "Financial Information".

### Technology Resources

It is your responsibility to be aware of usage policies on campus prior to using the technology resources that are provided by the college. For policies and additional information regarding Information Technology (IT), please refer to the web site located at [www.puc.edu/campus-services/itss/current-students](http://www.puc.edu/campus-services/itss/current-students).

It is prohibited to use these systems for soliciting or advertising for commercial ventures, religious or personal causes, or outside organizations, or other similar nonacademic solicitations.

Any downloading, distributing, copying, or sharing of copyrighted or proprietary material is illegal without the written authorization of the owner of the rights (17USC 204(a)). If you are sharing, downloading, or receiving copyrighted materials such as music, video, television programs, or software without written authorization of the owner of the rights, you must immediately stop in order to avoid legal penalties including fines of thousands of dollars from the RIAA and MPAA. Please note that downloading copyrighted materials is not anonymous and your computer can be identified.

Pacific Union College reserves the right to access and disclose all records of internet usage sent over its system as necessary.

If the college discovers that you are misusing the network, you may be subject to disciplinary action, including, but not limited to, termination of computer privileges.

### Library Services

The W. E. Nelson Memorial Library provides the information resources and technology for the research needs of students and faculty. Library holdings include over 150,000 books and more than 100,000 eBooks, DVDs, CDs, music scores, and other media material. The library subscribes to over 33,000 electronic journals. The library houses the Pitcairn Islands Study Center, one of the world's largest collections of material about the Pitcairn Islands, the Maxwell Collection, the Walter Utt Collection, the Veltman Collection, and several other collections from individuals who have played prominent roles in the Seventh-day Adventist Church and/or Pacific Union College.

### Family Rights and Privacy Act (FERPA)

In maintaining student records, Pacific Union College complies with the Family Educational Rights and Privacy Act of 1974 (FERPA). This act affords students certain rights with respect to their education records. For a full description of these rights, see "Appendix B: Student Rights Under FERPA" in this catalog.

### Grievance Policies and Procedures

The college has developed grievance policies and procedures to ensure that members of its constituent groups are not being treated in an unjust, unethical, or discriminatory manner. Statements detailing these policies and procedures are in the *Student Handbook*.

Pacific Union College will accept your application for admission regardless of your race, age, sex, or national origin so long as your attitude and behavior are in harmony with the goals and traditions of this Seventh-day Adventist college and your abilities and preparation indicate the probability of academic success.

Although church affiliation is not required for admission, you are expected to abide by the policies outlined in this catalog and the *Student Handbook*. To qualify for admission, you must give evidence of intellectual competence, high moral character, satisfactory health, and a genuine desire to learn.

*No student should at any time come to the college for the purpose of registering without having first received a formal notification of acceptance.*

## Academic Preparation

Applicants to Pacific Union College need to be prepared to participate in a rigorous academic program. It is strongly recommended that you complete the following courses as part of your secondary-school education. Students who have not successfully completed these courses during secondary school may be required to take additional courses in college.

- 4 years of English
- 3 years of Mathematics, including Algebra, I, II, & Geometry (or Integrated Math I, II, & III)
- 3 years of Science, including laboratory sciences in the areas of Biology, Chemistry and Physics
- 2 years of History, including U.S. and World History
- 2 years of Foreign Language
- Computer Literacy
- Religion coursework, if offered at your secondary school

## Application Procedures

1. Apply online at [www.puc.edu/admissions](http://www.puc.edu/admissions). There is no fee for online applications.
2. Alternative to applying online:  
Send a completed Pacific Union College Application for Admissions (available from the Admissions Office) along with a \$30 nonrefundable application fee to the Admissions Office.
3. Request that transcripts be sent directly to the Pacific Union College Admissions Office from:
  - a) the academy or high school from which you graduated; and
  - b) all colleges you previously attended.Applicants are responsible for the transfer of transcripts of all high-school and college work attempted. Applicants who matriculate directly from high school must provide official complete high school transcripts or GED exam scores, including the graduation date, before the start of college courses. Anyone who willfully refrains from transferring all scholastic records, or does not give full and truthful information concerning previous attendance at other educational institutions, will not knowingly be accepted or retained as a student. The transcripts become the property of the college and are kept on permanent file. The unweighted cumulative GPA from the graduating high school and each college attended is recorded in the application file.
4. Take the required college entrance examination and be sure that scores are on file in the Admissions Office. Pacific Union College participates in the American College Testing Program (ACT) as an essential element in academic advising. Each first-year and transfer applicant with fewer than 45 quarter credits must provide ACT (or SAT) scores. Applicants who may be accepted on academic probation must submit the required examination scores before they will be reviewed for admission.

## Admission

5. Submit the necessary references:
  - a) All applicants must have one completed reference form or current reference letter sent to the Admissions Office (the form is available online at [www.puc.edu/admissions](http://www.puc.edu/admissions)).
  - b) Bachelor of Science in Nursing students need to provide the references required as part of their application to the nursing program.
6. International applicants must meet the additional requirements detailed in the following sections of this catalog: “Admission of International Students” under ADMISSION and “International Students” under FINANCIAL INFORMATION.
7. Wait for a decision letter. When all pertinent documents are on file (application form, transcripts, and recommendation), the application will be processed and you will promptly be notified in writing of the action taken. Applicants who apply before high school graduation will be evaluated for provisional admission based on unweighted academic GPA after seven semesters of high school. High school applicants with an unweighted academic GPA above 2.75 may qualify for early notification after six semesters of high school are complete.

### Acceptance Follow-Up Procedures

The letter of acceptance outlines further steps necessary before registration:

1. All incoming Pacific Union College students must pay a \$200 enrollment fee before registering for classes or receiving a housing assignment. The fee can be paid online at [www.puc.edu/reserve](http://www.puc.edu/reserve).
2. If you will be a residence hall student, submit the room reservation form online at [www.puc.edu/reserve](http://www.puc.edu/reserve).
3. The college’s Health Services Department is required to have on file basic medical information to meet county requirements. The minimum information necessary is:
  - a) Current personal and family medical history
  - b) Recent physical examination including TB testing
  - c) Childhood immunization recordsForms can be downloaded at [www.puc.edu/healthservices](http://www.puc.edu/healthservices).
4. Submit final high school documents showing graduation date and final GPA.
5. Submit official college transcripts showing all college work attempted or completed.

### Reapplication Procedures

1. If your residence as a student at Pacific Union College has been broken for three or more consecutive quarters, you must follow regular application procedures in order to re-establish student status.
2. If your residence as a student at Pacific Union College has been broken for less than three consecutive quarters, you may contact the Admissions Office to have your original application updated and re-activated.

### Regular Admission Status

You may have regular admission status if you have an acceptable recommendation and qualify in one of the following categories:

1. **Students having secondary-school graduation**  
Demonstrate an unweighted GPA of at least 2.3 (C+) in the following required courses:
  - 4 years of English
  - 2 years of History
  - 2 years of Science
  - 2 years of Math or Integrated Math, including Algebra
2. **Students who have passed the GED**  
2002-2014 Version: Demonstrate a standard score of at least 400 on each of the five tests and an average standard score of at least 500 for all five tests for the Test of General Educational Development (GED).  
2014 Version: Demonstrate a standard score of at least 165 on each of the four tests and an average standard score of at least 177 for all four tests for the Test of General Educational Development (GED).
3. **Students who have passed the CHSPE**  
Demonstrate a passing score on the California High School Proficiency Examination (CHSPE) *and* Demonstrate the following additional requirements:
  - a) Successful completion of at least two years of secondary school.
  - b) A personal interview of applicant and parents by a college admissions officer or a designated representative.
  - c) A letter from the applicant stating the rationale for early entrance into college.
  - d) Recommendation by the faculty of the secondary school last attended, including an evaluation of social and academic readiness for college.
4. **Students who have completed the IGCSE program.**  
Demonstrate completion of the International General

Certificate of Secondary Education (IGCSE), including 5 subjects with exam grades of C or higher and a program diploma.

#### 5. *Home school applicants*

Contact the Admissions Office and discuss the individual situation. Home school applicants should anticipate providing ACT or SAT scores, transcripts, and GED or CHSPE scores.

#### 6. *Transfer students (Less than 45 quarter hours)*

Demonstrate a minimum cumulative college GPA of 2.0 on transferable college work *and*

Demonstrate one of the admissions standards for first-year freshmen as described above (option 1, 2, 3, or 4) *and* Be in good academic standing and have an acceptable citizenship record at your most recent or current college.

#### 7. *Transfer students (Fast Track option)*

Demonstrate a minimum cumulative college GPA of 2.0 on transferable college work *and*

Demonstrate high school graduation *and*

Be in good academic standing and have an acceptable citizenship record at your most recent or current college *and* Demonstrate college readiness by presenting at least a C or better in each of the four following foundation areas:

- College English approved transferrable course.
- History or Social Science approved transferrable course.
- Science Laboratory approved transferrable course.
- Basic Algebra approved proficiency option.

#### 8. *Transfer students (45 or more quarter hours)*

Demonstrate at least 45 quarter hours of transferable college credit with a minimum cumulative college GPA of 2.0 *and*

Be in good academic standing and have an acceptable citizenship record at your most recent or current college.

#### 9. *Reapplicants*

Demonstrate both a minimum college cumulative GPA and a Pacific Union College cumulative GPA of 2.0 *and* Demonstrate an acceptable citizenship record.

## Other Types of Admission

In addition to admission on regular academic standing, there are other types of admission at Pacific Union College.

### Admission by Advanced Enrollment

Advanced Enrollment status is for secondary-school students of superior ability who wish to enroll in some college courses while completing secondary-school graduation requirements. For

admission to this status, you must meet the following criteria:

1. Completion of your sophomore year of secondary-school with an unweighted GPA of at least 3.5.
2. Recommendation from the secondary-school faculty supporting your ability to benefit from early college enrollment and specifying your remaining requirements for graduation and the method of fulfilling them.
3. Written rationale for early entrance into the college program and evidence of superior motivation.

Students in this category are granted special high school admission and must also apply for regular admission, subject to secondary-school graduation.

### Admission of International Students

If you are an international student, you will be considered for admission when you have:

1. met all requirements for regular admission status;
2. provided certified English translations of transcripts;
3. provided the required reference, written in English;
4. met all financial requirements for international students, including the submission of a \$1,000 deposit, as described in the section of this catalog entitled “International Students” under FINANCIAL INFORMATION; and
5. demonstrated ability to pursue studies in the English language by presenting a satisfactory score on one of the following exams:

Score of 80 or higher on the TOEFL (Test of English as a Foreign Language), Internet

Score of 15 or higher on the ACT, English Section

Score of 430 or higher on the SAT, Evidence-Based Reading and Writing Section (or, if taken before March 2016, score of 380 or higher on the Critical Reading Section)

Score of 6.5 or higher on the IELTS (International English Language Testing System), Academic

Score of 59 or higher on the PTE (Pearson Test of English), Academic Version

Score of 76% or higher on the MELAB (Michigan English Language Assessment Battery)

Score of 4.0 or higher on the iTEP (International Test of English Proficiency), Academic Version

When you arrive on campus, you will be required to participate in an in-house placement process to determine your placement in English coursework (ENGL 099, 100, or 101). If you demonstrate a need for additional orientation to the English

## Admission

language and American culture, you also will be required to enroll in ENSL 100: English for Special Purposes.

### Admission on First Quarter Academic Probation

You may be considered for admission on first quarter academic probation status if you have an acceptable recommendation, you have submitted ACT or SAT scores for review, and you qualify in one of the following categories:

1. *Students having secondary-school graduation*

Applicants who demonstrate an unweighted GPA of at least 2.0 but less than 2.3 in the following required courses:

4 years of English

2 years of History

2 years of Science

2 years of Math or Integrated Math, including Algebra

2. *Students who have passed the GED*

2002-2014 Version: Applicants who demonstrate a score of at least 350 on each of the five tests and an average standard score of at least 450 for all five tests for the Test of General Educational Development (GED).

2014 Version: Demonstrate a standard score of at least 165 on each of the four tests and an average standard score of at least 170 for all four tests for the Test of General Educational Development (GED).

3. *Special Action*

Applicants who are granted admission by special action of the Admissions Committee.

If you are admitted on academic probation, you may take up to 15 hours each quarter, including any required remedial courses, until you achieve regular enrollment status. For further information regarding Academic Probation, see the section entitled “Academic Information and Policies” in this catalog.

### Readmission from Academic Suspension or Dismissal

If you previously attended Pacific Union College and you were placed on academic suspension or dismissal, you may apply for readmission after you complete the appropriate amount of transferable coursework at another accredited college of university. You will need to demonstrate a minimum GPA of 2.3 on the most recent coursework as well as a minimum cumulative college GPA of 2.0 (excluding PUC coursework). In order to reapply, you will need to request that official transcripts be sent directly to the Pacific Union College Admissions Office from all institutions that you attended while on suspension or dismissal.

If you are readmitted to Pacific Union College following academic suspension or dismissal, your admission status will be provisional and your academic performance will be evaluated

after each subsequent quarter. Failure to meet the academic requirements outlined at the time of your readmission will result in your dismissal.

For further information regarding academic suspension and dismissal, see the section entitled “Academic Information and Policies” in this catalog.

### Admission as a Non-Degree Student

If you wish to take one or more courses through Pacific Union College without being admitted as a degree-seeking student, you may apply for admission as a non-degree student by completing the “Short Application” (available in the Enrollment Office). It is recommended that you apply at least one month prior to the beginning of the quarter for which you expect to register at Pacific Union College.

If you are accepted as a non-degree student, enrollment in any particular course is subject to the approval of the instructor and to your meeting any course prerequisites. As a non-degree student, you will be required to register through the Records Office and ordinarily will be limited to a maximum of six quarter hours at any one time. Most non-degree students do not qualify for financial aid.

If you are currently on suspension or dismissal from Pacific Union College, you do not qualify to apply for admission as a non-degree student.

There are three standard categories of non-degree students accepted at Pacific Union College:

1. *Guest Student for Transfer Credit:*

A student who has been accepted for study in another college or university and wishes to earn credit at Pacific Union College for transfer.

2. *Special Summer Student*

A student who wishes to attend Pacific Union College but does not meet the requirements for regular admission. Admission on this status is limited to the summer term. After completion of the summer term, the student may apply for regular admission and the summer credit will be included in the calculation of college credit for admissions requirements. Former PUC students on academic suspension from the college are not eligible for this status.

3. *Personal Enrichment*

A student who wishes to take individual courses at Pacific Union College for personal or professional development. Students in this category may take a maximum of six units of credit per quarter. Students who wish to register for additional units must apply and qualify for regular admission.

Changes in academic policies made and announced during the school year have the same force as if they were published in this catalog. Policies may not be waived or amended except by petition to and approval by the Academic Standards and General Education Committee. If you wish to petition for an exception to an academic policy, complete a Special Request form (available at the Records Office), ask the appropriate department chair to endorse your request, and return it to the Records Office.

## Registration and Enrollment

You are expected to register online through Web Advisor (accessible from the college web site) for all your courses during the registration periods as announced in this catalog.

### Financial Clearance

A financial restriction is placed on each student's registration account 30 days prior to the start of each quarter. During this period, students are required to obtain financial clearance from the Student Financial Services Office. For further information, see the section entitled "Financial Information" in this catalog. *If, at the end of the second day of courses, you have not received financial clearance, your registration will be cancelled and your reserved spot in your courses will no longer be guaranteed.* After clearing finances, you may re-register for any available courses until the last day to add courses.

If complications delay your financial clearance until after the last day to add courses, you may submit a petition for "Late Registration due to Financial Reasons" to the Records Office during the second week of the quarter. You must obtain financial clearance and submit your petition no later than the end of the second week of the quarter. *You may not under any conditions continue attending any courses or living in campus housing after the second week of the quarter unless you have received financial clearance.*

### Changes in Registration

To avoid changes in registration, you should plan your program carefully. You may add courses or withdraw from them before the published deadlines. *You are responsible for checking your official schedule to make sure that it is correct.*

### Late Registration

You must complete registration for each quarter by the last day to add courses (Thursday of the first week of instruction).

You may not register for a course after the last day to add courses except by petition to and approval by the Academic Standards and General Education Committee. To petition for late registration for a course, you may complete a Late Add Request form (available at the Records Office). If approved, a late registration fee of \$35 will be charged to your account.

Even if emergency circumstances make it impossible to complete your registration for a particular course as described above, *you may not under any conditions continue attending a course after the fifth week of the quarter unless you are officially enrolled.* No grade is issued or recorded on the transcript, or credit awarded, for any course for which you are not officially enrolled by the midpoint of the course.

### Prerequisites and Corequisites

You must complete all prerequisites prior to taking a course. Exceptions may be made only by the permission of the instructor. Prerequisites are indicated in the course description. Unless otherwise noted, all prerequisites must be completed with a grade of C- or higher.

You must take all required corequisites concurrently with a course. Exceptions may be made only by the permission of the instructor. Corequisites are indicated in the course description.

### Restriction on Lower-Level Courses

You may not take lower-level courses after you have earned credit in a more advanced course in the same area, as identified by the academic department.

# Academic Information and Policies

## Cancellation of Scheduled Courses

The college administration, in consultation with the respective department chair, reserves the right to cancel any course listed in the course schedule if enrollment is four students or fewer or if a qualified instructor is not available because of unavoidable changes in personnel.

## Audited Courses

If you wish to attend a course but do not wish to complete all regular assignments, you may, with the consent of the instructor, register on an audit basis. Applications to change registration from "Audit" to "Credit" or from "Credit" to "Audit" are not approved after the end of the first week of the quarter. Fees for audited courses are charged at half the regular tuition rate, except for private music lessons, ensembles, and other participation-type courses, which are charged at the full tuition rate. On the transcript, audited courses carry the notation "AU." Audited courses do not count for credit and cannot be used to meet graduation requirements.

## Academic Credit

Pacific Union College operates on the quarter system. The standard quarter is 11 weeks in length, with 10 weeks of course sessions and 1 week of final examinations. One quarter credit normally represents one fifty-minute class per week throughout an academic quarter and approximately two hours of preparation for each fifty-minute session. One laboratory period of approximately three hours is considered equal in credit value to one lecture/discussion period and the expected preparation.

## Course Load

The academic course load is described in terms of quarter hours of credit. During the regular academic quarter, course loads are defined as follows:

<i>Enrollment Status</i>	<i>Course Load</i>
Overload Status	More than 17.5 quarter hours
Full Load	12 - 17.5 quarter hours
Three-Quarter Load	9 - 11.9 quarter hours
Half Load	6 - 8.9 quarter hours
Less-than-Half Load	0 - 5.9 quarter hours

To enroll for an overload, you must complete a Request for Overload form (available at the Records Office) and obtain the approval of your academic advisor and the registrar. There is an extra charge for overloads, as described in the section entitled "Financial Information" in this catalog.

If you are on Academic Probation, your maximum course load is reduced to 15 quarter hours.

## Study-Work Program

If you are employed either on or off campus, you are expected to adjust your course load in harmony with the following schedule to achieve a reasonable balance in study and work:

<i>Course Load</i>	<i>Maximum Work Load</i>
16 quarter hours	16 hours per week
14 quarter hours	20 hours per week
12 quarter hours	26 hours per week
10 quarter hours	32 hours per week

If you have a record of average scholastic achievement, you should plan a study-work program involving less than the maximum labor load suggested. It is recommended that you work with your academic advisor to determine an appropriate work load for your individual situation.

## Class Standing

Class standing is calculated based on quarter hours of credit completed as follows:

<i>Class Standing</i>	<i>Credits Completed</i>
Freshman	Fewer than 45 quarter hours
Sophomore	45 - 89.9 quarter hours
Junior	90 - 134.9 quarter hours
Senior	135 or more quarter hours
Graduate	Enrolled in a master's program

## Reserving Courses for Post-Degree or Graduate Credit

If you have taken upper-division courses that were not needed to fulfill graduation requirements, you may reserve specific ones for post-baccalaureate or graduate credit for education by making arrangements with the Education Department and the Records Office.

## Directed Group Study

A course is offered as a Directed Group Study when a department chooses to

1. experiment with a course before it is listed in the catalog, or
2. offer the course, on a one-time basis, for enrichment purposes when sufficient student interest is indicated.

A specific title is assigned when the course is offered. Directed Group Studies are offered under the course number 296 or 496.

## Directed Study

You may take a catalog-listed course on an individual basis only under the most unusual circumstances and at the discretion of the instructor and department chair. Any such course will be offered only for the number of hours listed in the catalog and will adhere to the catalog description and standard course syllabus.

In order to register for a directed study, you must complete and submit a Request for Directed Study form (available at the Records Office). Directed Studies are offered under the course number 297 or 497.

### Independent Study

Independent Study refers to advanced study or research you may do on an individual basis under the direction of a faculty member with regular appointment. You may earn up to twelve hours in Independent Study. Independent Study should not take the place of courses regularly available, and may not be used to meet general-education requirements.

To be eligible for Independent Study in any department, you must have reached junior or senior standing, have met all departmental prerequisites, and have earned a minimum GPA of 3.0 in the proposed area of study. In order to register for an independent study, you must complete and submit a Request for Independent Study form (available at the Records Office). In order to complete the form, you will negotiate a contract with the instructor and the chair of the supervising department specifying the number of hours of credit to be earned, the detailed requirements of the course, the grading criteria, and a schedule of meetings. Independent Studies are offered under the course number 495.

### Midterm Grades

Midterm grades of C- or below are posted on WebAdvisor at the mid-point of each term. These grades are used for advisory purposes and are not included on the official record.

### Withdrawal from Courses

You may withdraw from a course through WebAdvisor any time before the last day to withdraw. On the transcript, withdrawn courses carry the notation “W”. A course from which you withdraw before the last day to delete courses (one week after instruction begins) will not appear on your transcript.

If withdrawal from a course will result in a credit load of less than 12 credit hours, consult with your financial counselor prior to withdrawing in order to determine how your financial package will be affected. International students should not drop below 12 credit hours without consulting with the international student advisor in the Student Services Office.

You may not withdraw from a course after the last day to withdraw except by petition to and approval by the Academic Standards and General Education Committee. To petition for late withdrawal from a course, you may complete a Late Withdraw Request form (available at the Records Office).

### Withdrawal from the College

To withdraw from the college, complete a Notice of Withdrawal form (available at the Records Office). The completed form must be signed by your residence-hall dean, your financial counselor, and the retention coordinator. Withdrawal is official when the form with the signatures has been submitted to the Records Office. The date of official withdrawal from the college will appear on your transcript. *If you choose to withdraw after the eighth week of the quarter, a grade of “F” will be recorded for all courses in which you are registered.*

### Pre-Examination Week

No off-campus field trips, major examinations, or extracurricular activities requiring student participation may be scheduled during the week prior to the first day of final examinations (“dead week”) in order that you may devote full time to completing course projects and preparing for final examinations. Exceptions are made for laboratory courses and for those courses meeting once a week only and for which there is no contact during the normal final exam week. Additional exceptions include take-home exams, skills tests in activity courses, and quizzes.

### Final Examinations

You must take the final examination in each course in which you are enrolled at the time listed in the official examination schedule or you will receive the grade earned without the final examination. All travel, work, medical appointments and other plans must be arranged early to avoid an examination conflict. Exceptions to the schedule will be granted by the academic dean for the following circumstances:

1. A death in the immediate family;
2. A documented medical emergency demanding immediate attention; or
3. An examination schedule with four examinations in one day or three consecutive examinations in one day (a request for an examination schedule change must be filed with the academic dean before the end of the ninth week of the quarter).

*You should expect no other exceptions to the published schedule unless you can provide proof to the academic dean of an emergency situation beyond your control.* If exceptions are granted for other reasons, you will be charged a fee of \$100 for each rescheduled examination.

### Dean's List

When you complete a minimum of 12 college-level credits with a GPA of at least 3.85 during a term at Pacific Union College, you are honored as a member of the Dean's List for that term.

# Academic Information and Policies

## Grading System

Final grades are posted on WebAdvisor at the end of the quarter. Once grades have been posted, grade changes are permitted only if it can be established that a clerical error was made, resulting in an inaccurate grade submission on your official record.

To raise a grade once it has been recorded, you must repeat the course at Pacific Union College. *Late work is not accepted after the end of the term.*

### Grades

Grades are recorded by letters and are assigned point values as follows:

A	4.0	C	2.0	AU	Not computed
A-	3.7	C-	1.7	I	Not computed
B+	3.3	D+	1.3	IP	Not computed
B	3.0	D	1.0	NR	Not computed
B-	2.7	D-	0.7	S	Not computed
C+	2.3	F	0.0	W	Not computed

### Grade Point Average (GPA)

The GPA is computed by dividing the total number of points earned by the total number of hours attempted. Grades earned for remedial coursework are not included in the GPA.

### Audit

The grade “AU” is assigned to a course taken on an audit basis. A course for which you register for audit but do not attend regularly is assigned a “W.”

### Incomplete

A grade of “I” is assigned in exceptional situations when unavoidable circumstances prevent completion of a course and when the “Request for Incomplete Grade” form has been submitted to and approved by the Records Office.

When you are assigned a grade of “I”, you must complete the missing coursework by the time your instructor specifies, but no later than six calendar weeks from the beginning of the following quarter. An “I” not completed before this deadline reverts to the default grade as indicated by the instructor.

When the final grade is recorded, it will appear on your transcript behind the notation “I/” to indicate that the grade was originally incomplete. The grade will be computed in the GPA in the same way as a standard letter grade.

### In Progress

The “IP” grade is available when the requirements of a course extend beyond the quarter for which you are registered.

For such courses, the course description notes that the course “Qualifies for IP grading”. If you are granted a grade of “IP”, you must complete the missing coursework by the time your instructor specifies, but no later than one calendar year from the end of the quarter (one quarter for all AVIA courses).

### Not Reported

The grade “NR” is administratively assigned to a course for which the instructor does not report a grade. An “NR” not removed by the end of the second week of the following quarter becomes an “F.”

### Satisfactory

A grade of “S” signifies that you earned the equivalent of “C-” or higher for a course graded on a Satisfactory/Fail (S/F) basis. The “S” grade is used only when a course is “Graded S/F” as specified in the course description.

### Withdrawal

A grade of “W” is assigned to a course from which you officially withdraw between the beginning of the second week and the end of the eighth week. You may not withdraw from a course after the eighth week.

### Repeating Courses to Improve the Grade

The following regulations govern course repeats to improve the grade:

1. If you wish to repeat a course to improve the grade, *you must repeat the course in residence at Pacific Union College* in order for your GPA to be recomputed.
2. If you take a course at Pacific Union College and then repeat the course in residence in order to improve the grade, *both instances of the course with grades will still appear on your official Pacific Union College transcript.* However, the course with the lower grade will be marked clearly as a repeated course on the transcript, and only the course with the higher grade is included in the grade-point calculation and the total credits earned.
3. If you transfer a course and then repeat the course while in residence to improve the grade, the transfer course will no longer apply at Pacific Union College.
4. You may repeat a course only if you have not taken a more advanced course in the same subject.
5. If you earned an unsatisfactory grade in a course required for your program and you have taken a more advanced course in the same subject, you may, on the advice of your major advisor, take another course in the same general area to meet graduation requirements.

### Repeating Courses for Duplicate Credit

In general, courses may not be repeated for duplicate credit. However, some courses have been determined to be repeatable for credit due to the nature of the material covered. If a course is repeatable for credit, this information will be indicated within the course description, along with any special regulations governing the repeats for the particular course.

## Academic Attendance and Behavior

### Academic Integrity

Academic integrity is highly valued and is expected. Academic dishonesty is an extremely serious offense and is cause for disciplinary action. *Students involved in cheating, plagiarizing, fabrication, multiple submissions, abuse of academic materials, deception, misrepresentation, electronic dishonesty, and other types of academic dishonesty, including production of materials for other students, are ordinarily subject to dismissal from the course with a failing grade.*

Situations involving academic dishonesty are dealt with by the instructor of the course in consultation with the department chair. A record of any verified instance of dishonesty is forwarded to the academic dean and is kept in the student's personal file. Whenever such filing occurs, the student involved is notified. Established appeal and grievance procedures provide the student with the opportunity to respond to the situation. A pattern of serious or habitual dishonesty is dealt with by the academic dean and may result in failing grades or dismissal from the college. (For further details, see "Appendix A" in this catalog.)

### Ownership of Written Work

Written work you present in fulfillment of course requirements becomes the property of the college. The instructor or the college, however, may not publish the written work for any reason without your permission. The original copy is returned to you at the discretion of the instructor. When it is not returned, you have the right to request and be given a copy of work turned in. You should request a copy not later than the end of the quarter following that during which you took the course.

### Use of Classroom Materials

Federal and state privacy and intellectual property laws, including the Copyright Protection Act of 1976, prohibit students or other persons from publishing, publicizing, or selling classroom materials, including lecture notes or audio/visual recordings of lectures, without permission. This would include disseminating such materials over the internet.

Pacific Union College and its faculty reserve the right to take any available legal action under federal and state law against any person publishing, publicizing, or selling such materials without permission. In addition, Pacific Union College and its faculty reserve the right to take any available legal action under federal and state law against any person using such materials in a way that would be highly offensive to a reasonable person and gives a false impression about the college or its employees or constituents.

### Class Attendance

*Class attendance and active participation are essential to your education at PUC.* You are expected to maintain regular attendance and participation at all class sessions of each course in which you are enrolled. Excessive class absences and non-participation interfere with your learning experience as well as diminish the quality of group interaction in class. However, the college recognizes that there may be times when you are unable to attend class due to illness or other good reason. Therefore the following general class attendance policy has been established:

Attendance in courses is expected to begin on the first day of the quarter. If you miss the first session of a course without providing notification to your instructor, even if you are pre-registered, your spot in that course may be given away to another student.

You are expected to inform your instructor in advance if you are going to be absent from a class session. Regardless of the reason for your absence, you are responsible for all material and assignments presented in class and for meeting assignment deadlines. Opportunities to make up course work are provided at the instructor's discretion, and you may not place any undue burden on the instructor. The instructor will make a reasonable effort to accommodate your absence from class if you pre-arrange to be absent due to your participation in an approved college activity (such as a field trip, a varsity athletics event, or a music ensemble performance). Please note that the instructor is not under any obligation to provide opportunities to make up course work due to either late registration or unexcused absences.

Absences that result from short-term suspensions due to violations of the principles outlined in the Student Life Agreement will be treated as unexcused absences, and significant academic penalties may apply as a result of such unexcused absences.

Each instructor has the right to establish a specific attendance policy best suited to a given course and to publish it in the syllabus. You are responsible for reviewing, understanding, and adhering to the published attendance policies for all your

## Academic Information and Policies

courses. If you are absent for more than 20% of a course, your instructor may give you a failing grade for the course or may request that you withdraw from the course if the syllabus contains such a policy. This may apply regardless of the reason for your absences. Depending on the nature of the course, some instructors may necessarily have a more strict policy with regards to attendance. Some instructors may use academically-related activities (such as assignments, group work, quizzes, and examinations) to determine attendance. Your instructor may consider you to be absent from the course if you do not participate in these required activities according to the established course schedule.

The college reserves the right to deal at any time with individual cases of excessive non-attendance.

At the discretion of the instructor, guests may be invited to attend individual class sessions. Otherwise, attendance at Pacific Union College courses is a privilege that is reserved for registered Pacific Union College students. If you wish to attend a course on a regular basis, you are expected to register for the course and pay any associated fees. If you wish to attend a course but do not wish to receive credit, you may request to register on an audit basis. Provided that the instructor approves, the college may grant exceptions to this policy for certain special circumstances (such as community-member participation in music ensembles or professional development opportunities for college-employed professors and tutors).

### Disruptive Academic Behavior Policy

Pacific Union College is committed to creating a positive Christian learning community characterized by respectful discourse and meaningful academic activities. *Consequently, you do not have the right to behave in a manner that disrupts the academic learning environment for other students.*

Disruptive academic behavior is any behavior that a professor determines to impair the academic functions of the course. This can include a variety of behaviors, including (but not limited to):

- Repeatedly distracting others, interrupting others or speaking out of turn
- Monopolizing class discussions or professor attention
- Harassing, threatening or insulting others (verbally or in writing)
- Using inappropriate language, cursing, swearing or vulgarity
- Behaving erratically or irrationally
- Refusing to follow the instructions of the professor

Please note that academic discussions often include multiple perspectives. The civil expression of disagreement with the professor or with other students is permitted and is not, in itself, considered to be disruptive behavior.

If you demonstrate disruptive academic behavior, your professor may request that you engage in a resolution plan. Various individuals are available to help you develop strategies for appropriate academic conduct, including your academic advisor, TLC academic mentors, and Counseling Center professionals. You may not be allowed to return to class until the resolution plan has been developed.

If your disruptive behavior is excessive or if you fail to resolve your disruptive behavior according to plan, your professor may work with the department chair to file a report with the academic dean. The Student Services Office will also receive a copy of the report. In extreme circumstances, the academic dean may decide to administratively withdraw you from the class upon recommendation from your professor and the department chair. Occurrences of disruptive academic behavior in multiple classes may result in further actions by administration.

## Academic Standing

Academic standing is determined at the end of each quarter based on academic performance. When evaluating “consecutive” or “subsequent” quarters to determine academic standing, the quarters to be considered are your most recent quarters at Pacific Union College. This applies whether or not that period of quarters was interrupted for any reason by one or more breaks in enrollment.

*For the purposes of determining academic standing, the GPA is computed including grades earned for remedial coursework.*

Academic standing for a particular term is not retroactively changed if that term GPA is impacted by repeating a course for a better grade in a later term.

### First Quarter Academic Probation

You will be placed on *first quarter academic probation* at the end of any quarter when your GPA for that quarter or your Pacific Union College cumulative GPA falls below 2.0. Occasionally, a new student may be admitted on first quarter academic probation.

While on first quarter academic probation, you may enroll in a maximum of 15 quarter hours of course work. You will not be eligible for any office in student activities or for participation in varsity athletics. You will be required to meet regularly with an assigned Academic Mentor in the Teaching and Learning Center. If you are placed on first quarter academic probation as a freshman, you will be required to register for and successfully complete the student seminar sequence (GNST 104-105).

At the end of the quarter, your academic performance will be evaluated. Your quarter GPA and your Pacific Union College cu-

mulative GPA *each* must be at least 2.0 to achieve regular standing, otherwise you will be placed on second quarter academic probation.

### Second Quarter Academic Probation

You will be placed on *second quarter academic probation* at the end of the second consecutive quarter when either your GPA for that quarter or your Pacific Union College cumulative GPA is below 2.0.

While on second quarter academic probation, you are subject to the same guidelines for students on first quarter academic probation (as described above).

At the end of the quarter, your academic performance will be evaluated. Your quarter GPA and your Pacific Union College cumulative GPA *each* must be at least 2.0 to achieve regular standing, otherwise you will be placed on academic suspension.

### Academic Suspension

You will be placed on *academic suspension* at the end of the third consecutive quarter when either your GPA for that quarter or your Pacific Union College cumulative GPA is below 2.0. *Academic suspension is recorded on the transcript.*

While on academic suspension, you may not continue your studies at Pacific Union College. You may apply for readmission to PUC once you have completed at least 12 quarter hours of transferrable coursework at another accredited college or university and you are able to demonstrate the following:

1. A minimum GPA of at least 2.3 on the most recent 12 quarter hours of coursework.
2. A minimum cumulative college transfer GPA of 2.0

If you are readmitted to Pacific Union College following academic suspension, you will be required to meet regularly with an assigned Academic Mentor and your academic performance will be evaluated after each successive quarter:

If you have a Pacific Union College cumulative GPA below 2.0 upon readmission after suspension, then you must achieve a minimum GPA of 2.3 for each successive quarter until you have completed at least 2 successful quarters *and* your Pacific Union College cumulative GPA has reached 2.0. You will achieve regular standing after at least two quarters have been successfully completed *and* your cumulative GPA has reached 2.0, otherwise you will be placed on Academic Dismissal.

If you have a Pacific Union College cumulative GPA of 2.0 or above upon readmission after suspension, then you must achieve a minimum GPA of 2.0 for each of your next two quarters. You will achieve regular standing after these two quarters have been successfully completed, otherwise you will be placed on Academic Dismissal.

### Academic Dismissal

You will be placed on *academic dismissal* if you are readmitted to Pacific Union College following academic suspension and then fail to earn a satisfactory GPA (as described above) during any subsequent quarter. *Academic dismissal is recorded on the transcript.*

While on academic dismissal, you may not continue your studies at Pacific Union College. You may apply for readmission to PUC once you have completed at least 45 quarter hours of transferrable coursework at another accredited college or university and are able to demonstrate the following:

1. A minimum GPA of at least 2.3 on the most recent 45 quarter hours of coursework.
2. A minimum cumulative college transfer GPA of 2.0

If you are readmitted to Pacific Union College following academic dismissal, you will be required to meet regularly with an assigned Academic Mentor and your academic performance will be evaluated after each subsequent quarter. You must earn a GPA of at least 2.0 each quarter of your enrollment at Pacific Union College, otherwise you will be placed on permanent academic dismissal.

### Permanent Academic Dismissal

You will be placed on *permanent academic dismissal* if you are readmitted to Pacific Union College following academic dismissal and then your GPA falls below 2.0 in any quarter. *Permanent academic dismissal is recorded on the transcript.*

Students on permanent academic dismissal are ineligible for readmission to Pacific Union College.

### Academic Renewal

If you have previous substandard performance at Pacific Union College, academic renewal offers you a one-time opportunity to renew your academic record. When academic renewal is granted, the substandard Pacific Union College terms are disregarded from the GPA and from all considerations associated with degree requirements.

Under academic renewal, your permanent Pacific Union College transcript is annotated so that it is readily evident to all users of the record that no work taken during the disregarded terms, even if satisfactory, may apply toward degree requirements. All work will remain legible on the record, ensuring a true and complete academic history. Academic renewal does not change academic standing.

You may petition for up to three quarters of Pacific Union College coursework to be disregarded when at least one year

## Academic Information and Policies

has elapsed since the most recent work to be disregarded was completed. Alternately, you may petition for up to nine quarters of previous Pacific Union College coursework to be disregarded when at least three years have elapsed since the most recent work to be disregarded was completed.

To petition for academic renewal, you need to demonstrate that the work completed in the selected terms is not representative of your current academic ability and level of performance. The GPA for the terms under consideration should be significantly lower than your GPA for recent terms. Additionally, you must demonstrate your current academic performance through one of the following:

1. at least a 3.0 GPA on the most recent 15 quarter units at Pacific Union College.
2. at least a 3.0 GPA on the most recent 45 quarter units of transferrable coursework at another accredited college or university.

The petition should be submitted to the Records Office. The evaluation of criteria and the final decision regarding academic renewal is made by the registrar and/or the Academic Standards and General Education Committee.

### Transfer Credit

#### Submission of Official Transcripts

Even though you may be accepted based on unofficial transcripts, you should plan to submit official copies of all transcripts for evaluation by the Records Office.

Once you have graduated from secondary school, an official copy of your secondary school transcript should be submitted.

If you attend other institutions of higher education either before or during your time as a Pacific Union College student, you must provide complete official transcripts from each college or university attended. Official transcripts should be submitted within one quarter of completing of the transfer work.

In order for your transcript to be considered official, it must:

1. bear all the indicated authentication features from the issuing institution (i.e. authorized signature, official seal, electronic link for authentication); and
2. come directly from the issuing institution in either a sealed, unopened envelope or via an accepted secure electronic delivery method.

Any transcript that does not meet these criteria will be considered unofficial. Faxed transcripts and unsecured emailed transcripts are always considered unofficial.

Documents (including transcripts) from other institutions which have been presented for admission and evaluation of

credit become the property of the college and are not reissued or copied for release.

#### Evaluation for Transfer Credit and Course Waivers

Pacific Union College reserves the right to accept or reject credit earned at other institutions. The following general regulations are used in evaluating transfer credit:

- *Transfer credit and course waivers are applied only for courses with a grade of C- or higher.*
- 1 semester credit is considered to be equivalent to 1.5 quarter credits.
- A maximum of 18 semester credits per semester or 18 quarter credits per quarter are accepted.
- There is no limit on the number of credits that you may transfer from a recognized junior (two-year) college. However, to earn the baccalaureate degree, you must complete a minimum of 84 credits total (including 60 upper-division credits) through recognized senior (four-year) colleges or universities.
- Upper-division credit is not allowed for junior (two-year) college courses or for courses numbered as lower-division credit at another college.
- You should not expect to receive transfer credit for technical/vocational courses, remedial courses, or courses that are designated by the originating institution as non-transferable.
- You may waive certain course requirements if you present credit in courses substantially equivalent in purpose, scope, context, and credit value to the required course from which you request exemption.
- Certain courses (such as laboratories and speech) require in-person experience and are not accepted if taken online.
- Transfer credit and course waivers are not applied based on unofficial transcripts; official transcripts must be submitted.
- The college reserves the right to require repetition of courses that have become outdated.

Prior to taking courses at other institutions, you should obtain approval from the Records Office at Pacific Union College in order to ensure that the credit will be accepted.

#### Transfer Credit from Regionally-Accredited Institutions

Official transcripts from institutions accredited by regional accrediting associations are evaluated to allow equivalent courses from the transfer institution to satisfy specific course requirements at Pacific Union College. Credit is allowed for college course work completed during high school, provided that it is documented as college-level credit on a transcript from a regionally-accredited institution of higher education.

### Credit from Institutions without Regional Accreditation

If you have transcripts from an institution without regional accreditation, you may request a transcript evaluation after you have completed a minimum of 16 quarter hours in residence at Pacific Union College with a GPA of at least 2.0. The transcript from the unaccredited institution will be analyzed on a course-by-course basis; occasionally credit is established for those courses that appropriately apply to your program at Pacific Union College. *In most instances you will be asked to validate courses taken at an institution without regional accreditation by passing challenge examinations before credit will be granted.*

### Transcripts from International Institutions

If you are seeking to obtain transfer credit based on transcripts from an international institution of higher education, you may be asked to provide an official evaluation through an approved provider. Approved providers include AACRAO's IES, WES, ECE, and IERF. You are responsible for requesting the evaluation and paying any associated costs. Contact the Records Office for additional information.

The College English sequence (ENGL 101-102) can only be fulfilled by equivalent English courses taken at institutions where all instruction is in English.

### Armed Forces Credit

Although “blanket” credit is not awarded for military service, some training courses provided by the armed forces may be the equivalent of college courses. Pacific Union College awards credit for military training in accordance with the American Council on Education's *Guide to the Evaluation of Education Experiences in the Armed Services*.

### Credit by Life-Learning Portfolio Assessment

You may earn up to 18 hours of credit through assessment of documentation provided in a Life-Learning Portfolio. The Academic Standards and General Education Committee administers this program in harmony with established Pacific Union College guidelines and standards. Additional information is available at the Records Office.

## Credit by Examination

### Regulations Governing Credit by Examination

You may earn academic credit by successfully writing certain AP (Advanced Placement), IB (International Baccalaureate), CLEP (College Level Examination Program), DSST (DANTES Subject Standardized Tests), Excelsior, and college-prepared ex-

aminations. The following regulations apply to all credit earned through examinations:

1. No credit by examination is available for remedial courses.
2. The maximum credit applicable to a four-year degree is 45 hours of external examination credit and 18 hours of college-prepared examination credit.
3. The maximum credit applicable to a two-year degree is 24 hours of external examination credit and 9 hours of college-prepared examination credit.
4. Pacific Union College awards credit for selected examinations only. You may get further information at the Records Office regarding which examinations are accepted for credit by Pacific Union College.
5. Credit earned by examination will be placed on your transcript with the credit hours earned and a grade of “S”.
6. You may not earn credit by examination if the course in questions is a prerequisite to one in which you have already earned credit.
7. If you have taken or attempted a course, you may not raise the grade for that course through credit by examination.

### AP and IB Examinations

AP and IB examinations are taken in secondary school after completion of an AP or IB course in a particular subject.

Credit is granted based on a satisfactory scores on examinations. The minimum satisfactory score for AP examinations is a 3. The minimum satisfactory score for IB Higher Level examinations is a 4. No credit is awarded for IB Standard Level Examination.

You will be granted 4 or 8 quarter hours of General Education or elective credit for each passed AP examination. You will be granted 8 quarter hours of General Education or elective credit for each passed IB Higher Level examination. Information regarding exact credit amounts and equivalencies for each test may be obtained from the Records Office.

GE and elective credits granted for AP and IB examinations do not necessarily apply to major requirements. Some professional or graduate schools may not accept AP and IB credit. Check with your advisor to determine the applicability of AP and IB credit to your major or pre-professional program.

### CLEP, DSST, and Excelsior Examinations

CLEP, DSST, and Excelsior examinations are intended as a means of establishing academic credit for persons who, through extensive independent study, specialized training, etc., have gained knowledge equivalent to that gained by regular study in formal college courses. The CLEP, DSST, and Excelsior examinations are open to all classifications of students, but are directed towards freshmen and sophomores.

## Academic Information and Policies

CLEP, DSST, and Excelsior examinations are prepared and administered by outside testing agencies. The Pacific Union College Counseling Center is an official testing site and can provide further information regarding examination procedures. To earn credit for a CLEP, DSST, or Excelsior examination, you must achieve the credit granting score recommended by the American Council on Education.

### College-Prepared Examinations

College-prepared examinations are prepared and administered by Pacific Union College faculty members. A course for which credit may be earned by examination is normally a lower-division course. Its content is such that it can be measured by a written, oral, or manipulative test.

To be eligible for credit by examination, you must demonstrate superior competence, such as a GPA of at least 3.0 in similar courses or work experience sufficient to develop competencies.

No college-prepared examination may be taken until a completed Request for Credit Examination form is on file at the Records Office. The form can be obtained from the Records Office and requires the signatures of the course instructor, the department chair, and the registrar as well as proof of payment for examination fees. For fees, see the section entitled “Financial Information” in this catalog.

To earn credit for a college-prepared examination, you must score a C+ or better on the graded examination. If you have audited a course, you may earn credit by examination for the course by paying one half of regular tuition. Examinations for credit cannot be repeated.

### Waiver Examinations

You may waive certain course requirements by passing a proficiency examination. The examination is administered by the department concerned and approved by the Records Office.

Qualifying for course exemption through waiver examination does not involve the awarding of credit, nor does it reduce the total number of hours to be earned for a degree. Its only effect is to increase the number of elective hours available as part of your degree program. For examination fees, see the section entitled “Financial Information” in this catalog.

### Veteran Student Enrollment and Satisfactory Progress

The veterans certifying official in the Records Office submits official certifications of enrollment to the Veterans Administration so that educational benefits can be awarded.

If you are a veteran or the dependent of a veteran, you must apply for certification by contacting the certifying official at the Records Office. The certifying official will supply the necessary forms and advise you of the procedures you must complete in order to receive the benefits to which you are entitled. It is recommended that you submit your paperwork at least two months prior to the date you expect to enroll.

The Department of Veterans Affairs (VA) determines eligibility for benefits. Monthly payments are made by the VA directly to you or to the school, depending on the type of benefits you are receiving. If the payments for tuition and fees are received by the school, these payments will be placed directly on your student accounts.

To qualify for maximum benefits, you must enroll for a full course load (See “Course Load”). If you enroll for less than a full course load, your benefit payments will be adjusted accordingly by the VA.

According to VA policy, veterans’ educational benefits are discontinued for a veteran (or eligible person) who remains on academic probation for more than three quarters. If you should come into this category, the VA will be notified that your certification has been terminated for “Unsatisfactory Attendance, Conduct, Or Progress”. There will be no further certification for benefits until your academic standing reflects improvement to a cumulative 2.0 GPA.

### Varsity Athletic Academic Policies

In order to support the success of student athletes, the following policies will apply:

1. Any student athlete with two or more F grades at midterm will not be allowed to practice, travel, or compete until the F’s have been removed, as evidenced by an email from each instructor.
2. Any student athlete on Academic Probation will not be allowed to practice, travel, or compete until the student has returned to regular academic standing by demonstrating both a PUC term GPA and a PUC cumulative GPA of at least 2.0. A student athlete who goes onto Academic Probation during the athletic season and wishes to continue playing varsity athletics may appeal this policy by submitting a Special Request to the Academic Standards and General Education Committee.
3. Any student athlete who is not cleared as an NAIA-eligible member of a varsity athletic team may not travel with the team or miss classes to attend home contests.

In order to support the success of new student athletes, the

following policies will apply to a student athlete's first athletic season at PUC:

1. All new student athletes are required to register for and regularly attend GNST 110: Pioneering Success (offered during the fall term).
2. All new freshman student athletes with a high school GPA below 2.75 and all new transfer student athletes with a transfer GPA below 2.75 will be required to meet weekly with an academic mentor provided by the Teaching and Learning Center. The mentor will provide weekly non-attendance reports to the Athletics Department. If a student athlete misses more than one mentoring session, then the athlete will not be allowed to practice, travel, or compete until the mentor reports that regular attendance has been resumed.
3. All new freshman student athletes with a high school GPA below 2.75 and all new transfer student athletes with a transfer GPA below 2.75 may register for a maximum of 14 units during the athletic season (12 core units plus 1 unit of GNST 110 plus 1 unit of ESAC Varsity). All other new student athletes may register for a maximum of 17 units during the athletic season (15 core units plus 1 unit of GNST 110 plus 1 unit of ESAC Varsity).

### Transcripts and Diplomas

*No transcripts or diplomas are issued until all of your financial obligations have been met.* This means that your student account is paid in full, any Perkins or Collegiate loans are in current status, and you completed an exit interview with PUC's Student Loan department. The college reserves the right to withhold all information concerning your record if you are in arrears in payment of accounts or other charges, including student loans.

#### Transcripts

*At your written and signed request,* the Records Office will provide transcripts of your credits. For transcript fees, see the section entitled "Financial Information" in this catalog. You should allow two weeks for processing your request and mailing the transcript.

#### Transfer of Coursework to Other Institutions

Pacific Union College is regionally accredited. However, other institutions reserve the right to accept or reject credit earned at Pacific Union College. Prior to taking courses at Pacific Union College for the purpose of transferring credit to another institu-

tion, you should obtain approval from the other institution in order to ensure that the credit will be accepted.

#### Diplomas

Diplomas for graduates will be mailed approximately one month after:

1. The commencement ceremony has been completed;
2. Final grades have been recorded;
3. Final academic evaluations have been completed; and
4. Financial clearance has been obtained.

One diploma is provided free of charge for each degree earned. If a replacement diploma is requested, a fee of \$25 per diploma is assessed. The phrase "Reissued on *date*" is recorded on the replacement diploma.

### Online Degree Programs

Pacific Union College offers certain baccalaureate degree programs through the online modality. Currently the B.S.N. degree is offered; other programs may be added. While this catalog governs all academic programs at Pacific Union College, online students should also refer to the Online Student Handbook for specialized information: <http://onlinecourses.puc.edu/>.

#### Eligibility Requirements

The online baccalaureate degree programs are designed to deliver the upper-division (i.e. junior and senior year) requirements for a baccalaureate degree. The programs are built on the assumption that admitted students have already completed the majority of lower-division (i.e. freshman and sophomore year) requirements for a baccalaureate degree.

Additionally, the online baccalaureate degree programs are intended for adult and professional students. The curriculum incorporates pedagogical methods that are appropriate for this type of learner.

For these reasons, students applying to the online baccalaureate degree programs are expected to meet the following two eligibility requirements:

1. Demonstrate completion of previous credit through one of the following:
  - a) At least 90 quarter hours (60 semester hours) of transferrable college credit from regionally-accredited institution(s), completed with a grade of C- or higher; or
  - b) Completion of an Associate's Degree at a regionally-accredited institution.
2. Demonstrate eligibility for an adult and professional program through one of the following:

## **Academic Information and Policies**

- a) Be at least 23 years of age;
- b) Have the equivalent of 2 years of full-time, non-student work experience; or
- c) Be eligible for state-recognized RN licensure in California or another state.

### **Term Schedules**

The online terms are 16 weeks in length, and each term is divided into two 8-week sessions. There are three terms per year: Fall (Aug-Dec), Winter (Jan-Apr), and Summer (May-Aug). The academic course load is described in terms of quarter hours of credit and a full course load is 12 credits per term.

Pacific Union College is a Christian liberal arts institution of higher education offering studies and activities designed to promote the harmonious development of each student—spiritually, mentally, socially, and physically.

Through religious services, classroom instruction, and a varied program of social and cultural activities, the college seeks to assist in the development of both character and intellect. A sincere attempt is made to create an environment in which each student may freely arrive at a realistic and satisfying concept of human nature and of humanity's relation to the universe.

Character as a code of moral and spiritual values, and intellect as the tool of reason, are integrated in the learning experience in order to provide a firm base for effective, ongoing contributions to the church and society.

In essence, the college seeks to

- promote the development of a sense of values and a personal philosophy of life as an outgrowth of commitment to the Christian faith;
- stimulate intellectual curiosity essential to the discovery of truth;
- encourage creativity in thought and expression;
- demonstrate that learning is both discipline and pleasure and that meaningful, lasting benefits accrue to those who throughout life continue to experience the satisfaction of learning;
- introduce students to the great body of knowledge by which people understand and relate to their physical and social environments;
- develop certain basic skills and abilities that contribute to satisfactory social and occupational relationships; and
- nurture our learning community by meeting regularly at the Colloquy Speaker Series.

While Pacific Union College is primarily a four-year liberal arts institution, it also offers two-year programs leading to associate degrees, professional four-year degrees, a graduate program in education, and preprofessional programs.

## Degrees and Curricula

### Degrees Offered

- **Associate Degree:**  
Associate of Science (A.S.)
- **Baccalaureate Degrees:**  
Bachelor of Arts (B.A.)  
Bachelor of Science (B.S.)
- **Professional Baccalaureate Degrees:**  
Bachelor of Business Administration (B.B.A.)  
Bachelor of Fine Art (B.F.A.)  
Bachelor of Music (B.Mus.)  
Bachelor of Science in Nursing (B.S.N.)  
Bachelor of Social Work (B.S.W.)
- **Graduate Degrees:**  
Master of Arts in Teaching (M.A.T.)  
Master of Education (M.Ed.)

### Teacher Education Program

Teacher education at Pacific Union College is a two-step, five-year program involving preparation in subject-matter areas and professional education courses required for Seventh-day Adventist and California State teaching credentials. For further information, see the section entitled “Education” in this catalog.

### Preprofessional Curricula

Preprofessional curricula and advising are offered to prepare students for admission to certain types of professional schools. For a list of available curricula, see p. 4 of this catalog.

### Certificate

A TESOL (Teaching English to Speakers of Other Languages) Certificate is available. For further information, see the section entitled “English” in this catalog.

# Degree Requirements and General Education

## Completion of Degree Requirements

*It is the responsibility of each student to satisfy degree requirements.* You are expected to acquaint yourself with the various policies and requirements published in the catalog and, in consultation with your advisor, to plan your course of study accordingly.

### Advisory Services

As a new student, you will work with an enrollment counselor, a departmental advisor, and/or a transfer credit analyst in order to plan your first quarter schedule and complete your initial registration.

Your academic advisor(s) will be assigned based on your declared academic program; assignment occurs directly prior to the start of your first quarter. Thereafter, you should plan to meet with your academic advisor(s) regularly for consultation and support. In April, an advising restriction is placed on each student's registration account. You are required to clear this restriction prior to registration for the next academic year; clearance will be granted by your academic advisor(s) once you have met for a satisfactory advisory session.

In planning your studies, you should carefully follow the degree requirements outlined in this catalog. At any time during your enrollment at Pacific Union College you may run a Degree Audit as a tool to make sure all the degree requirements are being met. Such planning helps to ensure that you meet all graduation requirements in an orderly, logical, and timely sequence.

### Undeclared Students

Students who are not ready to declare a major are assigned to an advisor who will help them structure their course schedules in a way that provides an appropriate foundation for their future major course work. The advisor also assists students in looking at course options that will be helpful in making a decision about the major.

### Teaching Credential Advising

Teacher education at Pacific Union College involves preparation in subject-matter areas as well as professional education courses required for Seventh-day Adventist and California State teaching credentials. Course selection and sequencing is crucial for students pursuing an education credential. If you have chosen a career in teaching, you should consult with the chair of the Education Department as early as possible in your curriculum planning.

### Catalog Requirements

You normally meet the graduation, general education, and major course requirements of the catalog current the year you first enter Pacific Union College. You have the option of qualifying under any catalog in effect during the time you are in continuous residence. You may choose the requirements for your major and for general education from separate qualifying catalogs.

If your residence as a student at Pacific Union College is broken by a period of more than three consecutive quarters (excluding summer quarter), you must meet the requirements of the catalog under which you return to the college, or of a subsequent catalog.

### Degree Candidacy

You should apply for degree candidacy when you begin the academic year during which it will be possible to complete all requirements for graduation. To begin this process, meet with your advisor to review your remaining degree requirements and register for all remaining classes. Once registered, print out a copy of your completed Degree Audit/Program Evaluation from WebAdvisor and have your advisor sign it.

The completed and signed Degree Audit/Program Evaluation should be submitted to the Records Office along with an Application to Graduate and a signed Graduation Contract. The Assistant Registrar will review these documents for completeness and will work with you to resolve any remaining requirements. Upon the satisfactory completion of this process, you will be considered a degree candidate and will be placed on the official graduating list for the academic year.

You should complete the degree candidacy application process before the beginning of winter quarter and you must complete the degree candidacy application process before the beginning of spring quarter of the academic year during which it will be possible to complete all requirements for graduation.

In order to be eligible for participation in spring commencement, you are expected to successfully complete an application for degree candidacy by the first day of spring quarter. Additionally, all transfer coursework and credit by examination must be completed and filed at the Records Office by this date. Any exceptions must be approved through the Records Office in harmony with established guidelines.

### Commencement

At the end of spring quarter, commencement is held for all students who have completed all requirements for a degree. If you complete your requirements during a summer, fall or winter quarter, you are eligible to participate in the following spring commencement.

## Official Degree Conferral Date

The official date of degree conferral appearing on your academic records is that of the last day of the quarter during which you actually completed the degree requirements.

For the 2016-2018 academic years, the official degree conferral dates are as follows:

<i>2016-2017 (Eligible for June 2017 commencement)</i>	
<i>Requirements Completed</i>	<i>Degree Conferred</i>
Summer 2016	August 12, 2016
Fall 2016	December 15, 2016
Winter 2017	March 23, 2017
Spring 2017	June 18, 2017
<i>2017-2018 (Eligible for June 2018 commencement)</i>	
<i>Requirements Completed</i>	<i>Degree Conferred</i>
Summer 2017	August 18, 2017
Fall 2017	December 14, 2017
Winter 2018	March 22, 2018
Spring 2018	June 17, 2018

## Graduation In Absentia

You are expected to participate in the commencement service for which you are eligible unless you notify the Records Office *in advance* that you plan to graduate *in absentia*. You should make written application for exemption not later than one week prior to commencement. A fee of \$25 is assessed if you are absent from graduation without having given prior notice.

## Graduation Recognition for Nurses

All nursing students are expected to participate in the recognition (pinning) service. Requests for exemption may be submitted to the Nursing Department.

## Graduation with Academic Distinction

Undergraduate students who have earned both a Pacific Union College and an overall GPA of 3.5-3.749 will be graduated *cum laude*; those with 3.75-3.899, *magna cum laude*; and those with 3.9-4.0, *summa cum laude*. For the commencement program, preliminary academic distinction is calculated based on all coursework completed up through the winter quarter. However, the official academic distinction which appears on the academic records is calculated based on all work completed for the degree.

## Honors Program Graduation

The Honors Program is a baccalaureate-level program designed to enrich the studies of well-prepared students. Students fulfilling all requirements of the Honors Program will graduate "With Honors," a designation that appears on the graduation program and on the student's transcript and diploma.

## Multiple Degrees

Multiple degrees may be conferred concurrently or subsequently if you have met all the major and general-education requirements for each degree and the requirements for multiple majors.

## The Associate Degree Program

### Graduation Requirements for the Associate Degree

Candidates for associate degrees must satisfy the following requirements:

#### ► *Residence Requirements:*

You must satisfy the following minimum residence requirements on the Angwin campus or in an extension program.

1. 18 of the last 24 quarter hours immediately preceding conferral of your degree.
2. At least 12 hours for the major.
3. For students taking a minor, 6 upper-division hours for the minor.

#### ► *General Requirements:*

You must satisfy the following general requirements to earn the associate degree.

1. A minimum of 90 quarter hours of course work.
2. A minimum resident and cumulative GPA of 2.0 (C). Some departments have additional GPA requirements, as outlined in the departmental listings.
3. Completion of the general education requirement specified for the degree sought.
4. Completion of an associate-degree major according to the specified guidelines.
5. Completion of application for degree candidacy.
6. Completion the assessment requirements. The requirements are incorporated in the major courses for nursing students. All other associate-degree students take GNST 201.

#### ► *The Associate Degree Major:*

The specific requirements for each major are given under the departmental listings, and the following requirements apply to all majors:

1. No course, including required cognates, with a grade below C- may apply toward the major.
2. You must maintain a minimum GPA of 2.0 (C) in the major. Some departments have additional requirements, as outlined in the departmental listings.

You may earn more than one major, provided that you complete all courses and cognates required for both. However, a minimum of 30 quarter hours in the second major must not overlap those in the first.

## Degree Requirements and General Education

### The Baccalaureate Degree Program

Preparation for a career involves both general and specialized education. Courses of study leading to a baccalaureate degree are designed to give a general understanding of the major academic disciplines and to provide for specialization in the field of your major interest.

If you have not yet selected a major, you may pursue a general program of education while exploring several fields of knowledge. One can usually do this without loss of time or credit if the program is carefully planned in consultation with your faculty academic advisor.

#### Graduation Requirements for the Baccalaureate Degree

Candidates for baccalaureate degrees must satisfy the following requirements:

##### ► *Residence Requirements:*

You must satisfy the following minimum residence requirements on the Angwin campus or in an extension program.

1. 36 of the last 48 quarter hours immediately preceding conferral of your degree.
2. 30 quarter hours of upper-division course work.
3. One-half the upper-division hours in your major.
4. For students taking a minor, 6 upper-division hours for the minor.

##### ► *General Requirements:*

You must satisfy the following general requirements to earn the baccalaureate degree.

1. A minimum of:
  - 192 quarter hours of coursework total
  - 60 hours at the upper-division level
  - 84 hours from senior-level (four-year) institutionsWithin the hours required for a baccalaureate degree, most students will find room for elective courses that will also enrich their general preparation.
2. A minimum resident and cumulative GPA of 2.0 (C). Some departments have additional GPA requirements, as outlined in the departmental listings.
3. Completion of the general education requirement specified for the degree sought.
4. Completion of a baccalaureate-degree major according to the specified guidelines.
5. Completion of application for degree candidacy.
6. Completion of GNST 401, Senior Assessment Seminar, including any discipline-specific requirements.

##### ► *The Baccalaureate Degree Major:*

A major consists of a minimum of 45 quarter hours. The specific requirements for each major are given under the departmental listings, and the following requirements apply to all majors:

1. No course, including required cognates, with a grade below C- may apply toward the major.
2. You must maintain a minimum GPA of 2.0 (C) in the major.

Some departments may have additional requirements, as outlined in the departmental listings.

You may earn more than one major or emphasis, provided that you complete all courses and cognates required for both. However, a minimum of 30 quarter hours in the second major or emphasis must not overlap those in the first.

### Minors

You may choose to earn a minor if you earn an associate degree or a baccalaureate degree. However, a minor is not required for graduation.

A minor consists of a minimum of 24-30 quarter hours, including a minimum of 6 upper-division hours completed in residence at PUC. The specific requirements for each minor are given under the departmental listings, and the following requirements apply to all minors:

1. No course, including required cognates, with a grade below C- may apply toward the minor.
2. You must maintain a minimum GPA of 2.0 (C) in the minor.
3. A minimum of 20 hours in the minor must not overlap those in the major.
4. The minor must have a name different from the major.

You should consult with your academic advisor about a minor if you plan to teach, if you desire teaching credentials, or if you anticipate attending a graduate or professional school that requires a concentration in a discipline other than the major.

### The Master Degree Program

Programs leading to a Master of Arts in Teaching and a Master of Education is available. If you are interested in one of these degrees, you should consult the section entitled "Education" in this catalog. Address specific questions to the chair of the Education Department.

## General Education

### Regulations Governing General Education

1. Unless expressly excluded by a statement in the departmental course listings, a general education course in the field of your major may both satisfy the general education requirement and apply toward your major.
2. Credit hours from any given course may be applied to only one area of general education.
3. No course with a grade below D- may apply toward general education.
4. The general-education program contains prerequisite requirements (V.A and VIII) that may be met through the satisfactory completion of certain courses at a regionally-accredited or AAA-accredited secondary institution. Completion of these courses must be demonstrated on an official transcript from your accredited secondary school. If you complete such courses through home school or through an institution without either regional or AAA accreditation, you may elect to validate each course by passing departmental challenge examinations.

### IGETC

The Intersegmental General Education Transfer Curriculum (IGETC) is a series of courses offered in the California community colleges for students who plan to transfer to baccalaureate-level institutions. There are two options: UC and CSU. :

UC Completion of the UC IGETC will satisfy all requirements for areas I, III, IV, and V in the PUC baccalaureate general education package EXCEPT for requirement I.B, Oral Communication. Students who complete the UC IGETC will still be required to meet this requirement.

CSU Completion of the CSU IGETC will satisfy all requirements for areas I, III, IV, and V in the PUC baccalaureate general education package.

Students who complete the IGETC will still be required to meet all requirements for areas II, VI, VII, and VIII in the PUC baccalaureate general education package.

Completion of the IGETC must be certified by a community college counselor and submitted to Pacific Union College with the student's final transcript prior to the first term of enrollment.

### Transfer Students

The main objective of the general education program is not so much to require a prescribed list of courses as it is for students to achieve the *purposes* of general education as stated in each section. The courses listed are those by which Pacific Union College

students achieve the purposes of the program. Acceptable transfer courses for meeting requirements may not in every case be identical, but they must achieve the purposes of each section.

### English Course Placement

English course placement is determined by the score you received on the English subsection of the ACT exam (ACTE) or the verbal subsection of the SAT exam (SATV):

ENGL 099: Students with ACTE scores of 0-14  
Students with SATV scores of 0-370

ENGL 100: Students with ACTE scores of 15-18  
Students with SATV scores of 380-460  
Students who have completed ENGL 099

ENGL 101: Students with ACTE scores of 19-36  
Students with SATV scores of 470-800  
Students who have completed ENGL 100

If you do not submit ACT or SAT scores, you will be placed in ENGL 099 (international students) or ENGL 100 (all other students). This placement may be modified upon receipt of scores or upon completion of a placement test at the English Department. International students may also be placed into ENGL 100 if additional academic support is warranted.

If you are placed into ENGL 099 or ENGL 100, you will be required to take the appropriate English course during the first quarter of your enrollment at Pacific Union College.

### Algebra Course Placement

If you did not complete a full year of either Algebra II or Integrated Math III with semester grades of C- or better at an accredited secondary institution, you will be required to take basic algebra at Pacific Union College in order to meet the algebra proficiency requirement.

Basic algebra is offered as a two-course remedial sequence: MATH 095 + 096: Basic Algebra I + II. If you require remedial algebra, you will be placed into MATH 095. The placement may be adjusted upon completion of a waiver test available at the Mathematics Department.

### Religion Course Placement

Students with two full years of Christian religion courses with semester grades of C- or better at an accredited secondary institution will be placed into RELB 150: Encountering Jesus. Students may also place into RELB 150 by successfully completing the placement exam at the Theology Department.

All other students will be placed into RELT 105: Biblical Foundations. This course is designed to provide a foundation for all other religion courses offered at PUC.

# Degree Requirements and General Education

## The Purpose of General Education at Pacific Union College

The general education program at Pacific Union College seeks to provide students with the **knowledge, values, and skills** they need to live Christ-centered productive lives of integrity and service in a complex world.

- A **knowledge** of human cultures and the natural world;
- Seventh-day Adventist Christian **values, including** integrity, justice, compassion, and wholeness;
- The following **skills**:
  - To communicate effectively in both written and spoken English;
  - To think critically and creatively about information, ideas, and arguments;
  - To locate and use appropriately a broad variety of resources and information; and
  - To learn and work collaboratively.

The purposes of General Education are more specifically defined in each of the subsections.

## General Education Requirements for the Baccalaureate Degree

The general education requirements for the B.A. and B.S. degrees are listed in the following sections numbered I-VIII.

Modified general education requirements for the other baccalaureate degrees can be found in their respective departmental sections as follows:

B.B.A.	Business Administration
B.F.A.	Visual Arts
B.Mus.	Music
B.S.N.	Nursing
B.S.W.	Psychology/Social Work

Additionally, the Honors Program offers an alternative baccalaureate-level general education program for academically motivated students. Students who complete the Honors Program have no other general education requirements. The program is built around a series of “great books,” or core texts, illustrating significant themes in the liberal arts. For additional information, including curriculum requirements, see the section of this catalog entitled “Honors Program”.

## I. Foundations of Learning

Foundations of Learning requirements A, B, and C.1 should be completed by the end of the freshman year and must be completed by the end of the sophomore year.

### A. Written Communication

- ENGL 101+102 College English (4+4)

*Honors Students (Specialized Option)*

- HNRS 111+121 Foundations + Liberty & America (5+5)

*Students who complete the Written Communication requirement will be able to write informative and persuasive essays that are clear and effective, that are supported by credible sources, and that demonstrate ability to think and read critically.*

### B. Oral Communication

- COMM 105 Intro to Communication (3)

*Students who complete the Oral Communication requirement will be able to recognize and demonstrate effective speaking and listening skills in a variety of contexts: interpersonal relationships, small groups, and public presentations (including the appropriate use of relevant technology).*

### C. Quantitative Reasoning

#### 1. Algebra Proficiency

- A full year of either Algebra II or Integrated Math III with semester grades of C- or better at an accredited secondary institution

*or*

Successful completion of an approved waiver exam

*or*

- MATH 095+096 Basic Algebra I+II (4+4)

#### 2. Statistics

- STAT 222 Introduction to Statistics (4)

*Students who complete the Quantitative Reasoning requirement will be able to demonstrate basic algebra skills and reason critically in their use of statistical data.*

## II. Foundations of Faith

- At least 18 hours of religion coursework, distributed as follows:

- Complete sections A, B, C, D, E, and F as outlined below. Please note that no one course can apply in more than one section.
- Include at least 9 hours from RELB and RELT courses.
- Include at least 6 upper-division hours.

When selecting religion electives, please note that certain upper-division religion courses are restricted to students majoring in Religion or Theology. Please also note that RELT 105, RELB 150, and any 200-level religion course must be completed within the first two years of enrollment at Pacific Union College and are prerequisite to all upper-division religion courses.

*Students who complete the Foundations of Faith requirement will be able to explain the historical and salvific meaning of Jesus, explore and critically analyze biblical texts and themes as well as Seventh-day Adventist beliefs and values, and integrate transformative faith perspectives with life in the contemporary world.*

### A. Prerequisite:

- One of the following options:  
Two full years of Christian religion courses with semester grades of C- or better at an accredited secondary institution  
*or*  
Successful completion of an approved waiver exam  
*or*  
RELT 105      Biblical Foundations (3)  
This requirement is a prerequisite to all other religion courses and must be completed within the first two quarters of enrollment at Pacific Union College.

### B. Encountering Jesus:

- RELB 150      Encountering Jesus (3)  
This requirement is a prerequisite to all other religion courses (except RELT 105) and must be completed within the first year of enrollment at Pacific Union College.

### C. Building Scriptural Foundations:

- One of the following courses  
RELB 200      Methods of Bible Study (3)  
RELB 225      Books of Moses (3)  
RELB 230      Psalms and Wisdom Literature (3)  
RELB 240      Letters of the Apostles (3)  
RELB 250      Parables of Jesus (3)  
RELB 265      Kings and Conquest (3)  
RELB 310      Prophets of Israel (3)  
RELB 328      Jesus & the Gospels (3)  
RELB 342      Biblical Books (3)  
RELB 350      Selected Topics (3)  
RELB 460      Paul & His Letters (3)  
RELT 205      Christian Beliefs (3)

*BSN Students (Specialized Option)*

RELB 341      Jesus as Healer (2-3)

### D. Exploring Seventh-day Adventist Life and Thought:

- One of the following courses  
RELB 370      Studies in Daniel (3)  
RELB 371      Studies in Revelation (3)  
RELH 235      Life and Ministry of Ellen White (3)  
RELH 360      Adventist Heritage (4)  
RELP 351      Ministry of Healing (3)  
RELT 220      Seventh-day Adventist Beliefs (3)  
RELT 335      Theology of the Sanctuary (3)  
RELT 336      Curr Issues in Seventh-day Adventism (3)  
RELT 337      Last Day Events (3)  
RELT 338      The Sabbath (3)

### E. Integrating Faith and Life:

- One of the following courses  
RELB 315      Biblical Ethics (3)  
RELP 235      Sharing Your Faith (3)  
RELP 350      Selected Topics (3)  
RELT 216      Introduction to Christian Ethics (3)  
RELT 235      Christian Spirituality (3)  
RELT 240      Eco-theology (3)  
RELT 330      The Christian and the Media (3)  
RELT 350      Special Topics (3)  
RELT 355      Christian Ethics in Society (3)  
RELT 440      Christian Bioethics (3)

*BSN Students (Specialized Option)*

RELP 346      Spiritual Care for Patients (2-3)

RELT 345      Christian Ethics/ Patient Care (2-3)

*Psychology & Social Work Students (Specialized Option)*

PSYC/SOWK 490      Religion, Ethics, & Human Sciences (4)

### F. Electives:

- Take additional hours from RELB, RELH, RELP, and/or RELT courses to meet the total religion requirement.

*Note: Requirement in Religion for Transfer Students:*

As a Seventh-day Adventist Christian institution of higher education, religion coursework is a foundational part of the Pacific Union College curriculum. However, students who transfer from non-Adventist colleges or universities may not have had required religion coursework as part of their curriculum at the previous institutions.

These students may elect to waive a portion of the 18- hour requirement. The number of hours waived will be calculated in proportion to the total number of hours transferred from non-Adventist institutions.

The remaining religion requirement must be completed at *Pacific Union College* as described in the following chart:

## Degree Requirements and General Education

Total Transfer Hours	Religion Requirement at PUC			
	Total Hours	RELB/T Hours	UD Hours	Sections Required
0-31	18	9	6	A,B,C,D,E,F
32-63	15	9	6	A,B,C,D,E
64-95	12	6	3	A,B,C,D
96-127	9	6	0	A,B,C
128+	6	3	0	A,B

### III. History and Social Sciences

#### A. History:

- One of the following sequences:

HIST 101+102 History of World Civilizations (4+4)

HIST 134+135 History of the United States (4+4)

*Students who complete the History requirement will be able to apply the methods of the historian to think critically about historical developments and ideas within a broad cultural context.*

#### B. Social Sciences:

- Two of the following courses; one course from anthropology (ANTH), psychology (PSYC), or sociology (SOC) and a second course with a prefix different from that of the first:

ANTH 124 Cultural Anthropology (4)

ECON 261 Macroeconomics (4)

ECON 265 Microeconomics (4)

GEOG 210 World Regional Geography (3)

HIST 351 History of Culture (3)

MKTG 360 Consumer Behavior (3)

PLSC 124 Introduction to American Government (3)

PLSC 328 Critical World Issues (3)

PSYC 121 General Psychology (4)

PSYC 390 Gender Issues (3)

SOCI 121 Introduction to Sociology (4)

SOCI 214 The Family (4)

SOCI 232 American Social Problems (4)

SOCI 355 "Racial" and Ethnic Relations (3)

*Students who complete the Social Science requirement will be able to employ the methods of the social scientist to think critically about human behavior and interaction, including how humans create and are influenced by social, cultural, economic, and political structures.*

### IV. Arts and Humanities

#### A. Literature:

- ENGL 301 Themes in Literature (4) *Jrs & Srs only*  
*Students who complete the Literature requirement will be able to read literature for pleasure and understanding, and think, read, and write critically about literary texts within a broad cultural context.*

#### B. Visual Arts, Music, Philosophy, Language and Culture:

- B.S. Students: Three of the following courses, each from a different area.
- B.A. Students: Three of the following courses- one from area 1, one from area 2, and one from area 3.

##### 1. Visual Arts:

ARTH 107 History of American Art (3)

ARTH 115 History of Western Art I (4)

ARTH 116 History of Western Art II (4)

ARTH 278 History of Women Artists (3)

##### 2. Music:

MUHL 105 Survey of Music (3)

MUHL 115 Survey of Music for Visual Media (3)

MUHL 205 Listening with Understanding (3)

MUHL 206 Music in Christian Worship (3)

MUHL 245 World Music and Culture (3)

##### 3. Philosophy:

PHIL 101 Introduction to Philosophy (4)

PHIL 390 History and Philosophy of Science (3)

PHIL 451 History of Western Thought (3)

PHIL 485 Issues in Science and Religion (3)

PLSC 274 Introduction to Political Thought (3)

RELT 320 Philosophy of Religion (3)

##### 4. Language & Culture:

An approved college-level language and culture course (Demonstrated language proficiency does not apply)

CHIN 111 Beg Chinese I- Language & Culture (4)

FREN 111 Beg French I- Language & Culture (4)

GRMN 111 Beg German I- Language & Culture (4)

ITAL 111 Beg Italian I- Language & Culture (4)

JAPN 111 Beg Japanese I- Language & Culture (4)

SPAN 111 Beg Spanish I- Language & Culture (4)

*Students who complete the Visual Arts, Music, Philosophy, and Language & Culture requirement will be able to think critically about the development of human knowledge and expression, appreciate the perspectives and contributions of people of other cultures and historical periods, and identify standards of aesthetic value.*

## V. Science and Mathematics

### A. Science:

- Two of the following courses, each from a different area. At least one of the courses must include a laboratory.

#### 1. Physical Science:

ASTR 115	Astronomy (5)
CHEM 101	Introductory Chemistry (4)
CHEM 102	Survey of Organic Chemistry (4)
CHEM 111	General Chemistry (5)
GEOL 233	Geology (4)
PHYS 105	Introduction to Physics (5)
PHYS 111	General Physics (4)
PHYS 211	Physics with Calculus (4)

#### 2. Life and Environmental Science:

BIOL 101	Human Anatomy (5)
BIOL 102	Human Physiology (5)
BIOL 105	Introduction to Biology (5)
BIOL 111	Biological Foundations (5)
BIOL 112	Biological Foundations (5)
BIOL 113	Biological Foundations (5)
BIOL 227	Natural History of California (4)
BIOL 338	Field Biology (3)
CHEM 481	Biochemistry I (4)
ENVR 360	Conservation Biology (3)
ENVR 361	Energy and Climate Change (3)
ENVR 362	Pollution and Environmental Quality (3)
MICR 134	General Microbiology (5)

### B. Applications of Scientific and Mathematical Reasoning:

- One course from one of the following areas.

#### 1. Science Engaging Society:

BIOL 355	Issues on Origins (3)
GSCI 205	Scientific Discoveries (3)
PHYS 390	History and Philosophy of Science (3)
PHYS 485	Issues in Science and Religion (3)

#### *Biology Department Students (Specialized Option)*

BIOL 450	Philosophy of Origins (4)
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#### 2. Mathematical Reasoning

Note: Calculus I is a prerequisite for the following courses.

MATH 132	Calculus II (4)
MATH 265	Elementary Linear Algebra (4)
MATH 275	Logic and Sets (4)
MATH 451	History of Mathematics (4)

*Students who complete the Science and Mathematics requirement will be able to demonstrate knowledge of basic*

*science, to explain various methods of scientific inquiry, and to reason critically about the applications of scientific information.*

## VI. Health and Fitness

### A. Health:

- One course from the following:

FDNT 235	Nutrition (3)
HLED 162	Fitness for Life (2)
HLED 166	Health Education (2)
HLED 169	Current Health Concerns (2)

### B. Fitness:

- One exercise science activity (ESAC) course for each year in residence, with a maximum of four courses. One must be a course designated as an aerobic activity course (course number ends with A).

#### *Education Credential Students (Specialized Option)*

ESTH 476 PE for Children (3) applies as 1 ESAC course

#### **Note:** Requirement in Fitness for Transfer Students:

Students who transfer must complete the following minimum requirement in fitness:

Transfer Hours	ESAC Courses Requirement
0-44	4 courses, including 1 aerobic course
45-89	3 courses, including 1 aerobic course
90-134	2 courses, including 1 aerobic course
135+	1 aerobic course

*Students who complete the Health and Fitness requirement will be able to demonstrate the knowledge, skills, and inclination necessary to sustain a healthy, well-balanced life.*

## VII. Practical and Applied Arts

- At least 4 hours, to be selected from two or more of the following subsections:

### A. Information Management:

INFS 147	Word Processing (1)
INFS 148	Spreadsheets (1)

#### *Education Credential Students (Specialized Option)*

EDUC 332/L Teaching with Technology + Lab (3)

### B. Interpersonal Skills:

COMM 223	Interpersonal Communication (3)
COMM 226	Public Speaking (3)

## Degree Requirements and General Education

PSYC 126	Assertive Behavior (2)
PSYC 227	Conflict Resolution & Rel Skills (3)

### C. Management of Personal Finance:

ACCT 121	Financial Accounting I (3)
BUAD 118	Personal Money Management (3)
BUAD 223	Personal Law (2)
MGMT 160	Small Business Management (3)

### D. Outdoor and Survival Skills:

AGRI 212	Home Greenhouse Gardening (2)
AGRI 213	Home Vegetable Gardening (2)
AVIA 101	Introduction to Flight (1)
EMER 180	Fundamentals of Technical Rescue (3)
EMER 280	Technical Rescue and Survival (3)
ESTH 365	Outdoor Experience (3)

### E. Visual and Performing Arts:

ARTF 100W*	Acrylic Painting Workshop (2)
ARTF 101W*	Watercolor Painting Workshop (2)
ARTF 102W*	Oil Painting Workshop (2)
ARTF 121	Drawing Fundamentals (2)
ARTF 212	Ceramics I (2)
ARTP 100W*	Digital Photography Workshop (2)
ARTP 150	Black & White Photography (3)
ARTP 250	Digital Photography I (3)
DRMA 229	Acting I: Fundamentals (3)
DRMA 232	Movement (2)
DRMA 241	Production Credit (1)
MUEN (Any)	Music Ensembles (1)
MUSP 120-124	Music Lessons (class instruction) (1)
MUSP 320-324	Music Lessons (class instruction) (1)
MUSP 162, 362	Music Lessons (general) (1-2)

*Students who complete the Practical and Applied Arts requirement will be able to demonstrate practical skills in two separate areas.*

## VIII. Foreign Language (B.A.)

This section is required of all B.A. students and is recommended for students in other curricula.

### A. Prerequisite:

#### ► One of the following options:

- Two full years of a foreign language with semester grades of C- or better at an accredited secondary institution  
*or*
- Satisfactory completion of an elementary-level college sequence in a foreign language such as one of the following:  
FREN 111+112+113 Beginning French (4+4+4)  
GRMN 111+112+113 Beginning German (4+4+4)  
ITAL 111+112+113 Beginning Italian (4+4+4)  
RELL 211+212+213 Beginning Greek (3+3+3)  
RELL 427+428/ Biblical Hebrew I+II/  
RELB 445 Hebrew Exegesis (3+3+3)  
SPAN 111+112+113 Beginning Spanish (4+4+4)

### B. Requirement\*:

#### ► A language-cultural experience in a foreign language through one of the following options:

- An intermediate-level college sequence in a foreign language such as one of the following:  
RELL 311+312/ Intermediate Greek I+II/  
RELB 335 Greek Exegesis (3+3+3)  
SPAN 132+133 Intensive Interm. Spanish (5+5)  
SPAN 151+152+153 Intermediate Spanish (4+4+4)  
*or*
- An elementary-level college sequence in a foreign language not previously studied.

*Students who complete the Foreign Language requirement will be able to read and communicate at the intermediate level in a foreign language or at the beginning level in two foreign languages. They also will be able to appreciate and think critically about another culture.*

\* This requirement may be waived (with no college credit) based on one of the following:

- Documented completion of at least four years of formal schooling conducted in a foreign language (in a country where that language is the native tongue) with a C average or better.
- Documented rating of Intermediate-Mid or higher for an ACTFL Oral Proficiency Interview in a foreign language.  
Contact the Records Office for information on these options.

\* These workshop courses are offered at the Albion Field Station during the summer term.

## General Education Requirements for the Associate of Science Degree

The general education requirements for the A.S. degree are listed below. Modified general education requirements for the A.S. in Nursing can be found in the section entitled “Nursing”.

- I. College Writing\*
  - ENGL 101      College English (4)
- II. Oral Communication
  - COMM 105      Intro to Communication (3)
- III. Algebra\*
  - A full year of either Algebra II or Integrated Math III with semester grades of C- or better at an accredited secondary institution  
     *or*  
 Successful completion of an approved waiver exam  
     *or*  
 MATH 095+096    Basic Algebra I+II (4+4)
- IV. Religion
  - At least 9 hours of religion coursework. These 9 hours must include:
    - Completion of sections A, B, C, and D listed below.
    - At least 6 hours from RELB and/or RELT courses.
  - A. Prerequisite:
    - One of the following options:  
 Two full years of Christian religion courses with semester grades of C- or better at an accredited secondary institution  
     *or*  
 Successful completion of a waiver exam administered by the Theology Department  
     *or*  
 RELT 105      Biblical Foundations (3)
 This requirement is a prerequisite to all other religion courses and must be completed within the first two quarters of enrollment at Pacific Union College.
  - B. Encountering Jesus:
    - RELB 150      Encountering Jesus (3)
 This requirement is a prerequisite to all other religion courses (except RELT 105) and must be completed within the first year of enrollment at Pacific Union College.

- C. Understanding Christian Faith and Foundations:
  - Take an elective course from RELB, RELH, RELP, or RELT. It is recommended that the course be selected from the options listed under sections C or E of the baccalaureate religion GE requirement. (Note- students required to take RELT 105 to meet section A above may apply the course to this requirement.)

- D. Exploring Seventh-day Adventist Life and Thought:
  - Take one course from the options listed under section D of the baccalaureate religion GE requirement.

*Note: Requirement in Religion for Transfer Students:* Students who transfer from non-Adventist colleges or universities may elect to waive a portion of the religion requirement (see baccalaureate GE section for further explanation).

The remaining religion requirement must be completed at Pacific Union College as described in the following chart:

Total Transfer Hours	Religion Requirement at PUC		
	Total Hours	RELB/T Hours	Sections Required
0-31	9	6	A,B,C,D
32-63	6	3	A,B,C
64+	3	3	A,B*

*\*This student will be required to take only one course from either section A or B, depending on placement.*

- V. Health
  - One course from the following:
    - FDNT 235      Nutrition (3)
    - HLED 162      Fitness for Life (2)
    - HLED 166      Health Education (2)
    - HLED 169      Current Health Concerns (2)
- VI. Fitness:
  - Two exercise science activity (ESAC) courses. One must be a course designated as an aerobic activity course (course number ends with A).
- VII. Electives
  - Two courses selected from at least two of the following areas (from courses that meet baccalaureate degree general education requirements- see the previous pages):
    - A. History/Social Sciences
    - B. Literature/Visual Arts/Music/Philosophy/Language
    - C. Science/Mathematics/Statistics

\* See course placement guidelines listed previously.

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## Prefix 1

The three- or four-letter prefix to each course number indicates the subject area. An index of course prefixes may be found on the following two pages.

## Numbering and Classification 2 of Courses

Courses are numbered as follows:

### 001-099 Remedial Courses

For students with inadequate academic skills. Credit earned through remedial courses may not apply towards any degree or towards the GPA.

### 100-299 Lower-division Courses

Normally taken by freshmen and sophomores.

### 300-499 Upper-division Courses

Normally taken by juniors and seniors. Freshmen may register for these courses only with special permission of the registrar and with the approval of the academic advisor and the course instructor.

### 500-599 Graduate Courses

Primarily for graduate students. With the approval of the major professor, a senior whose preparation is adequate may take graduate courses for undergraduate credit.

## Credit Hours 3

One quarter hour of credit generally represents a minimum of thirty hours of work on the part of the student, or three hours of work per week throughout the standard ten-week quarter.

A lecture course will include approximately one hour of class and two hours of out-of-class work per week per credit. An activity course (laboratory, exercise science activity, etc) will include two to three hours of activity per week per credit, with out-of-class work assigned as needed. Other types of courses will be arranged as needed to involve the appropriate amount of student work.

A course offered in a term of a different length will contain the same contact hours and out-of-class student work as the same course offered during a standard academic quarter.

## Quarter System 4

Quarters are designated as Fall **F**; Winter, **W**; Spring, **S**; and Summer, **Su**. Every effort is made to accurately reflect the quarter(s) in which a course will be offered. However, the college reserves the right to adjust course scheduling as necessary.

Some courses are **Arranged** rather than being taught on a regular cycle.

## Special Information 5

Any special information for a course is designated at the end of the course description as follows:

1. Laboratories- Three hours in length unless specified otherwise.
2. Prerequisites\*
3. Corequisites\*
4. Repeatability for Credit\*
5. Special Grading\*
6. Alternate Year Courses- Odd/even designation based on the end of the academic year.

Odd year 2016-2017

Even year 2017-2018

Every effort is made to accurately reflect the year(s) in which a course will be offered. However, the college reserves the right to adjust course scheduling as necessary.

\* See the section entitled "Academic Information and Policies" for more information.

Education		3	4
<b>1</b>	<b>Education</b>		
<b>2</b>	<b>Lower-Division Courses:</b>		
	<b>EDUC 101</b> <b>1 F, W, S</b> <b>Introduction to Teaching</b> An overview of the teaching profession. Includes certification requirements, the history of education, teaching as a profession, and the characteristics of successful teachers. The program admission process begins in this class. Corequisite: EDUC 101L.		
	<b>EDUC 101L</b> <b>1 F, W, S</b> <b>Classroom Observations</b> A 25-hour field experience that provides practical information about classroom teaching for the student who is entering the teaching profession. Involves extensive observation of teachers both in the classroom and on video. Must be completed before a student may be admitted to the credential program. Students who wish to apply credit for this course toward the requirements for a teaching credential must earn a grade of B- or better. This requirement may be waived on experience. Contact the credential analyst for more information. Corequisite: EDUC 101.		
	<b>EDUC 332</b> <b>2 W, S, Su</b> <b>Teaching with Technology</b> Excellent teaching has as much to do with empowering students to learn as it does with knowing how to teach. This course explores the ranges of educational technology and methods for improving student understanding through its use with all learners. This instructional class is supplemented by an experiential lab. Applies to area VII.A of the general education requirement. Prerequisite: EDUC 101, 101L or ECED 181. Corequisite: EDUC 332L. Odd summers.		
	<b>EDUC 332L</b> <b>1 W, S, Su</b> <b>Teaching with Technology Laboratory</b> Supplemental lab that complements the material in EDUC 332. Prerequisite: EDUC 101, 101L or ECED 181. Corequisite: EDUC 332. Odd summers.		
	<b>EDUC 333</b> <b>3 S, Su</b> <b>Educational Psychology</b> Exploration of how children and adolescents learn and think in the classroom. Examines how characteristics such as intelligence, personality, cognitive and moral development, and diversity impact student learning. Includes the study of learning theories, motivation, cooperative learning, assessment, and managing a classroom. Odd summers.		
	<b>EDUC 335</b> <b>2 F</b> <b>Moral Dimensions of Teaching and Learning</b> Ethical and moral situations that teachers and students face. Examines the history and development of current practice. Emphasizes ideals and principles of Christian education and their application in Seventh-day Adventist schools. Compares and contrasts the philosophy of American and Adventist education. Emphasis on integrating faith and learning.		
	<b>EDUC 336</b> <b>3 W</b> <b>The Multicultural Classroom</b> Preparation of candidates for the wide diversity of students they will encounter in the classroom. Includes an emphasis on developing methods for involving the family in the educational process. Addresses the legal basis for desegregation and multiculturalism in American Education. Emphasizes the knowledge and skills needed to help students be better informed and proactive in a multicultural society.		
	<b>EDUC 339</b> <b>2 F</b> <b>ELL Pedagogy</b> Strategies for assessing and teaching K-12 English Language Learners (ELLs), concentrating on techniques used by classroom teachers that foster development of listening, speaking, pronunciation, grammar, reading, writing, and vocabulary in a variety of content areas. Prerequisite: EDUC 101, 101L.		
	<b>EDUC 340</b> <b>3 W, Su</b> <b>Exceptional Children in the Classroom</b> Major categories of disabilities and giftedness and strategies to meet the needs of these children in the general classroom. Information about federal and state laws pertaining to disabilities and how to write and implement an IEP. Prerequisite: EDUC 101, 101L or ECED 181. Even summers.		
	<b>EDUC 345</b> <b>4 F</b> <b>Teaching Math and Science in the Elementary School</b> Prepares pre-service elementary teachers in science, health, and mathematics instruction through interrelated activities in classroom and fieldwork. Emphasis on California state content standards in science, health, and mathematics; planning and implementing effective lessons for each area. Prerequisites: Credential program admission. Corequisites: EDUC 491, 493 (45L).		
	<b>5</b>		

## Course Information

### Prefix

The three- or four-letter prefix to each course number indicates the department or subject area as follows:

<b>Prefix</b>	<b>Subject</b>	<b>Department</b>	<b>Page</b>
ACCT	Accounting	Business Administration & Economics .....	64
AGRI	Agriculture	Biology .....	55
ANTH	Anthropology	Psychology & Social Work .....	162
ARTD	Graphic Design	Visual Arts .....	184
ARTF	Fine Art	Visual Arts .....	186
ARTH	History of Art	Visual Arts .....	188
ARTP	Photography	Visual Arts .....	189
ASTR	Astronomy	Physics & Engineering .....	155
AVIA	Aviation	Aviation .....	50
BIOL	Biology	Biology .....	55
BUAD	Business Administration	Business Administration & Economics .....	64
CHEM	Chemistry	Chemistry .....	71
CHIN	Chinese	World Languages & Cultures .....	199
COMM	Communication	Communication .....	76
DRMA	Dramatic Arts	English .....	101
ECED	Early Childhood Education	Education .....	88
ECON	Economics	Business Administration & Economics .....	65
EDUC	Education	Education .....	90
EMER	Emergency Services	Nursing & Health Sciences .....	147
ENGL	English	English .....	101
ENGR	Engineering	Physics & Engineering .....	155
ENSL	English as a Second Language	English .....	103
ENVR	Environmental Studies	Biology .....	57
ESAC	Physical Education Activity	Exercise Science .....	107
ESTH	Physical Education Theory	Exercise Science .....	109
FDNT	Foods and Nutrition	Nursing & Health Sciences .....	148
FIN	Finance	Business Administration & Economics .....	66
FREN	French	World Languages & Cultures .....	199
GEOG	Geography	History .....	115
GEOL	Geology	Biology .....	58
GNRL	General	Non-departmental Courses .....	48
GNST	General Studies	Academic Administration .....	48
GRMN	German	World Languages & Cultures .....	199
GSCI	General Science	Biology .....	58
HIST	History	History .....	115
HLED	Health Education	Exercise Science .....	111
HLTH	Health Sciences	Nursing & Health Sciences .....	148
HNRS	Honors	Honors Program .....	121
INFS	Information Systems	Business Administration & Economics .....	66
ITAL	Italian	World Languages & Cultures .....	199
JAPN	Japanese	World Languages & Cultures .....	199
JOUR	Journalism	Communication .....	77
LANG	Language & Culture Studies	World Languages & Cultures .....	199
MATH	Mathematics	Mathematics .....	125
MDIA	Film & Television Production	Visual Arts .....	191

<b>Prefix</b>	<b>Subject</b>	<b>Department</b>	<b>Page</b>
MGMT	Management	Business Administration & Economics .....	67
MICR	Microbiology	Biology .....	58
MKTG	Marketing	Business Administration & Economics .....	68
MUED	Music Education	Music .....	132
MUEN	Music Ensemble	Music .....	133
MUHL	Music History and Literature	Music .....	134
MUSP	Music Performance	Music .....	135
MUTH	Music Composition and Theory	Music .....	136
NURS	Nursing	Nursing & Health Sciences .....	148
PHIL	Philosophical Studies	Theology .....	171
PHYS	Physics	Physics & Engineering .....	155
PLSC	Political Science	History .....	118
PREL	Public Relations	Communication .....	78
PSYC	Psychology	Psychology & Social Work .....	162
RELB	Religion, Biblical Studies	Theology .....	171
RELH	Religion, Historical Studies	Theology .....	172
RELL	Religion, Biblical Languages	Theology .....	173
RELP	Religion, Applied Theology	Theology .....	173
RELT	Religion, Theological Studies	Theology .....	174
SOCI	Sociology	Psychology & Social Work .....	164
SOWK	Social Work	Psychology & Social Work .....	164
SPAN	Spanish	World Languages & Cultures .....	200
SPPA	Speech Pathology and Audiology	Communication .....	78
STAT	Statistics	Mathematics .....	127
WRIT	Writing	English .....	103

# General Courses

## General Courses

(*Nondepartmental Courses*)

LOWER-DIVISION COURSES:

### **GNRL 100** .1 F, W, S **Colloquy Speaker Series**

A regular gathering of the Pacific Union College community. Students, faculty, and staff meet to worship, learn and exchange ideas and information. Required for all undergraduate students each quarter (unless specially exempted). To pass, a student must attend a minimum of five meetings each quarter. Repeatable for credit. Graded S/F.

### **GNRL 104** 1 Su **Young Scholars Program**

A week-long program of course work, projects, and investigations in science, mathematics, humanities and the arts. Prerequisite: Admission to the Pacific-Quest summer program for talented and gifted students. Repeatable for credit. Graded S/F.

### **GNRL 204** 2 S **Introduction to Dentistry**

Dental anatomy, morphology, and related aspects of dentistry as a career. One lecture and one laboratory per week.

UPPER-DIVISION COURSE:

### **GNRL 350** 6 F, S **Field Experience**

Enrollment limited to students in the Pacific Union College Student Missionary and Task Force programs. Registration for the course must be completed before the experience begins and is limited to students who have previously taken courses at Pacific Union College. Consists of academic work that is done in connection with the service appointment, including a weekly journal, a reflective paper,

and a public presentation. Registration qualifies students to maintain part-time enrollment status at the college during the fall and spring quarters. Further information is available at the Campus Ministries Office or from the registrar. Repeatable to a maximum of 12 credits. Qualifies for IP grading. Graded S/F.

## General Studies

LOWER-DIVISION COURSES:

### **GNST 104+105** 2+1 F, W, S **Student Seminar I, II**

GNST 104 examines the college learning process in academic areas and encourages skill development in strengths exploration, goal setting, learning styles, note taking and test-taking strategies. These and other topics related to learning and retaining college material are explored.

GNST 105 is designed to immediately follow GNST 104. Academic progress is tracked on a weekly, one-on-one basis, although one or more group sessions and tutorials may be required.

Registration for and successful completion of the sequence is required for freshmen who are admitted to Pacific Union College on academic probation and for current freshmen as soon as they are placed on academic probation.

### **GNST 110** 1 F **Pioneering Success**

Introduction to Pacific Union College's academic campus culture and key campus resources. Focuses on helping students learn how to navigate college requirements while balancing the demands of being a student athlete. Also includes information regarding athletic program eligibility requirements. Registration for and successful completion of the course is required for all new members of the Pioneers Athletics program.

### **GNST 201** 0.1 F, W, S **Assessment Seminar**

Designed for students graduating with an associate degree. Assesses student learning outcomes in general education and in the field of study so that the college may determine how well it is reaching its educational goals. May include a major field examination, other standardized examinations, an exit interview and various Pacific Union College-developed tests and surveys. Required for, and restricted to, students during their final quarter of residency for the A.S. program. Qualifies for IP grading.

UPPER-DIVISION COURSE:

### **GNST 401** 1 F, W, S **Senior Assessment Seminar**

Designed for baccalaureate seniors only. Assesses student learning outcomes in general education and in the field of study so that the college may determine how well it is reaching its educational goals. May include a major field examination, other standardized examinations, an exit interview and various Pacific Union College-developed tests and surveys. Required for, and restricted to, students during their final quarter of residency for the B.A., B.S., B.B.A., B.Mus., and B.S.W. programs. Qualifies for IP grading.



## Faculty

Kaye Varney, director

Departmental Office: Flight Center; 965-6219

## Degrees and Programs

Aviation, B.S. ....	49
Aviation, A.S. ....	50
Aviation, Minor .....	50

The *Aviation Program* prepares students for positions as private and commercial pilots, mission and medical pilots, and others. Training includes theory, ground and flight instruction leading to pilot certificates and ratings from Private Pilot through Commercial Pilot and Flight Instructor.

Students transferring into the aviation program with previously earned FAA certificates or ratings should apply to the Aviation Program director for course credit *at the time of initial registration*. Course credit for FAA certificates or ratings earned earlier at other locations is not available and will not be awarded after the student has begun aviation courses at Pacific Union College. A copy of FAA certificates must be presented to the departmental representative at the Flight Center. Grades issued in recognition of FAA certificate validations are recorded as “S” (Satisfactory). For complete aviation policies and procedures, consult the *Flight Policies and Procedures Handbook*, available at the Flight Center. For financial information about flight training, see the section entitled “Financial Information” in this catalog.

### Additional Fees:

Aviation students should expect and plan for approximately \$10,000 per year in airplane rental fees. They are advised to identify themselves to the Student Financial Services Office as aviation students to explore the possibility of financial assistance with this expense.

## Major in Aviation, B.S.

A minimum of 68 hours (33 upper-division hours)

### ► Required Core Courses (60 hours):

AVIA 141	Applied Electronics	3
AVIA 172	Electronics and Fuel Systems	2
AVIA 173	Meteorology	3
AVIA 175	Private Pilot Theory	4
AVIA 176	Private Flight Training	2
AVIA 177	Intermediate Private Flight Training	2
AVIA 178	Advanced Private Flight Training	2
AVIA 275	Instrument Pilot Theory	4
AVIA 276	Instrument Flight Training	3
AVIA 278	Advanced Instrument Flight Training	4
AVIA 305	Aircraft Systems	4
AVIA 375	Commercial and CFI Theory	4
AVIA 376	Commercial Flight Training	2
AVIA 377	Intermediate Commercial Flight Training	2
AVIA 378	Advanced Commercial Flight Training	2
AVIA 379	Aerodynamics	2
AVIA 460	Professional Skills for Pilots	2
AVIA 468	Beginning Flight Instructor Flight Training	3
AVIA 469	Advanced Flight Instructor Flight Training	3
AVIA 470	Fundamentals of Flight Instruction	1
AVIA 476	Add-on Class Rating	2
AVIA 477	Human Factors in Aviation	2
AVIA 478	Add-on CFI Rating	2

### ► Required Core Electives (8 hours):

At least 8 hours from the following:		8
AVIA 273	Practicum in Flight (1-6)	
AVIA 350	Mission Flying Theory and Practice (2)	
AVIA 450	Advanced Aircraft Systems (2)	
AVIA 472	Instrument Instructor Flight Training (3)	
AVIA 473	Advanced Practicum in Flight (1-6)	

### Recommended Minor:

A minor in Business Administration is recommended.

# Aviation

## Recommended Courses:

For students with a given interest, the following courses are recommended:

### Mission Aviation:

ANTH 124, AVIA 350, COMM 330, EMER 101, PREL 337, RELH 311, RELP 235, 319, SOWK 121

### Commercial Aviation:

AVIA 450, COMM 223, 330, ECON 261, 332, MGMT 261, 361, 465

## Recommended Field Experience:

It is recommended that all students majoring in Aviation should have completed, by the end of winter quarter of their senior year, 500 hours of flight time.

The objective of this program is to prepare graduates for such positions in the aviation industry as the following: mission pilots, company pilots, medical evacuation, teaching positions, pipeline patrol, border patrol, police, pilot training, forestry, fishing industry, air taxi operator, accident investigation, FAA specialist, major airline pilot, commuter airline pilot, cargo operations (FEDEX, UPS), fixed-base operator, traffic controller, and airport manager.

## Major in Aviation, A.S.

A minimum of 42 hours

### ► Required Core Courses (42 hours):

AVIA 172	Electronics and Fuel Systems	2
AVIA 173	Meteorology	3

AVIA 175	Private Pilot Theory	4
AVIA 176	Private Flight Training	2
AVIA 177	Intermediate Private Flight Training	2
AVIA 178	Advanced Private Flight Training	2
AVIA 275	Instrument Pilot Theory	4
AVIA 276	Instrument Flight Training	3
AVIA 278	Advanced Instrument Flight Training	4
AVIA 305	Aircraft Systems	4
AVIA 376	Commercial Flight Training	2
AVIA 377	Intermediate Commercial Flight Training	2
AVIA 378	Advanced Commercial Flight Training	2
AVIA 379	Aerodynamics	2
AVIA 476	Add-on Class Rating	2
AVIA 477	Human Factors in Aviation	2

## Minor in Aviation

A minimum of 24 hours (6 upper-division hours)

### ► Required Core Courses (10 hours):

AVIA 175	Private Pilot Theory	4
AVIA 176	Private Flight Training	2
AVIA 177	Intermediate Private Flight Training	2
AVIA 178	Advanced Private Flight Training	2

### ► Required Electives (14 hours):

Take at least 14 hours from the following: 14  
Additional AVIA courses, selected in consultation with the advisor. Include at least 6 upper-division hours.

## Aviation

### SERVICE COURSE:

(Not applicable to a major or minor in this department)

### AVIA 101

1 F, W, S

#### Introduction to Flight

An introduction to the elements and science of flight. Flight instruction on basic maneuvers of flight and landings. Survey of aircraft types, design considerations, and role applications. Brief history of aviation and its safety programs.

### LOWER-DIVISION COURSES:

#### AVIA 141

3 W

#### Applied Electronics

A non-mathematical approach to electronics. Electronic components and component combinations to make useful equipment. Experiments include building and testing burglar alarms, photo strobes, power supplies, light dimmers, intercom systems, electronic doorbells, timers, clocks, and other circuits. For the general student. Two lectures and one three-hour laboratory per week. Odd years. *Previously ELEC 141.*

#### AVIA 172

2 W

#### Electronics and Fuel Systems

The components of the charging system, electrical storage, and starting systems. Battery-driven ignition systems, magnetos, engine combustion principles, and diagnosis of failures. Wiring, fuses, bus bar and grounding systems. Fuel systems section covers storage, fuel formulation, pumping, carburation, and electronic and mechanical fuel injection and turbo charging. Even years.

**AVIA 173** **3 F**  
**Meteorology**

An introduction to the causes of weather phenomena and patterns. Meteorological theory, the best ways to obtain current weather reports and forecasts, how to interpret meteorological reports, how to predict changes in weather, how to recognize dangerous weather patterns, and how to react to difficult situations caused by adverse weather. For both pilots and nonpilots. Recommended corequisite: AVIA 175.

**AVIA 175** **4 F, S**  
**Private Pilot Theory**

The theory necessary for safe flight in today's environment. Includes aerodynamics, the airspace system, aircraft performance and design, basic weather, maps, navigation, and aeromedical factors. Prepares the future private pilot for the FAA private pilot written exam. Corequisite: AVIA 176.

**AVIA 176** **2 Su, F, W, S**  
**Private Flight Training**

Covers all flight training up through solo flight. Includes training in preflight, taxi, take-off, flight maneuvers, stalls, emergency procedures, normal and cross-wind landings, federal regulations, traffic procedures, and communications. Qualifies for IP grading.\*

**AVIA 177** **2 Su, F, W, S**  
**Intermediate Private Flight Training**

Includes several hours of solo practice including take-offs, air maneuvers, and landings. Special training in short-field and soft-field take-offs and landings, emergency procedures, slips, diversions, and cross-country flying techniques with a certificated flight instructor. Prerequisite: AVIA 176. Qualifies for IP grading.\*

**AVIA 178** **2 Su, F, W, S**  
**Advanced Private Flight Training**

Flight with reference to instruments, night flying, VOR navigation, filing flight plans, pilotage, dead reckoning, and preparation for the FAA Private Pilot oral and practical exam. Prerequisite: AVIA 177. Qualifies for IP grading.\*

**AVIA 273** **1-6 Su, F, W, S**  
**Practicum in Flight**

Practice in cross-country flying as pilot-in-command to various destinations. Practice with cockpit management skills, aeronautical decision making, and pre-flight planning. Prerequisite: AVIA 178. Repeatable to a maximum of 6 credits. Qualifies for IP grading.\*

**AVIA 275** **4 W**  
**Instrument Pilot Theory**

From basic attitude instrument flying to getting around in the modern airspace system on an IFR flight plan. Preparation for the FAA instrument written examination and the instrument instructor written examination. Prerequisite: AVIA 175.

**AVIA 276** **3 Su, F, W, S**  
**Instrument Flight Training**

Basic attitude instrument flying theory and skills. Developing proficiency in scan of the attitude instruments, interpretation of the instruments, and control of the aircraft with an additional work load that includes such factors as communications, copying clearances, using a timing device, and reading charts in flight. Also includes VOR and ADF navigation, DME arcs, and holding-patterns of all types. Prerequisite or corequisite: AVIA 175, 176, 177, 178. Qualifies for IP grading.\*

**AVIA 278** **4 Su, F, W, S**  
**Advanced Instrument Flight Training**

Flight training includes precision and non-precision instrument approaches,

cross-country instrument flying, and flight and ground preparation for the FAA Instrument Rating oral and practical exam. Prerequisite: AVIA 276. Qualifies for IP grading.\*

## UPPER-DIVISION COURSES:

**AVIA 305** **4 W**  
**Aircraft Systems**

Major aircraft systems on both small and large aircraft, including theory and troubleshooting techniques. Includes engine theory, propellers, governors, hydraulics, pneumatics, anti-ice and de-ice systems, pressurization, flight controls and landing gear. Special emphasis on turbine engine theory and systems for transition to large transport category aircraft. Prerequisite: AVIA 175. Even years.

**AVIA 350** **2 S**  
**Mission Flying Theory and Practice**

Advanced mountain flying, operations at small unimproved airports, high altitude operations, and advanced short field landing techniques. Prerequisite: AVIA 476. Qualifies for IP grading.\* Odd years.

**AVIA 375** **4 W, S**  
**Commercial and Certificated Flight Instructor Theory**

Aircraft performance, weight and balance, theory of flight, the federal airspace system, air traffic control, and navigation. Prepares pilots for the Commercial Pilot-Airplane and Flight Instructor-Airplane FAA written exams. Prerequisites: AVIA 175, 275. Offered during winter quarter in odd years and during spring quarter in even years.

\* IP grades in AVIA courses must be completed within one quarter.

## Aviation

### **AVIA 376** **2 Su, F, W, S** **Commercial Flight Training**

Aircraft systems, performance, and procedures necessary for safely operating a multi-engine aircraft. Prerequisite: AVIA 278. Qualifies for IP grading.\*

### **AVIA 377** **2 Su, F, W, S** **Intermediate Commercial Flight Training**

Become proficient in the maneuvers and skills required for the Private Multi-engine practical exam. Special emphasis on in-flight emergencies. Prerequisite: AVIA 376. Qualifies for IP grading.\*

### **AVIA 378** **2 Su, F, W, S** **Advanced Commercial Flight Training**

A comprehensive review of aeronautical knowledge and flight maneuvers in preparation for the Commercial Pilot-Airplane oral and practical exam. Prerequisite: AVIA 377. Qualifies for IP grading.\*

### **AVIA 379** **2 W** **Aerodynamics**

Aerodynamics and aerodynamic devices used on various types of modern aircraft. Encompasses the basic concepts of flight as well as more advanced studies than a pilot would normally receive in preparation for pilot certificates. Recommended prior to commercial and flight instructor flight classes. Prerequisite: AVIA 175. Even years.

### **AVIA 450** **2 S** **Advanced Aircraft Systems**

Transport aircraft systems specializing in the CRJ, automatic flight controls, auxiliary power units, environmental control systems, and high altitude operations. Prerequisite: AVIA 305. Odd years.

### **AVIA 460** **2 W** **Professional Skills for Pilots**

Essential elements of being an aviation professional. Emphasizes professional etiquette, resume writing, business writing, interviews, job search, time management, and organizational skills. Prerequisite: AVIA 378. Odd years.

### **AVIA 468+469** **3+3 Su, F, W, S** **Flight Instructor Flight Training**

Flight training and practice teaching in preparation for flight-instructor certificate. Requires perfecting teaching techniques for the flight instructor. Includes comprehensive review of private and commercial aeronautical knowledge; flight maneuvering skill from the right-hand seat. Awareness of obligations and privileges of a certificated flight instructor. Mastery of FAA documentation and certification procedures. Prerequisites: AVIA 378. Must be taken in sequence. Qualifies for IP grading.\*

### **AVIA 470** **1 S** **Fundamentals of Flight Instruction**

Basic principles of education that may be applied to flight instruction. Practice ground instruction covering various private and commercial maneuvers. Discussion of the best teaching techniques and how to avoid pitfalls common to many students and flight instructors during flight training. Required for instructor certification. Prerequisite: AVIA 278. Even years.

### **AVIA 472** **3 Su, F, W, S** **Instrument Instructor Flight Training**

Preparation for the instrument flight instructor oral and practical examination. Review of skills and procedures required for instrument rating. Develops instrument flight proficiency from the right-hand seat and instructional skills necessary for teaching an instrument student

in flight and on the ground. Prerequisites: AVIA 469. Qualifies for IP grading.\*

### **AVIA 473** **1-6 Su, F, W, S** **Advanced Practicum in Flight**

Additional involvement in instruction or advanced flight operations. Advanced flight operations include; night operations, IFR operations, and Class B operations. Special reports or research projects may be required in conjunction with these assignments. Prerequisite: AVIA 273. Repeatable to a maximum of 6 credits. Qualifies for IP grading.\*

### **AVIA 476** **2 Su, F, W, S** **Add-on Class Rating**

Instruction in aircraft systems, maneuvers, and emergency procedures toward developing proficiency in an added class rating. Prepare students for the Add-on Class Rating oral and practical exam. Prerequisites: AVIA 378 Qualifies for IP grading.\*

### **AVIA 477** **2 S** **Human Factors in Aviation**

The pilot's thought processes enabling detection and prevention of potentially hazardous aeronautical decision-making. Emergency procedure planning and crew resource management are role-played to promote teamwork and redundancy for multi-crew cockpits. Odd years.

### **AVIA 478** **2 Su, F, W, S** **Add-on CFI Rating**

Prepares the applicant to meet the experience requirements for an add-on to the instructor certificate. Review of private and commercial pilot aeronautical knowledge and flight skills in preparation for the Flight Instructor Add-on oral and practical exam. Prerequisite: AVIA 469. Qualifies for IP grading.\*

\* IP grades in AVIA courses must be completed within one quarter.



## Faculty

Aimee Wyrick-Brownworth, chair; John Duncan, Floyd Hayes, Bryan Ness, Shelton Scott Herbert, Backil Sung, Robin Vance  
 Departmental Office: 121 Clark Hall; 965-6635

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Biologists seek to understand the complexity of the living world through observation and experiment. By offering course work and laboratory experience concerning microorganisms, plants, animals (including humans), and the interrelationships among these living things, the *Biology Department* encourages the student to consider the study of life an exciting and continuing challenge, whether at the level of molecules, cells, organisms, populations, or ecosystems.

The biology major prepares students for careers in the practice or teaching of the life sciences, for graduate study, or for entering professional schools in dentistry, medicine, veterinary medicine, and pharmacy.

The biology curriculum may be enriched by research (BIOL 412) either on or off campus.

## Major in Biology, B.S.

A minimum of 99 hours (51 upper-division hours)

### ► Required Core Courses (39 hours):

BIOL 111+112+113	Biological Foundations	5+5+5
BIOL 222	Introduction to Research Methods	2
BIOL 233	Ecology	4
BIOL 320	Cellular and Molecular Biology	4
BIOL 348	Systems Physiology	5
BIOL 354	Genetics	4
BIOL 396	Seminar	.5
BIOL 397	Biology Seminar	.5
BIOL 450	Philosophy of Origins	4

### ► Required Core Electives (21 hours):

At least 21 hours from the following: 21  
 In consultation with the advisor, select additional upper-division BIOL courses (please note that service courses do not count towards the major). CHEM 481, ENVR 360, and ENVR 360L may also apply.

### ► Required Cognate Courses (39 hours):

CHEM 111+112+113	General Chemistry	5+5+5
CHEM 371+372+373	Organic Chemistry	4+4+4
PHYS 111+112+113	General Physics	4+4+4

### Recommended Cognate Courses:

CHEM 481	Biochemistry I (4)
MATH 131	Calculus I (4)

### Pre-medical and pre-dental students:

The B.S. degree curriculum, including recommended cognates, exceeds all undergraduate science requirements for pre-medical and pre-dental students applying to Loma Linda University and many other schools.

# Biology

## Major in Biology, B.A.

A minimum of 87 hours (39 upper-division hours)

Required core courses and cognate courses are the same as those for the B.S. degree. Core electives: Select 9 hours in biology from the core electives listed above for the B.S. degree. BIOL 412 is not applicable toward the B.A. degree.

## Major in Environmental Studies, B.S.

A minimum of 90 hours (30 upper-division hours)

### ► Required Core Courses (60 hours):

BIOL 111+112+113	Biological Foundations	5+5+5
BIOL 222	Introduction to Research Methods	2
BIOL 233	Ecology	4
BIOL 397	Biology Seminar	.5
BIOL 450	Philosophy of Origins	4
CHEM 111+112+113	General Chemistry	5+5+5
ENVR 360+360L	Conservation Biology + Lab	3+1
ENVR 361+361L	Energy & Climate Change + Lab	3+1
ENVR 362+362L	Pollution & Environmental Quality + Lab	3+1
ENVR 396	Seminar	.5
ENVR 494	Internship	4
RELT 240	Eco-theology	3

### ► Required Core Electives (30 hours):

At least 30 hours from the following:		30
AGRI 212	Home Greenhouse Gardening (2)	
AGRI 213	Home Vegetable Gardening (2)	
BIOL 227	Natural History of California (4)	
BIOL 323	Vertebrate Biology (4)	
BIOL 325	Flowering Plants (3)	
BIOL 328	Animal Behavior (4)	
BIOL 331	Marine Science (4)	
BIOL 338	Field Biology (3)	
BIOL 366	Medical Microbiology (5)	
CHEM 324+324L	Analytical Chemistry I (3+2)	
CHEM 325+325L	Analytical Chemistry II (3+2)	
CHEM 371+372+373	Organic Chemistry (4+4+4)	
CHEM 451+452	Physical Chemistry (3+3)	
CHEM 450L	Physical Chemistry Laboratory (1)	
ENGL 301	Themes: Lit & the Environment (4)	
ENVR 412	Research in Environmental Studies (1-3)	
GEOL 233	Geology (4)	
MATH 131+132	Calculus I,II (4+4)	
PHYS 111+112+113	General Physics (4+4+4)	
PLSC 328	Environmental Policy (3)	

### Recommended courses for students interested in specific areas:

The following courses are recommended to help students become better prepared for a job or for graduate school in more specialized areas. These courses are not intended to provide students with the specific skills required for a job.

*Air Quality:* CHEM 324+324L, 325+325L, 371+372+373, 450L, 451+452, MATH 131+132, PHYS 111+112+113

*Conservation Biology:* BIOL 227, 323, 325, 328

*Energy:* CHEM 324, 324L, 325, 325L, 371+372+373, 450L, 451+452, GEOL 233, MATH 131+132, PHYS 111+112+113

*Environmental Economics:* ACCT 121+122+123, ECON 261, 265, MATH 131+132

*Environmental Policy:* PLSC 124, 274, SOWK 232

*Marine Resources:* BIOL 331

*Solid Waste Management:* CHEM 324, 324L, 325, 325L, 371+372+373, 450L, 451+452, PHYS 111+112+113

*Water Management:* BIOL 366, CHEM 324, 324L, 325, 325L, 371+372+373, 450L, 451+452+453, MATH 131+132, MICR 134, PHYS 111+112+113

*Wildlife Management:* BIOL 227, 323, 328, 403

## Teaching Credential

Students desiring to enter a program of studies leading to a California teaching credential in science with a concentration in biology should take the B.A. or B.S. degree in Biology. Students will need to pass the science (biology concentration) portion of the CSET exam one quarter prior to doing full-time student teaching. Students are invited to discuss the program with their major advisor in the Biology Department.

Those who plan to teach on the secondary level should consult with the credential analyst in the Education Department and should become acquainted with the specific requirements for admission to and successful completion of the Teacher Education Program as outlined in the section entitled "Education" in this catalog.

## Minor in Biology

A minimum of 30 hours (12 upper-division hours)

### ► Required Courses (18 hours):

BIOL 111+112+113	Biological Foundations	5+5+5
BIOL 355	Issues on Origins	3

### ► Required Electives (12 hours):

At least 12 hours from the following (9 upper-division): 12  
Additional non-service BIOL courses

**Minor in Environmental Studies**

*A minimum of 30 hours (11 upper-division hours)*

► **Required Courses (30 hours):**

BIOL 233	Ecology	4
ENVR 360	Conservation Biology	3
ENVR 361	Energy & Climate Change	3
ENVR 362	Pollution & Environmental Quality	3

<i>At least two of the following labs:</i>		1+1
ENVR 360L	Conservation Biology Lab (1)	
ENVR 361L	Energy & Climate Change Lab (1)	
ENVR 362L	Pollution & Envr Quality Lab (1)	
<i>At least one of the following sequences:</i>		15
BIOL 111+112+113	Biological Foundations (5+5+5)	
CHEM 111+112+113	General Chemistry (5+5+5)	

**Agriculture**

LOWER-DIVISION COURSES:

**AGRI 212 Home Greenhouse Gardening 2 W**

The greenhouse as a solar energy source for the home. Growth and multiplication of plants for food and home beautification. One lecture and one laboratory per week.

**AGRI 213 Organic Vegetable Gardening 2 S**

Developing a home vegetable garden using all-natural methods for preparing, growing, maintaining, protecting, and harvesting garden crops. One lecture and one laboratory per week.

**Biology**

SERVICE COURSES:

*(Not applicable to a major or minor in this department)*

**BIOL 100 Introduction to Human Biology 4 F**

Basic concepts of human anatomy (including terms, structure, cell, and organs), human physiology (including basic chemistry, homeostasis, and genetics) and microbiology (including microorganisms, prokaryotes, and human immune

system). Designed to prepare students for the BIOL 101 - BIOL 102 - MICR 134 sequence.

**BIOL 101 Human Anatomy 5 F, W**

Human structure as the expression of basic principles of morphology. Each functional system considered in terms of its cell, tissue, and organ types. Four lectures and one laboratory per week. Prerequisite: One of the following options:

- Minimum ACT score of 22
- Minimum SAT score of 1100 (new scoring system) or 1500 (old scoring system)
- Minimum college-level GPA of 3.0
- Completion of BIOL 100 with minimum grade C-

**BIOL 102 Human Physiology 5 W, S**

The function of human body systems, emphasizing the relationships among these systems; the role of each system in normal body function and health. Four lectures and one laboratory per week. Prerequisites: BIOL 101 with minimum grade C-, secondary-school chemistry or CHEM 101 with minimum grade C-.

**BIOL 105 Introduction to Biology 5 W**

The organization and complexity of living organisms. The central questions of biology: the relationship between form and function, acquisition and use of energy, continuity between generations, and biodiversity. Enrollment limited to non-science majors; not available to students who have had a college biology course. Four lectures and one laboratory per week.

**BIOL 223 Medical Terminology 2 S**

The terminology of science and medicine.

**BIOL 227 Natural History of California 4 S**

Plants and animals of California as they relate to its diverse topography and geography. Three lectures and one laboratory per week.

**BIOL 355 Issues on Origins 3 F**

Scientific and biblical models regarding the origin and history of life. Special reference to the impact of origins philosophy on the interpretation of biological, geological, and paleontological evidence. Enrollment is limited to students in majors other than biology and environmental studies. Applicable to a minor in biology.

# Biology

*Note: A minimum grade of C- is required for all listed biology prerequisite courses.*

## LOWER-DIVISION COURSES:

### **BIOL 111+112+113 5+5+5 F+W+S** **Biological Foundations I, II, III**

An integrated foundation in life science principles for biology majors and preprofessional students in the biomedical sciences. Prerequisite to most biology courses with higher numbers. Should be taken in sequence. Four lectures and one laboratory per week. Prerequisite: BIOL 105 or equivalent.

*BIOL 111:* The cell as the structural and functional unit of life; organelles and their functions; structure and function of essential biomolecules; and an introduction to molecular genetics. Prerequisite: CHEM 101 or equivalent.

*BIOL 112:* Mendelian genetics, biodiversity, ecology, and evolution.

*BIOL 113:* The form and function of plants and animals.

### **BIOL 222 2 F, W** **Introduction to Research Methods**

The tools of biological research, including the choice of a model system, statistical tests, data recording and analysis, interpretation and presentation of experimental results, and the writing of research proposals. One lecture and one laboratory per week. Prerequisites: BIOL 111+112+113. Prerequisite or corequisite: STAT 222.

### **BIOL 233 4 F** **Ecology**

The interaction of physical and biological factors in maintaining balance within the ecosystem. Survey of world biomes and aquatic ecosystems. Laboratories examine and compare biotic communities and their structure. Three lectures and one laboratory per week. Prerequisite: BIOL 111+112+113.

## UPPER-DIVISION COURSES:

### **BIOL 320 4 W** **Cellular and Molecular Biology**

Composition, structure, and function of the cell and its organelles; emphasis on intracellular and intercellular communication and control principles. Prerequisites: BIOL 111+112+113; CHEM 371.

### **BIOL 323 4 W** **Vertebrate Biology**

Biology of the vertebrates, including their relationship to the physical environment and to other species and their social and reproductive patterns. The laboratory emphasizes the vertebrates in northern California. Three lectures and one laboratory per week. Prerequisite: BIOL 111+112+113.

### **BIOL 325 3 S** **Flowering Plants**

Study of flowering plant biology; structure and physiology, practical human uses, and methods of collecting, identifying, and curating representative specimens. Two lectures and one laboratory per week. Prerequisite: BIOL 113 or BIOL 227.

### **BIOL 328 4 S** **Animal Behavior**

Diversity of animal behavior including instinct, learning, communication, socio-biology, and the genetic, physiological, and ecological aspects of behavior. Three lectures and one laboratory per week. Prerequisite: BIOL 111+112+113.

### **BIOL 331 4 F** **Marine Science**

Introduction to oceanography, marine life, and humanity's impact on the marine environment. Three lectures and one laboratory per week. Prerequisites: BIOL 111+112+113.

### **BIOL 338 3 Arranged** **Field Biology**

Study of the diversity of organisms in marine, freshwater and terrestrial ecosystems of a selected region. Offered under different subtitles and at different locations. Includes classroom lectures, laboratory, and extensive field exercises as part of a study tour during an academic break. Requires additional cost for study tour and includes travel during an academic break. Contact the Biology Department for further information. Qualifies for IP grading.

### **BIOL 348 5 F** **Systems Physiology**

Functions of the nervous, muscular, endocrine, cardiovascular, respiratory, renal, and reproductive systems with emphasis on regulatory mechanisms and integration. Examines processes used by animals in adjusting to their external environment and controlling their internal environment. Laboratories involve firsthand analysis of selected aspects of the major functional systems. Four lectures and one laboratory per week. Prerequisites: BIOL 111+112+113 or BIOL 101+102.

### **BIOL 354 4 S** **Genetics**

Genetics of bacteria, plants, and animals. Chromosome mapping, population and evolutionary genetics, prokaryotic and eukaryotic genetic control, and molecular genetics. Emphasis on the study of modern molecular genetic techniques and concepts. Three lectures and one laboratory per week. Prerequisites: BIOL 111+112+113, 320.

### **BIOL 366 5 W** **Medical Microbiology**

Major groups of bacteria, viruses, and fungi that are pathogens or normal flora of humans. Laboratory work emphasizes

the culture, characterization, and identification of unknown bacteria of medical importance. Four lectures and one laboratory per week. Prerequisite: BIOL 111+112+113 or MICR 134.

**BIOL 395** **1-3 Arranged**  
**Special Topics in Biology**

Additional laboratory or library studies correlated with biology courses.

**BIOL 396** **.5 W**  
**Science Seminar**

(See also CHEM 396, ENVR 396)

Discussions of career options for scientists and skills needed for obtaining a job or success at the next level of education. Topics of scientific interest presented by guest lecturers. Graded S/F.

**BIOL 397** **.5 W**  
**Biology Seminar**

Topics of current interest in the biological sciences are presented and discussed. Prerequisites: BIOL 111+112+113. Graded S/F.

**BIOL 412** **1-3 F, W, S**  
**Research in Biology**

Original investigation in selected areas of biology. The research topic is selected and the work done under direction of a faculty advisor. Scholarly presentation of research results is encouraged. Prerequisites: BIOL 111+112+113, 222 and permission of the instructor. Repeatable to a maximum of 6 credits applied to the Biology major. Graded S/F. Qualifies for IP grading.

**BIOL 419** **3 F**  
**Developmental Biology**

Principles of animal development and its molecular basis in selected model organisms. Cell communication and differentiation, embryonic induction, pattern formation, morphogenesis, and the genetic control of development. Prerequisites: BIOL 111+112+113, 320, 354.

**BIOL 422** **4 S**  
**Advanced Human Anatomy**

Intensive study of the structure of the human body. The laboratory requires extensive cadaver dissection. Two lectures and two laboratories per week. Prerequisite: BIOL 111+112+113 or BIOL 101 with a grade of B or better.

**BIOL 426** **5 F**  
**Histology**

Microscopic structure of the fundamental tissues and organs of humans and other mammals with functional correlations. Three lectures and two laboratories per week. Prerequisite: BIOL 111, 112, 113. Recommended: BIOL 320.

**BIOL 430** **4 W**  
**Neurobiology**

The neural basis of behavior with emphasis on the human nervous system. Includes cellular approaches to neural function, neuroanatomy, development of neurons and circuits, and neuroendocrine mechanisms. Three lectures and one laboratory per week. Prerequisite: BIOL 111+112+113. Recommended prerequisite: BIOL 348.

**BIOL 445** **3 F**  
**Biotechnology**

Advanced molecular genetics techniques, including isolation of DNA, cloning, PCR and DNA sequencing. Ethics and politics of genetic testing, cloning, gene therapy, stem cell research, and transgenic organisms. Two lectures and one laboratory per week. Prerequisite: BIOL 354.

**BIOL 450** **4 W**  
**Philosophy of Origins**

Historical and current issues relating to special creation and evolution models of origins. Biological, geological, and paleontological evidence and potential explanations along with the theological and scientific implications of various

interpretations. Limited to students with senior standing majoring in biology and environmental studies. Applies to the Science and Society general education requirement. Prerequisite: BIOL 111+112+113.

**BIOL 469** **4 S**  
**Immunology**

The lymphoid system and its response to foreign substances by humoral or cellular mechanisms that may protect or injure the host. Immunogens, immunoglobulins, complement, antigen-antibody reactions, phagocytosis, inflammation, immediate and delayed allergy, autoimmunity, and the immunology of transplantation, cancer and tolerance. Three lectures and one laboratory per week. Prerequisites: BIOL 111+112+113, 320

**BIOL 495** **1-3 Arranged**  
**Independent Study**

Properly qualified students in biology whose scholarship is of outstanding quality may undertake a limited amount of individual investigation. Repeatable to a maximum of 6 credits.

**Environmental Studies**

UPPER-DIVISION COURSES:

**ENVR 360** **3 F**  
**Conservation Biology**

Conservation ethics, population biology, biodiversity, threats to biodiversity, conserving biodiversity, and the interplay of human populations, economics, and politics. Required corequisite for biology and environmental studies majors and minors: ENVR 360L.

## Biology

### **ENVR 360L** 1 F

#### **Conservation Biology Laboratory**

Laboratory activities coordinated with ENVR 360. Prerequisite: BIOL 111+112+113.

### **ENVR 361** 3 W

#### **Energy and Climate Change**

Fossil fuels, alternative energy sources, energy conservation, energy politics, atmosphere and climate, natural climate changes, and global warming. Required corequisite for environmental studies majors and minors: ENVR 361L.

### **ENVR 361L** 1 W

#### **Energy and Climate Change Laboratory**

Laboratory activities coordinated with ENVR 361. Prerequisite: BIOL 111+112+113.

### **ENVR 362** 3 S **Pollution and Environmental Quality**

Air pollution, ozone depletion, acid rain, water quality, water pollution, wastewater treatment, solid waste management, food production, pest control, and various environmental hazards. Required corequisite for environmental studies majors and minors: ENVR 362L.

### **ENVR 362L** 1 S

#### **Pollution and Environmental Quality Laboratory**

Laboratory activities coordinated with ENVR 362. Prerequisite: BIOL 111+112+113.

### **ENVR 396** .5 W

#### **Science Seminar**

(See also BIOL 396, CHEM 396)

Discussions of career options for scientists and skills needed for obtaining a job or success at the next level of education. Topics of scientific interest presented by guest lecturers. Graded S/F.

### **ENVR 412** 1-3 F, W, S

#### **Research in Environmental Studies**

Original investigation in selected areas of environmental studies. The research topic is selected and the work done under direction of a faculty advisor. Scholarly presentation of research results is encouraged. Prerequisites: BIOL 222 and permission of the instructor. Repeatable to a maximum of 6 credits. Graded S/F. Qualifies for IP grading.

### **ENVR 494** 1-4 F, W, S

#### **Internship**

Volunteer service or employment with an environmental government agency or non-government organization. Intended to provide students with experience relevant to future employment or graduate studies. A report must be submitted summarizing duties performed and skills learned. Prerequisite: Permission of the instructor. Repeatable to a maximum of 4 credits. Graded S/F. Qualifies for IP grading.

## Geology

LOWER-DIVISION COURSE:

### **GEOL 233** 4 F **Geology**

The materials, structure, and internal conditions of the earth; the physical and chemical processes at work upon it. Three lectures and one laboratory per week.

## General Science

SERVICE COURSE:

*(Not applicable to a major or minor in this department)*

### **GSCI 205** 3 F, S

#### **Scientific Discoveries**

Major developments in biology, chemistry, and physics that have led to new ways of thinking in the sciences, with a synthesis of modern scientific thought and methods. Enrollment is limited to students in programs other than the natural sciences. Prerequisite: MATH 095 or equivalent.

## Microbiology

SERVICE COURSE:

*(Not applicable to a major or minor in this department)*

### **MICR 134** 5 F, S

#### **General Microbiology**

An introduction to microorganisms—the bacteria, viruses, and fungi; the usefulness of microorganisms in nature and manufacturing; pathogenesis and immunity. Consideration of each major infectious disease with respect to its causative agent, characteristics, diagnosis, transmission, and prevention. Four lectures and one laboratory per week. Prerequisites: Demonstrated algebra proficiency of MATH 096 or equivalent  
*plus*

One of the following options:

- BIOL 101, 102 (*strongly recommended*)
- Minimum ACT score of 22
- Minimum SAT score of 1100 (new scoring system) or 1500 (old scoring system)
- Minimum college-level GPA of 3.0
- Completion of BIOL 100 with minimum grade C-.



**Faculty**

*John Nunes, chair; David Bell, Kim-Liang Chuah, Abram Fisher, Victor Gaines, Rodney Hardcastle, Keith Neergaard, Marcia Toledo*

*Departmental Office: 317 Irwin Hall; 965-6238*

**Degrees and Programs**

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The degree programs offered by the *Business Administration & Economics Department* are fully accredited by the International Assembly for Collegiate Business Education (IACBE). As part of a Seventh-day Adventist college, the department intends not only to prepare students to successfully meet the everyday challenges of a career in business, but also to prepare its graduates to give effective Christian influence in their communities. To meet these goals, the department offers several programs of study:

The B.B.A. (Bachelor of Business Administration) is a professional degree designed for the student who intends to enter the job market upon completing the four-year program or to be well prepared for graduate studies. This program offers the following emphases: Accounting, Finance, Healthcare Management, International Business, Management, and Marketing.

The B.S. (Bachelor of Science) in Business Administration is a degree designed for those who plan to enter a postgraduate or graduate program in law or business.

The B.A. (Bachelor of Arts) degree program in Business Administration is a traditional curriculum for those interested in taking a program that includes the study of a foreign language.

The B.S. (Bachelor of Science) in Computer Information Systems is a degree designed for the student who plans to pursue a career in the support and management of information systems.

The B.S. (Bachelor of Science) in Management for Medical Professionals is a degree designed for those who plan to enter a professional medical graduate program, such as medicine, dentistry, or physical therapy. Since most graduates of such professional programs will ultimately have their own business, this degree is particularly useful for them.

The preparation offered in the four-year Business Administration programs (B.B.A., B.S., and B.A.) differs considerably. Both the B.S. and the B.A. degree offer more flexibility in course selection than the B.B.A. However, the first two years are similar enough so that in the process of choosing a field for concentration students have ample time to explore a variety of professions in consultation with departmental faculty and others. Many opportunities and avenues for service are thus available to students majoring in business.

Students interested in teaching business-related subjects at the secondary level should consult with their advisor in the Business Administration & Economics Department and with the credential analyst in the Education Department. They may generally take any bachelor's degree program in business and the specific education courses required. They will then need to pass the PRAXIS and SSAT competency examinations to obtain the secondary teaching credential.

## Bachelor of Business Administration, B.B.A.

A minimum of 102 hours (58 upper-division hours)

### ► Required Core Courses (62-63 hours):

ACCT 121+122	Financial Accounting I, II	3+4
ACCT 123	Managerial Accounting	3
BUAD 279	Business Comm & Data Presentation	3
BUAD 290	Seminar in Business	1
BUAD 325+326	Business Law I, II	3+3
BUAD 494	Internship	1
ECON 261	Macroeconomics	4
ECON 265	Microeconomics	4
FIN 341	Finance	5
INFS 147	PC Word Processing	1
INFS 148	PC Spreadsheets	1
MGMT 228	Management Information Systems	4
MGMT 361	Management	4
MGMT 481	Operations Management	3
MGMT 491	Strategic Management	3
MKTG 351	Marketing	4
STAT 222	Introduction to Statistics	4

At least one of the following courses: 4-5

MATH 106	College Algebra (4)
MATH 130	Precalculus (5)
MATH 131	Calculus I (4)

### Recommended Supporting Courses:

BUAD 118	Personal Money Management (3)
BUAD 223	Personal Law (2)

### ► Emphases (choose one):

#### 1. Accounting Emphasis (39-40 hours)

ACCT 311+312+313	Intermediate Accounting I, II, III	3+3+3
ACCT 321	Cost Accounting I	3
ACCT 322	Cost Accounting II	3
ACCT 341	Individual Taxation	4
ACCT 343	Business Taxation	4
ACCT 391	Acct Systems in Small Business	2

At least 11 hours from the following: 11\*

ACCT 307	Gov't & Nonprofit Accounting (3)
ACCT 345	Estate Planning, Gifts & Trust Tax (3)
ACCT 451	Advanced Accounting (3)
ACCT 453	Auditing (5)
BUAD 329	Fraud Examination (3)

Additional hours from the following: 3-4\*

Additional hours from ACCT, BUAD, ECON, FIN, INFS, MGMT, and MKTG courses to total at least 102 hours.

#### 2. Finance Emphasis (39-40 hours)

ACCT 311+312+313	Intermediate Accounting I, II, III	3+3+3
ECON 371	Money, Banking, and Capital Markets	4
FIN 488	Problems in Finance	3
MGMT 466	Business and Society	3

At least one of the following courses: 4

ACCT 341	Individual Taxation (4)
ACCT 343	Business Taxation (4)

At least 12 hours from the following: 12\*

BUAD 335	Real Estate (4)
BUAD 371	Insurance and Risk Management (3)
FIN 419	Personal Financial Planning (3)
FIN 436	Real Estate Finance (3)
FIN 444	Investments (3)
FIN 457	International Finance (3)
FIN 463	Financial Planning and Forecasting (3)

Additional hours from the following: 4-5\*

Additional hours (at least 3 upper-division hours) from ACCT, BUAD, ECON, FIN, INFS, MGMT, and MKTG courses to total at least 102 hours.

#### 3. Healthcare Management Emphasis (39-40 hours)

ACCT 307	Govt & Nonprofit Accounting	3
BUAD 370	Healthcare Law	3
BUAD 371	Insurance & Risk Management	3
ECON 270	Healthcare Economics	3
MGMT 370	Healthcare Management	3
MKTG 417	Services Marketing	3

At least 15 hours from the following: 15\*

ACCT 311	Intermediate Accounting I (3)
ACCT 312	Intermediate Accounting II (3)
ACCT 321	Cost Accounting I (3)
ACCT 322	Cost Accounting II (3)
FIN 463	Financial Planning & Forecasting (3)
MGMT 350	Project Management (3)
MGMT 465	Organizational Behavior (3)
MGMT 466	Business and Society (3)
MKTG 371	Marketing Research (3)

Additional hours from the following: 6-7\*

Additional hours (at least 3 upper-division hours) from ACCT, BUAD, ECON, FIN, INFS, MGMT, and MKTG courses to total at least 102 hours.

\* Courses used to fulfill requirements in these sections may not also fulfill requirements in another emphasis or business program.

**4. International Business Emphasis** (39-52 hours)

ECON 457	International Economics	3
FIN 457	International Finance	3
MGMT 457	International Business	3
MGMT 466	Business and Society	3
MKTG 371	Marketing Research	3

*At least 9 hours from the following:* 9

ACCT 311+312+313	Intermediate Accounting I, II, III (3+3+3)	
ACCT 321+322	Cost Accounting I,II (3+3)	
ACCT 343	Business Taxation (4)	

*Competence at the intermediate level in a language other than English.* 0-12

This requirement may be met by one of the following options:

1. One-year sequence in college intermediate language course.
2. Study for a minimum of one quarter in a college abroad where classes are conducted in a foreign language, completing at least 12 quarter units with grades of C or higher.
3. Passing a competency test in a foreign language.
4. Graduation from a secondary school in a non-English-speaking country in which classes were conducted in the language of that country.

*At least two courses from the following that complement, where possible, the foreign language:* 6-8

ANTH 124	Cultural Anthropology (4)	
COMM 330	Intercultural Communication (3)	
GEOG 210	World Regional Geography (3)	
HIST 332	Europe Since Napoleon (4)	
HIST 358	Recent America (4)	
HIST 412	Seminar in Asian History (4)	

*Additional hours from the following:* 7-10\*

Additional hours (at least 6 upper-division hours) from ACCT, BUAD, FIN, ECON, INFS, MGMT, MKTG, and Modern Languages to total at least 102 hours.

**5. Management Emphasis** (39-40 hours)

ACCT 311	Intermediate Accounting I	3
BUAD 334	Entrepreneurship	3
MGMT 350	Project Management	3
MGMT 465	Organizational Behavior	3
MGMT 466	Business and Society	3

*At least 15 hours from the following:* 15\*

ACCT 343	Business Taxation (4)	
ACCT 391	Acct Systems in Small Businesses (2)	
BUAD 371	Insurance and Risk Management (3)	
INFS 380	Database Analysis & Design (3)	
INFS 470	Management Science (3)	
MGMT 457	International Business (3)	

MGMT 472 Human Resources Management (3)

MKTG 372 Retailing Management (3)

MKTG 377 Sales Management (3)

*At least one of the following courses:* 3\*

ACCT 321 Cost Accounting I (3)

ACCT 322 Cost Accounting II (3)

*Additional hours from the following:* 6-7\*

Additional hours (at least 4 upper-division hours) from ACCT, BUAD, ECON, FIN, INFS, MGMT, and MKTG courses to total at least 102 hours.

**6. Marketing Emphasis** (39-40 hours)

MGMT 466 Business and Society 3

MKTG 360 Consumer Behavior 3

MKTG 371 Marketing Research 3

MKTG 374 Advertising 3

MKTG 481 Marketing Problems 3

*At least 12 hours from the following:* 12\*

BUAD 334 Entrepreneurship (3)

INFS 377 Electronic Commerce (3)

MGMT 457 International Business (3)

MKTG 372 Retailing Management (3)

MKTG 377 Sales Management (3)

MKTG 417 Services Marketing (3)

*At least 6 hours from the following:* 6

ACCT 311+312 Intermediate Accounting I, II (3+3)

ACCT 321+322 Cost Accounting I,II (3+3)

ACCT 343 Business Taxation (4)

ACCT 391 Acct Systems in Small Business (2)

*Additional hours from the following:* 6-7\*

Additional hours (at least 4 upper-division hours) from ACCT, BUAD, ECON, FIN, INFS, MGMT, and MKTG courses to total at least 102 hours.

**► B.B.A. General-Education Requirements:**

The general-education requirements for the B.B.A. are the same as for the B.S. degree except for the changes described below:

1. Only one course is required for IV.B, to be chosen from either IV.B.1 (Visual Arts) or IV.B.2 (Music).
2. Only two courses are required from V.A (Science) and V.B (Applications of Scientific and Mathematical Reasoning). The courses must come from separate subsections and one course must include a laboratory.

\* Courses used to fulfill requirements in these sections may not also fulfill requirements in another emphasis or business program.

## Major in Business Administration, B.S.

A minimum of 74 hours (35 upper-division hours)

### ► Required Core Courses (68-69 hours):

ACCT 121+122	Financial Accounting I, II	3+4
ACCT 123	Managerial Accounting	3
BUAD 279	Business Comm & Data Presentation	3
BUAD 290	Seminar in Business	1
BUAD 325+326	Business Law I, II	3+3
BUAD 494	Internship	1
ECON 261	Macroeconomics	4
ECON 265	Microeconomics	4
FIN 341	Finance	5
INFS 147	PC Word Processing	1
INFS 148	PC Spreadsheets	1
MGMT 228	Management Information Systems	4
MGMT 361	Management	4
MGMT 481	Operations Management	3
MGMT 491	Strategic Management	3
MKTG 351	Marketing	4
STAT 222	Introduction to Statistics	4

At least 6 hours from the following: 6

ACCT 311+312+313	Intermediate Accounting I, II, III (3+3+3)	
ACCT 321+322	Cost Accounting I,II (3+3)	
ACCT 341	Individual Taxation (4)	
ACCT 343	Business Taxation (4)	
ACCT 345	Estate Planning, Gifts & Trust Tax (3)	
ACCT 391	Acct Systems in Small Business (2)	

At least one of the following courses: 4-5

MATH 106	College Algebra (4)
MATH 130	Precalculus (5)
MATH 131	Calculus I (4)

### ► Required Core Electives (5-6 hours):

At least 5-6 additional hours from the following: 5-6\*

Additional hours (at least 3 upper-division hours) from ACCT, BUAD, ECON, FIN, INFS, MGMT, and MKTG courses to total at least 74 hours for the major.

### Recommended Supporting Courses:

BUAD 118	Personal Money Management (3)
BUAD 223	Personal Law (2)

## Major in Business Administration, B.A.

A minimum of 68 hours (29 upper-division hours)

### ► Required Core Courses (62-63 hours):

ACCT 121+122	Financial Accounting I, II	3+4
ACCT 123	Managerial Accounting	3
BUAD 279	Business Comm & Data Presentation	3
BUAD 290	Seminar in Business	1
BUAD 325+326	Business Law I, II	3+3
BUAD 494	Internship	1
ECON 261	Macroeconomics	4
ECON 265	Microeconomics	4
FIN 341	Finance	5
INFS 147	PC Word Processing	1
INFS 148	PC Spreadsheets	1
MGMT 228	Management Information Systems	4
MGMT 361	Management	4
MGMT 481	Operations Management	3
MGMT 491	Strategic Management	3
MKTG 351	Marketing	4
STAT 222	Introduction to Statistics	4

At least one of the following courses: 4-5

MATH 106	College Algebra (4)
MATH 130	Precalculus (5)
MATH 131	Calculus I (4)

### ► Required Core Electives (5-6 hours):

At least 5-6 additional hours from the following: 5-6\*

Additional hours (at least 3 upper-division hours) from ACCT, BUAD, ECON, FIN, INFS, MGMT, and MKTG courses to total at least 68 hours for the major.

### Recommended Supporting Courses:

BUAD 118	Personal Money Management (3)
BUAD 223	Personal Law (2)

\* Courses used to fulfill requirements in these sections may not also fulfill requirements in another emphasis or business program.

**Major in Computer Information Systems, B.S.**

*A minimum of 77 hours (41 upper-division hours)*

► **Required Core Courses (77 hours):**

ACCT 121+122	Financial Accounting I, II	3+4
ACCT 123	Managerial Accounting	3
BUAD 290	Seminar in Business	1
BUAD 494	Internship	1
ECON 265	Microeconomics	4
FIN 341	Finance	5
INFS 115	Intro to Computer Programming	4
INFS 148	PC Spreadsheets	1
INFS 215	Intermediate Computer Programming	4
INFS 377	Electronic Commerce	3
INFS 380	Database Analysis and Design	3
INFS 465	Fundamentals of Data Communication	3
INFS 470	Management Science	3
INFS 482	Systems Analysis and Design	3
MGMT 228	Management Information Systems	4
MGMT 350	Project Management	3
MGMT 361	Management	4
MGMT 491	Strategic Management	3
MKTG 351	Marketing	4
STAT 222	Introduction to Statistics	4

*At least one of the following courses:* 4-5

MATH 106	College Algebra (4)
MATH 130	Precalculus (5)
MATH 131	Calculus I (4)

*At least 2 of the following courses:* 6

ACCT 322	Cost Accounting II (3)
BUAD 325	Business Law (3)
MGMT 457	International Business (3)
MGMT 465	Organizational Behavior (3)
MGMT 466	Business and Society (3)
MGMT 472	Human Resources Management (3)
MGMT 481	Operations Management (3)
STAT 322	Statistical Methods (3)

**Major in Management for Medical Professionals, B.S.**

*A minimum of 94 hours (31 upper-division hours)*

► **Required Core Courses (52 hours):**

ACCT 121+122	Financial Accounting I, II	3+4
ACCT 123	Managerial Accounting	3
BUAD 118	Personal Money Management	3
BUAD 325	Business Law I	3
BUAD 370	Healthcare Law	3
ECON 265	Microeconomics	4
ECON 270	Healthcare Economics	3
FIN 341	Finance	5
INFS 148	PC Spreadsheets	1
MGMT 361	Management	4
MGMT 370	Healthcare Management	3
MGMT 481	Operations Management	3
MGMT 491	Strategic Management	3
MKTG 351	Marketing	4
MKTG 417	Services Marketing	3

► **Required Cognate Courses (42 hours):**

*At least 42 hours from the following:* 42

BIOL 101+02	Anatomy & Physiology (5+5)
BIOL 111+12+13	Biological Foundations (5+5+5)
CHEM 111+12+13	General Chemistry (5+5+5)
CHEM 371+72+73	Organic Chemistry (4+4+4)
CHEM 481+82	Biochemistry (4+4)
MATH 131+32	Calculus I + II (4+4)
MICR 134	General Microbiology (5)
PHYS 111+12+13	General Physics (4+4+4)
PHYS 211+12+13	Physics with Calculus (4+4+4)

**Minor in Business Administration**

*A minimum of 30 hours (9 upper-division hours)*

► **Required Courses (18 hours):**

ACCT 121	Financial Accounting I	3
ACCT 122	Financial Accounting II	4
ACCT 123	Managerial Accounting	3
ECON 261	Macroeconomics	4
ECON 265	Microeconomics	4

► **Required Electives (12 hours):**

*At least 12 hours (9 upper-division) from the following:* 12

Additional ACCT, BUAD, ECON, FIN, INFS, MGMT, and MKTG courses.

# Business Administration & Economics

## Accounting

### LOWER-DIVISION COURSES:

#### **ACCT 121** **3 F, W** **Financial Accounting I**

Accounting practices and procedures needed in various types of ownership entities for financial reporting. No prior accounting knowledge necessary.

#### **ACCT 122** **4 W, S** **Financial Accounting II**

A continuation of ACCT 121 with particular emphasis on the partnership and the corporate form of organization; income statement and balance sheet analysis. Three lectures and one laboratory per week. Prerequisite: ACCT 121 with a grade of C- or higher.

#### **ACCT 123** **3 S** **Managerial Accounting**

Use of accounting data for managerial planning, control, and decision-making. Particular emphasis on entities which produce a product. Prerequisite: ACCT 121 & 122 with a grade of C- or higher, INFS 148.

### UPPER-DIVISION COURSES:

#### **ACCT 307** **3 W** **Government and Nonprofit Accounting**

Accounting principles and practices unique to state and local units, educational, health care, charity, religious, and other not-for-profit organizations. Financial reporting and record keeping. Prerequisite: ACCT 121, 122. Even years.

#### **ACCT 311+312+313** **3+3+3 F+W+S** **Intermediate Accounting I, II, III**

Accounting theory and practice relating to the valuation and presentation of assets, liabilities, net worth, revenue, and

expense accounts. Prerequisites: ACCT 121, 122.

#### **ACCT 321** **3 F** **Cost Accounting I**

Key concepts of cost planning and control. Includes c-v-p analysis, job costing, activity-based costing, budgeting and variances, cost behavior, strategic decision-making, and pricing. Prerequisites: ACCT 121, 122, 123.

#### **ACCT 322** **3 W** **Cost Accounting II**

Key concepts of cost planning and control. Includes balanced scorecard, cost allocation, joint products, process costing, inventory, capital budgeting, transfer pricing, and performance measurement. Prerequisite: ACCT 121, 122, 123.

#### **ACCT 341** **4 W** **Individual Taxation**

Federal income taxation and tax planning for individuals. Designed for non-majors as well as for business majors and minors.

#### **ACCT 343** **4 S** **Business Taxation**

Federal taxation and tax planning in relationship to corporations and partnerships.

#### **ACCT 345** **3 F** **Estate Planning, Gifts and Trust Taxation**

Federal taxation and tax planning for gifts, estates, and trusts. Odd years.

#### **ACCT 391** **2 S** **Accounting Systems in Small Businesses**

Starting a business and setting up and maintaining accounting records for a small business. Taxation of small businesses is emphasized. Small business

accounting software (QuickBooks) is utilized. Prerequisites: ACCT 121, 122.

#### **ACCT 451** **3 S** **Advanced Accounting**

Specialized topics including partnerships, branches, consolidated statements, segment reporting. Recommended prerequisites: ACCT 311+312. Odd years.

#### **ACCT 453** **5 W** **Auditing**

The independent auditor's functions; pronouncements of the American Institute of Certified Public Accountants. Four lectures and one laboratory per week. Prerequisites: ACCT 311+312+313; STAT 222.

#### **ACCT 495** **1-3 Arranged** **Independent Study**

Designed for students qualified to undertake an advanced and independent project. The project must be approved by the chair of the department. Repeatable to a maximum of 3 credits.

## Business Administration

### LOWER-DIVISION COURSES:

#### **BUAD 118** **3 F, W, S** **Personal Money Management**

Financial decisions facing individuals in society, including installment buying and borrowing, insurance, home ownership, saving, budgeting expenditures, investments, and trusts. Credit may not be earned in BUAD 118 after FIN 419 is taken.

#### **BUAD 223** **2 F, S** **Personal Law**

Topics include dealing with an attorney, the court systems, crimes, torts, minors and the law, consumer law, land-lord/tenant relationships, the

legal responsibilities of owning a motor vehicle, employment relationships, and planning an estate. Not available to business majors for business credit during the junior or senior year.

**BUAD 279** **3 S**  
**Business Communication and Data Presentation**

Integrates presentation software with written and oral techniques for ethical communication in the business setting. Emphasis on effective presentation of a variety of documents. Prerequisites: ENGL 102, COMM 105, INFS 147.

**BUAD 290** **1 F**  
**Seminar in Business**

Career identification and selection. Preparation of students for successful internships and organizational onboarding.

UPPER-DIVISION COURSES:

**BUAD 325** **3 F**  
**Business Law I**

A study of the legal system, with emphasis on common-law contracts, sales under Article II of the Uniform Commercial Code and negotiable instruments.

**BUAD 326** **3 W**  
**Business Law II**

The legal system in the United States, emphasizing agency relationships, business entities, government regulation and property.

**BUAD 329** **3 S**  
**Fraud Examination**

The principles of fraud detection and deterrence. Topics include the nature of fraud and the types of people who commit fraud, fraud investigation and types of fraudulent schemes, including a discussion of skimming, cash larceny, check tampering, register disbursement schemes, billing schemes, payroll and

expense reimbursement schemes, non-cash misappropriations, corruption, and fraudulent financial statements. Odd years.

**BUAD 335** **4 F**  
**Real Estate**

The various aspects of real-estate principles, practices, and ownership. Preparation for the California licensing examination. Designed for the general student.

**BUAD 370** **3 S**  
**Healthcare Law**

The legal framework surrounding the administration of healthcare and its impact on the practitioner, the administrator, and the patient. Prerequisite: BUAD 325.

**BUAD 371** **3 F**  
**Insurance and Risk Management**

Recognition and evaluation of property, liability, and personal insurable risks facing a business firm, family, or other economic unit. Basic tools of risk management, loss prevention, selecting and dealing with an insurer and fire, marine, casualty, liability, life, and health insurance. Odd years.

**BUAD 493** **1-3 Arranged**  
**Special Topics**

An enrichment course treating specific topics not normally covered in the department's regular offerings. A specific title is given to the course when it is taught. Repeatable for credit under different titles.

**BUAD 494** **1 F, W, S**  
**Internship**

Contract arrangement between student, faculty, and a cooperating organization or business that provides practical experience to tie in with the student's major. Repeatable to a maximum of 2 credits towards a business major. Pre-

requisite: Permission of the instructor. Graded S/F.

**BUAD 495** **1-3 Arranged**  
**Independent Study**

Designed for students who are qualified to undertake an advanced and independent project. The project must be approved by the chair of the department. Repeatable to a maximum of 3 credits.

## Economics

LOWER-DIVISION COURSES:

**ECON 261** **4 F, S**  
**Macroeconomics**

An analysis of the structure and functioning of the economy in the United States. Concepts and tools of economics are used to study how decisions of individuals, businesses, and governments relate to growth, income, employment, and inflation.

**ECON 265** **4 W, S**  
**Microeconomics**

An economic analysis of the workings of the market system in the United States. The factors that determine prices, costs, elasticity, utility, demand, supply, and the factors of production (land, labor, capital) when monopoly and pure competition exist and when conditions between these two models of competition exist.

**ECON 270** **3 S**  
**Healthcare Economics**

An analysis of the unique characteristics of the economics of the health care industry in the United States. Emphasis on managed care dynamics, including the role of third-party sources of payment, as well as the economics of information, including moral hazard and adverse selection problems.

# Business Administration & Economics

## UPPER-DIVISION COURSES:

### **ECON 371** **4 W** **Money, Banking and Capital Markets**

Money and the way it affects and is affected by central and commercial banking. Emphasis on the monetary policy of the Federal Reserve System. Evolution, structure, role, regulation and management of financial institutions in the U.S. economy. Prerequisite: ECON 261. Odd years.

### **ECON 457** **3 F** **International Economics**

Theory and principles of international trade and monetary and fiscal policies. Topics include comparative advantage, standard theory, H-O theory, imperfect competition, tariff and nontariff barriers, protectionism, and economic integration. Prerequisites: ECON 261, 265. Even years.

### **ECON 495** **1-3 Arranged** **Independent Study**

Designed for students who are qualified to undertake an advanced and independent project. The project must be approved by the chair of the department. Repeatable to a maximum of 3 credits.

## Finance

## UPPER-DIVISION COURSES:

### **FIN 341** **5 F** **Finance**

Financial policies of corporations in the management of assets, liabilities, and owners' equity. Major topics include risk and return, time value of money, present value, capital budgeting, cost of capital, valuation, leverage, long-term financing, and working capital management. Prerequisites: ACCT 121, 122, 123; INFS 148; STAT 222.

### **FIN 419** **3 W** **Personal Financial Planning**

Introduction to personal financial planning and its role in the financial services industry. Emphasis on developing, implementing, and monitoring personal financial plans. Odd years.

### **FIN 436** **3 W** **Real Estate Finance**

Principles and methods of investing and financing in real estate. Sources of funds, qualifications of investors, property analysis, and settlement procedures. Prerequisites: ECON 261. Odd years.

### **FIN 444** **3 S** **Investments**

Investment alternatives and the development of rational objectives and investment philosophies. Topics include risks, returns, evaluation concepts, technical approaches, portfolio development, the efficient market hypothesis, and decisions relating to different types of investments. Recommended prerequisite: FIN 341. Even years.

### **FIN 457** **3 S** **International Finance**

Financial management in the international environment. Includes coverage of the IMS, foreign exchange, futures and options markets, managing exposure, banking, direct foreign investment, political risk, import/export operations, and working capital management. Recommended prerequisite: FIN 341. Odd years.

### **FIN 463** **3 W** **Financial Planning and Forecasting**

Planning and forecasting in financial management for business, government, and nonprofit organizations. Construction, analysis, and interpretation of financial plans. Prerequisite: FIN 341. Even years.

### **FIN 488** **3 W** **Problems in Finance**

Study and discussion of selected topics in finance through readings and case studies. Topics include working capital management, capital budgeting, financing decisions, dividend policy, cost of capital, and capital structure decisions. Prerequisite: FIN 341. Even years.

### **FIN 495** **1-3 Arranged** **Independent Study**

Designed for students qualified to undertake an advanced and independent project. The project must be approved by the chair of the department. Repeatable to a maximum of 3 credits.

## Information Systems

## LOWER-DIVISION COURSES:

### **INFS 115** **4 F** **Introduction to Computer Programming**

Introduction to the principles necessary for writing clear, well-designed and efficient computer programs. Three lectures and one laboratory per week. No prerequisites, but a knowledge of basic algebra (MATH 095-096) is assumed.

### **INFS 147** **1 F, S** **PC Word Processing**

Applications designed to increase knowledge of word processing concepts and working skills with the Microsoft Suite software.

### **INFS 148** **1 F, S** **PC Spreadsheets**

Class/laboratory instruction in Microsoft Excel software for microcomputers, combining an electronic spreadsheet with graphics and a database system. Creating and modifying worksheets, graphs and macros.

**INFS 215** **4 W**  
**Intermediate Computer Programming**

Development of the competencies necessary for writing clear, well-designed and efficient computer programs. Three lectures and one laboratory per week. Prerequisite: INFS 115. Even years.

UPPER-DIVISION COURSES:

**INFS 377** **3 F**  
**Electronic Commerce**

Tools and technologies needed for participating in electronic commerce. Business opportunities, challenges, and strategies for leveraging the emerging national and global information infrastructure. Security, privacy, ethics, and business practices. Odd years.

**INFS 380** **3 W**  
**Database Analysis and Design**

Analysis and design of databases for business. File systems, database management functions, hierarchical, network, relational, and object-oriented data models. Normalization, SQL queries, entity-relationship diagramming. Issues in distributed databases and simultaneous access. Use of Corporate DBMS software. Prerequisite: MGMT 228. Even years.

**INFS 465** **3 F**  
**Fundamentals of Data Communication**

Various methods of data communication: networking, telephony, communications hardware and software. Even years.

**INFS 470** **3 S**  
**Management Science**

Formal modeling approaches in managerial decision-making. Topics include linear programming, integer programming, decision-making under uncertainty, utility theory, queuing theory,

Markov processes, network diagrams, and inventory models. Prerequisites: MATH 106, 130, or 131. Odd years.

**INFS 482** **3 S**  
**Systems Analysis and Design**

Concepts, skills, methodologies, techniques, tools, and perspectives essential for systems analysts to successfully develop information systems. Even years.

**INFS 495** **1-3 Arranged**  
**Independent Study**

Designed for students who are qualified to undertake an advanced and independent project. The project must be approved by the chair of the department. Repeatable to a maximum of 3 credits.

## Management

LOWER-DIVISION COURSES:

**MGMT 160** **3 W**  
**Small Business Management**

Managerial considerations in owning and operating a small business. Not applicable toward a baccalaureate major or minor in the department.

**MGMT 228** **4 S**  
**Management Information Systems**

Basic concepts of using information systems in organizations; the role of data processing; fundamental design considerations. Odd years.

**MGMT 261** **3 S**  
**Introduction to Management**

Introduction to management in profit and nonprofit institutions. Emphasis on the role of the manager. Not applicable toward a baccalaureate major or minor in the department.

UPPER-DIVISION COURSES:

**MGMT 334** **3 S**  
**Entrepreneurship**

A survey of what it takes to start and operate a business. Legal, managerial, accounting, marketing and financial aspects of getting a business up and running. Development of a business plan for startup.

**MGMT 350** **3 W**  
**Project Management**

Comprehensive approach to project management tools and applications. Includes planning, scheduling, budgeting, estimating, controlling, and monitoring projects. Also includes resource allocation, resource loading, CPM, CMM, GANTT, and PERT. All students will engage in completing a real world strategic or operational project for an organization. Odd years.

**MGMT 361** **4 F, S**  
**Management**

The basic concepts and theory of management with particular emphasis on planning, organizing, leading, and controlling. Prerequisite: MATH 106, 130, or 131.

**MGMT 370** **3 W**  
**Healthcare Management**

Foundations of healthcare administration. Introduction to the US healthcare system and its structure, functions, trends, and issues. Prerequisite: MGMT 361.

**MGMT 457** **3 S**  
**International Business**

An analysis of problems encountered in operating businesses across national boundaries. Odd years.

**MGMT 465** **3 W**

**Organizational Behavior**

Emphasis on the human aspects in organizations, including motivation, power, job enrichment, interpersonal and intergroup processes and relationships, perception, leadership, and organizational change and design.

**MGMT 466** **3 F**

**Business and Society**

The environmental setting of business and its interdependence with other elements of the social order. An assessment of business involvement in urban, community, consumer, and environmental affairs.

**MGMT 472** **3 F**

**Human Resources Management**

Contemporary objectives and problems relating to personnel management in organizations. Recruitment, selection, performance appraisal, training and development, supervision, compensation, pensions, grievances, and disciplinary actions. Odd years.

**MGMT 481** **3 F**

**Operations Management**

Optimal approaches to the production of goods and services. Planning, scheduling, plant layout, production standards, quality, and cost controls. Prerequisite: STAT 222.

**MGMT 491** **3 S**

**Strategic Management**

A capstone course integrating various functional areas of business and applying this knowledge to a study of business and institutional problems primarily through the case method. Should be taken during the senior year. Prerequisites: FIN 341; STAT 222; MGMT 361; MKTG 351.

**MGMT 495** **1-3 Arranged**

**Independent Study**

Designed for students qualified to undertake an advanced and independent project. The project must be approved by the chair of the department. Repeatable to a maximum of 3 credits.

**Marketing**

UPPER-DIVISION COURSES:

**MKTG 351** **4 F, S**

**Marketing**

Marketing institutions and marketing decisions in relationship to the achievement of institutional goals. Management issues relating to product, price, promotion, and distribution; effects of marketing decisions on the environment and of the environment on marketing decisions.

**MKTG 360** **3 W**

**Consumer Behavior**

The application of research findings and concepts from such academic disciplines as psychology, anthropology, sociology, economics, and marketing to consumer buying behavior. Even years.

**MKTG 371** **3 S**

**Marketing Research**

Introduction to basic research concepts and techniques useful for determining information needs, conducting research, and making appropriate reports of research findings. Prerequisite: STAT 222. Odd years.

**MKTG 372** **3 S**

**Retailing Management**

The structure and environment in which retailing management occurs. Areas of special emphasis include operation of stores, merchandise decisions, layout, pricing, and promotion decisions. Even years.

**MKTG 374** **3 F**

**Advertising**

The advertising function in profit and nonprofit enterprises from management's point of view. The purpose of advertising, media planning, budgeting for advertising, and an evaluation of the effectiveness of advertising.

**MKTG 377** **3 W**

**Sales Management**

The role of the sales manager in planning, organizing, developing, directing, controlling, and evaluating the sales force. Personal selling is also emphasized. Odd years.

**MKTG 417** **3 W**

**Services Marketing**

Application of marketing concepts and principles in service and nonprofit institutions. Identification and study of various constraints, clients, and publics; the special requirements, needs, and desires of those associated with and affected by the organization. Prerequisite: MKTG 351.

**MKTG 481** **3 W**

**Marketing Problems**

Selected areas in marketing, illustrating practical solutions to situations likely to confront marketing managers. Emphasis on developing an understanding of marketing problems and developing approaches to effective decision-making in marketing. Should be taken during the senior year. Prerequisite: MKTG 351.

**MKTG 495** **1-3 Arranged**

**Independent Study**

Designed for students qualified to undertake an advanced and independent project. The project must be approved by the chair of the department. Repeatable to a maximum of 3 credits.



## Faculty

*Kent Davis, chair; Pablo Hilario, Denise Lee-Haye, Marie Pak, Robert Wilson*

*Departmental Office: 355 Chan Shun Hall; 965-7597*

## Degrees and Programs

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The *Chemistry Department* serves students with a primary interest in chemical science as well as students in other fields for which chemistry is an important foundation. The department has the following objectives:

- To give a thorough grounding in the principles of chemistry, both in theory and in practical experience with instrumentation currently in use.
- To help the student develop problem-solving abilities through a careful analysis of problems and the application of chemical principles.
- To provide an atmosphere where Christian values are integrated into the learning experience.

The department offers several degree options. For students intending to enter a graduate chemistry program or directly enter the profession, both the B.S. in Chemistry and the B.S. in Biochemistry are suitable programs. Students who intend to enter a professional program in one of the medical sciences will find the B.S. in Biochemistry provides a very good preparation. Students are encouraged to work closely with their major advisor to select suitable electives regardless of their career choice. Students whose interests include the liberal arts and languages as well as chemistry may choose the B.A. in Chemistry.

## Major in Chemistry, B.S.

*A minimum of 93 hours (48 upper-division hours)*

### ► Required Core Courses (59 hours):

CHEM 111+112+113	General Chemistry	5+5+5
CHEM 225	Chemical Modeling	2
CHEM 324+L	Analytical Chemistry I + Lab	3+1
CHEM 325+L	Analytical Chemistry II + Lab	3+1
CHEM 371+372+373	Organic Chemistry	4+4+4
CHEM 396	Science Seminar	.5
CHEM 397	Chemistry Seminar	.5
CHEM 414	Inorganic Chemistry	3
CHEM 450L	Physical Chemistry Lab	1
CHEM 451	Thermodynamics	3
CHEM 452	Kinetics	3
CHEM 453	Quantum Chemistry	3
CHEM 481	Biochemistry I	4
CHEM 490+L	Senior Capstone + Lab	1+1
CHEM 499	Independent Research (2 qtrs)	1+1

### ► Required Core Electives (6 hours):

*At least 6 hours from the following:* 6  
Additional upper-division CHEM courses

### ► Required Cognate Courses (28 hours):

MATH 131+132+133	Calculus	4+4+4
<i>One of the following sequences:</i> 4+4+4		
PHYS 111+112+113	General Physics (4+4+4)	
PHYS 211+212+213	Physics with Calculus (4+4+4)	

*At least one of the following courses:* 4

MATH 265	Elementary Linear Algebra (4)
MATH 267	Multivariable Calculus (4)
MATH 269	Elementary Differential Equations (4)
MATH 375	Numerical Analysis (4)

### Recommended Cognate Courses:

INFS 115	Intro. to Computer Programming (4)
PHYS 314	Elementary Modern Physics (4)

# Chemistry

## Major in Chemistry, B.A.

A minimum of 68 hours (33 upper-division hours)

### > Required Core Courses (48-49 hours):

CHEM 111+112+113	General Chemistry	5+5+5
CHEM 324+L	Analytical Chemistry I + Lab	3+1
CHEM 325	Analytical Chemistry II	3
CHEM 371+372+373	Organic Chemistry	4+4+4
CHEM 396	Science Seminar	.5
CHEM 397	Chemistry Seminar	.5
CHEM 414	Inorganic Chemistry	3
CHEM 451	Thermodynamics	3
CHEM 452	Kinetics	3
CHEM 490+L	Senior Capstone + Lab	1+1

At least two of the following courses:

CHEM 325L	Analytical Chemistry II Lab (1)	2-3
CHEM 450L	Physical Chemistry Lab (1)	
CHEM 482L	Biochemistry II Lab (1)	
CHEM 483L	Biochemistry III Lab (2)	

### > Required Cognate Courses (20 hours):

MATH 131+132	Calculus I+ II	4+4
PHYS 111+112+113	General Physics	4+4+4

Recommended Cognate Courses:

INFS 115	Intro. to Computer Programming (4)	
MATH 133	Calculus III (4)	
PHYS 314	Elementary Modern Physics (4)	

## Major in Biochemistry, B.S.

A minimum of 104 hours (54 upper-division hours)

### > Required Core Courses (59 hours):

CHEM 111+112+113	General Chemistry	5+5+5
CHEM 324 +L	Analytical Chemistry I + Lab	3+1
CHEM 325 +L	Analytical Chemistry II + Lab	3+1
CHEM 371+372+373	Organic Chemistry	4+4+4
CHEM 396	Science Seminar	.5
CHEM 397	Chemistry Seminar	.5
CHEM 450L	Physical Chemistry Lab	1
CHEM 451	Thermodynamics	3
CHEM 452	Kinetics	3
CHEM 481	Biochemistry I	4
CHEM 482	Biochemistry II	4
CHEM 482L	Biochemistry II Lab	1
CHEM 483	Biochemistry III	3
CHEM 483L	Biochemistry III Lab	2
CHEM 490+L	Senior Capstone + Lab	1+1

### > Required Core Electives (6 hours):

At least 6 hours from the following: 6  
Additional upper-division CHEM courses

### > Required Cognate Courses (39 hours):

BIOL 111+112+113	Biological Foundations	5+5+5
MATH 131+132	Calculus	4+4
PHYS 111+112+113	General Physics	4+4+4

At least one of the following courses: 4

BIOL 320	Cell & Molecular Biology (4)	
BIOL 354	Genetics (4)	
BIOL 469	Immunology (4)	

### Pre-medical and pre-dental students:

See advisor for recommended cognates.

## Teaching Credential

Students desiring to enter a program of studies leading to a California teaching credential in science with a concentration in chemistry may take the any of the Chemistry baccalaureate degrees. Students will need to pass the science (chemistry concentration) portion of the CSET exam one quarter prior to doing full-time student teaching. Students are invited to discuss the program with their major advisor in the Chemistry Department.

Those who plan to teach on the secondary level should consult with the credential analyst in the Education Department and should become acquainted with the specific requirements for admission to and successful completion of the Teacher Education Program as outlined in the section entitled "Education" in this catalog.

## Minor in Chemistry

A minimum of 30 hours (15 upper-division hours)

Take at least 30 hours (15 upper-division) chosen from any non-service CHEM courses.

## Chemistry

## SERVICE COURSES:

(Not applicable to a major or minor in this department)

**CHEM 101 4 F**  
**Introductory Chemistry**

An elementary introduction to fundamental principles of chemistry. Primarily for students preparing to enter an allied health or related field or to enroll in CHEM 102 and 111. Three lectures and one laboratory per week. Prerequisite: High school Algebra I or MATH 095.

**CHEM 102 4 W**  
**Survey of Organic Chemistry**

The important classes of organic compounds. Emphasis is given to topics related to the health sciences and biochemistry. Three lectures and one laboratory per week. Prerequisite: Secondary-school chemistry or CHEM 101.

**CHEM 103 4 S**  
**Survey of Biochemistry**

The chemistry of living organisms emphasizing the normal processes occurring in the human body. Three lectures and one laboratory per week. Prerequisite: CHEM 102.

## LOWER-DIVISION COURSES:

**CHEM 111+112+113 5+5+5 F+W+S**  
**General Chemistry I, II, III**

A complete introduction to the fundamental principles of chemistry. Includes the following topics: atomic and molecular orbital theory, stoichiometry, gas laws, thermodynamics, kinetics, chemical equilibrium, acid-base theory, pH and introductions to nuclear, inorganic, and organic chemistry. Intended for chemistry majors and preprofessional students in medicine, dentistry and other technical fields. Must be taken in sequence. Four

lectures and one laboratory per week. Prerequisites: Algebra II, Integrated Math III, or MATH 096. An ACT Math score of 19 (or SAT Math score of 500) is expected. Secondary school chemistry and physics are highly recommended.

**CHEM 210 1 S**  
**Laboratory Glassblowing**

Introduction to laboratory glassblowing. Includes basic seals, annealing and glass repair. One laboratory per week.

**CHEM 225 2 S**  
**Chemical Modeling**

Introduction to computers in chemistry. Software solutions to mathematically model chemical processes and for modeling chemical structures and reactions will be explored. Prerequisite: CHEM 111.

## UPPER-DIVISION COURSES:

**CHEM 324 3 F**  
**Analytical Chemistry I**

The quantitative study of chemical reactions occurring in the aqueous phase, including solubility, acid base equilibria and complex formation. Spectrophotometric methods of analysis. Methods of data recording and manipulation, error analysis and statistical treatment of data are also included. Prerequisite: CHEM 113, STAT 222.

**CHEM 324L 1 F**  
**Analytical Chemistry I Laboratory**

A series of laboratory experiments to determine unknown quantities of selected chemical substances. Three hours laboratory per week. Prerequisite or corequisite: CHEM 324.

**CHEM 325 3 W**  
**Analytical Chemistry II**

The theoretical basis of chemical analysis using electrochemical, mass spectrometry, and chromatographic methods. Introduction to principles of operation of

current analytical instrumentation. Prerequisite: CHEM 324L. Strongly recommended corequisite: CHEM 325L.

**CHEM 325L 1 W**  
**Analytical Chemistry II Laboratory**

A series of laboratory experiments in electrochemistry and chemical separations. Pre or corequisite: CHEM 325.

**CHEM 344 3 S**  
**Nuclear Physics and Chemistry**

Radioactivity, properties of radioactive nuclei, nuclear structure, nuclear reactions, and nuclear fission with applications to the cosmos. Prerequisites: CHEM 113, MATH 132, PHYS 113.

**CHEM 371+372+373 4+4+4 F+W+S**  
**Organic Chemistry I, II, III**

The physical and chemical properties of compounds of carbon. A mechanistic approach to the study of organic reactions with an emphasis on spectroscopic methods of analysis. Must be taken in sequence. Three lectures and one laboratory per week. Prerequisite: CHEM 113.

**CHEM 396 .5 W**  
**Science Seminar**

(See also BIOL 396, ENVR 396)

Discussions of career options for scientists and skills needed for obtaining a job or success at the next level of education. Topics of scientific interest presented by guest lecturers. Prerequisite: CHEM 373. Graded S/F.

**CHEM 397 .5 S**  
**Chemistry Seminar**

Introduction to chemical literature searching, the anatomy of a scientific paper, and critiques of scientific communication. Also includes talks on current topics in science. Prerequisite: CHEM 373. Graded S/F.

# Chemistry

## **CHEM 414** **3 S** **Inorganic Chemistry**

A systematic study of inorganic chemistry with emphasis on chemical theory and bonding, the descriptive chemistry of the elements, and transition-metal chemistry. Prerequisite: CHEM 113. Even years.

## **CHEM 450L** **1 W, S** **Physical Chemistry Laboratory**

Laboratory activities exploring aspects of thermodynamics, kinetics, quantum chemistry, and spectroscopy. Prerequisite or corequisite: CHEM 451, 452 or 453

## **CHEM 451** **3 F** **Thermodynamics**

The laws of thermodynamics and their application to chemistry. Prerequisites: CHEM 113, MATH 131, and PHYS 113 or 213.

## **CHEM 452** **3 W** **Kinetics**

Kinetic theory, chemical kinetics, including enzyme kinetics, transport properties. Introduction to the basic ideas of quantum mechanics. Prerequisites: CHEM 113, MATH 132, and PHYS 113 or 213.

## **CHEM 453** **3 S** **Quantum Chemistry**

An introduction to the Schrödinger wave equation with applications to chemical systems and spectroscopy. Prerequisites: CHEM 113, MATH 132, and PHYS 113 or 213.

## **CHEM 474** **3 W** **Organic Theory and Reaction Mechanisms**

A mechanistic approach to the study of selected topics in organic chemistry, such as orbital symmetry, molecular rearrangements, linear free energy relationships, and photochemistry. Prerequisite: CHEM 373. Even years.

## **CHEM 481** **4 F** **Biochemistry I**

Structure-function studies of biomolecules, enzyme kinetics, and bioenergetics. Prerequisite: CHEM 373.

## **CHEM 482** **4 W** **Biochemistry II**

Cellular metabolism of carbohydrates, lipids, and proteins. Signal transduction and hormonal integration of metabolism. Prerequisite: CHEM 481.

## **CHEM 482L** **1 W** **Biochemistry II Lab**

Introduction to experimental methods in nucleic acids; techniques and methodologies in nucleic acid biochemistry. One laboratory per week. Prerequisite: CHEM 481.

## **CHEM 483** **3 S** **Biochemistry III**

Information pathways of DNA, RNA, protein metabolism, and regulation of gene expression. Prerequisite: CHEM 482.

## **CHEM 483L** **2 S** **Biochemistry III Laboratory**

Laboratory discussions and activities introducing the basic experimental techniques of protein biochemistry. One lecture and one laboratory per week. Prerequisite: CHEM 482. *Previously CHEM 484L.*

## **CHEM 485** **3 S** **Topics in Biochemistry**

Study of an advanced topic in biochemistry. Topics may include biophysical chemistry, pharmaceutical chemistry, nucleic acid enzymology, signal transduction, or macromolecular structure and function. Repeatable for credit under different subtitles. Prerequisite: CHEM 482 or BIOL 320.

## **CHEM 486** **3 Arranged** **Topics in Chemistry**

Study of an advanced topic in chemistry. Topics may include advanced organic synthesis or mechanisms, organometallic chemistry, materials chemistry, or statistical thermodynamics. Repeatable for credit under different subtitles. Prerequisite: CHEM 113.

## **CHEM 490** **1 W** **Senior Capstone**

Topics of current interest in chemistry. Under supervision of department faculty, each student prepares and presents a paper on a topic of interest in chemistry. Prerequisite: CHEM 396, 397.

## **CHEM 490L** **1 W** **Capstone Lab**

An integrated laboratory with experiments touching on all the major areas of chemistry. One laboratory per week. Taken concurrently with CHEM 490.

## **CHEM 495** **1-3 Arranged** **Independent Study**

Offers the advanced student opportunity to pursue investigation in a field of special interest under the direction of department faculty.

## **CHEM 499** **1-2 F, W, S** **Independent Research**

An independent research project undertaken with direction from a faculty member. Arrangements should be made before the beginning of the quarter. Repeatable to a maximum of 4 credits in Bachelor of Science curricula.



**Faculty**

Michelle Rai, chair; Rosemary Collins, Tammy McGuire, Lynne Thew

Departmental Office: 327 Irwin Hall; 965-7175

**Degrees and Programs**

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The *Communication Department* serves the communication needs of students in every department, offering instruction in a variety of communication skills and principles that apply in mass media, public presentations, small group, and interpersonal settings. The department provides curricula leading to a variety of communication-related careers, with specific preparation for careers in public relations, journalism, health communication and communication sciences and disorders (speech pathology). Communication courses also provide valuable learning opportunities for those preparing for careers which incorporate public speaking, such as business, law, medicine, pastoral or evangelistic ministry, broadcasting, and others.

**Major in Communication, B.A.**

A minimum of 59 hours (23 upper-division hours)

► **Required Core Courses (32 hours):**

COMM 105	Introduction to Communication*	3
COMM 223	Interpersonal Communication*	3
COMM 226	Public Speaking	3
COMM 328	Small Group Communication	3
COMM 330	Intercultural Communication	3
COMM 360	Junior Seminar	1
COMM 424	Communication Research I	3
COMM 425	Communication Research II	3
COMM 450	Senior Seminar	1
JOUR 110	Foundations of Journalism	3
JOUR 144	Copywriting	3
JOUR 244	Copyediting	3

► **Required Major Courses (12 hours):**

COMM 225	Oral Interpretation	3
COMM 329	Organizational Communication	3
COMM 494	Communication Internship	3

At least one of the following courses:

COMM 426	Argumentation (3)	3
COMM 427	Persuasive Communication (3)	3

► **Required Major Electives (15 hours):**

At least 6 hours from the following: 6  
Additional COMM courses

At least 3 hours from the following: 3  
PREL courses

At least 6 hours from the following: 6  
Additional COMM, PREL, or JOUR courses. ARTD 253 and DRMA 229 may also apply.

# Communication

## Major in Communication, B.S.

A minimum of 71 hours (23 upper-division hours)

### > Required Core Courses (32 hours):

COMM 105	Introduction to Communication	3
COMM 223	Interpersonal Communication*	3
COMM 226	Public Speaking	3
COMM 328	Small Group Communication	3
COMM 330	Intercultural Communication	3
COMM 360	Junior Seminar	1
COMM 424	Communication Research I	3
COMM 425	Communication Research II	3
COMM 450	Senior Seminar	1
JOUR 110	Foundations of Journalism	3
JOUR 144	Copywriting	3
JOUR 244	Copyediting	3

### > Emphases (choose one):

#### 1. Communication Studies Emphasis (39 hours)

##### > Required Emphasis Courses (12 hours):

COMM 225	Oral Interpretation	3
COMM 329	Organizational Communication	3
COMM 494	Communication Internship	3

At least one of the following courses:

COMM 426	Argumentation (3)	3
COMM 427	Persuasive Communication (3)	3

##### > Required Emphasis Electives (27 hours):

At least 9 hours from the following: Additional COMM courses 9

At least 6 hours from the following: PREL courses 6

At least 12 hours from the following: Additional COMM, PREL, or JOUR courses. ARTD 253 and DRMA 229 may also apply. 12

#### 2. Marketing Communications Emphasis (45-46 hours)

##### > Required Emphasis Courses (33 hours):

COMM 329	Organizational Communication	3
JOUR 141	Newswriting and Reporting	3
JOUR 434	Media Communication Ethics	3
PREL 231	Intro to Public Relations	3
PREL 232	Crisis Communications	3
PREL 337	Fundraising for Non-Profits	3
PREL 339	Marketing Communications	3
PREL 345	Social Media Marketing	3
PREL 494	Public Relations Internship	3

At least one of the following courses: 3

COMM 340	Visual Communication & Semiotics (3)	3
COMM 350	Nonverbal Communication (3)	3

At least one of the following courses: 3

COMM 426	Argumentation (3)	3
COMM 427	Persuasive Communication (3)	3

##### > Required Cognate Courses (12-13 hours):

ARTD 253	Publication Technology	3
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At least three of the following courses: 9-10

MKTG 351	Marketing (4)	3
MKTG 360	Consumer Behavior (3)	3
MKTG 372	Retailing Management (3)	3
MKTG 374	Advertising (3)	3
MKTG 377	Sales Management (3)	3
MKTG 417	Services Marketing (3)	3
MKTG 481	Marketing Problems (3)	3

### Typing Proficiency

Typing skill is essential for an emphasis in marketing communications. If you are deficient in this area, you should work on improving your typing proficiency during your freshman year.

#### 3. Multimedia Journalism Emphasis (42 hours)

##### > Required Emphasis Courses (27 hours):

COMM 329	Organizational Communication	3
JOUR 141	Newswriting and Reporting	3
JOUR 246	Videojournalism: Multimedia Storytelling	3
JOUR 341	Advanced News and Feature Writing	3
JOUR 434	Media Communication Ethics	3
JOUR 494	Journalism Internship	3
PREL 231	Intro to Public Relations	3
PREL 345	Social Media Marketing	3

At least one of the following courses: 3

COMM 340	Visual Communication & Semiotics (3)	3
COMM 350	Nonverbal Communication (3)	3

##### > Required Emphasis Electives (15 hours):

At least 15 hours from the following: 15

Additional COMM, PREL, or JOUR courses selected in consultation with the advisor. ARTD, ARTP, or MDIA courses may also apply.

## Major in Health Communication, B.S.

A minimum of 70 hours (21 upper-division hours)

### ► Required Major Courses (33 hours):

COMM 105	Introduction to Communication*	3
COMM 220	Health Communication	3
COMM 223	Interpersonal Communication*	3
COMM 328	Small Group Communication	3
COMM 329	Organizational Communication	3
COMM 330	Intercultural Communication	3
COMM 424	Communication Research I	3
COMM 425	Communication Research II	3
COMM 440	Health Communication Seminar	3
COMM 493	Health Communication Internship	3
JOUR 144	Copywriting	3

### ► Required Major Electives (15 hours):

At least one course from the following: 2-3

Additional COMM course

At least one course from the following: 2-3

Additional JOUR course

At least one course from the following: 3

Any PREL course

At least 6-8 hours from the following: 6-8

Additional COMM, JOUR, or PREL courses to obtain a total of 15 hours of elective coursework

### ► Required Cognate Courses (22 hours):

At least 22 hours from the following: 22

BIOL 101+02	Anatomy and Physiology (5+5)
BIOL 111+12+13	Biological Foundations (5+5+5)
BIOL 348	Systems Physiology (5)
BIOL 366	Medical Microbiology (5)
BIOL 422	Advanced Human Anatomy (4)
CHEM 111+12+13	General Chemistry (5+5+5)
CHEM 371+72+73	Organic Chemistry (4+4+4)
CHEM 481	Biochemistry (4)
MICR 134	General Microbiology (5)
PHYS 111+12+13	Physics (4+4+4)

### Recommended Cognates

PSYC 121	General Psychology (4)
SOCI 121	Introduction to Sociology(4)
SPAN 105	Spanish for Health Care Professionals (3)

## Communication Sciences

Pacific Union College offers a preprofessional program in Communication Sciences which is affiliated with the School of Allied Health at Loma Linda University. The Communication Sciences faculty at LLU provide regular assistance and counseling to students interested in this program.

The first two years of a baccalaureate degree in Communication Sciences, taken on the Pacific Union College campus, include the following course:

SPPA 164 Introduction to Speech Pathology 4

Approved courses in general education complete the preprofessional curriculum.

## Minor in Communication

A minimum of 24 hours (9 upper-division hours)

### ► Required Courses (9 hours):

COMM 223 Interpersonal Communication 3

COMM 330 Intercultural Communication 3

At least one of the following courses: 3

COMM 225 Oral Interpretation (3)

COMM 226 Public Speaking (3)

### ► Required Electives (15 hours):

At least 15 hours from the following (6 upper-division): 15

Additional COMM, PREL, or JOUR courses. DRMA 229 may also apply.

## Minor in Public Relations/Journalism

A minimum of 24 hours (9 upper-division hours)

### ► Required Courses (12 hours):

JOUR 110 Foundations of Journalism 3

JOUR 141 Newswriting and Reporting 3

JOUR 244 Copyediting 3

PREL 231 Intro to Public Relations 3

### ► Required Electives (12 hours):

At least 12 hours from the following (9 upper-division): 19

Additional PREL or JOUR courses. ARTD 253, ARTP 150, COMM 340, COMM 427, and COMM 450 may also apply.

# Communication

## Communication

### LOWER-DIVISION COURSES:

#### **COMM 105** **3 F, W, S** **Introduction to Communication**

Develops skills in communication, surveys the human communication process, and encourages responsible speaking and listening. Focuses on intrapersonal, interpersonal, small group, and public communication with a specific emphasis on interaction with diverse others in a collaborative setting.

#### **COMM 220** **3 F** **Health Communication**

Overview of the role communication plays in healthcare. Introduction to the ways that body language, gender, culture, and personality effect communication among groups and teams of health-care professionals as well as in patient provider communication. Prerequisite: COMM 105.

#### **COMM 223** **3 F, S** **Interpersonal Communication**

Transactional nature of interpersonal communication, including the roles of both verbal and nonverbal communication, empathic listening, and self-disclosure as means of building trusting relationships and developing rhetorical sensitivities. Prerequisite: COMM 105.

#### **COMM 225** **3 S** **Oral Interpretation**

Skills in reading aloud from prose, poetry, plays, and expository material. Emphasis on developing the ability to create and sustain mood and on learning the various methods of creating meaning through vocal expression.

#### **COMM 226** **3 W** **Public Speaking**

Composing informative and persuasive speeches and delivering them before groups. Focuses on speech organization and individual delivery.

### UPPER-DIVISION COURSES:

#### **COMM 328** **3 F** **Small Group Communication**

Effective use of communication in small groups; analysis of the nature of group productivity, cohesiveness, and leadership; group problem-solving within various contexts. Prerequisite: COMM 105.

#### **COMM 329** **3 W** **Organizational Communication**

Communication problems and variables unique to the organizational environment. Current and traditional theories are reviewed and applied to various communication studies. Prerequisite: junior or senior class standing.

#### **COMM 330** **3 W** **Intercultural Communication**

Variables and effects of both verbal and nonverbal communication between cultures. Practical applications for careers in all communication fields (domestic and international), business, international relations, international relief and development, language-translation, foreign affairs, social work, and education. Prerequisite: COMM 105.

#### **COMM 340** **3 S** **Visual Communication and Semiotics**

The visual, symbolic, classificatory, and meaning-making practices at the heart of all cultural production, consumption, and communication. Even years.

#### **COMM 350** **3 S** **Nonverbal Communication**

An overview of nonverbal codes and their role in communication. Includes the influence of culture and gender on the interpretation of nonverbal language. Introduction to various theoretical constructs that influence the interpretation of nonverbal communication. Odd years.

#### **COMM 360** **1 F** **Junior Seminar**

Step-by-step process of how to find and apply for jobs. Includes exercises such as creating and updating a resume, writing a cover letter, what to look for and how to apply for internships/jobs. Enrollment limited to department majors. Course should be taken during the sophomore or junior year. Prerequisite: sophomore class standing.

#### **COMM 424** **3 F** **Communication Research I**

Planning communication research, designing research instruments, and writing a research plan. Includes overview of ethical issues involved in research. Prerequisites: senior class standing, COMM 328, JOUR 244, and at least 9 additional hours of COMM, JOUR, or PREL courses.

#### **COMM 425** **3 W** **Communication Research II**

Implementing a communication research plan, survey techniques, tabulation procedures, and simple statistical tests. Includes interpreting survey results, as well as writing and presenting research in a professional, ethical, and credible fashion. Prerequisites: senior class standing, COMM 424, STAT 222.

**COMM 426** **3 S**  
**Argumentation**

Logical reasoning, fallacies in reasoning, the structure of arguments, and methods of analyzing and evaluating arguments for critical decision making. Emphasis includes both oral and written arguments. Prerequisite: senior class standing.

**COMM 427** **3 F**  
**Persuasive Communication**

Rhetorical principles of ethical persuasion in public speaking, interpersonal relationships, public relations, and advertising. Development of skills in logical argument, emotive influence, and psychological appeal and in achieving source credibility. Prerequisite: junior or senior class standing. Even years.

**COMM 440** **3 W**  
**Health Communication Seminar**

Exploration, discussion, and review of original research in many areas of health communication. Each student will conduct an extensive review of the research in a specialized area of health communication. Prerequisites: COMM 220, junior or senior class standing..

**COMM 450** **1 F**  
**Senior Seminar in Communication Disciplines**

Capstone course emphasizing professional skills, ethics, creation of portfolio, and career planning.

**COMM 490** **1-3 Arranged**  
**Issues in Communication**

Study of a specific issue in an area of communication such as rhetoric and public address, small group communication, interpersonal communication, intercultural communication, organizational communication, journalism, public relations, and speechwriting. Repeatable for credit under different subtitles.

**COMM 493** **3 F, W, S, Su**  
**Health Communication Internship**

Supervised work experience in a health-communication-related environment. Skills in the practice of communication are used. Enrollment limited to department majors. Advance approval of the department required. May not be taken before the end of the sophomore year. Prerequisites: COMM 105, 220. Qualifies for IP grading. Graded S/F.

**COMM 494** **3 F, W, S, Su**  
**Communication Internship**

Supervised work experience in a communication-related environment. Skills in the practice of communication are used. Enrollment limited to department majors. Advance approval of the department required. May not be taken before the end of the sophomore year. Prerequisites: COMM 105, 226; JOUR 110, 141; PREL 231. Qualifies for IP grading. Graded S/F.

**COMM 495** **1-3 Arranged**  
**Independent Study**

Opportunity for the advanced student to investigate special interests under the direction of departmental faculty.

**Journalism**

LOWER-DIVISION COURSES:

**JOUR 110** **3 F**  
**Foundations of Journalism**

Introduction to journalism and its various platforms, including print, video, online, and broadcast. Emphasis on the role and responsibility of the press in a free society.

**JOUR 141** **3 S**  
**Newswriting and Reporting**

Gathering information and writing news stories for mass-media news audiences.

**JOUR 144** **3 F**  
**Copywriting**

Refining grammar, punctuation, word selection, and organizational writing and editing skills. Focuses on the importance of writing concise, accurate, balanced and bias-free journalistic pieces.

**JOUR 244** **3 W**  
**Copyediting**

An overview of the basic tools and tasks of copyeditors, including rewriting, editing, correcting grammar, using *The Associated Press Stylebook*, creating style sheets, and methods of querying authors. Students learn to edit using conventional marks and symbols, apply the appropriate level of copyediting, eliminate bias, and ensure consistency. Prerequisite: JOUR 144.

**JOUR 246** **3 Arranged**  
**Videojournalism: Multimedia Storytelling**

An introduction to the production process of non-fiction storytelling with a foundation in journalism. Focuses on the unique challenges and ethical issues faced by the non-fiction storyteller when telling “true” stories. Includes a mix of video samples, lecture, discussion, and lab.

UPPER-DIVISION COURSES:

**JOUR 341** **3 W**  
**Advanced News and Feature Writing**

Instruction and experience in advanced reporting and nonfiction writing. Development of article ideas, query letters, writing styles, structure and organization of material, copyright, and databases. Honing of skills as interviewers and observers of daily life. The student is required to submit an article for publication. Prerequisites: JOUR 141, 244. Even years.

## Communication

### **JOUR 350** 1 F, W, S

#### **Campus Chronicle Production**

Supervised experience in the production and publication of PUC's student newspaper, the *Campus Chronicle*. Offered under two subtitles: Print and Video. Pre-requisite: JOUR 141, 244; or permission of the instructor. Graded S/F. May be repeated for credit.

### **JOUR 434** 3 F

#### **Media Communication Ethics**

Current issues involving personal rights and corporate responsibilities as related to concepts of free speech and responsible journalism.

### **JOUR 494** 3 F, W, S, Su

#### **Journalism Internship**

Supervised opportunity for the student to accrue direct experience in a professional journalistic setting as approved by the department. Enrollment restricted to department majors. Prerequisites: JOUR 141, 244; PREL 231, 232; ARTD 253. Qualifies for IP grading. Graded S/F.

### **JOUR 495** 1-3 Arranged

#### **Independent Study**

Offers the advanced student opportunity to pursue investigation in fields of special interest under the direction of departmental faculty.

## Public Relations

LOWER-DIVISION COURSES:

### **PREL 231** 3 W

#### **Introduction to Public Relations**

Fundamental values and procedures of the public relations profession. Research techniques, public relations management, writing, and media relations.

### **PREL 232** 3 S

#### **Crisis Communications**

Applications of public relations to specific publics including employees, multicultural communities, consumers, and government. Management of public relations in crises. Recommended prerequisite: PREL 231.

UPPER-DIVISION COURSES:

### **PREL 337** 3 S

#### **Fundraising for Non-Profits**

Philosophy of philanthropic giving and the techniques that lead to successful fundraising. Creation of a writing portfolio including: case statement, direct mail letter, brochure, and press release. Regular guest presentations from fundraising professionals.

### **PREL 339** 3 W

#### **Marketing Communications**

The media of public relations and their incorporation into an integrated marketing communications plan, including the elements, development, and structuring of the plan.

### **PREL 345** 3 S

#### **Social Media Marketing**

Exploring social media in effective integrated marketing communications. Utilizing the role of the public relations practitioner and the tools needed to represent, support and promote a business through digital channels. Focus on implementing a campaign through social platforms and practicing the technical skills needed to become social media proficient.

### **PREL 494** 3 F, W, S, Su

#### **Public Relations Internship**

Supervised experience in public relations. Under the direction of a public relations professional, the student accrues direct experience in a professional public relations setting as approved by the department. Enrollment restricted to department majors. Prerequisites: JOUR 141, 244; PREL 231, 232; ARTD 253. Qualifies for IP grading. Graded S/F.

### **PREL 495** 1-3 Arranged

#### **Independent Study**

Offers the advanced student opportunity to pursue investigation in a field of special interest under the direction of department faculty.

## Speech Pathology

LOWER-DIVISION COURSE:

### **SPPA 164** 4 S

#### **Introduction to Speech Pathology**

Introduction to speech and language disorders, their etiology and treatment. For students pursuing the preprofessional program in speech pathology and audiology and for those entering professions in education, behavioral science, social welfare, and related fields who may encounter persons with speech disorders.



**Faculty**

*Thomas Lee, chair; Marsha Crow, assistant chair and credential analyst; Jean Buller, Kathleen Jefferson, Charaine Lucas, Jim Roy*

*Departmental Office: 203 Education Building; 965-7265*

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The EDUCATION DEPARTMENT offers a variety of programs:

The Early Childhood Education majors and minor prepare individuals to pursue careers involving work with young children (birth to eight years). The A.S., the B.S., and the minor each meet requirements for different levels of the California Child Development Permit.

The Liberal Studies major is the recommended undergraduate degree for individuals wishing to be elementary teachers.

The first stage of credentialing is the California SB2042 Preliminary Multiple Subject and/or Single Subject Credential. The credential can be earned concurrently with the undergraduate program, as a post-baccalaureate non-degree program, or as a Master of Arts in Teaching (M.A.T.) program. The SDA Basic certificate can be earned concurrently with any of these options.

The second stage of credentialing is the Induction Program. The program is available during the summers for individuals employed in an SDA school as a full-time teacher of record. The Master of Education (M.Ed.) is offered during the summers as well.

The Teacher Education Program is approved by the California Commission on Teacher Credentialing and by the Office of Education, General Conference of Seventh-day Adventists.

**Mission**

The mission of the Education Department is to develop professional and compassionate teachers who have the skills and teaching strategies necessary to create a rigorous and stimulating classroom climate where learning takes place for all students.

**Vision**

As a Seventh-day Adventist institute of higher education, we believe education should restore human beings into the image of God. Our vision is to prepare teacher candidates who can lead their students into saving, transforming relationships with Jesus Christ through the development of the whole child: spiritual, physical, intellectual, and socio-emotional. In so doing, we- will be helping to fulfill the commission of preaching the gospel to all the world.

To achieve our mission to prepare pre-service candidates for a successful teaching career, a career that reflects their commitment to the profession, to children and their families, and to the future, we are committed to inspiring and supporting our candidates to be knowledgeable and skilled in the following elements:

- Intentional friendship: *Candidates will understand the importance of positive relationships between all those involved with student success- students with other students, teachers with students, and teachers with other teachers.*
- Relevant, engaging curriculum leading to competence and mastery: *Candidates will understand how to create relevant learning experiences for students, and evaluate them through effective assessments.*
- Non-coercive, well-managed classrooms: *Candidates will understand how to manage classrooms effectively and to do so without reliance on coercive or manipulative strategies.*
- Applied Christianity: *Candidates will recognize the value of applying the principles of a Christian life within the classroom setting and supporting students as they find their way on their personal Christian journeys.*

## Education

### Child Development Permits/Certificates

The California Child Development Permit is issued by the California Commission on Teacher Credentialing (CCTC) and the SDA Professional Achievement Recognition Certificate is issued by the Pacific Union Conference Department of Education. Both documents are organized into different levels, each authorizing the holder to perform different levels of service in child development programs.

The Early Childhood Education programs at PUC meet the requirements for different levels as follows:

#### A.S. in Early Childhood Education

Meets the requirements for the California Child Development Teacher Permit and the SDA Professional Achievement Recognition Certificate. Appropriate for individuals who plan to teach in early childhood education programs.

#### B.S. in Early Childhood Education

Meets the requirements for the California Child Development Site Supervisor Permit and the SDA Professional Achievement Recognition Certificate. Appropriate for individuals who plan to teach in and direct early childhood education programs. This program may also be combined with the Teacher Education Program to earn a CA Preliminary Multiple Subject Credential and a SDA Basic Elementary certificate.

#### Minor in Early Childhood Education

Meets the requirements for the California Child Development Permit. Appropriate for individuals pursuing careers involving work with young children from birth through eight years old in various fields, such as Education, Nursing, Psychology, Social Work, and others.

### Major in Early Childhood Education, A.S.

*A minimum of 51 hours*

#### ► Required Core Courses (38 hours):

ECED 181	Introduction to Early Childhood Education	3
ECED 184	Health, Safety, and Nutrition	4
ECED 185	Creative Development of the Young Child	3
ECED 189	Constructive Guidance and Management	3
ECED 210	Child Protection and National Standards	2
ECED 215	Observation & Assessment of the Young Child	3
ECED 220	Early Childhood Curriculum	3
ECED 226	Spiritual & Moral Development/Young Child	3
ECED 230	Child, Family, and Community	3
ECED 235	Child Development	3
ECED 240	Infant and Toddler Care I	3
ECED 276	Student Teaching I	5

#### ► Required Cognate Courses (13 hours):

BIOL 227	Natural History of California	4
HLED 166	Health Education	2
PSYC 121	General Psychology	4

#### At least one of the following courses:

COMM 105	Introduction to Communication (3)	3
COMM 226	Public Speaking (3)	

#### ► Additional Requirements:

Valid Red Cross Standard First Aid Certificate  
Valid Basic Life Support Cardiopulmonary Resuscitation course

### Major in Early Childhood Education, B.S.

*A minimum of 92 hours (39 upper-division hours)*

#### ► Required A.S. Courses (51 hours):

All requirements for the A.S. degree as described above

#### ► Required Core Courses (41 hours):

ECED 326	Physical & Social/Emotional Development	3
ECED 340	Infant and Toddler Care II	3
ECED 361+2	Admin & Supervision of ECE Programs I+II	4+5
ECED 370	Math for the Young Child	3
ECED 371	Science for the Young Child	3
ECED 372	Language and Literacy in the Young Child	3
ECED 482	Student Teaching II	3
EDUC 101	Introduction to Teaching	1
EDUC 101L	Classroom Observations	1
EDUC 332+L	Teaching with Technology + Lab	2+1
EDUC 333	Educational Psychology	3
EDUC 336	The Multicultural Classroom	3
EDUC 340	Exceptional Children in the Classroom	3

#### ► Required Cognate Course (3 hours):

ACCT 114	Small Business Accounting	3
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### Minor in Early Childhood Education

*A minimum of 29 hours (6 upper-division hours)*

#### ► Required Core Courses (29 hours):

ECED 181	Introduction to Early Childhood Education	3
ECED 184	Health, Safety, and Nutrition	4
ECED 189	Constructive Guidance and Management	3
ECED 210	Child Protection and National Standards	2
ECED 226	Spiritual & Moral Development/Young Child	3
ECED 235	Child Development	3
ECED 276	Student Teaching I	5
EDUC 336	The Multicultural Classroom	3
EDUC 340	Exceptional Children in the Classroom	3

**Liberal Studies Major, B.S.**

The Liberal Studies major is highly recommended for all individuals seeking elementary level teaching credentials. The coursework in the degree is designed specifically to:

1. Provide a strong content knowledge base in the various subjects taught in the elementary classroom; and
2. Prepare the elementary credential candidate to pass the California Subject Exam for Teachers: Multiple Subjects, passage of which is required for the credential.

*A minimum of 65 hours (26 upper-division hours)*

► **Required Core Courses (65-67 hours):**

**Arts and Humanities\***

ARTD 124+125	Design and Composition I,II	3+3
DRMA 229	Acting I: Fundamentals	3
EDUC 339	ELL Pedagogy	2

**Natural Science and Mathematics\***

ASTR 115	Astronomy	5
BIOL 227	Natural History of California	4
MATH 211+212	Foundations of School Math	3+3

**Social and Behavioral Science\***

HIST 134+135	History of the United States	4+4
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*At least one of the following courses:* 3-4

PSYC 234	Human Development (4)
PSYC 235	Child Development (3)

*At least one of the following courses:* 3

GEOG 210	World Regional Geography (3)
GEOG 220	Geography of the Americas (3)

**Education**

EDUC 101	Introduction to Teaching	1
EDUC 333	Educational Psychology	3
EDUC 340	Exceptional Children in the Classroom	3
EDUC 345	Elementary School Math and Science	4
EDUC 353	Beginning Reading and Writing	4
EDUC 356	Intermediate Reading and Writing	4
EDUC 357	Social Studies and the Arts	3

**Interdisciplinary or Integrative Course** 3-4

PHYS 485	Issues in Science and Religion (3)
PSYC 435	Psychology of Religion (3)
PSYC 490	Issues in Religion, Ethics, & Human Sci. (4)
RELH 360	**Adventist Heritage (4)
SOCI 435	The Sacred and Profane in Society (3)

\* Courses used to satisfy general education requirements may not be used to satisfy requirements in the this area.

\*\* Meets SDA Certification requirement.

► **General-Education Requirements (86-99 hours):**

Students who wish to obtain the Liberal Studies major must complete specific general education courses as follows:

**I. Foundations of Learning (15 hours)**

COMM 105 or 226	Intro to Comm or Public Speaking	3
ENGL 101+102	College English	4+4
STAT 222	Introduction to Statistics	4

**II. Foundations of Faith (18 hours)**

*Eighteen hours of religion:* 18

Complete the religion requirement as described on p. 36-37 of this catalog. Include the following:

REL 205 or 220	Christian Beliefs (3) or SDA Beliefs (3)
RELH 360	Adventist Heritage (4)
6 hours of RELB coursework	

**III. History and Social Sciences (15-16 hours)**

HIST 101+102	History of World Civilizations	4+4
PSYC 121	General Psychology	4
1 additional course from Section III-B: Social Sciences		3-4

**IV. Arts and Humanities (14-15 hours)**

ENGL 301	Themes in Literature	4
MUHL 105 or 245	Survey of Music or World Music	3
PHIL 101	Introduction to Philosophy	4

*One of the following courses:* 3-4

ARTH 107	History of American Art (3)
ARTH 115	History of Western Art I (4)
ARTH 116	History of Western Art II (4)
ARTH 278	History of Women Artists (3)

**V. Science and Mathematics (12-20 hours)**

BIOL 105	Introduction to Biology	5
CHEM 101	Introductory Chemistry	4
GSCI 205	Scientific Discoveries	3

*At least one of the following options:* 0-8

A full year of Algebra II or Integrated Math III with semester grades of C or better from an accredited secondary institution

Approved algebra waiver exam

MATH 095+096	Basic Algebra I+II (4+4)
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**VI. Health and Fitness (8 hours)**

HLED 166	Health Education	2
EDUC 476	Physical Education for Children	3
3 ESAC courses, including 1 aerobics course		1+1+1

**VII. Practical and Applied Arts (4-7 hours)**

EDUC 332+L	Teaching with Technology + Lab	2+1
Select 1 additional course from Section VII: B, C, D, or E.		1-4

## Education

### Teacher Education Program for the Multiple Subject (Elementary) Credential

- Undergraduate program
- Post-baccalaureate non-degree program
- Master of Arts in Teaching (M.A.T.) program

The California SB2042 Preliminary Multiple Subject Teaching Credential can be earned concurrently with the undergraduate program, as a post-baccalaureate non-degree program, or as a Master of Arts in Teaching (M.A.T.) program. Students may also earn the SDA Basic Elementary certificate. Students should consult with the credential analyst to determine the appropriate program for their needs.

#### Prerequisites for Admission to the Credential Program

Candidates must be formally admitted to the credential program before admission to methods courses or field experiences.

##### ► Prerequisites for all applicants

1. Complete EDUC 101- Introduction to Teaching and EDUC 101L- Classroom Observations.
2. Meet the Basic Skills Requirement and submit verification to the Credential Office.
3. Obtain a Certificate of Clearance from the California Commission on Teacher Credentialing to verify criminal record clearance.
4. Submit the complete program application as follows:
  - a) Application form
  - b) Advisor Interview
  - c) Personal Statement
  - d) Recommendation
  - e) Official transcripts for all college work
  - f) Certificate of Clearance (criminal record check)
  - g) Basic Skills verification
  - h) SDA church membership verification (if a SDA member)
5. Complete the admissions interview with the Credential Analyst.

##### ► Additional prerequisites for undergraduate applicants

1. Demonstrate a minimum cumulative GPA of 2.75.
2. Complete the residence requirement: One successful quarter at Pacific Union College or acceptance from another teacher education program.
3. Select a bachelor's degree. It is highly recommended that candidates complete the B.S. in Liberal Studies as this degree prepares the candidate to pass the CSET and gives the subject matter content needed to teach elementary school. *Please note: Program admission by the end of the sophomore year is highly recommended and is required for recipients of the Adventist Mission Scholarship in Education.*

##### ► Additional prerequisites for post-baccalaureate non-degree applicants

1. Demonstrate a minimum cumulative GPA of 2.75.
2. Submit official documentation demonstrating completion of a four-year bachelor's degree from a regionally-accredited institution of higher education.
3. Register for, attempt, or pass the California Subject Exam for Teachers (CSET), Multiple Subjects, Tests 1,2,3.

##### ► Additional prerequisites for M.A.T. applicants

1. Demonstrate a minimum cumulative GPA of 3.0.
2. Submit official documentation demonstrating completion of a four-year bachelor's degree from a regionally-accredited institution of higher education.
3. Pass the California Subject Exam for Teachers (CSET), Multiple Subjects, Tests 1,2,3.

#### Full-Time Student Teaching (EDUC 493/593)

Candidates must meet the following prerequisites prior to participation in the full-time student teaching experience.

1. Obtain acceptance into the credential program.
2. Demonstrate a minimum cumulative GPA of 2.75 (undergraduate and post-baccalaureate non-degree candidates) or 3.0 (M.A.T. candidates).
3. Obtain clearance from vice-president for student life.
4. Pass the CSET-Multiple Subjects, Subtests 1, 2, 3 according to the following timeline:

M.A.T. candidates must pass the CSET prior to program admission.

All other candidates must pass the CSET one full quarter prior to student teaching.
5. Complete the following coursework and field experience requirements: EDUC 339/539, 340/540, 345/545, 353/553, 356/556, 490/590, 491/591, 492/592, 493/593- Math, 493/593- Reading, and Pre-Session Student Teaching.
6. Pass Department Reviews #1 and #2.
7. Receive approval of the California Teacher Performance Expectations (TPEs) Portfolio.
8. Pass the following Teaching Performance Assessments: Subject-Specific Pedagogy, Designing Instruction, and Assessing Learning.

#### Requirements for the Teaching Credential

To be recommended for the California SB2042 Preliminary Multiple Subject Teaching Credential and/or the SDA Basic Elementary certificate, candidates must hold a bachelor's degree from an accredited institution, and have completed satisfactorily all the course work, field work, and examinations required by the professional education program as described on these pages.

## Coursework Requirements Multiple Subject (Elementary) Credential

- Undergraduate program
- Post-baccalaureate non-degree program
- Master of Arts in Teaching (M.A.T.) program

### ► Prerequisite Coursework

EDUC 101	Introduction to Teaching (1)	
EDUC 101L	Classroom Observations (1)	

### ► Basic Core (19 hours)

EDUC 332 or 532	Teaching with Technology	2
EDUC 332L or 532L	Teaching with Technology Lab	1
EDUC 333 or 533	Educational Psychology	3
EDUC 335 or 535	Moral Dimensions of Teaching and Learning	2
EDUC 336 or 536	The Multicultural Classroom	3
EDUC 339 or 539	ELL Pedagogy	2
EDUC 340 or 540	Exceptional Children/Classroom	3
EDUC 477 or 577	Classroom Management	3

### ► Instructional Methods Core (36 hours)

EDUC 345 or 545	Teaching Math and Science in the Elementary School	4
EDUC 353 or 553	Beginning Reading and Writing	4
EDUC 356 or 556	Intermediate Reading and Writing	4
EDUC 357 or 557	Social Studies and the Arts	3
EDUC 476 or 576	PE for Children	3
EDUC 490 or 590	STS: Subject Specific	1
EDUC 491 or 591	STS: Designing Instruction	1
EDUC 492 or 592	STS: Assessing Learning	1
EDUC 493 or 593	Beginning Reading Field Experience	1
EDUC 493 or 593	Math Field Experience	1
Pre-Session Student Teaching (non-credit requirement)		
EDUC 493 or 593	Full-Time Student Teaching	12
EDUC 498 or 598	STS: Culminating Teaching Experience	1

### ► Additional Requirements

- HLED 166 Health Education (2)
- Complete the U.S. Constitution requirement
  - Take HIST 134+135 or PLSC 124 or HIST 356 or pass the constitution examination available in the Credential Office
- Complete an ARC or AHA CPR course (infant/child/adult)
- Pass the CSET- California Subject Exam for Teachers
- Pass the CALTPA- California Teaching Performance Assessment
- Pass the RICA- Reading Instruction Competence Assessment

## Requirements for SDA Certification

To be recommended for the SDA Basic Elementary certificate, candidates must complete the following additional requirements:

- EDUC 368/L or 568/L K-12 Bible & Practicum
- 16 hours of religion coursework, including RELT 205 or 220, RELH 360, and 6 hours of RELB coursework
- Complete a SDA field experience
- Meet the SDA Health Message requirement
- Meet the SDA Philosophy of Education requirement
- Be a baptized member of the SDA church

## Restrictions on Courses Accepted for Transfer for the Credential Requirements

A maximum of one methods course without fieldwork may be taken by correspondence or directed study if approved by the department. Methods courses with fieldwork may not be taken by correspondence or directed study. Methods courses with fieldwork being transferred will require the fieldwork to be completed at Pacific Union College. Requests for transfer credit for core classes will be considered on an individual basis. Contact the Credential Office for more information.

## Credential Coursework at the Graduate Level

The core courses for the credential are offered at both the undergraduate and the graduate level. In order to enroll in the courses offered at the graduate level, a student must have a baccalaureate degree and be admitted to the M.A.T. program. Certain credential courses at the graduate level are differentiated and include increased requirements as compared to the corresponding credential course at the undergraduate level.

## Applying Undergraduate Coursework to the M.A.T.

If students complete required credential coursework at the undergraduate level, only one basic core course may be applied towards the M.A.T. coursework requirements.

Students in the M.A.T. program are not eligible to take the credential coursework at the undergraduate level once they are admitted to the program.

## Requirements for Graduation with the M.A.T.

To receive the M.A.T. with the Multiple-Subject specialization, students must meet the following requirements:

1. Complete the core coursework (55 credits) for the M.A.T.
  - Only one undergraduate course may be applied towards the M.A.T. requirements.
2. Demonstrate a minimum overall graduate GPA of 3.0 with no grade lower than B-.
3. Receive approval of the TPEs Portfolio.

## Education

### Teacher Education Program for the Single Subject (Secondary) Credential

- Undergraduate program
- Post-baccalaureate non-degree program
- Master of Arts in Teaching (M.A.T.) program

The California SB2042 Preliminary Single Subject Teaching Credential can be earned concurrently with the undergraduate program, as a post-baccalaureate non-degree program, or as a Master of Arts in Teaching (M.A.T.) program. Students may also earn the SDA Basic Secondary certificate. Students should consult with the credential analyst to determine the appropriate program for their needs.

#### Prerequisites for Admission to the Credential Program

Candidates must be formally admitted to the credential program before they will be admitted to methods courses or field experiences.

##### ► Prerequisites for all applicants

1. Complete EDUC 101- Introduction to Teaching and EDUC 101L- Classroom Observations.
2. Meet the Basic Skills Requirement and submit verification to the Credential Office.
3. Obtain a Certificate of Clearance from the California Commission on Teacher Credentialing to verify criminal record clearance.
4. Submit the complete program application as follows:
  - a) Application form
  - b) Advisor Interview
  - c) Personal Statement
  - d) Recommendation
  - e) Official transcripts for all college work
  - f) Certificate of Clearance (criminal record check)
  - g) Basic Skills verification
  - h) SDA church membership verification (if a SDA member)
5. Complete the admissions interview with the Credential Analyst.

##### ► Additional prerequisites for undergraduate applicants

1. Demonstrate a minimum cumulative GPA of 2.75.
2. Complete the residence requirement: One successful quarter at Pacific Union College or acceptance from another teacher education program.
3. Select a bachelor's degree in a content area commonly taught at the secondary level. This will prepare the candidate to pass the CSET.

*Please note: Program admission by the end of the sophomore year is highly recommended and is required for recipients of the Adventist Mission Scholarship in Education.*

##### Additional prerequisites for post-baccalaureate non-degree applicants

1. Demonstrate a minimum cumulative GPA of 2.75.
2. Submit official documentation demonstrating completion of a four-year bachelor's degree from a regionally-accredited institution of higher education.
3. Register for, attempt, or pass the California Subject Exam for Teachers (CSET) in the selected content area.

##### ► Additional prerequisites for M.A.T. applicants

1. Submit official documentation demonstrating completion of a four-year bachelor's degree from a regionally-accredited institution of higher education.
2. Demonstrate a minimum cumulative GPA of 3.0.
3. Pass the California Subject Exam for Teachers (CSET) in the selected content area.

### Full-Time Student Teaching (EDUC 494/594)

Candidates must meet the following prerequisites prior to participation in the full-time student teaching experience.

1. Obtain acceptance into the credential program.
2. Demonstrate a minimum cumulative GPA of 2.75 (undergraduate and post-baccalaureate non-degree candidates) or 3.0 (M.A.T. candidates).
3. Obtain clearance from vice-president for student life.
4. Pass the CSET in the selected content area according to the following timeline:

M.A.T. candidates must pass the CSET prior to program admission.

Candidates earning a bachelor's degree in a content area different from the content area of the credential must pass the CSET be passed prior to taking EDUC 361 and the related first field experience.

All other candidates must pass the CSET one full quarter prior to student teaching.
5. Complete the following coursework and field experience requirements: EDUC 339/539, 340/540, 358/548, 361/561, 362/562, 490/590, 491/591, 492/592, 494/594- Middle School, 494/594- High School, and Pre-Session Student Teaching.
6. Pass Department Reviews #1 and #2.
7. Receive approval of the California Teacher Performance Expectations (TPEs) Portfolio.
8. Pass the following Teaching Performance Assessments: Subject-Specific Pedagogy, Designing Instruction, and Assessing Learning.

### Requirements for the Teaching Credential

To be recommended for the California SB2042 Preliminary

Single Subject Teaching Credential and/or the SDA Basic Secondary certificate, candidates must hold a bachelor's degree from an accredited institution, and have completed satisfactorily all the course work, field work, and examinations required by the professional education program as described on these pages.

**Coursework Requirements  
Single Subject (Secondary) Credential**

- Undergraduate program
- Post-baccalaureate non-degree program
- Master of Arts in Teaching (M.A.T.) program

➤ *Prerequisite Coursework*

EDUC 101 Introduction to Teaching (1)  
EDUC 101L Classroom Observations (1)

➤ *Basic Core (19 hours)*

EDUC 332 or 532 Teaching with Technology 2  
EDUC 332L or 532L Teaching with Technology Lab 1  
EDUC 333 or 533 Educational Psychology 3  
EDUC 335 or 535 Moral Dimensions of Teaching and Learning 2  
EDUC 336 or 536 The Multicultural Classroom 3  
EDUC 339 or 539 ELL Pedagogy 2  
EDUC 340 or 540 Exceptional Children/Classroom 3  
EDUC 477 or 577 Classroom Management 3

➤ *Instructional Methods Core (27 hours)*

EDUC 358 or 558 Literacy in the Content Areas 3  
EDUC 361 or 561 Middle School Teaching Strategies 3  
EDUC 362 or 562 Secondary Content Area Teaching Strategies 3  
EDUC 490 or 590 STS: Subject Specific 1  
EDUC 491 or 591 STS: Designing Instruction 1  
EDUC 492 or 592 STS: Assessing Learning 1  
EDUC 494 or 594 Middle School Field Experience 1  
EDUC 494 or 594 High School Field Experience 1  
Pre-Session Student Teaching (non-credit requirement)  
EDUC 494 or 594 Full-Time Student Teaching 12  
EDUC 498 or 598 STS: Culminating Teaching Experience 1

➤ *Additional Requirements*

HLED 166 Health Education (2)  
Complete the U.S. Constitution requirement  
Take HIST 134+135 or PLSC 124 or HIST 356 or pass the constitution examination available in the Credential Office  
Complete an ARC or AHA CPR course (infant/child/adult)  
Pass the CSET- California Subject Exam for Teachers  
Pass the CALTPA- California Teaching Performance Assessment

**Requirements for SDA Certification**

To be recommended for the SDA Basic Secondary certificate, candidates must complete the following additional requirements:

- 16 hours of religion coursework, including RELT 205 or 220, RELH 360, and 6 hours of RELB coursework
- Complete a SDA field experience
- Meet the SDA Health Message requirement
- Meet the SDA Philosophy of Education requirement
- Be a baptized member of the SDA church
- EDUC 368/L or 568/L K-12 Bible & Practicum (recommended but not required )

**Restrictions on Courses Accepted for Transfer for the Credential Requirements**

A maximum of one methods course without fieldwork may be taken by correspondence or directed study if approved by the department. Methods courses with fieldwork may not be taken by correspondence or directed study. Methods courses with fieldwork being transferred will require the fieldwork to be completed at Pacific Union College. Requests for transfer credit for core classes will be considered on an individual basis. Contact the Credential Office for more information.

**Credential Coursework at the Graduate Level**

The core courses for the credential are offered at both the undergraduate and the graduate level. In order to enroll in the courses offered at the graduate level, a student must have a baccalaureate degree and be admitted to the M.A.T. program. Certain credential courses at the graduate level are differentiated and include increased requirements as compared to the corresponding credential course at the undergraduate level.

**Applying Undergraduate Coursework to the M.A.T.**

If students complete required credential coursework at the undergraduate level, only one basic core course may be applied towards the M.A.T. coursework requirements.

Students in the M.A.T. program are not eligible to take the credential coursework at the undergraduate level once they are admitted to the program.

**Requirements for Graduation with the M.A.T.**

To receive the M.A.T. with the Single-Subject specialization, students must meet the following requirements:

1. Complete the core coursework (46 credits) for the M.A.T. Only one undergraduate course may be applied.
2. Demonstrate a minimum overall graduate GPA of 3.0 with no grade lower than B-.
3. Receive approval of the TPEs Portfolio.

## Education

### California Induction Program

A program leading to professional certification is available as a California Induction Program. The program results in both a California SB2042 Clear Credential and a Seventh-day Adventist Professional Teaching Certificate.

#### Prerequisites for the Induction Program

Applicants must meet the following prerequisites before being considered for admission to the Induction Program:

1. Hold a bachelor's degree from an accredited institution
2. Hold a California Preliminary SB2042 teaching credential and an SDA Basic or SDA Standard teaching certificate
3. Verify full-time employment in a SDA school where a California Induction program is unavailable
4. Submit Verification of Unavailability of Induction (CL-855)
5. Submit a Participation Agreement from employers.
6. Have a minimum cumulative GPA of 2.75
7. Submit an application for program admission.
8. Submit two satisfactory professional recommendations.

Further information regarding the Induction Program can be obtained from the Credential Analyst.

### The M.A.T. and the M.Ed.

The Pacific Union College Education Department offers two distinct masters degrees, the M.A.T. and the M.Ed.

The M.A.T. (Master of Arts in Teaching) is for the post-baccalaureate student who has not earned a preliminary teaching credential. The program is designed for full-time enrollment during the academic year and is focused on the practice of the teaching profession. As a professional degree, the M.A.T. does not provide a foundation for further graduate study.

The M.Ed. (Master of Education) is for the post-baccalaureate student who has earned a preliminary teaching credential and is employed as a teacher. The program is designed for part-time enrollment during the summer and combines professional practice with scholarly research. As a research degree, the M.Ed. provides a foundation for further graduate study, if desired.

### Master of Education Degree, M.Ed.

This degree meets the requirements for the SDA Professional Credential and may be combined with the California Induction Program if desired. The program is designed for part-time enrollment during the summers and is completed over a period of several years.

#### Admission to the Master of Education Degree Program

All potential students, including former Pacific Union Col-

lege students, must apply for admission both to the college and to the M.Ed. program.

The application will be considered once official postsecondary transcripts and other requested materials have been filed with the Education Department. Upon review of the application, the department will notify the applicant of the action taken.

Admission is determined by the Education Department faculty on the basis of credentials held, recommendations, former academic performance, and background. The college reserves the right to cancel the acceptance of any person for graduate study should further evidence indicate that he or she does not adequately meet requirements for the M.Ed. program.

#### Prerequisites for Admission to the M.Ed. Program

1. A baccalaureate degree from a regionally-accredited institution of higher education.
2. A state credential or SDA credential, or eligibility for these credentials.
3. Admission to Pacific Union College.
4. Submission of a graduate application to the Education Department that includes the following:
  - a) application form
  - b) two recommendations
  - c) official transcripts
  - d) interview with department chair and one other Education faculty member
  - e) essay discussing interests and goals
5. A minimum GPA of 3.0 in each of the following areas:
  - a) Undergraduate upper-division major
  - b) Education courses
  - c) Overall college work, or the last 96 quarter hours
6. Acceptable scores in the Graduate Record Examination (GRE) General Test.
7. A proposed program of studies appropriate to the student's strengths, interests, and professional goals.

A student who has been accepted for graduate study in another accredited institution of higher education and wishes to earn credit for transfer should apply as a guest student and is not required to follow the regular M.Ed. admission procedures.

#### Previous and Transfer Credit

The department chair or the credential analyst must approve any coursework taken prior to admission to the program.

A maximum of 12 quarter hours of approved transfer credits may be applied toward the degree.

Credit earned by correspondence, examination, student teaching or continuing education is not applicable to the M.Ed. course requirements.

### Reserved Credit

Students who have completed 135 hours toward a baccalaureate degree and who will be eligible to apply for admission to the M.Ed. program after graduation may request to reserve a maximum of 8 quarter hours of approved upper-division courses for application to the M.Ed. provided that they are not needed to fulfill requirements for the bachelor's degree or the preliminary credential. Students interested in this option should make arrangements with the Education Department.

### The Program of Studies

The Education Department faculty will work with each student to construct an acceptable Program of Studies and will monitor progress during the period of graduate study.

The Program of Studies must provide for the following:

1. removal of any undergraduate deficiencies,
2. sequencing of course work so that all requirements are completed within the seven-year limit,
3. completion of all departmental and college requirements for the degree.

### Requirements for Graduation with the M.Ed.

M.Ed. candidates have the option of fulfilling requirements under the catalog of their first enrollment or any subsequent catalog during the time of continuous enrollment. To receive the M.Ed., students must meet the following requirements

1. Satisfactory completion of approved Program of Studies.
2. A minimum overall graduate GPA of 3.0 with no grade lower than B-.
3. Satisfactory completion of examinations and projects as determined by the student's Committee on Studies.
4. Completion of requirements within seven calendar years beginning with the first enrollment in courses counting toward the master's degree or date of acceptance into the program, whichever comes first. Students who take these courses at any time during the seven-year period are considered to have continuous enrollment status. A time extension requires approval from the Education Department.

### Coursework Requirements Master of Education, M.Ed. (Program offered during summers only)

*A minimum of 45 hours*

#### ► Pedagogy Requirements (27 hours):

EDUC 510	Leadership in Education	2
EDUC 513	Advanced Instructional Strategies	3
EDUC 513L	Field Experience	1
EDUC 515	Educational & Psychological Evaluation	3
EDUC 516	American Curriculum	3
EDUC 517	Current Issues in Education	2
EDUC 525	Teaching Children with Reading Difficulties	3
EDUC 525L	Field Experience	1
EDUC 530	Brain Research and Learning	3
EDUC 538	Computers in the Classroom, Level 2	2
EDUC 538L	Computer Lab	1
EDUC 550	Advanced Study of Exceptional Children in the Classroom	3

#### ► Action Research Project (7 hours)

EDUC 596	Methods in Research	2
EDUC 597	Action Research Project	5

#### ► Subject Matter Courses (11 hours) 11

At least 11 hours of graduate-level (or reserved graduate) electives, chosen in consultation with Education and Subject Matter advisors and designed to strengthen subject matter knowledge.

For Induction Program participants

The Induction Program coursework may be applied.

For the SDA Professional Elementary Certificate

If not taken previously, coursework must include two of the following- Fine Arts Methods, PE Methods, Children's Literature, Applied Arts Methods.

For the SDA Professional Secondary Certificate

If not taken previously, coursework must include Education of the Exceptional Student, Multicultural Education, Learning Theory/Style, and Reading in Content Areas.

## Education

### Early Childhood Education

#### LOWER-DIVISION COURSES:

#### **ECED 181** **3 F** **Introduction to Early Childhood Education**

A general overview of early childhood education. Includes basic child development, history of early childhood education, types of programs, qualifications and characteristics of successful teachers, career opportunities, teaching permit information, and current issues.

#### **ECED 184** **4 W** **Health, Safety, and Nutrition**

An holistic examination of health, safety, and nutrition and their effect on the well-being of children. How to prepare and maintain a safe and healthy environment and encourage good nutrition for young children. Helps meet State requirements for specified training in preventative health practices. Odd years.

#### **ECED 185** **3 W** **The Creative Development of the Young Child**

Focus on the integration of creative activities such as visual art, music, movement and dramatic play. Includes a field experience with groups of children to plan and implement relevant curriculum activities. Explores the concept of creativity and its importance in the field of early childhood education.

#### **ECED 189** **3 W** **Constructive Guidance and Management**

An exploration of the techniques and strategies designed to enhance effective and positive guidance and discipline practices. Methods for teaching young children autonomy and self-discipline, while promoting development of positive self-concept and prosocial behaviors. Focus on the creation of a positive and caring environment for young children. Prerequisite: ECED 181 or EDUC 101.

#### **ECED 210** **2 S** **Child Protection and National Standards**

The medical, legal, and social implications of suspected abuse. Recognition of the role of the educator and physician in preventing child abuse and family violence, through routine assessment of family dynamics, early identification of children at risk, and cooperation with community services that support families. Even years.

#### **ECED 215** **3 S** **Observation and Assessment of the Young Child**

An introduction to a variety of observation and guidance techniques that can be used with children in early childhood education programs. Includes an emphasis on observing young children and assessing their early childhood learning environments. Prerequisite: ECED 181.

#### **ECED 220** **3 W** **Early Childhood Curriculum**

A theoretical and experiential investigation of curriculum in the preschool environment. Emphasis on continuity of learning experiences for children and the use of materials for instructional purposes. Prerequisites: ECED 181, 226. Even years.

#### **ECED 226** **3 F** **The Spiritual/Moral Development of the Young Child**

Understanding how the moral/spiritual development is the domain in which children grow in their ability to think and act according to their understanding of what is right and wrong. Explores children's development of moral understanding and their consequent ability to act increasingly with the needs of others in mind and to resolve moral dilemmas based on ideals of justice, fairness, or caring. Theories by Lawrence Kohlberg, Jean Piaget and Carol Gilligan.

#### **ECED 230** **3 F** **Child, Family, and Community**

Acknowledges the value and necessity of collaboration between parents, teachers, and the community in support of children. Includes the challenges facing contemporary families, the needs of families with diverse backgrounds, available community resources, political awareness, and child and family advocacy. Effective methods of communication with families and community members will be practiced. Prerequisite: ECED 181. Even years.

#### **ECED 235** **3 F** **Child Development** (See PSYC 235.)

#### **ECED 240** **3 W** **Infant and Toddler Care I**

A study of the care and education of infants and toddlers (birth to age three) in group settings such as child care centers, family child care homes, and Early Head Start. Includes the support of the whole child in a safe, responsive environment. Emphasizes relationship-based care along with state-mandated requirements for the child under age three. Prerequisite: ECED 181. Odd years.

**ECED 276 5 F, W, S**  
**Student Teaching I**

Supervised practicum (150 hours) lasting the entire quarter in an infant/toddler setting. Students will participate in activities carried out by early childhood educators working with infants and toddlers within early childhood settings. Also includes seminar activities and discussion with the course instructor. Prerequisites: ECED 181, 189, 210, 215, 235, 240, fingerprint clearance. Graded S/F.

UPPER-DIVISION COURSES:

**ECED 326 3 W**  
**The Physical & Social/Emotional Development of the Young Child**

Participation in a balance of indoor and outdoor play, self-directed play, teacher-directed activities and ample physical experiences. Also explores foundations of knowledge about social and emotional development. Analysis of developmental theories as they apply to young children's emotional and social development; includes the effects of social and emotional development on learning. Prerequisite: ECED 181, 220. Odd years.

**ECED 340 3 S**  
**Infant and Toddler Care II**

The design and implementation of age-appropriate activities and routines for infants and toddlers. Focus on planning developmentally-appropriate curriculum to include all domains of the child- physical, cognitive, emotional, and social. Prerequisites: ECED 181, 240. Odd years.

**ECED 361 4 F**  
**Administration and Supervision of ECE Programs I**

Techniques and knowledge needed to develop and administer a quality early childhood center, including assessment of community need, licensing guidelines, board development, budget and financial planning, development of the center (equipping, staffing, enrolling children), evaluation, and development of parent and community support. Prerequisites: ECED 181, 215. Even years.

**ECED 362 5 W**  
**Administration and Supervision of ECE Programs II**

Study of the competencies required in the successful operation of a child development center. Includes marketing, recruitment, human resource management, facilities and risk management, professional development and leadership skills. Prerequisites: ECED 181, 215. Even years.

**ECED 370 3 F**  
**Math for the Young Child**

An organized, sequential approach to creating math curriculum for young children. Methods of teaching math concepts such as classification, shapes, spatial sense, seriation, numbers, and measurements. Taught using naturalistic, informal, and structural types of learning. Stresses the integration of math with language arts, science, social studies, art, and music and movement. Prerequisites: ECED 181, 220. Even years.

**ECED 371 3 F**  
**Science for the Young Child**

Methods of teaching science to young children. How to teach children to explore, classify, compare, contrast, and hypothesize in physical science, biology, and botany. Prerequisites: ECED 181, 220. Odd years.

**ECED 372 3 F**  
**Language and Literacy in the Young Child**

Emergent literacy for the young child involving the skills, knowledge, and attitudes that are developmental precursors to conventional forms of reading and writing. Involvement of children in literacy through real life experiences, children's literature, phoneme awareness, and early reading and writing. Prerequisites: ECED 181, 220. Odd years.

**ECED 482 3 F, W, S**  
**Student Teaching II**

Supervised field experience (90 hours) in a preschool setting under the direction of an early childhood licensed teacher. Students will be expected to demonstrate mastery of subject matter, teaching competence, and potential for future improvement. Prerequisites: ECED 276, 370, 371, 372, fingerprint clearance. Graded S/F.

**ECED 495 1-3 Arranged**  
**Independent Study**

Offers the advanced student opportunity to pursue investigation in a field of special interest under the direction of department faculty.

## Education

### Education

#### LOWER-DIVISION COURSES:

#### **EDUC 101** **1 F, W, S** **Introduction to Teaching**

An overview of the teaching profession. Includes certification requirements, the history of education, teaching as a profession, and the characteristics of successful teachers. The program admission process begins in this class. Corequisite: EDUC 101L.

#### **EDUC 101L** **1 F, W, S** **Classroom Observations**

A 25-hour field experience that provides practical information about classroom teaching for the student who is entering the teaching profession. Involves extensive observation of teachers both in the classroom and on video. Must be completed before a student may be admitted to the credential program. Students who wish to apply credit for this course toward the requirements for a teaching credential must earn a grade of B- or better. This requirement may be waived on experience. Contact the credential analyst for more information. Corequisite: EDUC 101.

#### UPPER-DIVISION COURSES:

#### **EDUC 332** **2 W, S, Su** **Teaching with Technology**

Excellent teaching has as much to do with empowering students to learn as it does with knowing how to teach. This course explores the ranges of educational technology and methods for improving student understanding through its use with all learners. This instructional class is supplemented by an experiential lab. Applies to area VII.A of the general education requirement. Prerequisite: EDUC 101, 101L or ECED 181. Corequisite: EDUC 332L. Odd summers.

#### **EDUC 332L** **1 W, S, Su** **Teaching with Technology** **Laboratory**

Supplemental lab that complements the material in EDUC 332. Prerequisite: EDUC 101, 101L or ECED 181. Corequisite: EDUC 332. Odd summers.

#### **EDUC 333** **3 S, Su** **Educational Psychology**

Exploration of how children and adolescents learn and think in the classroom. Examines how characteristics such as intelligence, personality, cognitive and moral development, and diversity impact student learning. Includes the study of learning theories, motivation, cooperative learning, assessment, and managing a classroom. Odd summers.

#### **EDUC 335** **2 F** **Moral Dimensions of Teaching and Learning**

Ethical and moral situations that teachers and students face. Examines the history and development of current practice. Emphasizes ideals and principles of Christian education and their application in Seventh-day Adventist schools. Compares and contrasts the philosophy of American and Adventist education. Emphasis on integrating faith and learning.

#### **EDUC 336** **3 W** **The Multicultural Classroom**

Preparation of candidates for the wide diversity of students they will encounter in the classroom. Includes an emphasis on developing methods for involving the family in the educational process. Addresses the legal basis for desegregation and multiculturalism in American Education. Emphasizes the knowledge and skills needed to help students be better informed and proactive in a multicultural society.

#### **EDUC 339** **2 F** **ELL Pedagogy**

Strategies for assessing and teaching K-12 English Language Learners (ELLs), concentrating on techniques used by classroom teachers that foster development of listening, speaking, pronunciation, grammar, reading, writing, and vocabulary in a variety of content areas. Prerequisite: EDUC 101, 101L.

#### **EDUC 340** **3 W, Su** **Exceptional Children in the Classroom**

Major categories of disabilities and giftedness and strategies to meet the needs of these children in the general classroom. Information about federal and state laws pertaining to disabilities and how to write and implement an IEP. Prerequisite: EDUC 101, 101L or ECED 181. Even summers.

#### **EDUC 345** **4 F** **Teaching Math and Science in the Elementary School**

Prepares pre-service elementary teachers in science, health, and mathematics instruction through interrelated activities in classwork and fieldwork. Emphasis on California state content standards in science, health, and mathematics; planning and implementing effective lessons for each area. Prerequisites: Credential program admission. Corequisites: EDUC 491, 493 (345L).

**EDUC 353** **4 W**  
**Beginning Reading and Writing**

A comprehensive approach to teaching reading and writing in pre-kindergarten through grade three. Research on how children learn to read, diagnosis of reading difficulties, phonics, stages of writing development, and planning and delivery of appropriate reading and writing instruction based on assessment. Emphasis on early prevention of failure in literacy for at-risk children. Prerequisites: Credential program admission, EDUC 345/493 (345L), 491. Corequisites: EDUC 492, 493 (353L).

**EDUC 356** **4 S**  
**Intermediate Reading and Writing**

The nature of language acquisition and the principles related to intermediate reading/language arts instruction. Instructional strategies for developing ability to transmit meaning through talking and writing and to comprehend meaning through listening and reading. Emphasizes assessment and management techniques and teaching to diverse groups of students. Includes multigrade teaching and state standard aligned instruction. Prerequisites: Credential program admission. Corequisites: EDUC 490.

**EDUC 357** **3 S**  
**Social Studies and the Arts**

Aspects of teaching history, social science, visual arts, and performing arts. Implementation of state adopted content standards in these subject areas. Observation of professionals in the field, paying particular attention to content and strategies of instruction, as well as techniques for teaching art as it relates to other subject areas and careers. Emphasizes case studies, integrated units, and cross-cultural activities. Prerequisite: Credential program admission.

**EDUC 358** **3 S**  
**Literacy in the Content Areas**

One of three courses preparing students for the secondary classroom. Emphasis is placed on lesson design based on 1) the unique learning characteristics of adolescents, and 2) the reading and study skills needed in each content area. Effective teaching strategies for students with diverse levels of understanding and skill, including ELL students with limited language skills. Prerequisites: Credential program admission. Corequisite: EDUC 490.

**EDUC 361** **3 F**  
**Middle School Teaching Strategies**

One of three courses preparing students for the secondary classroom. Special focus on the unique needs of middle school students. Creation of an environment and development of learning plans that accommodate developmental characteristics of young adolescents (ages 10-14). Exploration of project-based learning, cooperative learning, direct instruction, differentiated instruction, authentic assessment, and block scheduling. Prerequisites: Credential program admission, junior class standing, and completion of 50% of the major coursework. Corequisites: EDUC 494 (361L) and EDUC 491.

**EDUC 362** **3 W**  
**Secondary Content Area Teaching Strategies**

One of three courses preparing students for the secondary classroom. Focus on the high school environment and the knowledge and skills needed to plan and deliver instruction in specific content areas. Creation of assessment tools for the content area, development of effective learning units, and creation of course syllabi. Students will make sample instructional presentations in class and conduct interviews with secondary teachers in their own content areas. Prerequisites: Credential program admission, EDUC 361/494

(361L), 491, junior class standing, and completion of 50% of the major coursework. Corequisites: EDUC 494 (362L) and EDUC 492.

**EDUC 368** **2 S, Su**  
**Teaching K-12 Bible**

Teaching objectives, materials, and strategies in Biblical education. Emphasizes the spiritual development of K-12 students and provides methods of teaching whereby Bible curriculum can be harmonized with that development. Explores and analyzes the Seventh-day Adventist Bible curriculum. Required for SDA elementary endorsement. Required for SDA secondary endorsement only if a Bible endorsement is desired. Prerequisite: Credential program admission. Corequisite: EDUC 368L (school year only). Available odd summers (without practicum) for employed teachers only.

**EDUC 368L** **1 S**  
**Teaching K-12 Bible Practicum**

Designed to support EDUC 368 and place candidates in a Bible classroom within an SDA school setting. Includes observation of present practices in Bible instruction. Candidates will assist cooperating teachers as well as plan and implement a brief unit of study, based on the current class curriculum and the NAD Bible curriculum guides. Prerequisite: Credential program admission. Corequisite: EDUC 368.

**EDUC 476** **3 F**  
**Physical Education for Children**

See also ESTH 476. Activity interests of children and appropriate materials for different age levels; selection of materials and methods of presentation. Consists of a combination of lectures and practice. Applies as one course for the Fitness general education requirement.

## Education

### **EDUC 477**

**3 F**

#### **Classroom Management**

An overview of classroom management models, including behaviorist options, with an emphasis on redemptive approaches. Identification of personal views toward classroom organization and structure and development of classroom management plan based on “best practice” strategies. The value of effective structure, developing procedures and rules, engaging curriculum, effective communication, and consistent follow-through. Prerequisite: EDUC 101, 101L.

### **EDUC 490**

**1 S**

#### **Student Teaching Seminar: Subject Specific**

Guides candidates toward the successful completion of the California Teaching Performance Assessment on Subject-Specific Pedagogy. Evaluates the candidate’s ability to understand how information about a class is used to prepare instruction for particular subjects and content areas and develops and adapts student assessment plans based on the content. Also provides support for candidates as they complete their student teaching. Prerequisite: Credential program admission. Corequisite: EDUC 356 or EDUC 358.

### **EDUC 491**

**1 F**

#### **Student Teaching Seminar: Designing Instruction**

Guides candidates toward the successful completion of the California Teaching Performance Assessment on Designing Instruction. Evaluates the ability to identify the links between students’ characteristics and learning needs. Also provides support for candidates as they complete their student teaching. Prerequisite: Credential program admission. Corequisite: EDUC 345/ 493 (345L) or EDUC 361/ 494 (361L).

### **EDUC 492**

**1 W**

#### **Student Teaching Seminar: Assessing Learning**

Guides candidates toward the successful completion of the California Teaching Performance Assessment on Assessing Learning. Evaluates the ability to assess student learning. Also provides support for candidates as they complete their student teaching. Prerequisites: Credential program admission, EDUC 345/ 493 (345L) or EDUC 361/ 494 (361L), EDUC 491. Corequisite: EDUC 353/ 493 (353L) or EDUC 362/ 494 (362L).

### **EDUC 493**

**1-12 F, W, S**

#### **Student Teaching, Full-Time, Elementary**

Elementary student teaching is divided into four components:

##### *a) EDUC 493 (345L)- Student Teaching, Math Field Experience (1):*

25-hour field experience completed in an upper-grade elementary school classroom. Involves observing, assisting, and actually teaching in the area of math under the direction of an experienced elementary grade teacher. Counts as 1 hour of Student Teaching and is supervised and evaluated. Prerequisites: Credential program admission, TB clearance. Corequisite: EDUC 345, 491. Qualifies for IP grading. Graded S/F.

##### *b) EDUC 493 (353L)- Student Teaching, Beginning Reading Experience (1):*

25-hour field experience completed in a K-2 classroom. Involves observing, assisting, and actually teaching in the area of beginning reading and writing under the direction of an experienced primary grade teacher. Counts as 1 hour of Student Teaching and is supervised and evaluated. Prerequisites: Credential program admission, Department Review #1, EDUC 345/ 493 (345L), 491. Corequisite: EDUC 353, 492. Qualifies for IP grading. Graded S/F.

##### *c) Pre-Session Student Teaching (0):*

Ten-day experience at the beginning of a school year. Involves observing and assisting a teacher just prior to the beginning of school and into the first few days of a new school year. This 10-day full-time experience counts as part of student teaching. The credit for this experience is given when a student completes full-time student teaching. Prerequisites: Regular program admission and successful completion of one methods course.

##### *d) EDUC 493- Student Teaching, Full-Time, Elementary (12):*

Full-time student teaching occurs at the conclusion of the credential program courses. It lasts for the 11 weeks of the quarter and is a full-time, full day commitment. It is not possible for the student teacher to hold a day job during this time. By the end of the experience, the student will take complete responsibility for all classroom management, instructional planning, teaching, and student assessment. Candidates employed on a regular full-time teaching contract at a grade level covered by the desired credential may petition the department to complete in-service student teaching. Prerequisites: EDUC 339, 340, 345, 353, 356, 490, 491, 492, 493 (345L), 493 (353L), Department Review #1 and #2, TPE Portfolio, Pre-Session Student Teaching, Passage of the California Teaching Performance Assessment Tasks Subject-Specific Pedagogy, Designing Instruction, and Assessing Learning, Passage of CSET: Multiple Subjects. Corequisite: EDUC 498. Qualifies for IP grading. Graded S/F.

**EDUC 494** **1-12 F, W, S**  
**Student Teaching,**  
**Full-Time, Secondary**

Secondary student teaching is divided into four components:

*a) EDUC 494 (361L)- Student Teaching, Middle School Field Experience (1):*

Involves 25 hours of observation and teaching in the specific content area of the credential in a middle school classroom (grades 6-8). Counts as 1 hour of Student Teaching and is supervised and evaluated. Prerequisites: Credential program admission, TB clearance, completion of 50% of the major coursework with GPA of 2.5 or above or passage of CSET. Corequisite: EDUC 361, 491. Qualifies for IP grading. Graded S/F.

*b) EDUC 494 (362L)- Student Teaching, Senior High School Field Experience (1):*

Involves 25 hours of observation and teaching in the specific content area of the credential in a senior high school classroom (grades 9-12). Counts as 1 hour of Student Teaching and is supervised and evaluated. Prerequisites: EDUC 361/ 494 (361L), EDUC 491 completion of 50% of the major coursework or passage of CSET, Department Review #1. Corequisite: EDUC 362, 492. Qualifies for IP grading. Graded S/F.

*c) Pre-Session Student Teaching (0):*

Ten-day experience at the beginning of a school year. Involves observing and assisting a teacher just prior to the beginning of school and into the first few days of a new school year. This 10-day full-time experience counts as part of student teaching. Credit is given when a student completes full-time student teaching. Prerequisites: Regular program admission and successful completion of one methods course.

*d) EDUC 494- Student Teaching, Full-Time, Middle or Senior High School (12):*

Full-time student teaching occurs at

the conclusion of the credential program courses. It lasts for the 11 weeks of the quarter and is a full-time, full day commitment. It is not possible for the student teacher to hold a day job during this time. By the end of the experience, the student will take complete responsibility for all classroom management, instructional planning, teaching, and student assessment. Candidates employed on a regular full-time teaching contract at a grade level covered by the desired credential may petition the department to complete in-service student teaching. Prerequisites: EDUC 339, 340, 358, 361, 362, 490, 491, 492, 494 (361L), 494 (362L), Department Review #1 and #2, Content Area Portfolio, Pre-Session Student Teaching, Passage of the California Teaching Performance Assessment Tasks Subject-Specific Pedagogy, Designing Instruction, and Assessing Learning, Passage of the CSET: Content Area. Corequisite: EDUC 498. Qualifies for IP grading. Graded S/F.

**EDUC 495** **1-3 Arranged**  
**Independent Study**

The advanced student pursues investigation in a field of special interest under the direction of department faculty.

**EDUC 498** **1 F, W, S**  
**Student Teaching Seminar:**  
**Culminating Teaching Experience**

Guides candidates toward the successful completion of the California Teaching Performance Assessment Culminating Teaching Experience. Evaluates the ability of the candidate to integrate the three previous strands of the TPA: subject specific pedagogy, designing learning, and assessing learning. Also provides support for students as they complete their student teaching. Prerequisites: Credential program admission, EDUC 490, EDUC 491, EDUC 492. Corequisite: EDUC 493 (elementary) or EDUC 494 (secondary).

**Summer Education**  
**Courses**

*Taught only during the summer. Most courses are taught on a 2-year alternating basis. Courses are open to individuals employed as full time teachers. Contact the Education Department for the list of course offerings for any specific summer.*

**EDUC 410** **1-2 Su**  
**The Better Plan: Level 1**

An in-depth study experience of Choice Theory and its application to the classroom and school setting. The writings of Scripture, Ellen White, and William Glasser provide the theoretical framework for class discussions and assignments. Experimental in nature, with learning coming out of the activities that are done during class. Meets the SDA Philosophy of Education requirement for the SDA teaching credential.

**EDUC 411** **1-2 Su**  
**The Better Plan: Level 2**

Builds on the theory and insight of the Level 1 course and focuses on conferencing skills in varied school and home scenarios. Students learn to conference using the principles of Choice Theory. Immediate feedback is given throughout the course as students practice what they have learned about lead-management techniques and fostering and maintaining positive relationships. Repeatable for credit. Qualifies for IP grading.

**EDUC 420** **1-2 Su**  
**Education Workshop**

Hands-on practical summer workshops for teachers seeking certification renewal credit. Offered under different subtitles on a rotating basis. Repeatable for credit under different subtitles. Graded S/F.

## Education

### **EDUC 421** **2 Su** **SDA Methods in Elementary Mathematics**

Meets the SDA Basic Elementary certification requirement for methods in mathematics. Open to practicing teachers holding a Conditional certificate; not open to students in the campus credential program. Even summers.

### **EDUC 422** **3 Su** **Reading and Writing for Life**

Meets the SDA Basic Elementary certification requirement for methods in reading and language arts. Open to employees holding a SDA Conditional certificate; not open to students in the campus credential program. Odd summers.

### **EDUC 425** **2 Su** **SDA Secondary Curriculum Methods**

Meets the SDA Basic Secondary certification requirement for secondary curriculum methods. Open to practicing teachers holding a Conditional certificate; not open to students in the campus credential program. Odd summers.

### **EDUC 426** **2 Su** **SDA Secondary Reading Methods**

Meets the SDA Basic Secondary certification requirement for methods in secondary reading. Open to practicing teachers holding a Conditional certificate; not open to students in the campus credential program. Even summers.

### **EDUC 427** **1 Su** **Assessment & Evaluation for Beginning Teachers**

Introductory overview of educational assessment & evaluation as used in the elementary and secondary classroom. Meets the SDA Basic certification requirement for educational assessment. Open to practicing teachers holding a Conditional certificate. Even summers.

### **EDUC 430** **1-2 Su** **Kindergarten Administration**

Meets the SDA special endorsement requirements for Kindergarten teachers. Presents both SDA and state guidelines relating to student readiness and school entrance requirements. Focuses on leadership knowledge and skills needed for a successful Kindergarten program. Open to practicing teachers and students in the campus credential program. Graded S/F. Even summers.

### **EDUC 431** **1-2 Su** **Kindergarten Curriculum**

Meets the SDA special endorsement for Kindergarten teachers. The NAD curriculum framework forms the basis of course content. Practical applications for Kindergarten classrooms are emphasized. Open to practicing teachers and students in the campus credential program. Graded S/F. Odd summers.

### **EDUC 446** **2 Su** **SDA Methods in Elementary Social Studies**

Meets the SDA Basic Elementary certification requirement for methods in Social Studies. Open to practicing teachers holding a Conditional certificate; not open to students in the campus credential program. Even summers.

### **EDUC 447** **2 Su** **Real Science, Real Learning**

Meets the SDA Basic Elementary certification requirement for methods in science & health. Open to practicing teachers holding a Conditional certificate; not open to students in the campus credential program. Odd summers.

## Graduate Courses

*Prerequisite to all graduate-level courses: Admission to the M.A.T., M.Ed. or fifth-year program or department approval.*

### **EDUC 510** **2 Su** **Leadership in Education**

Students examine insights concerning themselves and their relationships with colleagues, stakeholders, and pupils that can make a real difference in their subsequent classroom attitudes and behavior. Even summers.

### **EDUC 513** **3 Su** **Advanced Instructional Strategies**

In-depth examination of progressive instructional strategies, including learner-centered strategies such as cooperative learning, critical thinking, project-based learning, and teaching to multiple intelligences. Corequisite: EDUC 513L. Qualifies for IP grading. Even summers.

### **EDUC 513L** **1 Su** **Advanced Instructional Strategies Field Experience**

A 30-hour field experience involving application of learning theory by teaching in K-12 or college classrooms using advanced instructional techniques. Corequisite: EDUC 513. Even summers.

### **EDUC 515** **3 Su** **Educational Assessment and Evaluation**

A multifaceted study emphasizing (a) the process of collecting information as an aid in understanding and making educational plans for pupils and (b) integrated processes for determining the nature and extent of pupil learning and development. Authentic assessment and commonly used teacher-made and standardized tests are studied. Odd summers.

**EDUC 516** **3 Su**  
**American Curriculum**

People and events that have shaped curriculum development in the United States. Includes an exploration of current and innovative school models, including Quality Schools, charter and magnet schools. Even summers.

**EDUC 517** **2 Su**  
**Current Issues in Education**

Contemporary controversial issues in public and private education. Students become aware of possible alternatives in handling the issues, and to use their creativity to search for alternate solutions. Repeatable for credit. Odd summers.

**EDUC 525** **3 Su**  
**Teaching Children with Reading Difficulties**

Diagnostic procedures and assessment instruments used to identify reading difficulties. Emphasis on instructional techniques used for remediation. Corequisite: EDUC 525L. Odd summers.

**EDUC 525L** **1 Su**  
**Teaching Children with Reading Difficulties Field Experience**

A 30-hour field experience that involves assessing and diagnosing reading difficulties, writing assessment reports and recommendations, and developing instructional plans for children identified as needing reading intervention and/or remediation. Includes critical analysis and development of learner-centered language and literacy instructional techniques, with emphasis on the remediation of elementary pupils and/or middle school/high school students with reading difficulties. Corequisite: EDUC 525. Qualifies for IP grading. Odd summers.

**EDUC 530** **3 Su**  
**Brain Research and Learning**

A critical examination of current investigations of cognitive aspects of learning. Odd summers.

**EDUC 532+532L** **2 + 1 W, S**  
**Teaching with Technology**

Covers the same topics as EDUC 332+332L, includes differentiated requirements for the graduate-level student. Prerequisite: M.A.T. program admission. Odd summers.

**EDUC 533** **3 S**  
**Educational Psychology**

Covers the same topics as EDUC 333, includes differentiated requirements for the graduate-level student. Prerequisite: M.A.T. program admission. Odd summers.

**EDUC 535** **2 F**  
**Moral Dimensions of Teaching and Learning**

Covers the same topics as EDUC 335, includes differentiated requirements for the graduate-level student. Prerequisite: M.A.T. program admission.

**EDUC 536** **3 W**  
**The Multicultural Classroom**

Covers the same topics as EDUC 336, includes differentiated requirements for the graduate-level student. Prerequisite: M.A.T. program admission.

**EDUC 537** **3 Su**  
**Advanced ESL Methods and Materials**

Theory and practice of second language teaching methods and materials, focusing specifically on the teaching and learning of literacy skills. Corequisite: EDUC 537L. Even summers.

**EDUC 537L** **1 Su**  
**Advanced ESL Methods and Materials Field Experience**

A teaching practicum that allows students to apply learned theory in a language classroom. Field teaching will be arranged according to students' interests and/or specific program needs. Corequisite: EDUC 537. Qualifies for IP grading. Even summers.

**EDUC 538** **2 Su**  
**Computers in the Classroom**

The uses of electronic media to communicate through collaborative tools, multimedia, web pages, and print media. Emphasis on how technology can be used to plan, locate, evaluate, select, and use information to solve problems and draw conclusions. Prerequisite: EDUC 332 or 532, or permission from the department technology instructor. Corequisite: EDUC 538L.

**EDUC 538L** **1 Su**  
**Computers in the Classroom Laboratory**

Cutting-edge technologies to enhance teaching and learning. Applications include Hyperstudio, Powerpoint, web-page design, videoconferencing, and desktop publishing. Corequisite: EDUC 538.

**EDUC 539** **2 F, Su**  
**ELL Pedagogy**

Covers the same topics as EDUC 339, includes differentiated requirements for the graduate-level student. Prerequisite: M.A.T. program admission.

**EDUC 540** **3 W, Su**  
**Exceptional Children in the Classroom**

Covers the same topics as EDUC 340, includes differentiated requirements for the graduate-level student. Prerequisite: M.A.T. program admission.

## Education

### **EDUC 545** **4 F**

#### **Teaching Math and Science in the Elementary School**

See EDUC 345. Prerequisites: M.A.T. program admission. Corequisites: EDUC 591, 593 (545L).

### **EDUC 550** **3 Su**

#### **Advanced Study of Exceptional Children in the Classroom**

Strategies for teaching students with learning disabilities in special and regular classrooms. Curriculum content and specific strategies and materials related to each academic area. Includes collection and use of formal and informal assessment information for designing the content of Individual Educational Programs (IEP) for students with disabilities in academic and behavioral areas. Prerequisite: EDUC 340. Odd summers.

### **EDUC 553** **4 W**

#### **Beginning Reading and Writing**

See EDUC 353. Prerequisites: M.A.T. program admission, EDUC 545/ 593 (545L), 591. Corequisites: EDUC 592, 593 (553L).

### **EDUC 556** **4 S**

#### **Intermediate Reading and Writing**

See EDUC 356. Prerequisites: M.A.T. program admission. Corequisites: EDUC 590.

### **EDUC 557** **3 S**

#### **Social Studies and the Arts**

See EDUC 357. Prerequisite: M.A.T. program admission.

### **EDUC 558** **3 S**

#### **Literacy in the Content Areas**

See EDUC 358. Prerequisite: M.A.T. program admission. Corequisite: EDUC 590.

### **EDUC 559** **1-2 Su**

#### **Small Schools Curriculum**

Meets the SDA requirements for a professional endorsement as a Small Schools Specialist. Focus is given to SDA curriculum guides, with a special focus on how to manage instruction in a multi-grade, multi-age setting. Open to practicing teachers holding at least a Conditional certificate; not open to students in the campus credential program. Graded S/F. Even summers.

### **EDUC 560** **1-2 Su**

#### **Small Schools Administration**

Meets the SDA requirements for a professional endorsement as a Small Schools Specialist. Focus is given to leadership skills, especially the organization knowledge and skills needed to manage a school program, while also teaching full time. Open to practicing teachers holding at least a Conditional certificate; not open to students in the campus credential program. Graded S/F. Odd summers.

### **EDUC 561** **3 W**

#### **Middle School Teaching Strategies**

See EDUC 361. Prerequisites: M.A.T. program admission. Corequisites: EDUC 594 (561L) and EDUC 591.

### **EDUC 562** **3 W**

#### **Secondary Content Area Teaching Strategies**

See EDUC 362. Prerequisites: M.A.T. program admission, EDUC 561/ 594 (561L), 591. Corequisites: EDUC 594 (562L) and EDUC 592.

### **EDUC 566** **3 Su**

#### **Advanced Health Education**

A study of the key health concerns of youth today and how a teacher creates an environment to prevent, change or cope with health problems. Focus on local, state, and federal laws concerning health

issues, communicating to students and parents, and developing skills toward advocacy. Prerequisite: HLED 166 or equivalent. Even summers.

### **EDUC 568 + 568L** **2+1 F**

#### **Teaching K-12 Bible**

See EDUC 368 + 368L. Prerequisite: M.A.T. program admission.

### **EDUC 576** **3 F**

#### **Physical Education for Children**

See EDUC 476. Prerequisite: M.A.T. program admission.

### **EDUC 577** **3 W**

#### **Classroom Management**

Covers the same topics as EDUC 477, includes differentiated requirements for the graduate-level student. Prerequisite: M.A.T. program admission.

### **EDUC 580A+580B** **.5+.5 Su**

#### **Clear Credential Orientation and Review, Part 1 and Part 2**

Consists of two one-day sessions for teachers who are converting their California Preliminary Credentials into California Clear Credentials. Each session is held immediately prior to the beginning of induction program coursework.

#### *Part 1*

The first session (first summer) is an overview of the Induction Program requirements at PUC, including handbook, schedule of courses, procedures, forms, evaluations, assessment and evaluation; the *California Standards for the Teaching Profession (CSTP)*; ePortfolio contents and instructions; self-assessment of CSTP competencies and development of the personal Professional Growth Plan; and instruction in the inquiry cycle and teacher action research. Prerequisite: Induction Program Admission.

## Part 2

The second session (second summer) includes a review of Year One fieldwork; presentation of the mid-program portfolio; self-assessment of CSTP competencies; and revision of the personal Professional Growth Plan. Prerequisites: Induction Program Admission, EDUC 580A, EDUC 581/581L or EDUC 582/582L.

**EDUC 581** **1.5 Su**  
**Clear Credential Standard 5:**  
**Pedagogy**

Instruction and discussion of the elements of California Clear Credential Standard 5: Pedagogy. Review of CSTP, California adopted academic content standards and performance levels for students, and curriculum frameworks. Additional instruction in the use of instructional materials, student assessment, classroom management, safe/inclusive/healthy learning environments, and the effective use of technology in the classroom. Prerequisites: Induction Program Admission, EDUC 580A. Corequisite: EDUC 581L. Odd summers.

**EDUC 581L** **2 Su**  
**Clear Credential Standard 5:**  
**Fieldwork**

Implementation of Standard 5: Pedagogy in the candidate's classroom. Provides the setting where the participating teacher can successfully demonstrate understanding of the standard through regular collaboration with support providers, demonstration of CSTP knowledge and skills, use of approved academic content standards, application of the "Plan-Teach-Reflect-Apply" cycle, and continued development of the teacher's Clear Credential portfolio. Prerequisites: Induction Program Admission, EDUC 580A. Corequisite: EDUC 581. Odd summers.

**EDUC 582** **1.5 Su**  
**Clear Credential Standard 6:**  
**Universal Access**

Presentation and discussion of the elements of California Clear Credential Standard 6: Universal Access. Includes designing and implementing equitable and inclusive classrooms for all students, effective use of resources including technology, teaching English Learners, and teaching Special Populations. Prerequisites: Induction Program Admission, EDUC 580A. Corequisite: EDUC 582L. Even summers.

**EDUC 582L** **2 Su**  
**Clear Credential Standard 6:**  
**Fieldwork**

Implementation of Standard 6: Pedagogy in the candidate's classroom. Provides the setting where the participating teacher can successfully demonstrate understanding of the standard through regular collaboration with support providers, demonstration of CSTP knowledge and skills, use of approved academic content standards, application of the "Plan-Teach-Reflect-Apply" cycle, and continued development of the teacher's Clear Credential portfolio. Prerequisites: Induction Program Admission, EDUC 580A. Corequisite: EDUC 582. Even summers.

**EDUC 583** **1 Su**  
**Clear Credential Capstone**

Development, organization, presentation, and submission of an ePortfolio to demonstrate ability to use and implement California Clear Credential Standards 5 & 6 and the *California Standards for the Teaching Profession* in one's own classroom. Includes a final reflective paper on the entire Induction Program experience and content. Professional presentation of the portfolio to the faculty, support provides, and cohort group faculty during the final summer; submission of the portfolio to the program electronically. Prerequisites: Induction Program Admission, EDUC 580A, 580B, 581, 581L, 582, 582L.

**EDUC 590** **1 S**  
**Student Teaching Seminar:**  
**Subject Specific**

See EDUC 490. Prerequisite: M.A.T. program admission. Corequisite: EDUC 556 or EDUC 558.

**EDUC 591** **1 F**  
**Student Teaching Seminar:**  
**Designing Instruction**

See EDUC 491. Prerequisite: M.A.T. program admission, Prerequisite: Credential program admission. Corequisite: EDUC 545/ 593 (545L) or EDUC 561/ 594 (561L).

**EDUC 592** **1 W**  
**Student Teaching Seminar:**  
**Assessing Learning**

See EDUC 492. Prerequisites: M.A.T. program admission, EDUC 545/ 593 (545L) or EDUC 561/ 594 (561L), EDUC 591. Corequisite: EDUC 553/ 593 (553L) or EDUC 562/ 594 (562L).

## Education

### **EDUC 593** **1-12 F, W, S** **Student Teaching, Full-Time, Elementary**

See EDUC 493.

Includes four components:

a) *EDUC 593 (545L)- Student Teaching, Math Field Experience (1):*

Prerequisites: M.A.T. program admission, TB clearance. Corequisite: EDUC 545, 591. Qualifies for IP grading. Graded S/F.

b) *EDUC 593 (553L)- Student Teaching, Beginning Reading Experience (1):*

Prerequisites: M.A.T. program admission, Department Review #1, EDUC 545/593 (545L), 591. Corequisites: EDUC 553, 592. Qualifies for IP grading. Graded S/F.

c) *Pre-Session Student Teaching (0):*

Prerequisites: M.A.T. program admission, completion of one methods course

d) *EDUC 593- Student Teaching, Full-Time, Elementary (12):*

Prerequisites: M.A.T. program admission, EDUC 539, 540, 545, 553, 556, 590, 591, 592, 593 (545L), 593 (553L), Department Review #1 and #2, TPE Portfolio, Pre-Session Student Teaching, Passage of the California Teaching Performance Assessment Tasks Subject-Specific Pedagogy, Designing Instruction, and Assessing Learning, Passage of the CSET: Multiple Subjects. Corequisite: EDUC 598. Qualifies for IP grading. Graded S/F.

### **EDUC 594** **1-12 F, W, S** **Student Teaching, Full-Time, Secondary**

See EDUC 494.

Includes four components:

a) *EDUC 594 (561L)- Student Teaching, Middle School Field Experience (1):*

Prerequisites: M.A.T. program admission, TB clearance. Corequisite: EDUC 561, 591. Qualifies for IP grading. Graded S/F.

b) *EDUC 594 (562L)- Student Teaching, Senior High School Field Experience (1):*

Prerequisites: M.A.T. program admission, EDUC 561/ 594 (561L), EDUC 591, Department Review #1. Corequisite: EDUC 562, 592. Qualifies for IP grading. Graded S/F.

c) *Pre-Session Student Teaching (0):*

Prerequisite: M.A.T. program admission, completion of one methods course.

d) *EDUC 594- Student Teaching, Full-Time, Middle or Senior High School (12):*

Prerequisites: EDUC 539, 540, 558, 558L, 561, 562, 590, 591, 592, 594 (561L), 594 (562L), Department Review #1 and #2, Content Area Portfolio, Pre-Session Student Teaching, Passage of the California Teaching Performance Assessment Tasks Subject-Specific Pedagogy, Designing Instruction, and Assessing Learning, Passage of the CSET: Content Area. Corequisite: EDUC 598. Qualifies for IP grading. Graded S/F.

### **EDUC 595** **1-3 F, W, S, Su** **Independent Study**

Individual study open to students with adequate preparation in the proposed area. Repeatable to a maximum of 3 credits.

### **EDUC 596** **2 Su** **Methods in Research**

Principles of disciplined inquiry and an introduction to the methods of research including planning, using resources, reviewing literature, developing methodology, and communicating evidence verbally and visually.

### **EDUC 597** **1-5 Su** **Action Research Project**

The culmination of the master's degree program, involving a practical application of theoretical concepts in an actual classroom situation. Research methods and literature review are presented. After receiving formal project approval, students implement the project and, upon completion, prepare a formal written report to be shared orally with the Education faculty and other graduate students during the summer quarter. Prerequisite or corequisite: EDUC 596. Qualifies for IP grading.

### **EDUC 598** **1 F, W, S** **Student Teaching Seminar: Culminating Teaching Experience**

See EDUC 498. Prerequisites: M.A.T. program admission, EDUC 590, EDUC 591, EDUC 592. Corequisite: EDUC 593 (elementary) or EDUC 594 (secondary).

### **EDUC 599** **1-3 F, W, S, Su** **Directed Study**

Individual study open to students with adequate preparation in the proposed area.



## Faculty

*Maria Rankin-Brown, chair; Linda Gill, Georgina Hill, Sara Kakazu, Peter Katz, Heather Reid, Cynthia Westerbeck*  
 Departmental Office: Stauffer Hall; 965-7550

## Degrees and Programs

English, B.A. ....	99
Teaching Credential .....	100
English, Minor .....	100
Writing, Minor .....	100

*English* majors discover a great variety of literature, including traditional English and American texts as well as newly appreciated works by women and minority writers. They explore all the genres from many perspectives, including recent critical approaches and the history of ideas. They develop and refine their writing in both critical and creative writing courses.

English majors may select one of the three emphases: British and American Literature, English Education, and Writing.

## Major in English, B.A.

*A minimum of 61 hours (35 upper-division hours)*

### ► Required Core Courses (43 hours):

ENGL 223	British Literature Survey	4
ENGL 224	Literary Theory	4
ENGL 335	Survey of Linguistics	4
ENGL 355	American Colonial and Romantic Periods	4
ENGL 389	Junior Seminar	1
ENGL 490	Senior Seminar	1
ENGL 492	Senior Project	1

### *At least one of the following courses:*

ENGL 356	American Realism and Naturalism (4)	4
ENGL 357	American Modernism (4)	4

### *At least one of the following courses:*

ENGL 464	English Medieval Literature (4)	4
ENGL 465	English Renaissance Literature (4)	4

### *At least two of the following courses:*

ENGL 466	The Enlightenment in Britain (4)	8
ENGL 467	The Romantic Age in Britain (4)	
ENGL 468	The Victorian Age in Britain (4)	
ENGL 469	The Modern Age in Britain (4)	
ENGL 470	Contemporary Literature in English (4)	

### *At least one of the following courses:*

ENGL 352	Theme Courses (4)	4
ENGL 485	The Classical World (4)	

### *At least one of the following courses:*

WRIT 311	Creative Writing: NonFiction (4)	4
WRIT 312	Creative Writing: Playwriting (4)	
WRIT 313	Creative Writing: Poetry (4)	
WRIT 314	Creative Writing: Short Story (4)	

# English

## ► Emphases (choose one)

### 1. British & American Literature Emphasis (18 hours)

ENGL 474 Shakespeare 4

At least one of the following courses: 4

ENGL 211 Survey of Drama (4)

ENGL 311 Development of the Novel (4)

ENGL 411 Approaches to Poetry (4)

At least 10 hours from the following: 10

ENGL literature courses (331, 355-357, 464-470)

ENGL genre courses (211, 311, 411)

ENGL theme courses (210, 212, 307, 352, WRIT 321)

### 2. English Education Emphasis (20-21 hours)

DRMA 229 Acting I: Fundamentals 3

ENGL 307 Composition Theory & Pedagogy 3

ENGL 331 Literature for Adolescents 4

ENGL 434 Advanced English Syntax 4

JOUR 141 Newswriting and Reporting 3

At least one of the following courses: 3-4

ENGL 212 Shakespeare in Performance (3)

ENGL 474 Shakespeare (4)

### 3. Writing Emphasis (18 hours)

At least 6 hours from the following: 6

ENGL 307 Composition Theory & Pedagogy (3)

ENGL 434 Advanced English Syntax (4)

JOUR 141 Newswriting and Reporting (3)

JOUR 244 Copyediting (3)

MDIA 240 Short Scriptwriting I (2)

MDIA 246 Screenwriting I (4)

WRIT 310 Advanced Expository Writing (4)

WRIT 320 Digital Rhetoric (4)

WRIT 494 Writing Internship (3)\*

At least 6 hours from the following: 6

ENGL 211 Survey of Drama (4)\*\*

ENGL 311 Development of the Novel (4)\*\*

ENGL 411 Approaches to Poetry (4)\*\*

WRIT 311 Creative Writing: NonFiction (4)

WRIT 312 Creative Writing: Playwriting (4)

WRIT 313 Creative Writing: Poetry (4)

WRIT 314 Creative Writing: Short Story (4)

WRIT 321 Digital Literature (4)

At least 6 hours from the following: 6

An additional six credits, selected from either list above.

\* Most writing internships require JOUR 141 as a prerequisite.

\*\* Only one genre course may apply.

Recommended for students wishing to go into publishing:

ARTD 110 Design: Tools, Materials and Techniques (2)

ARTD 253 Publication Technology (3)

ARTD 150 Fundamentals of Graphic Design (3)

Recommended for students wishing to go into journalism:

JOUR 341 Advanced News and Feature Writing (3)

## Teaching Credential

Students desiring to enter a program of studies leading to a California teaching credential in English should take the B.A. degree in English with the emphasis in English Education. Students will need to pass the English portion of the CSET exam one quarter prior to the full-time student teaching experience. Students are invited to discuss the program with their major advisor in the English Department.

Those who plan to teach on the secondary level should consult with the credential analyst in the Education Department and should become acquainted with the specific requirements for admission to and successful completion of the Teacher Education Program as outlined in the section entitled "Education" in this catalog.

## Minor in English

A minimum of 24 hours (12 upper-division hours)

### ► Required Courses (12 hours):

ENGL 223 British Literature Survey 4

ENGL 224 Literary Theory 4

ENGL 355 American Colonial and Romantic Periods 4

### ► Required Electives (12 hours):

At least 12 hours from the following: 12

Include at least 8 upper division hours.

ENGL literature courses (356-57, 464-70, 474, 485)

ENGL genre courses (211, 311, 411)

ENGL theme courses (210, 212, 352)

ENGL linguistics courses (335)

## Minor in Writing

A minimum of 24 hours (12 upper-division hours)

### ► Required Courses (24 hours):

Complete the requirements listed for the Writing Emphasis for the B.A., plus select an additional 6 hours of electives for a total of 24 hours. Include at least 12 upper-division hours in the selected coursework.

## Drama

Lower-Division Courses:

### **DRMA 229** **3 F, W** **Acting I: Fundamentals**

Development of stage presence through the study of improvisation, voice, movement, and acting. Introduction to points of view, characterization and interpretation of dramatic text. Includes public performance.

### **DRMA 230** **3 S** **Acting II: Scene Studies**

Development of the actor's instrument and technique through the study of a variety of dramatic texts and the experience of a variety of acting techniques. Includes public performance. Prerequisite: DRMA 229.

## English

For English placement information, see the section of this catalog entitled "General Education".

SERVICE COURSES:

(Not applicable to a major or minor in this department)

### **ENGL 099** **4 F** **Developmental Reading & Writing**

Emphasis on reading for significant details, reading for the main idea, scanning, critical reading, rate flexibility, and vocabulary development. Required of students who do not meet minimum standards of admission for ENGL 100.

### **ENGL 100** **4 F, W** **Introduction to College Composition**

For students who need to strengthen their command of basic reading and writing skills as shown by national test

scores, secondary-school grades, and diagnostic testing. Emphasis on analytical reading, writing, and usage. Required of students who do not meet minimum standards for admission to ENGL 101.

### **ENGL 101-102** **4-4 F, W, S, Su** **College English I, II**

The central purpose of ENGL 101-102 is to immerse students in academic writing, reading, and thinking practices. Through extensive inquiry-based writing, students engage in building the reflective awareness needed for success in a wide range of academic experiences.

ENGL 101: Students write consistently, are introduced to academic writing conventions, engage with challenging readings, and begin putting others' ideas in conversation with their own. Prerequisite: ENGL 100 with a minimum grade of C- or equivalent.

ENGL 102: Focuses on academic inquiry, how writers form their own research questions, and how academic writers enter and respond to an ongoing written conversation through sustained research. Students will come to understand the methods of academic inquiry resulting in analytical and research-based writing. Prerequisite: ENGL 101 with a minimum grade of C- or equivalent.

### **ENGL 301** **4 F, W, S, Su** **Themes in Literature**

Thematically organized works generally recognized as distinguished explorations and expressions of significant issues. Literature is selected from several genres, countries and time periods. Readings, lectures, discussions, reports and papers. Repeatable for credit under different subtitles. Current subtitles include:

*Class and Gender*  
*Global Perspectives*  
*Literature and the Arts*  
*Literature and the Environment*  
*Salvation Stories*

*Science & Culture*

*Travel Narratives*

Prerequisite: ENGL 102 or equivalent; enrollment limited to juniors and seniors.

LOWER-DIVISION COURSES:

### **ENGL 210** **3 Arranged** **Bay Area Theater**

Exploration of dramatic literature and elements of production, acting and stage craft through the experience of attending a total of five live theater productions in the Bay area. Emphasis on appreciation of the art form, critical analysis, and the process of creating theater. 2 credits of lecture/discussion and 1 credit of viewing lab. Prerequisite: ENGL 102.

### **ENGL 211** **4 Arranged** **Survey of Drama**

A chronological survey of dramatic literature, from Greek theater to the 21st century. Provides historical context for the development of drama as a literary genre. Prerequisite: ENGL 102.

### **ENGL 212** **2-3 Arranged** **Shakespeare in Performance**

An in-depth encounter, both in text and performance, with the four Shakespeare plays currently being presented at the Oregon Shakespeare Festival in Ashland, Oregon. Includes daily seminars, a backstage tour, and an interview with an actor. The three-credit option requires completion of an additional paper or research project. Qualifies for IP grading. Prerequisite: ENGL 102.

### **ENGL 223** **4 F** **British Literature Survey**

British literature from the Anglo-Saxon period to the 21st century. Provides historical context for the development of major literary genres. Prerequisite: ENGL 102 with a minimum grade of C.

# English

## **ENGL 224** **4 W** **Literary Theory**

Major literary theories of the 20th century and their application to selected texts. Prerequisite: ENGL 102 with a minimum grade of C.

### UPPER-DIVISION COURSES:

*ENGL 101-102 (minimum grade of C) or equivalent is prerequisite to all upper-division ENGL courses.*

## **ENGL 307** **3 S** **Composition Theory and Pedagogy**

Contemporary theories of writing processes and effective classroom practices. Even years.

## **ENGL 311** **4 F** **Development of the Novel**

A chronological study of the development of the novel as a literary genre, from the 17th century to the present. Odd years.

## **ENGL 331** **4 Arranged** **Literature for Adolescents**

Literature suitable for young adult students from grade seven through senior high school.

## **ENGL 335** **4 W** **Survey of Linguistics**

Linguistic concepts and methods: language development and second language acquisition; physiology of human speech; elementary phonology, morphology, syntax, and semantics; language change; language and thought; ethical issues in language use. Prerequisite: ENGL 224.

## **ENGL 352** **4 Arranged** **Theme Courses**

Courses with an interdisciplinary focus. Repeatable for credit under different subtitles. See each year's Class Schedule for current offerings.

*The period courses in American literature (ENGL 355-357) explore a variety of genres and authors representing each literary "period" listed. Though the emphasis is on the reading of primary works, students also apply a variety of interpretive approaches to the literature.*

## **ENGL 355** **4 F** **American Colonial and Romantic Periods**

American authors from colonial times through the romantic era, emphasizing historical context.

## **ENGL 356** **4 S** **American Realism and Naturalism**

Authors from American realists and naturalists. Even years.

## **ENGL 357** **4 S** **American Modernism**

20th century American authors to 1950. Odd years.

## **ENGL 389** **1 S** **Junior Seminar**

Techniques of literary research; choice of research topic for completion in ENGL 492 Senior Project; introduction to career planning and the graduate school application process, including preparation for professional exams (GRE).

## **ENGL 411** **4 Arranged** **Approaches to Poetry**

Explores major theories of poetic meaning and interpretation in Western thought (from the Greeks to the present).

## **ENGL 434** **4 S** **Advanced English Syntax**

A review of English grammar and syntax with attention to stylistics and classroom instruction. Even years.

*The period courses in English literature (ENGL 464-470) explore a variety of genres and authors representing each literary "period" listed. Though the emphasis is on the reading of primary works, students also apply a variety of interpretive approaches to the literature.*

## **ENGL 464** **4 F** **English Medieval Literature**

Texts from British Medieval literature. Even years.

## **ENGL 465** **4 F** **English Renaissance Literature**

Texts from British Renaissance literature. Odd years.

## **ENGL 466** **4 W** **The Enlightenment in Britain**

British writers from the Restoration and Neoclassic tradition. Odd years.

## **ENGL 467** **4 S** **The Romantic Age in Britain**

British writers of the first third of the 19th century. Odd years.

## **ENGL 468** **4 S** **The Victorian Age in Britain**

British writers from 1830 to 1880. Even years.

## **ENGL 469** **4 F** **The Modern Age in Britain**

British writers from 1880 to 1950 with focus on British Modernists. Even years.

## **ENGL 470** **4 S** **Contemporary Literature in English**

Literature in English since 1950. Odd years.

**ENGL 474** **4 W**  
**Shakespeare**

A selection of Shakespeare's histories, romances, tragedies, comedies, and poetry in the context of his times. Even years.

**ENGL 485** **4 W**  
**The Classical World**

Ancient Greece and Rome studied through primary texts, including Greek and Roman epics, dramas, histories, and philosophical works. Even years.

**ENGL 490** **1 F**  
**Senior Seminar**

Guides students in their preparation for applying to graduate school or entering the job market, including preparation for professional exams (GRE, CSET), job interviews, professional statements and cover letters, and writing samples; continuation of work on the senior project begun in ENGL 389. Prerequisite: ENGL 389.

**ENGL 492** **1 W**  
**Senior Project**

Completion and presentation of the independent project begun in ENGL 389: Junior Seminar. Requires a literary paper of approximately 20 pages, or a creative project of comparable scope. Qualifies for IP grading. Prerequisite: ENGL 490.

**ENGL 495** **1-3 Arranged**  
**Independent Study**

Offers the advanced student opportunity to pursue investigation in a field of special interest under the direction of department faculty. Repeatable to a maximum of 3 credits.

**English as a Second Language**

## SERVICE COURSE:

*(Not applicable to a major or minor in this department)*

**ENSL 100** **1-4 Arranged**  
**English for Special Purposes**

Practical language application for advanced ESL and other international students. Customized in response to student needs and interests in the following areas: professional pronunciation, advanced ESL composition, academic skills, American culture and institutions, and understanding the Christian culture. Repeatable for credit.

**Writing**

## UPPER-DIVISION COURSES:

*ENGL 101-102 (minimum grade of C) or equivalent is prerequisite to all upper-division WRIT courses.*

**WRIT 310** **4 W**  
**Advanced Expository Writing**

An advanced study of written argumentation with emphasis on logic, critical thinking, rhetorical strategies, audience and style. Emphasis on the stylistic conventions of professional writing, with application to other disciplines as relevant. Odd years.

**WRIT 320** **4 F**  
**Digital Rhetoric**

Examines and produces professional writing through digital media (including blogs, videos, hypertext, and video games). Even years.

**WRIT 321** **4 F**  
**Digital Literature**

Examines and produces creative writing through digital media (including blogs, videos, hypertext, and video games). Odd years.

**WRIT 311** **4 S**  
**Creative Writing: Nonfiction**

Techniques of and practice in writing nonfiction. Odd years.

**WRIT 312** **4 Arranged**  
**Creative Writing: Playwriting**

Techniques of and practice in playwriting.

**WRIT 313** **4 W**  
**Creative Writing: Poetry**

Techniques of and practice in writing poetry. Even years.

**WRIT 314** **4 S**  
**Creative Writing: Short Story**

Techniques of and practice in writing short stories. Even years.

**WRIT 494** **3 Arranged**  
**Writing Internship**

Supervised experience in writing on the job. A student may apply for an internship for one quarter in a department-approved workplace (examples: a college public relations office, a hospital department of communications or development, or other nonprofit organization or public relations firm). From this supervised experience in writing the student presents a portfolio containing a variety of finished documents. Qualifies for IP grading. Graded S/F.

**WRIT 495** **1-3 Arranged**  
**Independent Study**

Offers the advanced student opportunity to pursue investigation in a field of special interest under the direction of department faculty. Repeatable to a maximum of 3 credits.

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**Faculty**

Michael Hellie, chair; Charles Evans, Elaine Neudeck, Robert Paulson

Departmental Office: 60 Pacific Auditorium; 965-6344

**Degrees and Programs**

Physical Education, Teacher Education Emphasis, B.S. ....	105
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The *Exercise Science Department* serves the Pacific Union College community by providing opportunities for career development in sports professions, for instruction, and for participation.

The department has the following objectives:

- to give thorough instruction in the requirements for participation and leadership in sports activities,
- to develop a knowledge and understanding of health and safety concepts,
- to offer a wide variety of suitable activities, in and out of the classroom, in an environment that supports Christian values,
- to encourage each individual to achieve a high level of total fitness and neuromuscular coordination supporting a wholesome lifestyle, and
- to encourage daily vigorous exercise for everyone in all stages of life.

The Physical Education degree with emphasis in Teacher Education is designed for students wishing to become sports teachers. The Exercise Science degree is designed for the student who either seeks to enter medical school or advance into athletic training. This program recommends the required cognate courses for a pre-professional program and has the required courses for entering a sport medicine graduate program in athletic training.

**Major in Physical Education with Teacher Education Emphasis, B.S.**

A minimum of 84 hours (44 upper-division hours)

► *Required Core Courses (68 hours):*

ESAC 368	Water Safety Instructor	2
ESAC 370	Lifeguard Training	2
ESTH 166	Historical Foundations of Physical Education	2
ESTH 170	Care and Prevention of Athletic Injuries	2
ESTH 181	Basic Movement	2
ESTH 183	Theory and Technique of Track and Field	2
ESTH 260	Theory and Technique of Football	2
ESTH 261	Theory and Technique of Volleyball	2
ESTH 262	Theory and Technique of Basketball	2
ESTH 263	Theory and Technique of Softball	2
ESTH 264	Theory and Technique of Soccer	2
ESTH 271+2+3	Theory and Technique of Officiating	2+2+1
ESTH 287	Theory and Technique of Individual Sports	2
ESTH 365	Outdoor Experience	3
ESTH 371	Kinesiology	4
ESTH 372	Physiology of Exercise	4
ESTH 373	Introduction to Adapted Physical Activity	3
ESTH 374	Motor Learning	4
ESTH 381	Theory and Technique of Racquet Sports	2
ESTH 384	Theory and Technique of Rhythmic Activities	2
ESTH 461	Coaching I	2
ESTH 470	Management of Physical Education Programs	3
ESTH 471	Evaluation in Physical Education	3
ESTH 476	Physical Education for Children	3
ESTH 483	Theory and Technique of Weight Training and Developmental Physical Education	2
ESTH 490	Ethics in Physical Education	2
HLED 166	Health Education	2

► *Required Cognate Courses (16 hours)*

BIOL 101	Human Anatomy	5
BIOL 102	Human Physiology	5

## Exercise Science

COMM 330	Intercultural Communication	3
FDNT 235	Nutrition	3

Students majoring in physical education are expected to choose a minor in consultation with their major advisor.

### Major in Exercise Science, B.S.

*A minimum of 63 hours (32 upper-division hours):*

#### ► Required Core Courses (55 hours):

BIOL 101	Human Anatomy	5
BIOL 102	Human Physiology	5
ESAC 370	Lifeguard Training	2
ESTH 166	Historical Foundations	2
ESTH 170	Care and Prevention of Athletic Injuries	2
ESTH 181	Basic Movements	2
ESTH 265	Theory and Technique of Aquatic Fitness	2
ESTH 287	Theory and Technique of Individual Sports	2
ESTH 371	Kinesiology	4
ESTH 372	Physiology of Exercise	4
ESTH 373	Introduction to Adapted Physical Activity	3
ESTH 374	Motor Learning	4
ESTH 378	Fitness Assessment and Exercise Prescription	3
ESTH 381	Theory and Technique of Racquet Sports	2
ESTH 471	Evaluation in Physical Education	3
ESTH 483	Theory and Technique of Weight Training	2
ESTH 490	Ethics in Physical Education	2
ESTH 492	Practicum in Sports Science	3
FDNT 235	Nutrition	3
HLED 166	Health Education	2

#### ► Required Core Electives (6 hours):

*At least 6 hours from the following:*

*(To be chosen in consultation with the major advisor)*

ESTH 183	Theory and Technique of Track and Field (2)	6
ESTH 260	Theory and Technique of Football (2)	
ESTH 261	Theory and Technique of Volleyball (2)	
ESTH 262	Theory and Technique of Basketball (2)	
ESTH 263	Theory and Technique of Softball (2)	
ESTH 264	Theory and Technique of Soccer (2)	

#### Recommended Cognate Courses:

*(For students in a pre-professional program)*

BIOL 111+112+113	Biological Foundations (5+5+5)
CHEM 111+112+113	General Chemistry (5+5+5)
CHEM 371+372+373	Organic Chemistry (4+4+3)
CHEM 481+482	Biochemistry (4+4)
PHYS 111+112+113	General Physics (4+4+4)
PSYC 121	General Psychology (4)
SOCI 121	Introduction to Sociology (4)

The B.S. degree curriculum (including all recommended cognates) meets or exceeds all undergraduate science requirements for pre-medical and pre-dental students applying to Loma Linda University and many other schools.

### Teaching Credential

Students desiring to enter a program of studies leading to a California teaching credential in physical education should take the B.S. degree in Physical Education, Teacher Education Emphasis. Students will need to pass the physical education portion of the CSET exam one quarter prior to doing full-time student teaching. Students are invited to discuss the program with their major advisor in the Exercise Science Department.

Those who plan to teach on the secondary level should consult with the credential analyst in the Education Department and should become acquainted with the specific requirements for admission to and successful completion of the Teacher Education Program as outlined in the section entitled "Education" in this catalog.

### Minor in Physical Education

*A minimum of 30 hours (12 upper-division hours)*

#### ► Required Courses (10 hours):

ESTH 166	Historical Foundations of Physical Education	2
ESTH 170	Care and Prevention of Athletic Injuries	2
ESTH 470	Management of Physical Education Programs	3
ESTH 471	Evaluation in Physical Education	3

#### ► Required Electives (20 hours):

*(To be chosen in consultation with the major advisor)*

*At least 10 hours from the following:* 10

ESTH	Theory and Technique courses
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*At least 10 hours from the following:* 10

ESTH	Any ESTH courses
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**Exercise Science  
Activity–Aerobic**

*ESAC courses are repeatable for credit. Proper attire is required for participation in activity classes. Additionally, certain classes require specialized equipment. Activity classes meet for a minimum of 2 hours each week. Certain classes involve additional activity time.*

Contact the Exercise Science Department for detailed information on the requirements for any particular activity course.

LOWER-DIVISION COURSES:

**ESAC 101A 1 F, W, S  
Jogging**

For the beginning/intermediate jogger. Instructions pertaining to cardiovascular/muscular fitness, running style, running equipment, and personal running program development.

**ESAC 103A 1 F, W, S  
Physical Fitness**

Introduction to fitness by means of cardiovascular development. Various fitness machines are used to inspire a commitment to cardiovascular fitness that will hopefully extend beyond the duration of this course.

**ESAC 105A 1 W, S  
Fitness for Women**

For female students wanting to get started on an exercise program with some variety. Significant class time is dedicated to aerobic-type workouts. Also includes weight training, kickboxing and cardio moves to music.

**ESAC 107A 1 F, S  
Swim and Stay Fit**

The use of swimming skills to enhance muscular and cardiovascular fitness. Focuses on acquisition of the skills and knowledge needed to maintain and enhance cardiovascular and muscular fitness. Proficiency in swimming strokes required.

**ESAC 109A 1 S  
Hydro-Aerobics**

A low-medium impact conditioning and toning class. Shallow and deep water movements utilizing calisthenics and strengthening exercises are employed to learn how water exercises are a rehabilitation modality for injuries and a method for maintaining fitness.

UPPER-DIVISION COURSES:

**ESAC 304A 1 S  
Cycling**

Aspects pertaining to the elements of road cycling. Includes safety, riding techniques, bike maintenance, and physical conditioning. This class is not for beginners and requires adequate physical conditioning. Road bike required. (A limited number of bikes are available for student use- please make inquiries to the professor.)

**ESAC 338A 1 F  
Ultimate Frisbee**

This course is designed to teach the fundamental skills and rules of Ultimate Frisbee as well as how to play the game and how to implement basic strategies used in the game. Emphasis placed on skills, rules, and participation in playing the game of Ultimate Frisbee.

**Exercise Science  
Activity**

*ESAC courses are repeatable for credit. Proper attire is required for participation in activity classes. Additionally, certain classes require specialized equipment. Activity classes meet for a minimum of 2 hours each week. Certain classes involve additional activity time.*

Contact the Exercise Science Department for detailed information on the requirements for any particular activity course.

LOWER-DIVISION COURSE:

**ESAC 100 1 Arranged  
Adaptive Physical Education**

Designed to accommodate students with physical limitations. Cardiovascular endurance, muscular strength, muscular endurance and flexibility are employed and adapted to fit the individual needs/abilities of the student. Requires physician's certification of need. Repeatable for credit.

**ESAC 120 1 W  
Elementary Basketball**

Focuses on the fundamentals of basketball, such as, dribbling, passing, shooting, footwork, and defensive stance. Fundamental strategy for both offensive and defensive play also are covered.

**ESAC 123 1 S  
Baseball- Men**

Introduces students to the basic concepts to enhance the skill levels of baseball activities. Proper techniques to fielding, base running, throwing in addition to hitting a baseball are introduced.

## Exercise Science

### **ESAC 124** **1 F** **Flag Football**

Introduces students to the basic skills of flag football, including throwing, catching, kicking, punting, and flag pulling. Also covers a basic knowledge of the rules and game strategies.

### **ESAC 128** **1 F, S** **Soccer**

Cover the basic elements in the game of soccer, including ball-handling skills, shot making, offensive/defensive alignments and game strategy. The rules, terminology and history of the game also are included. Fall quarter enrollment limited to members of the men's varsity soccer team. Spring quarter enrollment is open to other students.

### **ESAC 130** **1 S** **Softball**

Introduces the basic skills of softball, including fielding, throwing, hitting, base running, and pitching. Students should have a glove and proper shoes to participate.

### **ESAC 132** **1 F, W** **Elementary Volleyball**

Designed to introduce students to the basic skills, rules, and strategies of the game of volleyball. Skills are demonstrated, practiced and then implemented in class games.

### **ESAC 133** **1 F** **Mountain Biking**

Encompasses aspects pertaining to the elements of mountain bike riding. Topics covered include safety, riding techniques, bike maintenance, and physical conditioning.

### **ESAC 158** **1 F** **Elementary Swimming**

Assists the non-swimmer as he or she explores the aquatic environment and develop the skills needed to enjoy time in and around the water. The class is intended for students with little or no swimming skills and who would likely not survive in deep water. Even years.

### **ESAC 160** **1 S** **Fencing**

Fundamental skills in fencing. Rules, terminology and history of the game also are included.

### **ESAC 171** **1 W** **Pickleball**

Aspects of pickleball (i.e. ground strokes, serve, baseline volley, drop shot, drop volley, court coverage and more). Rules, terminology and history of the game also are included.

### **ESAC 174** **1 W** **Elementary Badminton**

Fundamental skills and rules in badminton, along with an introduction to the drop shot and smash and an emphasis on doubles and singles strategy. Conditioning is a part of every class.

### **ESAC 176** **1 F, W, S** **Elementary Weight Training**

An introductory course designed to help each student improve muscular strength, gain knowledge and understanding of weight training theory and practice, and develop a personalized weight training program.

### **ESAC 178** **1 S** **Canoeing**

Exposes students to the skills and experiences involved in the world of canoeing at the basic level. Includes time in both still and running water.

### **ESAC 180** **1 F** **Elementary Golf**

The basic rules and etiquette of golf. Also includes the basic fundamentals of the golf swing. Safety issues are discussed and golf strategy is introduced. Students must pay for range balls and green fees. For current rates, inquire at the ESHN Department.

### **ESAC 192** **1 W** **Elementary Skiing/Snowboarding**

Covers equipment, basic techniques, and safety rules for on-the-trail and off-the-trail safety. Conditioning and discussion about techniques is a major part of class activity. On hill instruction is offered by Sierra at Tahoe Resort only. Additional fees apply. For current rates, inquire at the ESHN Department.

### **ESAC 194** **1 F, S** **Elementary Tennis**

Covers the most basic fundamentals in tennis: the basic stance, footwork, forehand/backhand strokes, volley and the serve. After an introduction to singles and doubles strategy and the rules of the game, there is a doubles tournament in class and two singles games played outside of class (at scheduled times).

#### UPPER-DIVISION COURSES:

### **ESAC 368** **2 S** **Water Safety Instructor**

Instructs students to become a teacher of the American Red Cross Learn to Swim Program. Prerequisite: Intermediate level proficiency in the crawl stroke, breast stroke, side stroke & butterfly; basic diving skills from the one meter springboard. Students must pass a skills pre-test before being allowed to continue in class. Recommended prerequisite: Red Cross Level 5. Even years.

**ESAC 370 2 S**

**Lifeguard Training**

Meets and exceeds the requirements of the American Red Cross for certification as a Lifeguard. Prerequisite: Proficiency in the crawl stroke and breast stroke. Students must pass American Red Cross Skills Test before being allowed to continue in class. Recommended prerequisite: Red Cross Level 5.

**ESAC 374 1 W**

**Intermediate Badminton**

Reviews and enhances fundamental skills, with an emphasis on more technical skills (i.e. the flick serve, drop/push shots and the 1/2 smash). Much of the time is spent in playing games but drill work, conditioning, and self-evaluation testing is a part of the class as well.

**ESAC 376 1 W**

**Intermediate Weight Training**

Assists students in developing a weight training program that focuses on one of three areas: body building, sport specific, and rehabilitation of an injury. After determining and executing the training program, the student selects his/her individual workout format based on the workout encyclopedia and the CD-ROM program companion. Odd years.

**ESAC 380 1 S**

**Intermediate Golf**

Mechanics and techniques of the full golf swing, pitching, chipping, bunker play and putting. Skills improvement by playing rounds of golf. Also covers basic rules of golf and proper golf etiquette. Students must pass a basic golf skills test at the first day on the range in order to continue enrollment in the class. Additional fees apply. For current rates, inquire at the ESHN Department.

**ESAC 392 1 W**

**Intermediate Skiing/Snowboarding**

Covers equipment, basic techniques, and safety rules for on-the-trail and off-the-trail safety when skiing. Conditioning is a major part of class activity as well as discussion about techniques. Additional fees apply. For current rates, inquire at the ESHN Department.

**ESAC 394 1 S**

**Intermediate Tennis**

Designed for the intermediate-advanced player to improve skills, game strategies, and learn advanced techniques of tennis. Students must be able to hit consistent forehand and backhand ground strokes as well as serve in the proper court with some force at 50% accuracy.

**Varsity Teams**

*ESAC courses are repeatable for credit.*

UPPER-DIVISION COURSES:

**ESAC 333V 1 F**

**Volleyball- Varsity Women**

Enrollment limited to members of the women's varsity volleyball team.

**ESAC 335V 1 W**

**Basketball- Varsity Women**

Enrollment limited to members of the women's varsity basketball team.

**ESAC 336V 1 W**

**Basketball- Varsity Men**

Enrollment limited to members of the men's varsity basketball team.

**ESAC 337V 1 F**

**Soccer- Varsity Men**

Enrollment limited to members of the men's varsity soccer team.

**ESAC 338V 1 F**

**Cross Country- Varsity**

Enrollment limited to members of the varsity cross country team.

**Professional and Theory**

LOWER-DIVISION COURSES:

**ESTH 166 2 W**

**Historical Foundations of Physical Education**

History of physical education, health and recreation. Effects of social expectations and world events on views of physical education and sports. An introduction to careers in these and related fields.

**ESTH 170 2 W**

**Care and Prevention of Athletic Injuries**

Care and prevention of injuries associated with coaching and teaching sport and game activities in a school setting. Topics include sprains, bleeding, fractures, exposure to heat and cold, seizures, heart attacks, accidental exposure to poisons and chemicals, and other injuries requiring immediate medical attention.

**ESTH 181 2 F**

**Basic Movement**

Fundamentals of body movement, posture, conditioning exercises, self-testing activities; selection, evaluation, and organization of social recreational activities. Odd years.

**ESTH 183 2 S**

**Theory and Technique of Track and Field**

Practice sessions and drills for developing fundamental skills and special abilities; study of rules and officiating techniques; consideration of practice scheduling and strategy. Odd years.

## Exercise Science

### **ESTH 260** **2 F**

#### **Theory and Technique of Football**

Practice in and theory of flag football. Development of fundamental skills of the game; analysis of skills, techniques, team strategy, and rules. Even years.

### **ESTH 261** **2 F**

#### **Theory and Technique of Volleyball**

Practice in and theory of volleyball. Development of fundamental skills of the game; analysis of skills, techniques, team strategy, and rules. Even years.

### **ESTH 262** **2 W**

#### **Theory and Technique of Basketball**

Analysis and practice of skills and team play; interpretation of rules; strategy and techniques of teaching. Even years.

### **ESTH 263** **2 S**

#### **Theory and Technique of Softball**

Practice in and theory of softball. Development of fundamental skills of the game; analysis of skills, techniques, team strategy, rules and officiating procedures. Even years.

### **ESTH 264** **2 S**

#### **Theory and Technique of Soccer**

Practice and theory of soccer. Development of fundamental skills of the game; analysis of skills, techniques, team strategy and rules. Even years.

### **ESTH 265** **2 F**

#### **Theory and Technique of Aquatic Fitness**

Emphasis on the theory of how to develop appropriate workout programs in the area of aquatics. Students learn choreography of water exercise programs in aquatic aerobics, swimming fitness, and adaptive water exercise. Students participate in individual fitness performance and develop programs for specific

population demographics, specific ages, and those with special needs. Prerequisite: Intermediate-level proficiency in the crawl stroke and breast stroke. Odd years.

### **ESTH 271+272+273** **2+2+1 F+W+S**

#### **Theory and Practice of Officiating I, II, III**

Theory of and practice in officiating at team sports, interpretation of rules, officiating techniques, examinations, and ratings. Consists of a combination of lectures and practice. Prerequisite: Previous experience in playing football, volleyball, basketball, and softball.

### **ESTH 287** **2 S**

#### **Theory and Technique of Individual Sports**

Development of fundamental skills and strategies in various individual activities such as handball, golf, racquetball, and archery. Emphasis on teaching techniques, officiating, rules, and organization of materials for school programs. Additional fees apply. For current rates, inquire at the ESHN Department. Odd years.

#### UPPER-DIVISION COURSES:

### **ESTH 365** **3 S**

#### **Outdoor Experience**

Theory and practice in camping, hiking, backpacking, and canoeing techniques. Ecological considerations, equipment and food selection, outdoor cooking, and orienteering. One credit may apply to the Fitness general education requirement. Additional fees apply. For current rates, inquire at the ESHN Department.

### **ESTH 371** **4 F**

#### **Kinesiology**

A study of joints and muscular structure and their relation to physical exercise. Three lectures and one laboratory per week. Prerequisites: BIOL 101, 102. Odd years.

### **ESTH 372** **4 F**

#### **Physiology of Exercise**

Physiological effects of muscular exercise, physical conditioning, and training. Significance of these effects for health and for performance in activity programs. Three lectures and one laboratory per week. Prerequisites: BIOL 101, 102. Even years.

### **ESTH 373** **3 S**

#### **Introduction to Adapted Physical Activity**

Common deviations of posture and feet; functional disturbances and crippling conditions found in school children. Survey of source material needed to plan and conduct individual, developmental, and special courses in physical education in schools. Odd years.

### **ESTH 374** **4 W**

#### **Motor Learning**

Physiological and psychological instructional considerations for learning, skill acquisition, and performance as applied to motor skills. Three lectures and one laboratory per week. Prerequisites: BIOL 101, 102, and two lower-division ESTH Theory and Technique courses. Even years.

**ESTH 378** **3 W**  
**Fitness Assessment and Exercise Prescription**

Introduction to the theoretical and practical aspects of exercise assessment, exercise interpretations, and exercise prescription. Covers principles of exercise prescription with hands-on experiences using various clinical and field methods to evaluate cardiorespiratory fitness, muscular strength and endurance, flexibility and body composition. Prerequisite: ESTH 372. Odd years.

**ESTH 381** **2 F**  
**Theory and Technique of Racquet Sports**

Analysis of and practice in strokes and tactics; rules, history and skill progression for various levels of instruction. Odd years.

**ESTH 384** **2 W**  
**Theory and Technique of Rhythmic Activities**

Development of personal and teaching skills for theoretical and practical application of rhythms: the leadership of aerobic exercise, dramatic and creative play, folk rounds, and other activities. Development of skills for personal combative activities and techniques for teaching such skills. Odd years.

**ESTH 461** **2 W**  
**Coaching I**

Designed to develop skills for coaching athletic teams. Development of philosophies in harmony with Seventh-day Adventist principles concerning athletic events. Skills in team building and strategies. Practical experience included. Prerequisites: At least 3 of the following courses- ESTH 260, 261, 262, 263, 264. Even years.

**ESTH 470** **3 F**  
**Management of Physical Education Programs**

Relationship of physical education to modern education theory. The organization of physical education activities, organization and classification of pupils; emphasis on the arrangement and construction of equipment and planning of school programs suitable to denominational schools. Odd years.

**ESTH 471** **3 W**  
**Evaluation in Physical Education**

Scientific testing in physical education: analysis and study of tests, diagnosis of physical efficiency, and physiological reactions to exercise. Evaluation of programs and student achievement through measurement technique. Odd years.

**ESTH 476** **3 F**  
**Physical Education for Children**

Activity interests of children and appropriate materials for different age levels; selection of materials and methods of presentation. Consists of a combination of lectures and practice. Applies as one course for the Fitness general education requirement.

**ESTH 483** **2 S**  
**Theory and Technique of Weight Training and Developmental Physical Education**

An analysis of the physiological and biomechanical application of resistant training, cross training and sports nutrition for athletes participating in team and individual sports. Principles of program design, supervision, and technique assessment for pre-season, season and post season development. Prerequisite: ESTH 371. Even years.

**ESTH 490** **2 W**  
**Ethics in Physical Education**

The power of religion in developing Christian professionals in health, physical education and recreation. Concepts of the way God, man and Spirit relate to one another; development of Christlike leadership qualities in both instructors and students. Even years.

**ESTH 492** **3 S**  
**Practicum in Sports Science**

Combines classroom work with practical hands-on experience to prepare students to continue their education in the fields of athletic training, personal training, sports physical therapy, or sports medicine. Skills developed in the program are taken from the following areas: anatomy and physiology, athletic injury care, prevention and rehabilitation, physical therapy, fitness programs for individuals and groups, health and wellness, nutrition, and strength training. Should be taken during the student's last year at Pacific Union College before graduation.

**ESTH 495** **1-3 Arranged**  
**Independent Study**

Open by permission of the department chair to advanced students with adequate background and experience. Repeatable to a maximum of 3 credits.

# Exercise Science

## Health Education

### LOWER-DIVISION COURSES:

#### **HLED 162** **2 W, S**

##### **Fitness for Life**

Introduces the philosophy of health, aimed at lasting nutritional and physical conditioning that promotes a high level of well-being. Emphasis on the prevention of heart disease, obesity, and stress. Laboratory evaluation in body composition, blood analysis, stress testing, and the treadmill.

#### **HLED 166** **2 F, W**

##### **Health Education**

Encourages the development of self-awareness and promotes “wellness” as a life-long personal investment. Advocates protection and effective use of human and ecological resources and acquiring skills for individual responsibility. Emphasis on Seventh-day Adventist health principles. Treats substance abuse and nutrition as required for SDA and California teaching credentials.

#### **HLED 169** **2 Arranged**

##### **Current Health Concerns**

Explores the background and cause of common health problems of the adult as well as prevention and treatment. Designed to promote physical vitality and a sense of well-being.

#### **HLED 495** **1-3 Arranged**

##### **Independent Study**

Open by permission of the department chair to advanced students with adequate background and experience. Repeatable to a maximum of 3 credits.



## Faculty

Hilary Dickerson, chair; Ileana Douglas, Paul McGraw,  
Howard Munson

Departmental Office: 209 Irwin Hall; 965-6403

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Students in the *History Department* explore the civilizations of Africa, Asia, Europe, North America, and South America. Using original and secondary written sources, films, and other documents, and through field trips and summer study programs outside the United States, departmental faculty work with their students in the study of geography, history, and political science.

Scholarship is encouraged and recognized by membership in Phi Alpha Theta, the history honors society, and through debates, lectures, and student and faculty presentations sponsored by Pacific Union College's Alpha Zeta Theta Chapter.

Students have access to the Utt Memorial Library in the department's seminar room and the adjacent Honors Program Common Room. Faculty-student suppers and discussion groups complete the collegial and friendly atmosphere, the hallmark of the department.

Prospective teachers should take a Social Studies major and consult with department teachers about non-departmental courses. Following completion of the Social Studies major each student seeking a California teaching certificate must take the California Subject Examination for Teachers (CSET).

## Major in History, B.A.

A minimum of 55 hours (31 upper-division hours):

### ► Required Core Courses (30 hours):

HIST 101+102	History of World Civilizations I, II	4+4
HIST 134+135	History of the United States I, II	4+4
HIST 180+181+182	History Methods IA, IB, IC	1+1+1
HIST 280	History Methods II	2
HIST 380	History Methods III	2
HIST 480+481+482	Senior Thesis I, II, III	1+1+1

At least one of the following courses:

HIST 450	History Study Tour (4)	4
ARCH 494	Fieldwork in Middle East Archeology (4)*	

### ► Emphases (choose one):

#### 1. American History Emphasis (25 hours)

HIST 411	Seminar in the History of the Americas	4
At least one of the following courses:		3
HIST 210	Introduction to African History (3)	
HIST 220	Introduction to Ancient History (3)	
HIST 230	Introduction to Asian History (3)	
HIST 240	Introduction to Latin American History (3)	

At least one of the following courses:

HIST 328	Medieval Europe (4)	3-4
HIST 329	Renaissance Europe (4)	
HIST 331	Early Modern Europe (4)	
HIST 332	Europe Since Napoleon (4)	
HIST 351	History of Culture (3)**	
HIST 361	The World Since 1945 (4)	

\* Offered during even-year summers in Jordan at the Madaba Plains Project excavation in consortium with La Sierra University (LSU). Credits are earned through LSU and transferred to PUC.

\*\* Must be a European topic.

# History

At least three of the following courses: 11-12  
 HIST 351 History of Culture (3)\*\*  
 HIST 355 Colonial America (4)  
 HIST 356 The New Nation: 1763-1820 (4)  
 HIST 357 Civil War and Reconstruction (4)  
 HIST 358 Recent America (4)

At least one of the following courses: 4  
 HIST 410 Seminar in African History (4)  
 HIST 412 Seminar in Asian History (4)  
 HIST 413 Seminar in European History (4)  
 ARCH 432E Ancient Medieval Archeology (4)\*  
 ARCH 445 Old Testament Archeology (4)\*  
 ARCH 446 New Testament Archeology (4)\*

## 2. European History Emphasis (25 hours)

HIST 413 Seminar in European History 4

At least one of the following courses: 3

HIST 210 Introduction to African History (3)  
 HIST 220 Introduction to Ancient History (3)  
 HIST 230 Introduction to Asian History (3)  
 HIST 240 Introduction to Latin American History (3)

At least three of the following courses: 11-12  
 HIST 328 Medieval Europe (4)  
 HIST 329 Renaissance Europe (4)  
 HIST 331 Early Modern Europe (4)  
 HIST 332 Europe Since Napoleon (4)  
 HIST 351 History of Culture (3)\*\*  
 HIST 361 The World Since 1945 (4)

At least one of the following courses: 3-4

HIST 351 History of Culture (3)\*\*  
 HIST 355 Colonial America (4)  
 HIST 356 The New Nation 1763-1820 (4)  
 HIST 357 Civil War and Reconstruction (4)  
 HIST 358 Recent America (4)

At least one of the following courses: 4

HIST 410 Seminar in African History (4)  
 HIST 411 Seminar in the History of the Americas (4)  
 HIST 412 Seminar in Asian History (4)  
 ARCH 432E Ancient Medieval Archeology (4)\*  
 ARCH 445 Old Testament Archeology (4)\*  
 ARCH 446 New Testament Archeology (4)\*

\* Offered during even-year summers in Jordan at the Madaba Plains Project excavation in consortium with La Sierra University (LSU). Credits are earned through LSU and transferred to PUC.

\*\* Must be a European topic.  
 \*\*\*Must be an American topic.

## Major in History, Political Studies and Ethics, B.S.

A minimum of 67 hours (41 upper-division hours):

### > Required Core Courses (67 hours):

HIST 134+135	History of the United States I, II	4+4
HIST 181	History Methods IB	1
HIST 280	History Methods II	2
PHIL 101	Introduction to Philosophy	4
PLSC 124	Introduction to American Government	3
PLSC 274	Introduction to Political Thought	3
PLSC 414	Seminar in Political Studies	4
WRIT 310	Advanced Expository Writing	4

At least one of the following courses: 4

HIST 450	History Study Tour (4)	
ARCH 494	Fieldwork in Middle East Archeology (4)*	

At least one of the following options: 3

HIST 480+481+482	Senior Thesis I, II, III (1+1+1)	
PLSC 494	Internship (3)	

At least two of the following courses: 8

HIST 331	Early Modern Europe (4)	
HIST 332	Europe Since Napoleon (4)	
HIST 356	New Nation: 1763-1820 (4)	
HIST 358	Recent America (4)	
HIST 361	The World Since 1945 (4)	

At least three of the following courses: 9

PLSC 328	Critical World Issues (3)	
PLSC 329	Environmental Policy (3)	
PLSC 330	Modern Comparative Government (3)	
PLSC 340	History of Political Thought (3)	
PLSC 485	Foreign Relations of the U.S. (3)	

At least two of the following courses: 6

JOUR 434	Media Communication Ethics (3)	
RELT 216	Intro to Christian Ethics (3)	
RELB 315	Biblical Ethics (3)	
RELT 355	Christian Ethics in Society (3)	
RELT 440	Christian Bioethics (3)	

At least three of the following courses: 8-9

BUAD 223	Personal Law (2)	
BUAD 325, 326	Business Law I, II (3+3)	
COMM 426	Argumentation (3)	
COMM 427	Persuasive Communication (3)	

### Recommended Cognates

ECON 261, 265	Macroeconomics, Microeconomics (4,4)
PSYC 121	General Psychology (4)
SOCI 121	Intro to Sociology (4)

SOCI 232 American Social Problems (4)  
 SOCI 355 "Racial" and Ethnic Relations (3)

**Major in Social Studies, B.S.**

A minimum of 70 hours (30 upper-division hours):

► **Required Core Courses (30 hours):**

HIST 101+102	History of World Civilizations	4+4
HIST 134+135	History of the United States	4+4
HIST 180	History Methods I (3 quarters)	1+1+1
HIST 280	History Methods II	2
HIST 395	Social Studies Seminar	2
HIST 480	Senior Thesis (3 quarters)	1+1+1

At least one of the following courses: 4

HIST 450	History Study Tour (4)
ARCH 494	Fieldwork in Middle East Archeology (4)*

► **Required Core Electives (40 hours):**

Complete at least 40 hours of electives, including at least 21 upper-division hours, distributed as described:

At least 22 hours from the following 22  
 Additional HIST courses

Any three of the following options: 18

- At least 6 hours from ECON courses
- At least 6 hours from GEOG courses
- At least 6 hours from PLSC courses
- At least 6 hours from SOCI courses

Electives should be chosen in consultation with the advisor.

**Teaching Credential**

Students desiring to enter a program of studies leading to a California teaching credential in social science should take the B.S. degree in Social Studies. Students will need to pass the social science portion of the CSET exam one quarter prior to doing full-time student teaching. Students are invited to discuss the program with their major advisor in the History Department.

Those who plan to teach on the secondary level should consult with the credential analyst in the Education Department and should become acquainted with the specific requirements for admission to and successful completion of the Teacher Education Program as outlined in the section entitled "Education" in this catalog.

**Minor in History**

A minimum of 30 hours (9 upper-division hours)

► **Required Courses (21 hours):**

HIST 101+102	History of World Civilizations	4+4
HIST 134+135	History of the United States	4+4
HIST 180	History Methods I	1+1+1
HIST 280	History Methods II	2

► **Required Electives (9 hours):**

At least 9 hours from the following: 9  
 Upper-division HIST courses

**Economics**

(See Business Administration and Economics for course descriptions.)

**Geography**

LOWER-DIVISION COURSES:

**GEOG 210** 3 W  
**World Regional Geography**

Regions of the world and their cultural, historical, climatic, and economic similarities or diversities. Emphasis on current developments. Even years.

**GEOG 220** 3 W  
**Geography of the Americas**

Climate, natural resources, political, and economic geography of North and South America. Odd years.

**History**

LOWER-DIVISION COURSES:

**HIST 101+102** 4+4 F, W, S  
**History of World Civilizations I, II**

Major characteristics and developments in world civilizations based on primary and secondary texts. Also integral:

discussion of history's place in the liberal arts and of the problems of the historical method. Prerequisite: ENGL 100.

**HIST 134+135** 4+4 F, W, S  
**History of the United States I, II**

The United States from colonial beginnings to the present time. The central theme is the growth of American democracy with its implications for government and society, racial and religious minorities and the emergence of the nation as a world power. Prerequisite: ENGL 100.

# History

## **HIST 180+181+182 1+1+1 F, W, S** **History Methods IA, IB, IC**

An introduction to the major, the department, its faculty and to the basic writing skills required for the survey courses in World Civilizations and U.S. History. Required for departmental majors during the freshman year.

## **HIST 210 3 S** **Introduction to African History**

Sub-Saharan Africa from the earliest societies to the modern era. Topics include the development of ancient African kingdoms and their customs, the spread and influence of Islam, the arrival of Europeans, colonialism and decolonization. Odd years.

## **HIST 220 3 F** **Introduction to Ancient History**

Ancient civilizations from their emergence to their collapse, with special attention to the development of government, philosophy and the arts. Even years.

## **HIST 230 3 W** **Introduction to Asian History**

Asian civilization from earliest times to the present. Primarily focuses on Japan and China with special attention to social, economic, political and intellectual developments. Odd years.

## **HIST 240 3 W** **Introduction to Latin American History**

Latin America from the earliest civilizations to the present. Emphasis on cultural, political, and economic trends. Even years.

## **HIST 280 2 S** **History Methods II**

Builds on the writing skills established during the freshman seminar series and introduces majors to the dominant historiographical schools in the field of history. Requires a major research paper based on primary and secondary sources. Prerequisite: HIST 180 or permission of the instructor.

### UPPER-DIVISION COURSES:

## **HIST 320 3 F** **Christian History: To 1054** (See also RELH 320.)

Development of the Christian Church from its pre-Christian origins to 1054, the year of the East-West schism. Emphasis on those social, political, intellectual, and religious pressures that contributed to the formation of Christian doctrines and the establishment of hierarchy and institutions. Detailed examination of significant work by major Christian figures. Even years.

## **HIST 321 3 W** **Christian History: 1054 to 1600** (See also RELH 321.)

Developments in the Christian Church from the high Middle Ages to the Protestant Reformation. Emphasis on the major historical, theological and cultural forces that influenced the medieval church and gave rise to the Protestant Reformation. Examination of the work and writings of various Protestant reformers. Odd years.

## **HIST 322 3 S** **Christian History: 1600 to the Present** (See also RELH 322.)

Development of the Christian Church from the aftermath of the Protestant Reformation to the present day. Emphasis on the effects on the Church of major cultural movements, such as

the Enlightenment, colonization and imperialism, modern warfare, and ecumenism. Detailed examination of significant works by Christians in response to "the modern world."

## **HIST 328 4 F** **Medieval Europe**

The vital period from 300 to 1400, which saw the creation of Europe. The priorities and characteristics of the civilization which facilitated the emergence of a multifaceted medieval society that serves as the ancestor of the modern world. Prerequisites: HIST 101, 102, 280. Odd years.

## **HIST 329 4 W** **Renaissance Europe**

Europe from the 14th to 17th centuries, when experiments in art, literature, political theories and systems, and religion were prominent features of society. Prerequisites: HIST 101, 102, 280. Odd years.

## **HIST 331 4 F** **Early Modern Europe**

Europe from 1648 to 1815, with special attention to the effect of the Age of Reason on the modern mind, the growth of the bureaucratic state, and the impact of the era of revolution. Prerequisites: HIST 101, 102, 280. Even years.

## **HIST 332 4 W** **Europe Since Napoleon**

The political, social and religious trends during the 19th and 20th centuries. Prerequisites: HIST 101, 102, 280. Even years.

## **HIST 337 3 S** **History of California**

The geographic, economic, social, and historical factors which have contributed to the development of California. Odd years.

- HIST 351** **3 W**  
**History of Culture**  
 Thematic study of culture as it influences the world today. Emergence of culture through literature, sports, movies, radio, television, media, religion, and food. Appropriate for both majors and non-majors. Repeatable for credit under different subtitles.
- HIST 355** **4 W**  
**Colonial America**  
 The discovery, settlement, and growth of the European colonies in America, emphasizing those religious, political, and economic developments, particularly in the English colonies, that prepared the way for independence. Prerequisites: HIST 134, 135, 280. Even years.
- HIST 356** **4 F**  
**The New Nation: 1763-1820**  
 The formative period of American national identity between 1763 and 1820. Includes intensive study of the creation and development of the U.S. Constitution. Prerequisites: HIST 134, 135, 280. Odd years.
- HIST 357** **4 F**  
**Civil War and Reconstruction**  
 Slavery, the nature of the Union and the immediate and permanent effects of the Reconstruction on America. Prerequisites: HIST 134, 135, 280. Even years.
- HIST 358** **4 W**  
**Recent America**  
 The rapid changes in American society, economy, and politics since World War II. Prerequisites: HIST 134, 135, 280. Odd years.
- HIST 360** **4 W, S, Su**  
**Adventist Heritage**  
 (See also RELH 360)  
 An interdisciplinary exploration of theological and historical issues important to an understanding of the Advent Movement and the ministry of Ellen G. White. Meets the requirement in Prophetic Guidance and Denominational History for SDA teaching credentials.
- HIST 361** **4 S**  
**The World Since 1945**  
 Major issues and developments in World History from since the end of World War II. Includes nationalism, decolonization and independence movements, the Cold War, globalization, international politics and economics, and conflicts around the world. Prerequisites: HIST 102, 135, 280. Odd years.
- HIST 380** **2 S**  
**History Methods III**  
 Refines writing and analytical skills developed in freshman and sophomore seminars. Introduces majors to the professionalization of history and history as a career. Includes conference paper presentations, admission to and preparation for graduate school, and guest lecturers from the field of history. Prerequisites: HIST 180, 280.
- HIST 395** **2 S**  
**Social Studies Seminar**  
 Focuses on the preparation of social studies majors for careers in education, law and history. Incorporates preparation for the California Subject Examination for Teachers in History.
- HIST 410** **4 S**  
**Seminar in African History**  
 Themes in African history. Requires a major research paper. Repeatable for credit under different topics. Prerequisites: HIST 210, 280. Even years.
- HIST 411** **4 F**  
**Seminar in the History of the Americas**  
 Themes in U.S. and Latin American history. Requires a major research paper. Repeatable for credit under different topics. Prerequisites: HIST 134, 135, 240, 280. Odd years.
- HIST 412** **4 W**  
**Seminar in Asian History**  
 Themes in Asian history. Requires a major research paper. Repeatable for credit under different topics. Prerequisites: HIST 230, 280. Even years.
- HIST 413** **4 F**  
**Seminar in European History**  
 Themes in European history. Requires a major research paper. Repeatable for credit under different topics. Prerequisites: HIST 101, 102, 280. Odd years.
- HIST 450** **4 Su**  
**History Study Tour**  
 Summer travel opportunity for majors. Topics vary. Repeatable for credit under different subtitles. Prerequisites: HIST 101, 102, 134, 135 and appropriate introductory course. Even summers.
- HIST 480+481+482** **1+1+1 F, W, S**  
**Senior Thesis I, II, III**  
 First quarter serves as a preparation course for writing the senior thesis and requires the production of a thesis proposal. Second quarter incorporates the writing of the senior thesis. Third quarter consists of a formal thesis presentation to faculty and peers. These quarters must be taken in order and each section must be successfully completed in order to move on to the next term. Prerequisite: HIST 380. Eligible for IP grading.

# History

## **HIST 495** 1-3 Arranged **Independent Study**

Individual research; open by permission of the department chair to advanced students with an adequate background. Repeatable to a maximum of 3 credits.

## Political Science

### LOWER-DIVISION COURSES:

## **PLSC 124** 3 F **Introduction to American Government**

The development and functioning of the American machinery of government and a study of the political processes, both formal and informal, in which the citizen is involved.

## **PLSC 274** 3 F, S **Introduction to Political Thought**

An introduction to the perennial questions and major thinkers in this area of philosophy.

### UPPER-DIVISION COURSES:

## **PLSC 328** 3 Su **Critical World Issues**

An important issue is selected by the instructor, discussed in class, and studied as a research topic. May include one or more of the following: the elements of national power, the dynamics of state conflict, national traits and policy patterns, the role of ideologies or moral considerations in the decision-making process, and the relationship between a society's world view and the realities of policy-making. Repeatable for credit under different topics.

## **PLSC 329** 3 W **Environmental Policy**

Examination of environmental issues and their role in shaping local and national policies in the United States. Of particular interest will be political responses to environmental crises, the creation of local and national laws and their impact on both rural and urban spaces and role of the United States Environmental Protection Agency. Prerequisite: PLSC 124.

## **PLSC 330** 3 S **Modern Comparative Government**

Introduction to the different types of states and organizations of government around the world and the concepts, ideas and methods behind these variations. Focus on the comparison between the government of the United States and Western Europe. Includes economic development, political institutions and processes, democracy and democratizations, political culture, revolutions, nations and nationalism, and other selected topics. Prerequisites: PLSC 124, 274.

## **PLSC 340** 3 W **History of Political Thought**

Selected ancient, medieval, and modern political thinkers. Prerequisite: PLSC 274. Even years.

## **PLSC 414** 4 F **Seminar in Political Studies**

Themes in Political Studies. Requires a major research paper. Repeatable for credit under different topics. Prerequisites: HIST 134, 135, 280.

## **PLSC 485** 3 S **Foreign Relations of the United States**

Episodes selected from the history of American foreign relations to illustrate the development of U.S. foreign policy. Prerequisite: PLSC 124. Even years.

## **PLSC 494** 1-3 F, W, S, Su **Internship**

Supervised work experience in a political science-related environment. Integration of academic study with workplace experience, including application of theoretical and methodological knowledge to real-world situations. Enrollment limited to department majors. Advanced approval of the department is required. May not be taken before the end of the sophomore year. Prerequisites: PLSC 124, 274; RELT 216 Qualifies for IP grading. Graded S/F.

## **PLSC 495** 1-3 F, W, S **Independent Study**

Individual research; open only by permission of the department chair to advanced students with an adequate background. Repeatable to a maximum of 3 credits.

## Sociology

*(See Psychology & Social Work, Sociology area, for course descriptions.)*



## Faculty

*Georgina Hill, program director; Roy Benton, Jon Carstens, Kent Davis, Hilary Dickerson, Sara Kakazu, Peter Katz, Tammy McGuire, Keith Neergaard, John Nunes, Cristian Pancorbo Asher Raboy, Heather Reid, Jean Sheldon, Steve Waters, Cynthia Westerbeck, Ross Winkle*  
Departmental Office: Stauffer Hall; 965-6612

The Honors Program enrolls a cohort of students who earnestly seek understanding of our complex world. As an alternative to the traditional general education requirements, students in Honors take a unique set of courses that prepares them for an active lifetime of critical thought, aesthetic appreciation, and spiritual prosperity. In particular Honors students excel as

- *seekers* of truth, engaging in a journey of personal growth and spiritual development;
- distinguished *scholars*, exhibiting intellectual curiosity, creativity, critical thinking and a commitment to academic excellence; and
- capable *leaders*, serving the wider community through the integration of faith, knowledge and ingenuity.

Students who complete the Honors Program have fulfilled PUC's general education requirements.

## The Goal of the Honors Program

The goal of the Honors seminars is to create an atmosphere in which students feel free to experiment with ideas and to test them in open debate with classmates and teachers. The program presents significant books, films, art, and music in a Christian context. Each student, regardless of educational goals, is encouraged to seek truth and to act upon it.

## Compatibility with Other Programs

As is traditional with Honors programs, this truncated version of general education allows students to pursue double majors, or minors, or to customize electives that align with their individual goals.

The Honors Program is compatible with any major and may be particularly desirable for pre-professional students wishing to gain the broad liberal arts background sought by graduate, law, and medical school admissions committees. Students pursuing certain specialized programs (such as nursing licensure or elementary education credentials) may need to complete additional general education classes required for those programs.

## Graduation "With Honors"

Students who successfully meet the Honors Program requirements graduate "With Honors," as designated on the official transcript, graduation program, and diploma. The following requirements must be met in order to graduate "With Honors":

- Completion of all Honors Program course requirements, including seminars, electives, and cognates
- Completion and presentation of a satisfactory Honors Project
- A minimum cumulative college GPA of 3.3

# Honors Program

## Admission to the Honors Program

Honors Program applicants are expected to meet the following entrance requirements:

- A minimum 3.5 high school GPA
- Composite exam scores at or above 26 (ACT) or 1200 (SAT- new scoring system) or 1700 (SAT- old scoring system)
- Strong writing skills
- A high school curriculum that includes the successful completion of the following:
  - 4 years of English
  - 2 (or more) years of history
  - 3 (or more) years of mathematics (including Algebra II\*)
  - 3 (or more) years of science
  - 1 (or more) years of foreign language study

Under some circumstances, non-freshmen may apply for transfer into the Honors Program. The application will be evaluated based on high school performance, composite exam scores, and completed college coursework. If accepted into the program, the transfer student will work with the Honors Program Director to develop a course equivalency plan. This plan will outline the applicability of the student's completed college coursework to the Honors Program requirements.

## Continuance in the Honors Program

A minimum cumulative college GPA of 3.3 must be maintained while in the Honors Program. Any student who drops below this minimum GPA will be placed on probationary status for up to two quarters. The Honors Program Director will work with the student to explore the feasibility of continuing in the program and to develop an academic success plan.

Failure to earn a minimum GPA of 3.3 for three consecutive quarters may result in the student being withdrawn from the program.

No course with a grade below C- may apply toward Honors Program requirements.

Students who withdraw from the Honors Program will work with the Honors Program Director to develop a course equivalency plan. This plan will outline the applicability of the completed Honors Program coursework to the traditional general education program.

\* If a student is admitted without having successfully completed Algebra II or Integrated Math III in secondary school, the student will need to demonstrate the algebra proficiency prior to graduation (see Section IV, Part A, of the General Education Requirements). The algebra proficiency also is a prerequisite to STAT 222.

## Honors Program Requirements

### ► First-Year Seminars (15)

HNRS 111	Narrating the Quest	5
HNRS 121	Analyzing the Arts	5
HNRS 131	Scientific Inquiry	5

### ► Additional Seminars and Electives (29)

HNRS 201	Engaging Scripture	4
HNRS 202	Leadership: Theory and Practice	3
HNRS 301	Discovering Jesus	4
HNRS 380	Seminar (Two different topics)	4+4
Enrichment Electives		10

Take 10 units of enrichment electives, selected from additional offerings of the Honors seminar (HNRS 380) and from H-designated courses from other departments. Recent enrichment elective options include the following:

ARTH 370 H	History of Modern Art to 1945 (4)
COMM 426 H	Argumentation (3)
ENGL 352 H	Theme Courses (4)
LANG 460 H	Lang, Culture, & Humanitarian Issues (4)
MATH 451 H	History of Mathematics (4)
MGMT 466 H	Business and Society (3)
PHYS 485 H	Issues in Science & Religion (3)

### ► Capstone Seminar and Project (7)

HNRS 403	The Christian Scholar	4
HNRS 490	Honors Project I	1
HNRS 491	Honors Project II	2

### ► Cognates (9-11)

STAT 222*	Introduction to Statistics	4
Lab Science		3-5

Take one lab science course from subjects ASTR, BIOL, CHEM, ENVR, GEOL, MICR, or PHYS

Exercise Science Activity		2
Take two exercise science activity (ESAC) courses		

### ► Foreign Language (0-24)

Students pursuing a B.A. degree:	12-24
Complete the Foreign Language requirement outlined for the B.A. General Education Requirement (see p. 40).	

All other students:	0-4
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Complete one of the following options:

- One year of foreign language study in high school (0)
  - One Language & Culture class (4)
- Options include CHIN 111, FREN 111, GRMN 111, ITAL 111, JAPN 111, and SPAN 111)

**Honors Courses**

Enrollment is open to students in the honors program.

LOWER-DIVISION COURSES:

**HNRS 111** **5 F**  
**Narrating the Quest**

Explores the literary motif of quests as a metaphor for personal journeys of identity and growth. Emphasizes reflective and scholarly writing. Fulfills ENGL 101 College English requirement. Prerequisite: Admission to the Honors program.

**HNRS 121** **5 W**  
**Analyzing the Arts**

An interdisciplinary overview of the arts (music, visual arts, literature) through an examination of the theme of creation. Incorporates specific instruction in academic writing, particularly literary analysis and research. Fulfills the ENGL 102 College English requirement. Prerequisite: HNRS 111.

**HNRS 131** **5 S**  
**Scientific Inquiry**

Examines scientific methods for gathering and evaluating evidence, identifies relevant scientific principles, provides practice and critique in the communication of scientific ideas, and evaluates how science impacts and is impacted by society. Incorporates instruction in communication and academic writing, particularly explanatory texts. Fulfills the COMM 105 Introduction to Communication requirement. Prerequisite: HNRS 121.

*HNRS 111, 121, and 131 are prerequisites to all remaining honors courses.*

**HNRS 201** **4 F**  
**Engaging Scripture**

Interpreting and understanding the Bible as sacred text. In addition to engaging the texts of the Bible using various current methods of interpretation, a strong emphasis is placed upon a contextual reading that prunes the text from eisegetical interpolations.

**HNRS 202** **3 W**  
**Leadership: Theory and Practice**

A scholarly examination of leadership concepts and the human aspects of organizations in order to understand how these forces affect the solving of community problems. Students will apply knowledge to solving real community problems through service projects.

UPPER-DIVISION COURSES:

**HNRS 301** **4 W**  
**Discovering Jesus**

Examination of the biblical stories and theology about Jesus and their influence and effects on human civilization and culture as well as one's personal life. Prerequisite: HNRS 201.

**HNRS 380** **4 F, W, S**  
**Seminar:**

An in-depth study of a topic, often with an interdisciplinary focus. Focuses on critical thinking and the analysis and evaluation of information. Repeatable for credit under different subtitles, such as the following:

- Race and the American Century
- Beethoven, Goethe, and Democracy

**HNRS 403** **4 S**  
**The Christian Scholar**

This capstone seminar provides a reflection on the intersection of faith, knowledge, and practice. Examines understandings of “progress” and potential Christian-scholar roles. Includes a particular focus on the ways that belief shapes action.

**HNRS 490+491** **1+2 S+W**  
**Honors Project I-II**

An individual research or creative project that showcases the student's expertise.

HNRS 490 provides guidance in identifying the project—selecting an advisor, defining the scope, developing a foundational bibliography. Culminates in an approved project proposal. Taken during the spring quarter of the junior year.

HNRS 491 provides continued guidance for the completion of the project, particularly the final written paper and oral presentation. Taken during the winter quarter of the senior year. Prerequisite: HNRS 490. Qualifies for IP grading.

**HNRS 495** **1-3 Arranged**  
**Independent Study**

Offers the advanced student opportunity to pursue investigation in a field of special interest under the direction of program faculty.

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## Faculty

Steve Waters, chair; Roy Benton, Lloyd Best, Chantel Blackburn  
 Departmental Office: 238 Chan Shun Hall; 965-7269

## Degrees and Programs

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The *Mathematics Department* provides courses for future mathematicians, teacher education, general education, and programs in other departments. A common goal of each course is that students will develop problem-solving skills based on mathematical reasoning and understanding, not merely rote memorization. Small class sizes promote communication and teamwork opportunities among students and faculty.

Students majoring in mathematics will have experience with mathematical modeling, abstraction, generalization, logical analysis, and mathematical technology. Students may select courses in order to focus on pure mathematics, applied mathematics, mathematics education, or actuarial certification. The major advisor will assist students with the selection of appropriate courses for each area of focus.

The biomathematics major is an attractive way to prepare for medical or dental school. The major provides excellent preparation for graduate study leading to a Master's Degree in Public health with emphasis in statistical analysis. A growing area of biological research uses sophisticated mathematics to study genetics, population fluctuations, and metabolic functions. This major provides entry to such graduate programs as Biomathematics, Biostatistics, Mathematical Biology, and Biometrics.

## Major in Mathematics, B.S.

A minimum of 66 hours (29 upper-division hours)

### ► Required Core Courses (43 hours):

MATH 131+132+133	Calculus I,II,III	4+4+4
MATH 265	Elementary Linear Algebra	4
MATH 269	Elementary Differential Equations	4
MATH 275	Logic and Sets	4
MATH 331	Probability Theory	3
MATH 351	Introduction to Abstract Algebra I	4
MATH 385	Mathematical Modeling	4
MATH 390	Seminar	.5
MATH 421	Elementary Real Analysis I	4
MATH 490	Senior Seminar	.5

### At least one of the following courses:

MATH 332	Mathematical Statistics (3)	3
MATH 352	Introduction to Abstract Algebra II (3)	3
MATH 422	Elementary Real Analysis II (3)	3

### ► Required Core Electives (16 hours):

At least 16 hours of additional MATH courses, 16  
 of which at least 10 hours must be upper-division.

### ► Required Cognate Courses (7-9 hours):

INFS 115	Intro. to Computer Programming	4
At least one of the following courses:		
CHEM 451	Physical Chemistry (3)	3-5
ENGR 211	Engineering Mechanics (3)	
ENGR 216	Circuit Theory (4)	
FIN 341	Finance (5)	
INFS 470	Management Science (4)	
PHYS 211	Physics with Calculus (4)	
STAT 322	Statistical Methods (3)	

All core and cognate courses should be chosen in consultation with the major advisor. In selecting courses, students are encouraged to consider the recommendations described below:

# Mathematics

## Pure Mathematics

A focus on pure mathematics can lead to careers in university teaching and research following graduate studies in mathematics and related areas, such as statistics, computer science, and physics.

The following courses are recommended for students interested in pure mathematics: MATH 267, MATH 332, MATH 352, MATH 422, MATH 425, and MATH 465.

## Applied Mathematics

A focus on applied mathematics is a path to careers in medicine, government, business, and industry following graduate study in such areas as computational biology, operations research, and applied statistics.

The following courses are recommended for students interested in applied mathematics: MATH 332, MATH 355, MATH 375, STAT 322, and INFS 470.

It is also recommended that students interested in applied mathematics earn at least a minor in an applied field such as Biology, Business Administration, Physics, or Psychology.

## Mathematics Education

A focus on mathematics education is a major component in a program of studies leading to the California Teaching Credential in secondary school mathematics.

The following courses are recommended for students interested in mathematics education: MATH 341, MATH 354, MATH 355, MATH 385, and MATH 451.

## Actuarial Certification

Actuarial certification can lead to careers in the insurance and investment industry, where actuaries use a broad knowledge of statistics, finance, and business.

The following courses are recommended for students interested in preparing for the national examinations for actuarial certification: MATH 267, MATH 332, MATH 375, STAT 322, and INFS 470.

## Major in Biomathematics, B.S.

A minimum of 85 hours (29 upper-division hours)

### ► Required Core Courses (68 hours):

BIOL 111+112+113	Biological Foundations	5+5+5
BIOL 222	Introduction to Research Methods	2
CHEM 111+112+113	General Chemistry	5+5+5
INFS 115	Intro to Computer Programming	4
MATH 131+132	Calculus I,II	4+4
MATH 265	Elementary Linear Algebra	4
MATH 269	Elementary Differential Equations	4
MATH 275	Logic and Sets	4
MATH 384	Biomathematics	4

MATH 385	Mathematical Modeling	4
MATH 390	Seminar	.5
MATH 490	Senior Seminar	.5
STAT 322	Statistical Methods	3

### ► Required Core Electives (17 hours):

At least 17 hours from the following courses: 17

(Include at least one MATH course and two BIOL courses)

BIOL 320	Cell and Molecular Biology (4)
BIOL 328	Animal Behavior (4)
BIOL 331	Marine Science (4)
BIOL 338	Field Biology (3)
BIOL 348	Systems Physiology (5)
BIOL 354	Genetics (4)
BIOL 430	Neurobiology (4)
BIOL 469	Immunology (4)
CHEM 371+372	Organic Chemistry I,II (4+4)
MATH 331	Probability Theory (3)
MATH 332	Mathematical Statistics (3)
MATH 351+352	Intro to Abstract Algebra I,II (4+3)
MATH 355	Combinatorics (4)
MATH 375	Numerical Analysis (4)
MATH 421+422	Elementary Real Analysis I,II (4+3)
MATH 425	Complex Analysis (4)
MATH 465	Linear Algebra (4)

### Recommended Cognate Courses:

CHEM 373	Organic Chemistry III (4)
CHEM 481	Biochemistry (4)
PHYS 111+112+113	General Physics (4+4+4)
or	
PHYS 211+212+213	Physics with Calculus (4+4+4)

Many of the core and elective courses for this major carry pre-requisites. All courses should be chosen and sequenced in consultation with the major advisor.

## Teaching Credential

Students desiring to enter a program of studies leading to a California teaching credential in mathematics should take the B.S. degree in Mathematics and complete the recommended courses for the Mathematics Education focus. Students will need to pass the mathematics portion of the CSET exam one quarter prior to doing full-time student teaching. Students are invited to discuss the program with their major advisor in the Mathematics Department.

Those who plan to teach on the secondary level should consult with the credential analyst in the Education Department

and should become acquainted with the specific requirements for admission to and successful completion of the Teacher Education Program as outlined in the section entitled "Education" in this catalog.

## Minor in Mathematics

*A minimum of 27 hours (6 upper-division hours)*

Take at least 27 hours (6 upper-division) chosen from any non-service MATH courses. STAT 322 may also apply to the minor if desired.

## Mathematics

### SERVICE COURSES:

*(Not applicable to a major or minor in this department)*

### **MATH 095+096**      **4+4 F, W, S** **Basic Algebra I,II**

Basic concepts and techniques of algebra for students without recent experience in algebra.

MATH 095 includes integers, algebraic expressions, first-degree equations and inequalities, simple rational expressions and proportions, integer exponents, and scientific notation.

MATH 096 includes factoring, functions, graphs, rational and radical expressions, integer exponents and square roots, complex numbers, and solutions of quadratic and rational equations. Prerequisite: MATH 095 or equivalent.

### **MATH 106**      **4 F, W, S** **College Algebra**

Begins with a quick review of basic algebra, including rational exponents and radicals, complex numbers, linear and quadratic equations, and inequalities. Also includes polynomial and rational functions, composition and inverse of functions, exponentials and logarithms, systems of equations, arithmetic and

geometric progressions. Other topics may include further study of polynomials and/or linear programming. Prerequisite: Algebra II or Integrated Math III in secondary school (C- or above) or MATH 096.

### **MATH 113**      **2 S** **Trigonometry**

A study of the six trigonometric functions and their relationships to one another, as well as the study of applications involving these six functions. Included are degree and radian measure, right triangle trigonometry, graphs of the trigonometric functions, inverse trigonometric functions, fundamental identities, addition identities, double-angle and half-angle identities, solutions of trigonometric equations, law of cosines, law of sines, and vector triangles. Prerequisite: MATH 106 or a strong background in algebra.

### **MATH 130**      **5 F** **Precalculus**

Functions and graphs emphasized as tools to prepare the student for calculus. Included are polynomial and rational functions, logarithmic and exponential functions, as well as a thorough treatment of the six trigonometric functions and their inverses. Prerequisite: MATH 106 or a strong background in algebra.

### **MATH 211+212**      **3+3 F+W** **Foundations of School** **Mathematics I,II**

A two-quarter sequence covering the logic and structure underlying school mathematics. Concepts, procedures, problem-solving and applications at concrete, pictorial, and abstract levels. Must be taken in sequence. Prerequisite: Algebra II or Integrated Math III in secondary school (C- or above) or MATH 096.

MATH 211 includes problem-solving techniques, sets, logic and deductive reasoning, the arithmetic of whole numbers, fractions, decimals, integers, rational and real numbers, ratio and proportion, and percent.

MATH 212 includes geometry, measurement, and basic probability.

### LOWER-DIVISION COURSES:

### **MATH 131+132+133**      **4+4+4 F, W, S** **Calculus I,II,III**

A three-quarter standard sequence in single-variable and basic multi-variable calculus. Must be taken in sequence. Prerequisite: Knowledge of algebra and trigonometry at the level provided by MATH 130 or by MATH 106 and 113.

MATH 131 focuses on differential calculus and its applications. Includes limits, all derivative tools (including transcendental functions), maximizing/

## Mathematics

minimizing applications, related rates, L'Hospital's rule, and antiderivatives. Graphing calculators and mathematical software tools are used extensively. Offered F, W.

MATH 132 focuses on integral calculus and its applications. Includes the fundamental theorems, general substitutions, integration by parts, applications to geometry and physics, differential equations, growth models, infinite series, and Taylor expansions. Graphing calculators and mathematical software tools are used extensively. Offered W, S.

MATH 133 focuses on calculus for multi-variable functions. Includes solid analytic geometry, parametric space curves, partial derivatives, gradients, and multiple integrals in various coordinate systems. Graphing calculators and mathematical software tools are used extensively. Offered S.

### **MATH 265** **4 F** **Elementary Linear Algebra**

Matrix algebra and determinants, applications to solving systems of linear equations, vector spaces, linear transformations, eigenvalues, and eigenvectors. Prerequisite: MATH 131.

### **MATH 267** **4 S** **Vector Calculus**

Functions of more than one variable including the general chain rule, line and surface integrals, divergence, curl, gradient, and Stokes' theorem. Prerequisite: MATH 133.

### **MATH 269** **4 W** **Elementary Differential Equations**

Ordinary differential equations balancing analytic techniques, qualitative methods, and basic modeling. Topics include eigenvalue methods for linear sys-

tems, Laplace transforms, phase plane, null-clines, equilibria, harmonic oscillator, and population models. Prerequisite: MATH 132. Recommended prerequisite: MATH 265.

### **MATH 275** **4 S** **Logic and Sets**

A bridge to upper-division mathematics, developing the student's ability to handle abstract concepts and careful proofs. Propositional and predicate logic, various types of proof, algebra of sets and functions, equivalence relations, and countable sets. Prerequisite: MATH 131.

#### UPPER-DIVISION COURSES:

### **MATH 331** **3 W** **Probability Theory**

Theory and applications of probability theory. Probability distributions and densities including multivariate, marginal, and conditional distributions. Expected value, Chebyshev's and Bayes' theorems. Moment-generating functions and product moments. Special discrete and continuous distributions and densities. Prerequisites: MATH 132, STAT 222. Odd years.

### **MATH 332** **3 S** **Mathematical Statistics**

Theory and application of sampling distributions, transformation of variables, central limit theory, estimation, hypothesis testing, Bayesian inference, and decision theory. Prerequisite: MATH 331. Odd years.

### **MATH 341** **4 S** **Geometries**

The development and history of Euclidean geometry, the axiomatic method and various axiom sets for Euclidean

geometry, history of the parallel postulate and discovery of non-Euclidean geometry, neutral and hyperbolic geometry, philosophical implications. Prerequisite: MATH 275. Even years.

### **MATH 351+352** **4+3 F+W** **Introduction to Abstract Algebra I,II**

A two-quarter sequence introducing the basic topics in modern abstract algebra. Must be taken in sequence. Prerequisite: MATH 275. Odd years.

MATH 351 is a basic introduction to groups, rings, integral domains, fields, and isomorphisms. Also included are mappings, equivalence relations, and modular arithmetic.

MATH 352 is a continuation that stresses applications. Topics studied may include polynomials, elementary Galois theory, geometric constructions, algebraic coding, lattices, and Boolean algebras.

### **MATH 354** **3 F** **Number Theory**

Topics include Diophantine equations, theorems and conjectures about prime numbers, congruences, the theorems of Euler and Fermat, perfect numbers, continued fractions, and Pythagorean triples. Prerequisite: MATH 275. Even years.

### **MATH 355** **4 F** **Combinatorics**

Permutations and combinations, occupancy models, generating functions, recurrence relations, principle of inclusion and exclusion, and pigeonhole principle. Graph Theory includes directed and undirected graphs, Euler and Hamiltonian paths, chromatic number, trees, matchings and coverings. Involves both theory and applications. Prerequisites: MATH 132, 275. Odd years.

**MATH 375** **4 W**  
**Numerical Analysis**

Theory and techniques for finding approximate solutions to mathematical problems, including error analysis, interpolation, approximation, fixed-point iteration, nonlinear equations, systems of equations, integration, and ordinary differential equations. Prerequisites: MATH 132, 265, and INFS 115. Even years.

**MATH 384** **4 S**  
**Biomathematics**

An introduction to the applications of mathematical methods in the modeling of various biological phenomena. Connections are made between diverse biological examples linked by common mathematical themes. Explorations may be selected from a variety of discrete and continuous ordinary or partial differential equation models. Prerequisites: MATH 269, 275. Recommended prerequisites: MATH 265 and INFS 115. Odd years.

**MATH 385** **4 S**  
**Mathematical Modeling**

Mathematical modeling of problems selected from a variety of applied areas, including industry, biology, business, and the social sciences. Both deterministic and stochastic models are considered, with an emphasis on practical problem-solving. Includes exploration of the computer as a problem-solving tool. Prerequisites: MATH 269, 275. Recommended prerequisites: MATH 265 and INFS 115. Even years.

**MATH 390** **.5 S**  
**Seminar**

Topics of current interest in mathematics and mathematics education, including applications of mathematics in

other fields, introduced through lectures, reports, and periodicals. Discussion of professional mathematics organizations, conferences, and publications. Prerequisite: upper-division standing. Graded S/F.

**MATH 421+422** **4+3 F+W**  
**Elementary Real Analysis I,II**

A two-quarter sequence focusing on the fundamental definitions and theorems underlying single-variable calculus and related topics. Must be taken in sequence. Prerequisites: MATH 132, 275. Even years.

MATH 421 includes the completeness property, limits of sequences and functions, and continuity.

MATH 422 is a continuation that covers derivatives, the Riemann integral, and infinite series.

**MATH 425** **4 S**  
**Complex Analysis**

The elements of the theory of analytic functions including Cauchy's theorem, calculus of residues, conformality, and applications. Prerequisites: MATH 133, 275. Even years.

**MATH 451** **4 W**  
**History of Mathematics**

A survey of major developments in mathematics from antiquity to modern times. Involves historically relevant problem sets, class discussions, and presentations by students and teacher. Prerequisite: MATH 131. Odd years.

**MATH 465** **4 S**  
**Linear Algebra**

A deeper study than given in MATH 265, including Jordan form, inner prod-

uct spaces, quadratic forms, Hamilton-Cayley theorem, and normal operators. Prerequisites: MATH 265, 351. Odd years.

**MATH 485** **1-4 Arranged**  
**Special Topics in Mathematics**

Study of a selected topic not covered elsewhere in the curriculum. Course content varies from year to year, with topics such as Topology, Differential Geometry, Chaos & Fractals, and Formal Logic & Gödel's Theorems. Repeatable for credit.

**MATH 490** **.5 S**  
**Senior Seminar**

Topics of current interest in mathematics and mathematics education, including applications of mathematics in other fields. Under supervision of departmental faculty, each student prepares and presents a paper on a topic of interest. Prerequisite: MATH 390.

**MATH 495** **1-3 Arranged**  
**Independent Study**

Qualified students may, with the approval of the department chair, undertake a directed research problem suited to their background and experience. Repeatable to a maximum of 9 credits.

**Statistics**

LOWER-DIVISION COURSE:

**STAT 222** **4 F, W, S, Su**  
**Introduction to Statistics**

Descriptive statistics, graphical methods, basic concepts of probability, normal probability distributions, central limit theorem, hypothesis tests involving means and proportions, confidence intervals, introduction to correlation and

## Mathematics

regression, and chi-square testing. Examples from a wide variety of disciplines, including business, the social sciences, and the life sciences, to prepare students with varying backgrounds and interests to become intelligent consumers and users of statistics. Prerequisites: Algebra II or Integrated Math III in secondary school (C- or above) or MATH 096 (D- or above), ENGL 101.

UPPER-DIVISION COURSE:

### **STAT 322**

**3 W, S**

#### **Statistical Methods**

An intermediate course in applied statistics including multiple regression, analysis of variance, and nonparametric methods. Spreadsheets and statistical software are used to perform calculations. Prerequisite: STAT 222.



**Faculty**

*Rachelle Berthelsen Davis, chair; Asher Raboy, Artist in Residence, assistant chair; Rosalie Rasmussen, Lynn Wheeler*  
 Departmental Office: 102 Paulin Hall; 965-6201

**Degrees and Programs:**

Music, B.Mus. .... 130  
 Music, B.S. .... 131  
 Music, A.S. .... 131  
 Teaching Credential ..... 131

The *Music Department* offers a two-year Associate of Science degree and two four-year curricula leading to Bachelor of Music and Bachelor of Science degrees.

**Department Policies**

The following policies apply to students majoring in the Music Department. A detailed description of these policies is provided in the *Music Department Student Handbook*, available at the Music Department Office or online at [www.puc.edu/music](http://www.puc.edu/music).

**Entrance Requirements**

All music majors must pass an audition, performing two contrasting piece from the standard classical repertoire on their primary instrument/voice. In addition, all music majors must pass a keyboard proficiency exam and a theory placement exam. Music majors are expected to read music well in both treble and bass clefs and know keys and key signatures; sight read a four-part hymn and play a two-voice composition on the piano. Students without these skills are welcome in the music department, but will have to take some remedial courses that may increase the number of courses a student must take or the length of time required to complete the music major. Remedial courses are available for all potential majors who cannot pass these exams or the entrance audition.

**General Performance Requirements**

Study in the major performance area is required each quarter of residence for all baccalaureate music majors, up to twelve quarters. Refer to the *Music Department Student Handbook* for specific year-by-year requirements in the various performance areas and details regarding jury evaluations, practice hours, and recital requirements.

**Recital and Project Requirements**

All music majors must periodically perform in general student recitals.

Music education emphasis majors present a half-hour recital (MUSP 489) in the senior year. Music composition emphasis majors complete a special project (MUED 489) in composition. Bachelor of Science majors present a half-hour recital (MUSP 489) during the senior year or complete a special project (MUED 489) in an area of particular interest. Associate of Science majors perform a minimum of 15 minutes in a recital (MUSP 289) during their last quarter of lessons.

**Ensemble Requirements**

All baccalaureate music majors are required to register for ensemble credit each quarter in residence , up to twelve quarters. Associate music majors are required to register for a minimum of six quarters of ensembles.

**Certificate of Achievement**

To encourage excellence in performance, the department may award the Certificate of Achievement to any outstanding music major who presents a recital or is soloist in a major performance of particularly high quality during each of the four years in residence. The student must apply to the music faculty for this award after giving the final recital.

**Required Examinations**

All music majors are required to take examinations prepared by departmental faculty during their first and last quarter in residence. In addition, the Major Field Achievement Test in music is required during the final quarter before graduation.

# Music

## Bachelor of Music, B.Mus.

Minimum of 121.6 hours (49 upper-division hours)

### ► Required Core Courses (61.6 hours):

MUED 241	Basic Conducting	2
MUHL 101	Collegium in Music	3.6*
MUHL 205	Listening with Understanding	3
MUHL 245	World Music and Culture	3
MUHL 331	Music/Antiquity through Baroque	3
MUHL 332	Music/Classic & Romantic Eras	3
MUHL 333	Contemporary Music	3
MUSP 391	Junior Seminar	1
MUTH 121+121L	Beginning Theory I & Laboratory	3+1
MUTH 122+122L	Beginning Theory II & Laboratory	3+1
MUTH 123+123L	Beginning Theory III & Laboratory	3+1
MUTH 221+221L	Interm Theory I & Laboratory	3+1
MUTH 222+222L	Interm Theory II & Laboratory	3+1
MUTH 223+223L	Interm Theory III & Laboratory	3+1
MUTH 224	Music Tech: Notation	1
MUTH 331	Orchestration & Arranging	3

Take at least 12 credits from the following: 12

MUEN Large Ensembles

Participate in at least one large ensemble (Chorale, I Cantori, Orchestra, Symphonic Wind Ensemble, or Keyboard Ensemble) during each quarter in residence, up to twelve quarters.

- For piano majors, 3 of the hours must be in Keyboard Ensemble.
- For guitar majors, up to 3 of the hours may be Guitar Ensemble.
- Vocal majors must be in a vocal ensemble.
- Orchestral strings, woodwind, brass, and percussion instruments must be in an instrumental ensemble.

### ► Emphases (Choose one):

#### Composition Emphasis (60 hours)

MUED 342	Instrumental Conducting	3
MUED 343	Choral Conducting	3
MUED 489	Senior Project	1
MUHL 115	Survey of Music for Visual Media	3
MUSP 163	Instrumental/Vocal Lessons	6
MUTH 225	Music Tech: Editing & Synthesis	2
MUTH 332	Counterpoint	3
MUTH 333	Form & Analysis	3
MUTH 334	Electronic Composition	2
MUTH 335	Adv. Tech & Comp for Visual Media	3

MUTH 432	Composition	1+1+1
MUTH 442	Advanced Composition	15

Music Electives 13

13 additional hours selected from MUED, MUEN, MUHL, MUSP, and MUTH courses in consultation with the advisor.

#### Music Education Emphasis (60 hours)

EDUC 101+L	Intro to Teaching + Classroom Obs.	1+1
EDUC 333	Educational Psychology	3
MUED 251+2+3	Singers' Diction	1+1+1
MUED 338+L	Music for Children + Lab	2+1
MUED 342	Instrumental Conducting	3
MUED 343	Choral Conducting	3
MUED 381+2+3	Music in Elem. & Sec. Schools	2+2+2
MUSP 163/363	Performance Studies: Major (maximum 6 hours lower-division)	12
MUSP 489**	Senior Recital	1

Five of the following courses: 10

Take the five courses that do not include your major instrument

MUED 360	Brass Methods & Techniques (2)
MUED 361	Percussion Methods & Techniques (2)
MUED 362	String Methods & Techniques (2)
MUED 363	Vocal/Choral Methods & Techniques (2)
MUED 364	Woodwind Methods & Techniques (2)
MUED 365	Guitar Methods & Techniques (2)

One of the following options 3

EDUC 362	Secondary Content Area (3)
MUED 381+2+3L	Music/ Elem & Sec. School Lab (1+1+1)

Pedagogy coursework 2

Two hours studying the pedagogy and literature in the area of the student's performance emphasis.

Electives 9

9 additional hours of music electives, including at least 6 hours from upper-division MUED, MUHL, or MUTH courses.

#### ► B.Mus. General Education Requirements:

The general-education requirements for the B.Mus. degree are the same as for the B.S. degree except as indicated below.

1. I.C.2 (Statistics) is not required.
2. Only one course is required in III.B (Social Sciences).
3. Only one course is required from IV.B.1 (Visual Arts), IV.B.3 (Philosophy), or IV.B.4 (Language & Culture).
4. IV.B.2 (Music) is met by the major.
5. Only two courses are required from V.A (Science) and V.B

\*\* Under unusual circumstances, MUED 489 Senior Project may meet this requirement by special permission of the department.

\*To be taken each quarter in residence, up to twelve quarters.

(Applications of Scientific and Mathematical Reasoning).  
The courses must come from separate subsections and one course must include a laboratory.

6. Section VII (Practical and Applied Arts) is not required.
7. Section VIII (Foreign Language) is not required, except that voice emphasis majors require one year of French, German, or Italian.

Special GE considerations for music education emphasis majors:

1. Teacher candidates must pass a test or take a course in U.S. Constitution (HIST 134+135 or HIST 356 or PLSC 124).
2. Teacher candidates must complete RELH 360 as well as 3 hours of Doctrinal Studies (RELT 205 or 220) in order to obtain the SDA Certification.
3. Teacher candidates must take HLED 166.

### **Major in Music, B.S.**

*A minimum of 80.6 hours (20 upper-division hours)*

► **Required Core Courses (71.6 hours):**

MUED 241	Basic Conducting	2
MUHL 101	Collegium in Music	3.6*
MUHL 205	Listening with Understanding	3
MUHL 245	World Music and Culture	3
MUHL 331	Music/Antiquity through Baroque	3
MUHL 332	Music/Classic & Romantic Eras	3
MUHL 333	Contemporary Music	3
MUSP 391	Junior Seminar	1
MUSP 163 and 363	Performance Studies: Major (minimum of 3 hours upper-division)	12
MUTH 121+121L	Beginning Theory I & Laboratory	3+1
MUTH 122+122L	Beginning Theory II & Laboratory	3+1
MUTH 123+123L	Beginning Theory III & Laboratory	3+1
MUTH 221+221L	Interm Theory I & Laboratory	3+1
MUTH 222+222L	Interm Theory II & Laboratory	3+1
MUTH 223+223L	Interm Theory III & Laboratory	3+1
MUTH 224	Music Technology: Notation	1

*Take at least 12 credits from the following:* 12

MUEN Large Ensembles

Participate in at least one large ensemble (Chorale, I Cantori, Orchestra, Symphonic Wind Ensemble, or Keyboard Ensemble) during each quarter in residence, up to twelve quarters.

- For piano majors, 3 of the hours must be in Keyboard Ensemble.
- For guitar majors, up to 3 of the hours may be Guitar Ensemble.

- Vocal majors must be in a vocal ensemble.
- Orchestral strings, woodwind, brass, and percussion instruments must be in an instrumental ensemble.

*At least one of the following courses:* 1

MUED 489	Senior Project (1)	
MUSP 489	Senior Recital (1)	

► **Required Core Electives (9 hours):**

*At least 9 hours from the following:* 9

9 additional hours of music electives, including at least 6 hours from upper-division MUED, MUHL, or MUTH courses.

### **Major in Music, A.S.**

*A minimum of 42 hours*

► **Required Core Courses (33 hours):**

MUHL 105	Survey of Music	3
MUHL 245	World Music and Culture	3
MUTH 121+121L	Theory I & Laboratory	3+1
MUTH 122+122L	Theory I & Laboratory	3+1
MUTH 123+123L	Theory I & Laboratory	3+1
MUED 241	Basic Conducting	2
MUEN	6 Quarters of Large Ensemble	6
MUSP 163	Performance Studies	6
MUSP 289	Associate Recital	1

► **Required Core Electives (9 hours):**

9 hours of music electives, selected in consultation with the music advisor. 9

### **Teaching Credential**

Students desiring to enter a program of studies leading to a California teaching credential in Music should take the B.Mus. degree with the emphasis in Music Education. Students will need to pass the Music portion of the CSET exam one quarter prior to the full-time student teaching experience. Students are invited to discuss the program with their major advisor in the Music Department.

Those who plan to teach on the secondary level should consult with the credential analyst in the Education Department and should become acquainted with the specific requirements for admission to and successful completion of the Teacher Education Program as outlined in the section entitled "Education" in this catalog.

\*To be taken each quarter in residence, up to twelve quarters.

# Music

## Music Education

### LOWER-DIVISION COURSES:

#### **MUED 106** **2 F** **Issues in Church Music**

Analysis of issues in church music; traditional and contemporary worship practices. Odd years.

#### **MUED 241** **2 S** **Basic Conducting**

Foundation for the development of skill in the art of conducting various ensembles. Prerequisite: MUTH 122.

#### **MUED 251+252+253** **1+1+1 F+W+S** **Singer's Diction**

Correct pronunciation of text in other languages (Latin, English, German, Italian and French), based on the International Phonetic Alphabet (IPA). Builds good habits of tone, based on vowel placement and consonant articulation. Required of voice majors. Must be taken in sequence.

### UPPER-DIVISION COURSES:

#### **MUED 338** **2 F** **Music for Children**

Music for children from infancy through lower elementary school grades. Surveys standard children's music methods. Emphasizes development of a child's voice through solfege and authentic folk materials and covers teaching methods for singing, rhythmic activities and listening skills. Odd years.

#### **MUED 338L** **1 F, W, S** **Music for Children Laboratory**

Observation and practical experience with young children, using methods from in MUED 338. Highly recommended complement to MUED 338. May be taken any quarter. Prerequisite: MUED 338.

#### **MUED 342** **3 W** **Instrumental Conducting**

Practical work with instrumental groups. Stick technique, score reading and preparation, aural skills for conductors, and other related activities. Prerequisite: MUED 241. Even years.

#### **MUED 343** **3 W** **Choral Conducting**

Development of conducting gestures and rehearsal techniques for choral ensembles. Opportunities are provided to conduct secondary and college-level choral groups. Prerequisite: MUED 241. Odd years.

#### **MUED 349** **1 F, W, S** **Directed Teaching: Music**

Lessons taught by students in studio or classroom. Supervised and evaluated. Usually taken in conjunction with MUED 473 or 478 and continued winter and spring quarters. Repeatable to a maximum of 3 credits. Prerequisites to the Directed Teaching program: Pass the Keyboard Proficiency and Keyboard Harmony Examinations and receive recommendation by the music faculty.

#### **MUED 355** **2 S** **Instrument Repair**

Prepares future elementary and secondary school music teachers to maintain, assess, and conduct simple repairs on standard brass, wind, string, and percussion instruments. Even years.

#### **MUED 360** **2 F** **Brass Techniques and Methods**

Prepares the future elementary/secondary school music teacher to teach and coach the standard brass instruments (trumpet, trombone, French horn, tuba) at the beginning and intermediate level. Even years.

#### **MUED 361** **2 S** **Percussion Techniques and Methods**

Prepares the future elementary/secondary school music teacher to teach and coach the standard percussion instruments (snare, timpani, mallets, cymbals, tambourine) at the beginning and intermediate level. Odd years.

#### **MUED 362** **2 W** **String Techniques and Methods**

Prepares the future elementary/secondary school music teacher to teach and coach the standard string instruments (violin, viola, cello, bass) at the beginning and intermediate level. Odd years.

#### **MUED 363** **2 F** **Vocal/Choral Techniques and Methods**

Prepares the future elementary/secondary school music teacher to teach and coach voice and choir at the beginning and intermediate level. Even years.

#### **MUED 364** **2 W** **Wind Techniques and Methods**

Prepares the future elementary/secondary school music teacher to teach and coach the standard wind instruments (flute, clarinet, saxophone, double reeds) at the beginning and intermediate level. Even years.

#### **MUED 365** **2 S** **Guitar Techniques and Methods**

Prepares the future elementary/secondary school music teacher to teach and coach the guitar at the beginning and intermediate level. Even years.

#### **MUED 381+381L** **2+1 F** **Music in Elementary and Secondary Schools I + Lab**

Theories of and practice with musical development. Emphasizes the Kodály approach to teaching music in the elementa-

ry school. Deals with vocal development of children from the nonsinger to the junior-high chorister. The lab involves 25 hours of supervised observation and teaching with K-12 classroom music. Prerequisites: MUED 241 and 338. Even years.

**MUED 382+382L** **2+1 W**  
**Music in Elementary and Secondary Schools II + Lab**

Music education philosophies and their practical applications for designing and implementing a secondary school choral curriculum. Topics include recruitment, auditions, repertoire selection, and classroom management. The lab involves 20 hours of supervised observation and teaching with K-12 classroom choral music. Prerequisites: MUED 241 and 338. Even years.

**MUED 383+383L** **2+1 S**  
**Music in Elementary and Secondary Schools III + Lab**

Development and maintenance of instrumental programs in elementary, middle, and secondary schools. Topics include objectives, evaluation, motivation, administration, recruiting, scheduling, technology, and repertoire. The lab involves 20 hours of supervised observation and teaching with K-12 classroom instrumental music. Prerequisites: MUED 241 and 338. Even years.

**MUED 473+474** **1+1 Arranged**  
**Piano Pedagogy**

Teaching piano, including materials and methods of instruction. Recommended corequisite: MUED 349.

**MUED 475+476** **1+1 Arranged**  
**Organ Pedagogy**

Teaching organ at beginning and intermediate levels. Survey of materials and methods of instruction.

**MUED 477** **2 S**  
**Vocal Pedagogy**

Principles and methods of vocal instruction in Western cultures. Even years.

**MUED 478+479** **1+1 Arranged**  
**String Pedagogy**

Teaching string instruments, with emphasis on the area of the student's specialty. Includes materials and methods of instruction. Recommended corequisite: MUED 349.

**MUED 485** **1-3 Arranged**  
**Topics in Music Education**

Advanced study course that goes beyond topics covered in the program's regular offerings. A specific title is given to the course when it is taught. Repeatable for credit under different subtitles. Prerequisites: MUED 383, 383L.

**MUED 489** **1 F, W, S**  
**Senior Project**

Special project for B.S. majors and, in lieu of MUSP 489, for B.Mus. education emphasis majors in unusual circumstances. By permission of the music faculty and in consultation with the advisor and the department chair.

**MUED 495** **1-3 Arranged**  
**Independent Study**

Advanced independent project in music education. Requires approval of the department chair. Repeatable to a maximum of 3 credits.

**Music Ensembles**

*The following satisfy the music major large-ensemble requirements: Chorale, I Cantori, Orchestra, Symphonic Wind Ensemble, and Keyboard Ensemble.*

*All music ensembles are repeatable for credit. Upper-division credit for juniors and seniors is determined by*

*the student's proficiency and previous experience in college-level music.*

**MUEN 150 or 350** **1 F, W, S**  
**Introductory String Ensemble**

Beginning and intermediate string players rehearse and perform music appropriate to the level of the group. Focus is on developing technique, musicianship, and ensemble skills. By audition.

**MUEN 154 or 354** **1 F, W, S**  
**I Cantori**

Mixed-voice chamber ensemble designed for voice majors and other serious vocal students. Considered a major touring ensemble; enjoys a full performance schedule. Core repertoire, both sacred and secular, performed with demanding performance standards. Auditions at the beginning of fall quarter, and membership is required for the complete year. Corequisite: MUEN 161.

**MUEN 155 or 355** **1 F, W, S**  
**Symphonic Wind Ensemble**

Advanced instrumentalists rehearse and perform a wide variety of music in various settings. Tours and workshops on alternate-year basis. By audition.

**MUEN 156 or 356** **1 F, W, S**  
**Orchestra**

Orchestral masterworks performed in quarterly concerts and other events. For advanced instrumentalists. By audition.

**MUEN 157 or 357** **1 F, W, S**  
**String and Piano Chamber Music**

Experience with chamber music for piano with strings under the direction of a Music faculty member. Includes duos, trios, and larger groups.

**MUEN 159 or 359** **1 F, W, S**  
**Keyboard Ensemble**

Literature for keyboard duets, duos,

## Music

and groups with instruments or voices and keyboard accompaniment.

### **MUEN 160 or 360** 1 F, W, S **Jazz Ensemble**

Emphasis on the rehearsal and performance of a range of jazz styles. Development of reading and improvisation skills. By audition.

### **MUEN 161 or 361** 1 F, W, S **Chorale**

Large mixed chorus considered a minor touring ensemble. Repertoire includes music from a wide range of styles and periods, both sacred and secular. Membership is preferred for the complete year. By audition.

### **MUEN 165 or 365** 1 F, W, S **Gospel Choir**

A mixed-voice chorus performing a wide variety of sacred music from African-American worship experiences. Some touring involved.

### **MUEN 170 or 370** 1 F, W, S **Guitar Ensemble**

Literature for classical guitars in duets, trios, quartets, and larger ensembles. May apply to half of the major ensemble requirements for guitar majors. By audition.

### **MUEN 175 or 375** 1 Arranged **Flute Quartet**

Normally limited to members of Symphonic Wind Ensemble. By audition.

### **MUEN 178 or 378** 1 Arranged **Saxophone Quartet**

Normally limited to members of Symphonic Wind Ensemble. By audition.

### **MUEN 179 or 379** 1 Arranged **Woodwind Quintet**

Normally limited to members of Symphonic Wind Ensemble. By audition.

### **MUEN 180 or 380** 1 Arranged **Brass Quintet**

Normally limited to members of Symphonic Wind Ensemble. By audition.

### **MUEN 181 or 381** 1 Arranged **Brass Ensemble**

Normally limited to members of Symphonic Wind Ensemble. By audition.

### **MUEN 182 or 382** 1 Arranged **Trombone Choir**

By audition.

### **MUEN 184 or 384** 1 F, W, S **String Quartet**

Normally limited to members of the Orchestra. By audition.

### **MUEN 186 or 386** 1 F, W, S **Handbell Choir**

MUEN 186 is open to any student with music reading skills. MUEN 386 rings music at or above level three. By audition.

## Music History and Literature

### LOWER-DIVISION COURSES:

### **MUHL 101** 0.3 F, W, S **Collegium in Music**

Out-of-class activities such as concert attendance plus one lecture per quarter on such subjects as safety and health among musicians, entrepreneurship in music, and other professional topics. Repeatable for credit.

### **MUHL 105** 3 F, W, S **Survey of Music**

Music in western civilization, including music fundamentals and a brief history from antiquity to the present. Emphasis on Western classical music.

Presented by recordings, visual aids, and lectures.

### **MUHL 115** 3 F **Survey of Music for Visual Media**

Music in film and other visual media, including a brief history from the beginnings of the technology to the present. Special emphasis on the use of music in storytelling. Presented by recordings, visual aids, and lectures.

### **MUHL 205** 3 S **Listening with Understanding**

Fosters the development of listening skills that lead to an understanding of Western music. Students are introduced to how music is put together and how to listen to a variety of periods and styles with understanding. Designed for music students and the general student with some knowledge of music. Presented by recordings, visual aids, discussion, and lectures.

### **MUHL 206** 3 S **Music in Christian Worship**

History and practice of the use of music in worship services. Emphasis on both liturgical and nonliturgical forms of worship. Odd years.

### **MUHL 245** 3 W **Introduction to World Music and Culture**

Exploration of the importance of music in society around the world. Examines how people from a wide variety of cultures incorporate music into their lives. Emphasis is placed on non-Western and folk music.

### UPPER-DIVISION COURSES:

### **MUHL 331+332+333** 3+3+3 F+W+S **Music History Sequence**

Development of forms and styles, cultural backgrounds and biographies, and

analysis of basic musicological methods.  
 MUHL 331: Music history through the Baroque Era.

MUHL 332: Music history of the Classic and Romantic Eras.

MUHL 333: Music history from the Post-Romantics to the present. Includes some discussion of non-classical American music and its effect on the composition of classical music.

Prerequisites: ENGL 101, the ability to read both bass and treble clefs, and a basic knowledge of music theory. Recommended prerequisite: MUTH 121, 122, 123. Odd years.

**MUHL 337** **2 W**  
**Keyboard Literature**

Explores the development of keyboard instruments as well as genres and literature pertaining to teaching and performance. Even years.

**MUHL 339** **2 W**  
**String Literature**

Explores the development of string instruments as well as genres and literature pertaining to teaching and performance. Odd years.

**MUHL 485** **1-3 Arranged**  
**Topics in Music History**

Advanced study course that goes beyond topics covered in the program's regular offerings. A specific title is given to the course when it is taught. Repeatable for credit under different subtitles. Prerequisites: MUHL 333.

**MUHL 495** **1-3 Arranged**  
**Independent Study**

Advanced, independent project in music history. Requires approval of the department chair. Three hours maximum.

**Music Performance**

*For information on the cost of private music lessons, see the section entitled "Financial Information" in this catalog.*

LOWER-DIVISION COURSES:

**MUSP 120-124** **1 F, W, S**  
**Music Lessons: Class Instruction**

Lessons for groups of four or more students in voice or instruments. Meets one clock hour per week. Not applicable toward the principal performance area of a music major. Repeatable for credit.

**MUSP 162** **1-2 F, W, S**  
**Music Lessons: General**

Elementary instruction in voice, harpsichord, organ, piano, guitar, and orchestra and band instruments. Not applicable toward the music major. Incurs an additional charge.\* Repeatable for credit.

**MUSP 163** **1-2 F, W, S**  
**Performance Studies: Major**

Private lessons in voice, harpsichord, organ, piano, guitar, and orchestra and band instruments. Applicable to all majors except B.Mus. performance emphasis. One hour is usually taken each quarter. Repeatable for credit.

**MUSP 289** **1 F, W, S**  
**Associate Degree Recital**

Required of associate degree students, the final quarter of lessons culminates in this recital. Minimum of 15 minutes.

UPPER-DIVISION COURSES:

**MUSP 319** **1-2 W**  
**Keyboard Harmony**

For pianists and organists. Learning to transpose, modulate, and harmonize melodies; developing ability to improvise. Admission by permission of the instructor. Odd years.

**MUSP 320-324** **1 F, W, S**  
**Music Lessons: Class Instruction**  
 (See description of MUSP 120-124.)

**MUSP 362** **1-2 F, W, S**  
**Music Lessons: General**  
 (See description of MUSP 162.)

**MUSP 363** **1-2 F, W, S**  
**Performance Studies: Major**  
 (See description of MUSP 163.)

**MUSP 386** **1 F, W, S**  
**Perform Studies: Secondary Area**

Private lessons for Bachelor of Music majors in secondary areas. Limited to one area and one hour credit per quarter. Selected in consultation with the major advisor. Does not apply to lessons taken to fulfill instrumental methods or piano proficiency requirements. Repeatable for credit.

**MUSP 391** **1 S**  
**Junior Seminar in Music**

Preparation for senior recital and life after graduation. Includes programming discussions, how to write program notes, job opportunities and how to find them, graduate schools and graduate school applications.

**MUSP 489** **1 F, W, S**  
**Senior Recital**

Required of music-education emphasis and B.S. music majors, the final quarter of lessons culminates in this recital. (See MUED 489 for exception.) Minimum of 30 minutes.

**MUSP 495** **1-3 Arranged**  
**Independent Study in Performance**

Advanced, independent research project in solo and ensemble literature and pedagogy for the major instrument. Requires approval of department chair. Repeatable to a maximum of 3 credits.

# Music

## Music Theory

SERVICE COURSE:

### **MUTH 103 3 S** **Fundamentals of Music Theory**

The rudiments of music theory including notation, rhythm, melody, harmony, timbre, form, and texture. Required of majors who have not passed the Theory I entrance examination. Does not apply toward the music major.

LOWER-DIVISION COURSES:

### **MUTH 121+122+123 3+3+3 F+W+S** **Beginning Theory I, II, III**

An integrated study of the parameters of music within a wide spectrum of cultures and historical periods. Exploration of the simpler forms and textures. Introduction to composition and arranging in vocal and instrumental applications. Must be taken in sequence.

### **MUTH 121L+122L+123L 1+1+1 F+W+S** **Beginning Theory Laboratory**

Exercises in sight-singing, dictation, and keyboard skills. Meets two days a week. Taken in conjunction with MUTH 121+122+123.

### **MUTH 221+222+223 3+3+3 F+W+S** **Intermediate Theory I, II, III**

Advanced study of musical parameters begun in Theory I. Movement toward more complex forms and textures. Must be taken in sequence. Prerequisites: MUTH 121+122+123.

### **MUTH 221L+222L+223L 1+1+1 F+W+S** **Intermediate Theory Laboratory**

Exercises in sight-singing, dictation, and keyboard skills. Meets two days a week. Taken in conjunction with MUTH 221+222+223.

### **MUTH 224 1 F**

#### **Music Technology: Notation**

Fundamentals of music notation and desktop publishing using Finale. Presented through hands-on laboratory sessions. Prerequisite or corequisite: MUTH 121.

### **MUTH 225 2 W**

#### **Music Technology: Editing & Synthesis**

Fundamentals of music recording, editing, and synthesis using industry standard software. Presented through lectures and hands-on laboratory sessions. Prerequisite: MUTH 121. Prerequisite or corequisite: MUTH 122.

UPPER-DIVISION COURSES:

### **MUTH 331 3 F**

#### **Orchestration & Arranging**

Technical aspects and sound qualities of instruments. Arranging for a variety of instrumental groups. Prerequisite: MUTH 123. Even years.

### **MUTH 332 3 W**

#### **Counterpoint**

Basic contrapuntal principles as generally illustrated in music of various historical styles. Prerequisite: MUTH 123. Even years.

### **MUTH 333 3 S**

#### **Form and Analysis**

Form and structure of music from plainchant to the present. Prerequisite: MUTH 123. Even years.

### **MUTH 334 2 F**

#### **Electronic Composition**

Skills for classical music composition using software synthesizers such as Max Cycling '74. Creating soundscapes and new sonic spaces. Presented through lectures and hands-on laboratory sessions. Prerequisite: Three credits of MUTH 432. Odd years.

### **MUTH 335 3 S**

#### **Advanced Composition for Visual Media**

Advanced skills for music regarding, editing, and MIDI synthesis using Cubase. Sound editing and scoring for film and other visual media. Presented through lectures and hands-on laboratory sessions. Prerequisite: MUTH 225. Odd years.

### **MUTH 432 1 F, W, S**

#### **Composition**

Composing the smaller forms of music for a variety of vocal and instrumental combinations. Small seminar with unique assignments for each student. Repeatable for credit. Enrollment is limited to music majors. Prerequisite: MUTH 123.

### **MUTH 442 3 F, W, S**

#### **Advanced Composition**

Advanced studies in composing music for a variety of vocal and instrumental combinations. Repeatable for credit. Prerequisite: Three credits of MUTH 432. Permission of the instructor is required.

### **MUTH 485 1-3 Arranged**

#### **Topics in Music Theory**

Advanced study course that goes beyond topics covered in the program's regular offerings. A specific title is given to the course when it is taught. Repeatable for credit under different subtitles. Prerequisites: MUTH 123, 123L.

### **MUTH 495 1-3 Arranged**

#### **Independent Study**

Advanced independent project in composition or theory. Requires approval of the department chair. Three hours maximum.



## Faculty

*Shana Ruggenberg, Chair; Lance Bain, Susan Bussell, Serah Choi, Diana Diaz, Meghan Gainer, Beverly Glover, Pauline Headley, Jeff Joiner, Roxanne Josse, Helené Linzau, Gladys Muir, Laurie Parson, Liss Poiret, James Robertson, Vicki Saunders, Shanthi Solomon, Tamara Tirado, Debra Wallace*  
 Departmental Office: 116 Davidian Hall; 965-7262

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The faculty of the *Nursing and Health Sciences Department* is committed to providing a broad, liberal and professional education to a diverse population of traditional and adult students in multiple settings. This task is undertaken in a climate of Christian service, dedicated to the development of the whole person, and designed to serve the health needs of individuals, families, and the community at large. The curriculum and activities of the nursing and health sciences programs are planned in harmony with the mission of the college and of the Seventh-day Adventist Church, which it represents. The department offers a variety of programs.

Persons considering a career in nursing or the health sciences are encouraged to include in their general education program courses in medical terminology, computer skills, and Spanish or the language of any Pacific Rim country.

Two emergency services degrees are offered: The Associate of Science and the Bachelor of Science in Emergency Management.

The A.S. in Emergency Services prepares students for the position of emergency medical technician (EMT) as well as other positions in related fields such as offices of emergency services and firefighting. Upon completion of the AS degree portion of the program, students are also academically prepared to enter paramedic school. Students continuing on to the B.S. degree, complete coursework designed to prepare them for a role in management or education within the emergency services field. Training includes vocational certifications in technical rescue, incident command, emergency vehicle operations, and emergency medical technician.

The A.S. in Health Sciences is a general studies degree with an emphasis on the life and social sciences. This degree is appropriate for students with an interest in one of the allied health professions. Advising and curriculum is offered for students who wish to select a pre-professional program in conjunction with the A.S. in Health Sciences.

Two nursing degrees are offered: the Associate of Science (A.S.) and the Bachelor of Science in Nursing (B.S.N.). The A.S. degree is available in a traditional format on the main campus in Angwin and in a non-traditional LVN to RN format at Travis Air Force Base in Fairfield and in Napa. The B.S.N. degree is available as an RN to B.S.N. program in a non-traditional format on the main campus in Angwin and in Napa.

Pacific Union College is a member of the National League for Nursing. Both the A.S. in Nursing and the B.S.N. programs are accredited by the Accreditation Commission for Education in Nursing.

Questions and comments may be directed in writing to:

Accreditation Commission for Education in Nursing (ACEN)  
 3343 Peachtree Rd, N.E., Suite 850  
 Atlanta, GA 30326

By telephone the ACEN can be reached at (800) 669-1656.

## Clinical Clearance Requirements

Students must meet the following requirements prior to registration for nursing and emergency services clinical courses:

1. Documentation showing current certification in cardiopulmonary resuscitation for healthcare professionals through AHA BLS Healthcare Provider.
2. Health documents (see Nursing and Health Sciences Department for details on acceptable documentation):
  - a. Report of a full physical examination within 12 months of admission that indicates acceptable health.
  - b. Evidence of immunity to measles (rubeola), mumps, rubella, and varicella, verified by titer or immunization.
  - c. Evidence of immunity to Hepatitis B, verified by titer or by documentation of immunization series in progress. Series should be started upon acceptance into the program if not previously initiated.
  - d. Evidence of a recent dose of Tdap.
  - e. Evidence of negative tuberculosis skin test following a two-step process, started upon acceptance into the program, or appropriate radiologic documentation.
3. A clear background check and drug screen are required of all students upon entry into the program and prior to participating in required clinical experiences. A valid social security number is needed for this purpose. Students are responsible for all costs associated with criminal background check and drug screening (paid for through student fees). Both the criminal background check and the drug screen must be completed satisfactorily as determined by the Nursing and Health Sciences Department. Results are reviewed by the Department Chair. Results of the drug screening will not be disclosed by the Nursing and Health Sciences Department to third parties except as may be necessary or appropriate to substantiate the Department's actions or processes or as otherwise required by law (e.g. subpoena or public safety). Drug screens must be clear. Background check results that are potentially unacceptable to clinical agencies will be evaluated with the student and the clinical agency on a case-by-case basis. If an agency does not accept a student on the basis of background check or drug screen results, the Nursing and Health Sciences Department has no responsibility for arranging alternate clinical placements and the student will not be allowed to continue in the program if clinical requirements of the courses cannot be met.

*Requirements may change without notice according to clinical facility requirements.*

## Major in Emergency Services, A.S.

*A minimum of 49.5 hours*

### ► Required Core Courses (26.5 hours):

EMER 104+105	Emergency Medical Technician	5+5
EMER 155	Fundamentals of Incident Command	3
EMER 180	Fundamentals of Technical Rescue	3
EMER 225	Public Health for EMS	3
EMER 235	Emergency Vehicle Operation	2
EMER 255	Emergency Scene Management	3
EMER 273	Emergency Medical Practicum	2
EMER 291	Emergency Services Seminar	.5

### ► Required Cognate Courses (23 hours):

BIOL 101	Human Anatomy	5
BIOL 102	Human Physiology	5
BIOL 223	Medical Terminology	2
PSYC 260	Death and Dying	4

*At least one of the following courses:*

ANTH 124	Cultural Anthropology (4)	4
SOCI 121	Introduction to Sociology (4)	4
SOCI 232	American Social Problems (4)	4

*At least one of the following courses:*

SPAN 105	Span/Health Professionals: Basic (3)	3
SPAN 205	Span/Health Professionals: Intermediate (3)	3

### Recommended Electives

EMER 280	Technical Rescue and Survival (3)	3
NURS 212	Pharmacology (3)	3

## Practical Experience

Students are encouraged to gain practical experience while in the Emergency Services program. Working as an EMT or emergency department technician provides experience as well as income. Volunteer opportunities are available through the local fire department and the ambulance company. Both organizations are largely staffed by college students and provide extra-curricular training as well as a way to serve the community. Many volunteer firefighters and EMTs from Angwin have used their training and experience to transition into paid positions.

## Clinical Clearance

The Emergency Services program involves clinical experiences. Prior to registration for clinical courses, students must meet the Nursing and Health Sciences Department "Clinical Clearance Requirements" as described on p. 148.

**Major in Emergency Management, B.S.**

*A minimum of 85 hours (36 upper-division hours)*

► **Required Core Courses (47 hours):**

EMER 104+105	Emergency Medical Technician	5+5
EMER 155	Fundamentals of Incident Command	3
EMER 180	Fundamentals of Technical Rescue	3
EMER 225	Public Health for EMS	3
EMER 255	Emergency Scene Management	3
EMER 273	Emergency Medical Practicum	2
EMER 305	Public Safety System Design	2
EMER 355	Disaster Management	3
EMER 425	Crisis Management in Public Safety	4
EMER 462	Emergency Services Health Ed Practicum	1
EMER 480	Issues in Emergency Services	3
EMER 491	Emergency Management Capstone	2
NURS 460	Health Care Education	4
NURS 485	Introduction to Research	4

► **Required Cognate Courses (38 hours):**

BIOL 101	Human Anatomy	5
BIOL 102	Human Physiology	5
BIOL 223	Medical Terminology	2
MGMT 361	Management	4
MGMT 465	Organizational Behavior	3
PSYC 126	Assertive Behavior	2
PSYC 260	Death and Dying	4
SOCI 232	American Social Problems	4
SOCI 355	“Racial” and Ethnic Relations	3

*At least one of the following options:* 10-15

BIOL 101+102	Human Anatomy+Physiology (5+5)
BIOL 111+112+113	Biological Foundations (5+5+5)

*At least one of the following courses:* 3

COMM 328	Small Group Communication (3)
COMM 329	Organizational Communication (3)

*At least one of the following courses:* 3

SPAN 105	Span/Health Professionals: Basic (3)
SPAN 205	Span/Health Professionals: Intermediate (3)

**Recommended Electives**

EMER 280	Technical Rescue and Survival (3)
NURS 212	Pharmacology (3)

**Pre-Professional Students**

The B.S. in Emergency Management can be combined with a pre-professional program (pre-medicine or other similar programs). Students interested in this option should select the BIOL 111+112+113 sequence and should plan to take additional

science cognates such as the ones listed below. Pre-professional students are encouraged to work with the Emergency Management advisor; sample four-year curriculum plans are available at the Nursing and Health Sciences Department.

**Recommended Cognate Courses:**

*(For students in a pre-professional program)*

CHEM 111+112+113	General Chemistry	5+5+5
CHEM 371+372+373	Organic Chemistry	4+4+4
PHYS 111+112+113	General Physics	4+4+4

**Pre-Allied Health Programs**

Advising and curriculum is offered for students who wish to select one of the following pre-professional programs for admission to Loma Linda University in conjunction with the A.S. in Health Sciences:

- Pre-Clinical Laboratory Science (96 hours)
- Pre-Communication Sciences & Disorders (96 hours)
- Pre-Cytotechnology (98 hours)
- Pre-Dental Hygiene (96 hours)
- Pre-Health Information Administration (96 hours)
- Pre-Medical Radiography (42 hours)
- Pre-Nutrition & Dietetics (100 hours)
- Pre-Occupational Therapy (96 hours)
- Pre-Physical Therapy (138 hours)
- Pre-Physical Therapy Assisting (48 hours)
- Pre-Radiation Sciences (96 hours)
- Pre-Respiratory Care (82 hours)

The requirements for the degree overlap significantly with the requirements for the pre-professional programs listed above. With appropriate planning, students pursuing pre-professional programs of 96 or more hours will be able to select coursework to meet both the pre-professional requirements and the degree requirements within the allotted hours. Students pursuing shorter pre-professional programs may also choose to complete the degree, but they likely will need to spend additional time at Pacific Union College to complete the requirements. Students who wish to pursue admission to a pre-professional program at an institution other than Loma Linda University may be able to design a curriculum to meet their needs as well.

Admissions to these programs is competitive. Completion of the pre-professional requirements and/or the A.S. degree at Pacific Union College does not guarantee admission to any pre-professional program. Students are advised to consult with the Health Sciences advisor for additional information regarding the A.S. in Health Sciences and the pre-Allied Health programs.

# Nursing and Health Sciences

## Major in Health Sciences, A.S.

A minimum of 61 hours

### ► Required Core Courses (38-39 hours):

HLTH 101	Intro to Allied Health Professions	2
HLTH 201	Issues in Allied Health Professions	2

**Science and Mathematics:** At least 20 hours  
 Include courses from at least 2 separate areas

#### Area 1: Biology

BIOL 101+2	Human Anatomy + Physiology (5+5)
BIOL 111+2+3	Biological Foundations (5+5+5)
BIOL 223	Medical Terminology (2)
MICR 134	General Microbiology (5)

#### Area 2: Chemistry

CHEM 101+2+3	Intro to Chemistry (4+4+4)
CHEM 111+2+3	General Chemistry (5+5+5)
CHEM 371+2+3	Organic Chemistry (4+4+4)

#### Area 3: Mathematics & Statistics

MATH 106	College Algebra (4)
MATH 130	Precalculus (5)
MATH 131	Calculus I (4)
STAT 222	Introduction to Statistics (4)

#### Area 4: Physics

PHYS 105	Introduction to Physics (5)
PHYS 111+2+3	General Physics (4+4+4)

**Social Science:** At least 12 hours

Include courses from at least 2 separate prefixes

ANTH 124	Cultural Anthropology (4)
ECON 261	Macroeconomics (4)
ECON 265	Microeconomics (4)
GEOG 210	World Regional Geography (3)
PLSC 124	Intro to American Govt (3)
PSYC 121	General Psychology (4)
PSYC 126	Assertive Behavior (2) (or SOWK 126)
PSYC 234	Human Development (4)
SOCI 121	Introduction to Sociology (4)
SOCI 214	The Family (4)
SOCI 355	“Racial” & Ethnic Relations (3)

**Health:** At least one course

FDNT 235	Nutrition (3)
HLED 162	Fitness for Life (2)
HLED 166	Health Education (2)

### ► Required Cognate Courses (23 hours):

ENGL 101+102	College English I, II	4+4
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**Ethics:** At least one course

RELB 315	Biblical Ethics (3)
RELT 216	Introduction to Christian Ethics (3)
RELT 355	Christian Ethics in Society (3)
RELT 440	Christian Bioethics (3)

**Humanities:** At least 12 hours

Include courses from at least 3 separate areas\*

\* Students who have completed courses from 3 separate areas but are short of the required 12 hours may elect to apply up to 3 hours of approved applied arts coursework to the humanities requirement.

#### Area 1: Art

ARTH 115	History of Western Art I (4)
ARTH 116	History of Western Art II (4)

#### Area 2: History

HIST 101	History of World Civilizations I (4)
HIST 102	History of World Civilizations II (4)
HIST 134	History of the United States I (4)
HIST 135	History of the United States II (4)

#### Area 3: Literature

ENGL 212	Shakespeare in Performance (2-3)
ENGL 301	Themes in Literature (4)

#### Area 4: Languages and Cultures

Language and culture class: CHIN 111, FREN 111, GRMN 111, ITAL 111, JAPN 111, or SPAN 111 (4)	
SPAN 105	Span/Health Professionals: Basic (3)
SPAN 205	Span/Health Professionals: Intermediate (3)

#### Area 5: Music

MUHL 105	Survey of Music (3)
MUHL 245	World Music and Culture (3)

#### Area 6: Philosophy

PHIL 101	Introduction to Philosophy (4)
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## Major in Nursing, A.S.

The mission of the Associate of Science degree program in Nursing is to prepare students to provide competent nursing care for individuals of all ages by utilizing the nursing process, while functioning in the role of the associate degree nurse in the context of Christian faith and human service. This mission is fulfilled by providing quality nursing education guided by the Nursing Program’s philosophy.

### ► Admission Requirements\*:

Admission requirements are those published in the General Catalog in effect during the year of the student’s admission to the Nursing Program. The Nursing and Health Sciences Department reserves the right to admit or deny admission to individuals applying to the Nursing Program.

1. Admission is competitive and candidates are evaluated based on:
  - a) Complete prerequisite courses with a grade of C or better in each course:
    - i. A full year of Algebra II or Integrated Math III at the secondary level or completion of MATH 096.
    - ii. A full year of Chemistry or Physics at the secondary level or completion of CHEM 101 or PHYS 105.
    - iii. ENGL 101 College English I (4).
    - iv. BIOL 101 Human Anatomy (5) or BIOL 102 Human Physiology (5).
    - v. NURS 110 Introduction to Nursing (2). Course may be in process at time of consideration.
  - b) College GPA calculated on cognate and GE courses required for the A.S. nursing degree. Courses that may be completed in high school and religion courses are not computed into the GPA. The minimum GPA for nursing applicants is 3.0. Preference will be given to applicants who have both a GPA above 3.3 and have completed at least 12 units of nursing-required courses at Pacific Union College.
    - i. Each course must be passed with a C or better.
    - ii. Having repeated cognate or GE courses after receiving a final grade of less than C reduces an applicant's chance of admission.
  - c) ACT English test score of 19 or better.
  - d) TEAS (Test of Essential Academic Skills) total score that results in an Academic Preparedness Level of Proficient, Advanced or Exemplary.
  - e) Other factors (see A.S. Nursing Application Packet).
2. Applicants must submit an application for admission to the Nursing and Health Sciences Department accompanied by the application fee of \$30. The nursing application also serves as application to the college. Application and readmission packets are available at the department office and website: [www.puc.edu/nursing](http://www.puc.edu/nursing).  
The application process begins with submission of the application form; completion of prerequisite requirements and submission of each of the following completes the process:
  - a) Personal essay.
  - b) Official academic transcripts from high school and from

each college previously attended.

- c) Two acceptable professional/academic references. *Recommendations written by relatives and those presented directly to the Nursing and Health Sciences Department by the applicants themselves are not acceptable.*
  - d) Current AHA BLS Healthcare Provider card (see Clinical Clearance Requirements, item 1, p. 146).
3. The Admissions Committee may request that the applicant participate in an admissions interview; applicants may also request an admissions interview.
  4. After the applicant has completed all admissions requirements, the application will be processed according to program application deadlines and the student notified in writing of the action taken. *See A.S. Nursing Application Packet.*
  5. Upon notification of admission to the program, students must submit all required documents to meet the Nursing and Health Sciences Department "Clinical Clearance Requirements" as described on p. 146.
- **Readmission Procedure for Nursing:**
- Students who withdraw from the program in good academic standing may apply for readmission as follows:
1. Submit a completed readmission application to the Nursing and Health Sciences Department. (Readmission packets are available at the department office.)
  2. Demonstrate adequate nursing knowledge for readmission:
    - a) Students requesting readmission after an absence from enrollment in a clinical course of one to three academic terms will be required to validate their current nursing knowledge and skills at the level of the last nursing course completed. If a student has been absent from the program for more than three academic terms, knowledge and skills validation expands to address each nursing course previously completed. An example of the validation process is available by request to the Nursing and Health Sciences Department.
    - b) Knowledge validation results determine appropriate course-level placement.
    - c) A per-hour fee is charged for knowledge validation testing.
  3. Meet all other "Requirements for Continuation In and Graduation from the Associate Degree Program in Nursing"

Students who fail a core nursing course may apply for readmission according to the "Readmission Procedure for

\* RN licensure may be denied for crimes, abusive behavior, or any illegal acts that are substantially related to the practice of nursing. Before applying to the Nursing Program, any applicant who has ever been convicted of a crime should ask for a copy of the Board of Registered Nursing Regulations Relating to Denial of Licensure, available at the department office or online at [www.rn.ca.gov](http://www.rn.ca.gov).

Nursing”. Failure is defined as one of the following:

- a) Receiving a grade below a C (2.0).
- b) Withdrawing for failing performance.

The following additional requirements must be met for readmission:

1. Students must identify problem areas that resulted in their failure.
2. Students must submit a plan of academic readiness that addresses, in detail, how the student plans to be successful if readmitted to the nursing program. The plan must be signed by the student, the student’s advisor, and the course instructor.
3. Students are limited to one nursing course repeat in the program, including withdrawals for failing performance. A second nursing course failure results in the student being permanently dropped from the program.

The Admissions Committee may request that an applicant for readmission participate in an interview; applicants may also request an interview. After the applicant has met all readmission requirements, the application will be processed and the student notified in writing of the action taken. Readmission is on a space-available basis and is not guaranteed. Because of enrollment limitations in clinical sections, students may experience significant delays when seeking readmission to the program.

### ► *Transfer, Challenge, and Waiver Options:*\*

Applicants wishing to transfer, challenge or waiver must meet the same admission or readmission requirements as generic students. Applicants may establish additional academic credit for acquired knowledge through challenge examinations or other methods of evaluation. Applicants meeting admission and degree requirements through transfer, challenge, or waiver have the same access as any other applicant for open space in clinical nursing courses.

Requests for admission by transfer from another nursing program are evaluated on an individual and space-available basis. Transfer courses must be equivalent to the courses in the Pacific Union College generic program. Eligible applicants must meet the same admission and continuation requirements as for the A.S. degree.

Applicants may have previous coursework, knowledge, and skills evaluated to validate their current level of knowledge. Knowledge validation in nursing is available to evaluate:

1. Applicants transferring from another program for educating registered nurses.
2. Applicants transferring from programs educating licensed vocational nurses.
3. Applicants having developed skills during previous employment, that are similar to those expected of students in required nursing courses.

The options available for LVNs, or eligible applicants who have passed the designated LVN equivalence test and wish to meet requirements to take the California licensure examination for registered nurses, are as follows:

1. Advanced-Placement A.S. option (Angwin campus): Applicants are given credit for first-year nursing courses. Required nursing courses include NURS 221, 222, 254, 255, 256, 325, and 326. Applicants must meet the same admission and continuation requirements as for the A.S. degree with the following changes:
  - a) A minimum of one year of full-time direct patient care experience in a medical setting as a Med Tech and/or LVN within the last five years is required before entering the program.
  - b) NURS 210 must be completed in place of NURS 110.
2. LVN to RN A.S. option: This program is offered at select off-campus sites. Intensive theory core weeks are conducted at regular intervals throughout each term for the nursing courses. Clinical hours are scheduled to allow working LVNs to meet their employment commitments. Required nursing courses are the same as previously described under the Advanced-Placement A.S. option. Applicants must meet the same admission and continuation requirements as for the A.S. degree with the following changes:
  - a) A minimum of one year of full-time direct patient care experience in a medical setting as a Med Tech and/or LVN within the last five years is required before entering the program.
  - b) Applicants must have completed a minimum of 16 college quarter units (10.6 semester units), including BIOL 101, 102 and MICR 134.
  - c) NURS 210 must be completed in place of NURS 110.
  - d) Chemistry is not required.
3. 30-semester/45-quarter unit option: This option does not earn a degree in nursing from Pacific Union College. Required courses are MICR 134, BIOL 102, NURS 221, 222, 254, and 325 only. Applicants desiring this option are not subject to any evaluative processes for admission. An RN

\* *Specific information and materials about transfer, challenge, waiver, and the 30-semester/45-quarter unit option are available from the Nursing and Health Sciences Department,*

license obtained through this nondegree option is not recognized in all states and those electing this option may encounter difficulty articulating into B.S. nursing programs. Applicants are advised to carefully research the limitations of this option.

► **Transportation Policies:**

Students are expected to provide their own transportation to, during, and from off-campus clinical labs. Faculty will not provide transportation. Students are advised not to transport clients in their own vehicles under any circumstances. This policy protects both the client and the student. State law requires proof of automobile liability insurance.

► **Course Evaluations:**

Each clinical nursing course is composed of both theory and clinical hours as reflected in the course description. Passing a clinical course and progressing to the next nursing course requires passing grades in both the theory and clinical components. If the clinical portion of a course is failed, a grade of F is recorded for the entire course and, if eligible and readmitted, the student repeats the entire course. See the Clinical Evaluation Policy in the A.S. Nursing Student Handbook.

► **Requirements for Continuation in and Graduation from the Associate Degree Program in Nursing:**

1. Compliance with all policies and procedures in the A.S. Nursing Student Handbook.
2. Current malpractice insurance, provided by the College.
3. Acceptable physical and mental health, and demonstration of continuous compliance with all Nursing and Health Sciences Department “Clinical Clearance Requirements” as described on p. 148. To ensure client safety, students absent from course activities for health-related reasons may be asked to provide evidence of readiness to return to class or clinical prior to resumption of course activities.
4. A minimum grade of C (2.0) in the required nursing, cognate, and general education courses.
5. Successful completion of all required nursing courses. Students are limited to one nursing course repeat in the program, including withdrawals for failing performance. A second nursing course failure results in the student being permanently dropped from the program.
6. Completion of all general education and cognate requirements before entering the second year of the A.S. curriculum. Exceptions must be petitioned to the Nursing Admis-

sions Committee. This requirement does not apply to the LVN to RN program.

7. Completion of all standardized tests administered as part of nursing curriculum.
8. Satisfactory completion of the requirements for the A.S. Degree in Nursing as specified in the current *General Catalog*.

**Major in Nursing, A.S.**

*A minimum of 99 hours included in the major and cognates.*

► **Required Core Courses (70 hours):**

NURS 121	Nursing I	6
NURS 124	Nursing II	6
NURS 125	Nursing III	6
NURS 212	Pharmacology	3
NURS 221	Nursing IV	6
NURS 222	Nursing V	6
NURS 235	Health Assessment	4
NURS 254	Mental Health Nursing	6
NURS 255	Pediatric Nursing	5
NURS 256	Maternal-Newborn Nursing	6
NURS 325	Nursing VI	9
NURS 326	Management and Professional Practice	3
NURS 390	Pathophysiology	4

► **Required Cognate Courses (29-30 hours):**

BIOL 101	Human Anatomy	5
BIOL 102	Human Physiology	5
FDNT 235	Nutrition	3
MICR 134	General Microbiology	5
PSYC 121	General Psychology	4
PSYC 234	Human Development	4

*At least one of the following courses:* 3-4

ANTH 124	Cultural Anthropology (4)
NURS 376	Nursing Issues: Transcultural Care (3)
SOCI 121	Introduction to Sociology (4)
SOCI 214	The Family (4)
SOCI 232	American Social Problems (4)
SOCI 355	“Racial” and Ethnic Relations (3)

► **General Education Requirements (16-29 hours):**

**Written and Oral Communication**

COMM 105	Introduction to Communication	3
ENGL 101	College English I	4

## Math and Science

At least one of the following options: 0-8

A full year of Algebra II or Integrated Math III with semester grades of C or better from an accredited secondary institution

Approved algebra waiver exam

MATH 095+096 Basic Algebra I+II (4+4)

At least one of the following options: 0-5

A full year of Chemistry or Physics with semester grades of C or better from an accredited secondary institution

CHEM 101 Introductory Chemistry (4)

PHYS 105 Introduction to Physics (5)

## Religion

Take at least 9 hours of religion coursework 9

These 9 hours must include:

At least 6 hours from RELB and/or RELT courses.

Completion of sections A, B, C, and D listed below.

### A. Prerequisite:

One of the following options:

Two full years of Christian religion courses with semester grades of C- or better at an accredited secondary institution

Successful completion of a waiver exam administered by the Theology Department

RELT 105 Biblical Foundations (3)

### B. Encountering Jesus:

RELB 150 Encountering Jesus (3)

### C. Understanding Christian Faith and Foundations:

Take an elective course from RELB, RELH, RELP, or RELT. (Note- students required to take RELT 105 to meet section A above may apply the course to this requirement.)

### D. Exploring Seventh-day Adventist Life and Thought:

One of the following courses

RELB 370 Studies in Daniel (3)

RELB 371 Studies in Revelation (3)

RELH 235 Life and Ministry of Ellen White (3)

RELH 360 Adventist Heritage (4)

RELP 351 Ministry of Healing (3)

RELT 220 Seventh-day Adventist Beliefs (3)

RELT 335 Theology of the Sanctuary (3)

RELT 336 Current Issues in Seventh-day Adventism (3)

RELT 337 Last Day Events (3)

RELT 338 The Sabbath (3)

## Bachelor of Science in Nursing, B.S.N. (Second-Step Program in Nursing)

The mission of the Bachelor of Science in Nursing Program is to prepare registered nurses for professional practice within a broad liberal education in a context of Christian faith and human service. This mission is fulfilled by providing quality nursing education guided by the Nursing Program's philosophy.

This upper-division program for registered nurses leading to the Bachelor of Science in Nursing degree is designed to articulate with a two-year associate degree program. A registered nurse graduate of an Associate Degree program often will have completed most of the nursing prerequisites for the program. Prior nursing credit of associate degree or diploma program graduates will be evaluated and appropriate credit given.

A student enrolled in full-time study may sequence general education and nursing courses to complete degree requirements in three to six quarters. A flexible class schedule helps to accommodate the needs of those with limited access to nursing programs or who are unable to coordinate with traditional baccalaureate programs.

The BSN program also is offered as a fully online program. For additional information regarding this option, see <http://onlinecourses.puc.edu/>.

### ► Admission Requirements:

Admission requirements are those published in the General Catalog in effect during the year of the student's admission to the Nursing Program. The Nursing and Health Sciences Department reserves the right to admit or deny admission to individuals applying for admission to the Nursing Program.

1. In addition to the requirements for admission to the college, the following criteria must be met:
  - a) Completion of an associate degree, or equivalent, in nursing.
  - b) Completion of the required cognates for the A.S. degree in Nursing.
  - c) Applicants must be able to demonstrate a feasible plan for completion of general education courses at a time consistent with completion of courses in the major. Students accepted for full-time enrollment will lack no more than 12 hours of GE.
  - d) Current unencumbered California RN license is expected for admission. With the permission of the department, a student may be granted admission to the program by demonstrating eligibility for RN licensure. However, possession of a current California RN license and RN-level malpractice insurance is required in order to register for any practicum course and its corequisite

courses if applicable. Disciplinary measures or restrictions on practice may preclude enrollment in course practicums, and thus the program. The practicum courses are NURS 432, NURS 462, and NURS 389 (under the practicum subtitle).

2. Applicants must submit an application for admission to the Nursing Program. Application packets are available at the department office and website: *www.puc.edu/nursing*.
3. The Admissions Committee may request that the applicant participate in an admissions interview; applicants may also request an admissions interview.

After the applicant has completed all admissions requirements, the application will be processed according to program application deadlines and the student notified in writing of the action taken. See *B.S.N. Nursing Application Packet* for details.

► **National Specialty Certifications**

Students transferring into the Bachelor of Science in Nursing Program with previously earned national specialty certifications should apply to the Department Chair for credit at the time of admission to the program. National specialty certifications include those requiring a documented number of years/hours of work in the specialty and a standardized exam; see the Nursing and Health Sciences Department for a list of recognized certifications.

Credit is granted subject to the approval of the Department Chair in conjunction with the Records Office. Students with recognized certifications typically receive credit for NURS 389 Special Topics: Nursing Role Specialization Practicum (maximum of 5 quarter credits). In rare cases, a certification program may provide education that closely matches content provided in another upper-division nursing course at Pacific Union College. These situations will be considered for credit and course equivalencies on a case-by-case basis.

In order to receive credit, students must provide the Nursing and Health Sciences Department with documentation providing evidence of the approved national certification. Grades issued in recognition of national specialty certification are recorded as “S” (Satisfactory).

► **Transportation Policies:**

See transportation policies listed under the A.S. program.

► **Clinical Placement:**

Clinical placement is evaluated and approved by the nursing faculty.

► **Air Force ROTC**

Air Force Reserve Officer Training Corps (Air Force ROTC) is available to Pacific Union College students through California

State University, Sacramento. ROTC coursework is completed on the CSU Sacramento campus. Upon completion of ROTC requirements and coursework necessary for the degree objective (e.g., B.S.N. in Nursing), cadets are commissioned as an officer in the US Air Force. Because of the firm scheduling requirements of the ROTC program, students should work closely with their academic advisor and the AF ROTC unit in planning their academic program. Air Force ROTC scholarships are available to qualified students. Contact the unit admissions officer in the Aerospace Studies Department at CSU Sacramento, telephone 916-278-7783, for information on the program.

► **Academic Requirements for Continuation in and Graduation from the Second-Step Program in Nursing:**

1. The B.S.N. cognate and general education requirements are outlined below. The general requirements for a baccalaureate degree are outlined in the section entitled “The Baccalaureate Degree Program” in this catalog.
2. Students who receive a grade lower than a C- in a nursing course must repeat the course. Students are limited to a total of two nursing-course repeats in the program, including withdrawals for failing performance, with no course repeated more than once.

**Bachelor of Science in Nursing, B.S.N.**

*A minimum of 76 hours (39 upper-division hours) included in the major and cognates. All courses are to be selected in consultation with the nursing faculty advisor. Each practicum must be taken concurrently with the appropriate theory course.*

► **Required Core Courses (44-49 hours):**

NURS 390	Pathophysiology	4
NURS 431	Community Health Nursing	4
NURS 432	Community Health Nursing Practicum	3
NURS 460	Health Care Education	4
NURS 461	Health Care Management	4
NURS 462	Health Care Mgmt/Educ Practicum	3
NURS 485	Introduction to Research	4
NURS 490	B.S.N. Capstone I	1
NURS 491	B.S.N. Capstone II	1

*At least one of the following courses:* 4

NURS 235	Health Assessment (4)
NURS 335	Advanced Health Assessment (4)

*At least one of the following courses:* 3-5

NURS “Special Topics” courses

*At least three of the following courses:* 9-12

NURS “Nursing Issues” courses

# Nursing and Health Sciences

## ► Required Cognate Courses (33-34 hours):

BIOL 101	Human Anatomy	5
BIOL 102	Human Physiology	5
CHEM 101*	Introductory Chemistry	4
FDNT 235	Nutrition	3
MICR 134	General Microbiology	5
PSYC 121	General Psychology	4
PSYC 234	Human Development	4

At least one of the following courses: 3-4

ANTH 124	Cultural Anthropology (4)	
NURS 376	Nursing Issues: Transcultural Care (3)	
SOCI 232	American Social Problems (4)	
SOCI 355	“Racial” and Ethnic Relations (3)	

## ► General Education Requirements for the B.S.N.:

### Written and Oral Communication

COMM 105	Intro to Communication	3
ENGL 101+102	College English I, II	4+4

### Math and Science

At least one of the following options: 0-8

A full year of Algebra II or Integrated Math III with semester grades of C or better from an accredited secondary institution  
Approved algebra waiver exam  
MATH 095+096 Basic Algebra I+II (4+4)

STAT 222	Introduction to Statistics	4
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### History and Humanities

At least one history or political science course: 3-4

At least two courses from the following: 6-8

Courses must come from at least 2 different areas

#### Area 1. Literature

ENGL 210	Bay Area Theater (3)
ENGL 211	Survey of Drama (4)
ENGL 212	Shakespeare in Performance (2-3)
ENGL 223	British Literature Survey (4)
ENGL 301	Themes in Literature (4)

#### Area 2. Visual Arts

ARTH 107	History of American Art (3)
ARTH 115	History of Western Art I (4)
ARTH 116	History of Western Art II (4)
ARTH 278	History of Women Artists (3)

#### Area 3. Music

MUHL 105	Survey of Music (3)
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\* Students who have already completed a non-credit CHEM 101 equivalency may substitute CHEM 102 (or any other higher level CHEM course) for this requirement.

MUHL 115	Survey of Music for Visual Media (3)
MUHL 206	Music in Christian Worship (3)
MUHL 245	World Music and Culture (3)

#### Area 4. Philosophy

PHIL 101	Introduction to Philosophy (4)
Any other course with a PHIL prefix	

#### Area 5. Language & Culture

Language and culture class: CHIN 111, FREN 111, GRMN 111, ITAL 111, JAPN 111, or SPAN 111 (4)	
SPAN 105	Span/Health Professionals: Basic (3)
SPAN 205	Span/Health Professionals: Intermediate (3)

### Religion

Complete the religion requirement for the A.S. in Nursing: 9

Note: This requirement is waived for transfer students who earned an A.S. degree in nursing at another institution.

At least 9 additional hours of religion coursework: 9\*

The 9 hours of religion coursework must include:

At least 3 additional hours of RELB and/or RELT courses

At least 6 upper-division hours

At least one course each from sections A and B below

#### A. Building Scriptural Foundations:

*Specialized Option for B.S.N. (recommended)*

RELB 341	Jesus as Healer (2-3)
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*Other Options*

Other options are listed on p. 39 of this catalog.

#### B. Integrating Faith and Life:

*Specialized Options for B.S.N. (recommended)*

RELP 346	Spiritual Care for Patients (2-3)
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RELT 345	Christian Ethics/ Patient Care (2-3)
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*Other Options*

Other options are listed on p. 39 of this catalog.

### ► Electives for the B.S.N.:

Additional coursework as necessary to complete 192 hours total and 60 upper-division hours total to meet the baccalaureate degree requirements. Students may take additional Nursing Issues and Special Topics courses if upper-division hours are needed.

\* Upon request, this requirement will be reduced to 6 hours for students who transfer at least 128 hours from non-Adventist institutions. The reduced requirement must be completed at Pacific Union College.

## Emergency Services

### LOWER-DIVISION COURSES:

#### **EMER 104+105 5+5 F+W** **Emergency Medical Technician I, II**

Emergency medical training necessary to provide pre-hospital basic life support to the sick and injured. Meets, in part, the requirements for California EMT certification. Must be 18 years old by course completion to be eligible for certification. Must be taken during the same year. Includes four lectures and one laboratory per week. EMER 105 also includes arranged pre-hospital clinical hours. Prerequisite: CPR for the Health-care Provider. EMER 104 or equivalent is a prerequisite for EMER 105.

#### **EMER 155 3 F** **Fundamentals of Incident Command**

An introduction to the nationally adopted incident command system, provides the foundation for higher level ICS training. Includes the history, features and principles, and organizational structure of the Incident Command System as well as the relationship between ICS and the National Incident Management System (NIMS).

#### **EMER 180 3 S** **Fundamentals of Technical Rescue**

An introduction to theory and skills used in technical rescue operations. Focus on the utilization of specialized rescue equipment and the four phases of rescue. Specific topics include PPE, types of rescues, rope construction, life safety knots, self-rescue techniques, patient packaging, anchors and anchor systems, belays, raise and lower systems, mechanical advantage, and pick-offs. Upon successful completion and evaluation, students will receive Rescue 3 International Technical Rope Rescue-Technician

(TRR-T) certification. Two lectures and one laboratory per week.

#### **EMER 225 3 W** **Public Health for EMS**

An overview of the American health system and public health education. Emphasis on the role of the pre-hospital medical provider in public health issues. Topics include disease prevention and treatment and the special concerns associated with the health of children and senior citizens; includes child and elder abuse. Prerequisite: EMER 105 or equivalent.

#### **EMER 235 2 F** **Emergency Vehicle Operations**

The safe operation of emergency vehicles during all phases of use, including but not limited to emergency response. One lecture and one laboratory per week. Prerequisite: EMER 105 or equivalent and permission of the instructor.

#### **EMER 255 3 S** **Emergency Scene Management**

Application of the nationally adopted incident command system to emergency scenes. Emphasizes proper use of resources, interfacing with allied agencies, and decision-making under stress. Prerequisite: EMER 105, 155.

#### **EMER 273 2 F, W, S** **Emergency Medical Practicum**

Application of skills from EMER 105 in a pre-hospital and a hospital setting. Prerequisite: Current EMT certification by the LEMSA or NREMT. Qualifies for IP grading.

#### **EMER 280 3 Su** **Technical Rescue and Survival**

Emergency wilderness survival training. Emergency survival techniques necessary to stay alive in the wilderness until rescued, culminating in a 72-hour solo survival exercise. Searching for and rescuing people lost or stranded in the wilderness, including simulated day time and night time rescues for practice in rescuing survivors. Recommended prerequisite: EMER 180. Odd years.

#### **EMER 291 .5 S** **Emergency Services Seminar**

Single topics of current interest in the emergency medical field presented by guest lecturers. Required only for students enrolled in the A.S. program.

### UPPER-DIVISION COURSES:

#### **EMER 305 2 F** **Public Safety System Design**

A global overview of public safety system design and operation. Also includes published research as it pertains to EMS in system management, clinical, and human factors. Prerequisite: EMER 273.

#### **EMER 355 3 W** **Disaster Management**

Application of the incident command system (ICS) to large-scale disasters, whether man-made or natural. Encompasses all phases from preparation through response to after-action review. Emphasis placed on pre-planning for high-risk entities and vulnerable populations. Prerequisite: EMER 255.

#### **EMER 425 4 F** **Crisis Management in Public Safety**

Examination of each phase of critical incident response with an emphasis on stress prevention, intervention, and management strategies. Prerequisite: EMER 305.

# Nursing and Health Sciences

## **EMER 462** **1 W** **Emergency Services** **Health Education Practicum**

The application of health care education within the context of the Emergency Services Provider. Students achieve learning outcomes by integrating knowledge, skills, and attitudes in various health care education settings. One clinical unit (30 clock hours). Corequisite: NURS 460.

## **EMER 480** **3 S** **Issues in Emergency Services**

Exploration of current issues facing the emergency responder with implications affecting current care and practice. Special emphasis on developing an expanded awareness of opportunities to participate as a change agent, demonstrating and advocating for best practices related to various emergency services concepts. Prerequisite: EMER 225.

## **EMER 491** **2 S** **Emergency Management Capstone**

Culminating educational experience for emergency management students. Students will produce and present a final project. Should be taken during the student's final term prior to graduation.

## **Food and Nutrition**

LOWER-DIVISION COURSE:

## **FDNT 235** **3 F, W, S** **Nutrition**

Principles of nutrition, emphasizing nutritional requirements, dietary sources of nutrients, nutrient utilization, effects of nutrition on energy intake and weight control, fitness, disease prevention, and life cycle.

## **Health Sciences**

LOWER-DIVISION COURSES:

## **HLTH 100** **1 F, W, S** **Success Strategies in** **Health Sciences**

Development of the skills needed for academic success in health sciences coursework. Strategies to more efficiently gather, absorb, and retain the large quantity of information required in a variety of courses, including complex science courses. Designed for students in pre-nursing, pre-allied health, pre-dentistry, and pre-medicine programs of study.

## **HLTH 101** **2 F, W** **Introduction to Allied Health** **Professions**

Exploration of the spectrum of careers that support health care delivery in the United States. Includes an introduction to health care delivery systems, communication in the health care environment, chart documentation, evidence-based health care, professional ethics, and medical terminology. Designed for students who are planning for a career in health-related areas, particularly the allied health professions.

## **HLTH 201** **2 W, S** **Issues in Allied Health Professions**

Capstone course that allows the student to reflect and report on current issues in the allied health professions with a focus on their selected allied health career. Includes a project in which the student will demonstrate their knowledge of medical vocabulary, scientific method, clinical ethics, and health care systems. Designed for students in the final year of the A.S. degree in Health Science.

## **Nursing**

SERVICE COURSE:

*(Not applicable to a major or minor in this department)*

## **NURS 110** **2 F, W, S** **Introduction to Nursing**

An overview of the profession of nursing, introducing participants to the philosophy and conceptual framework of the Nursing Programs at Pacific Union College. Addresses the nature of nursing, historical and contemporary influences on nursing, guidelines for nursing practice, health practices and beliefs, and the scope of nursing within the healthcare system. Aims to provide participants with sufficient understanding of the nature and scope of nursing in order to better evaluate its fit with their goals and aptitudes. Required for applicants to the Associate of Science Degree in Nursing.

## **NURS 210** **2 Arr** **LVN to RN Bridge**

Introduction to the mission and philosophy of the PUC Nursing Programs, orientation to the LVN to RN program, and knowledge and skills competency validation. Takes the place of NURS 110 for Advanced Placement LVN to RN students. Prerequisites: Advanced Placement admission to the nursing program. Current California LVN license or equivalent.

LOWER-DIVISION COURSES:

*(Note: In addition to the content described in each nursing course, the concepts of aging, communication, pharmacology, and therapeutic nutrition are integrated throughout the curriculum.)*

**NURS 121** **6 F, W, S**  
**Nursing I**

Introduces students to basic concepts related to the individual (comfort, elimination, infection, culture and diversity, spirituality) and the profession (clinical decision making, safety, teaching and learning, informatics, legal). Students achieve student learning outcomes by integrating knowledge, skills, and attitudes in classroom, laboratory, and clinical settings.

Three theory units (30 clock hours) and three clinical units (90 clock hours).

Prerequisites: Admission to the AS Nursing Program, BIOL 101 or 102, CHEM 101 or PHYS 105, ENGL 101, MATH 096, NURS 110.

Corequisite: NURS 235.

**NURS 124** **6 F, W, S**  
**Nursing II**

Reinforces and expands on concepts previously learned and introduces students to concepts related to the individual (homeostasis, metabolism, mobility, tissue integrity, aging, end-of-life care). Students achieve student learning outcomes by integrating knowledge, skills, and attitudes in classroom, laboratory, and clinical settings.

Three theory units (30 clock hours) and three clinical units (90 clock hours).

Prerequisites: NURS 121, 235, BIOL 101, 102.

Corequisite: NURS 212.

**NURS 125** **6 F, W, S**  
**Nursing III**

Reinforces and expands on concepts previously learned and introduces students to concepts related to the individual (oxygenation, cellular regulation I, perfusion I). Students achieve student learning outcomes by integrating knowledge, skills, and attitudes in classroom, laboratory, and clinical settings.

Three theory units (30 clock hours)

and three clinical units (90 clock hours).

Prerequisites: NURS 124, 212.

Corequisite: NURS 390.

**NURS 212** **3 F, W, S**  
**Pharmacology**

Introduces students to major classifications of pharmacotherapeutic agents administered to individuals receiving nursing care. An overview of the pharmacokinetics, indications, contra-indications, and drug interactions of commonly used medications provides a basis for safe and effective nursing care. Select concepts related to the individual and profession are addressed as they relate to pharmacology and the nursing role. Students achieve student learning outcomes by integrating new and prior knowledge in the classroom setting.

Three theory units (30 clock hours).

Prerequisites: NURS 121, 235.

Corequisite: NURS 124.

**NURS 221** **6 F, W, S**  
**Nursing IV**

Reinforces and expands on concepts previously learned and introduces students to concepts related to the individual (immunity, inflammation, perfusion II). Students focus on managing care for patients with increasingly complex alterations in health and more fully integrating professional and interpersonal/healthcare concepts into nursing practice. Students achieve student learning outcomes by integrating knowledge, skills, and attitudes in classroom, laboratory, and clinical settings.

Three theory units (30 clock hours) and three clinical units (90 clock hours).

Prerequisites: NURS 125, 390.

Corequisite: NURS 254.

**NURS 222** **6 F, W, S**  
**Nursing V**

Reinforces and expands on concepts previously learned and introduces stu-

dents to concepts related to the individual (cellular regulation II, sensory/neuro, critical care). Students focus on managing care for patients with complex alterations in health and fully integrating professional and interpersonal/healthcare concepts into nursing practice. Students achieve student learning outcomes by integrating knowledge, skills, and attitudes in classroom, laboratory, and clinical settings.

Three theory units (30 clock hours) and three clinical units (90 clock hours).

Prerequisites: NURS 221, 254.

Corequisite: NURS 256.

**NURS 235** **4 F, W, S**  
**Health Assessment**

Introduces students to the nursing profession concept of assessment, including taking a full health history, collecting assessment data, and distinguishing normal from abnormal findings. Students achieve student learning outcomes by integrating knowledge, skills, and attitudes in classroom and laboratory settings.

Three theory units (30 clock hours) and one clinical unit (30 clock hours).

Prerequisite: Admission to the AS Nursing Program.

Corequisite: NURS 121.

**NURS 254** **6 F, W, S**  
**Mental Health Nursing**

Reinforces and applies concepts previously learned to the mental health setting and introduces students to concepts related to the individual (addiction behaviors, cognition, development, self, grief and loss, mood and affect, stress and coping, violence) and to professional concepts unique to the setting of mental health nursing. Students achieve student learning outcomes by integrating knowledge, skills, and attitudes in classroom, laboratory, and clinical settings.

Three theory units (30 clock hours) and three clinical units (90 clock hours).

## Nursing and Health Sciences

Prerequisites: NURS 125, 390.  
Corequisite: NURS 221.

### **NURS 255** **5 S** **Pediatric Nursing**

Reinforces and applies concepts previously learned to the pediatric setting and introduces students to individual concepts (development, child health and wellness, family) and professional concepts unique to the setting of pediatric nursing. Students achieve student learning outcomes by integrating knowledge, skills, and attitudes in classroom, laboratory, and clinical settings.

Three theory units (30 clock hours) and two clinical units (60 clock hours).

Prerequisites: Those listed for the appropriate corequisite course.

Corequisite: NURS 125, 221, or 222.

### **NURS 256** **6 F, W, S** **Maternal-Newborn Nursing**

Reinforces and applies concepts previously learned to the perinatal setting and introduces students to concepts related to the individual (reproduction, neonatal transitions, sexuality) and to professional concepts unique to the setting of perinatal nursing. Students achieve student learning outcomes by integrating knowledge, skills, and attitudes in classroom, laboratory, and clinical settings.

Three theory units (30 clock hours) and three clinical units (90 clock hours).

Prerequisites: NURS 221, 254.

Corequisite: NURS 222.

### **NURS 271** **1-2 F, W, S; 1-6 Su** **Field Experience**

A work-study course offered through the department in cooperation with selected clinical agencies. Students apply previously learned theory and clinical skills in assigned patient-care settings under direct supervision of selected RN preceptors. One quarter unit of academic credit requires 75 clinical hours. Repeat-

able to a maximum of 8 credits. Not offered every year.

Prerequisite: NURS 125 and permission of course faculty.

#### UPPER-DIVISION COURSES:

### **NURS 325** **9 F, W, S** **Nursing VI**

Reinforces and expands on concepts previously learned. Students focus on managing care for multiple patients and fully integrating professional concepts into nursing practice. Students achieve student learning outcomes by integrating knowledge, skills, and attitudes in classroom and clinical settings.

Three theory units (30 clock hours) and six clinical units (180 clock hours).

Prerequisites: All 100 and 200 level nursing courses.

Corequisite: NURS 326.

### **NURS 326** **3 F, W, S** **Management and Professional Practice**

Reinforces and expands on concepts previously learned with emphasis on professional concepts essential to patient care management (advocacy, clinical decision making, collaboration, delegation, ethics, management and leadership, legal issues). Students achieve student learning outcomes by integrating knowledge, skills, and attitudes in classroom settings.

Three theory units (30 clock hours).

Prerequisites: All 100 and 200 level nursing courses.

Corequisite: NURS 325.

### **NURS 335** **4 F** **Advanced Health Assessment**

Reinforces and builds upon the concept of assessment focusing on further application and integration of skills of taking a full health history, collecting assessment data, and distinguishing normal

from abnormal findings. Advanced assessment techniques are introduced and skills developed. Students achieve student learning outcomes by integrating knowledge, skills, and attitudes in classroom and laboratory settings.

Three theory units (30 clock hours) and one clinical unit (30 clock hours).

Prerequisite: BSN program admission.

### **NURS 375** **3 W** **Nursing Issues: End of Life Care**

Reinforces individual concepts related to grief and loss, with a focus on grief response theories, and addresses common issues related terminal illness and death. Emphasis is on the professional concepts of advocacy, caring interventions, collaboration, and communication as relevant to end of life care. Select health care system concepts are applied as pertinent to the issues discussed. Students achieve student learning outcomes by integrating knowledge, skills, and attitudes in real and/or virtual classroom settings.

Three theory units (30 clock hours).

Prerequisites: NURS 124, 212

### **NURS 376** **3 W** **Nursing Issues: Transcultural Care**

Explores individual concepts related to culture and diversity and family. Emphasis is on the professional concepts of advocacy, caring interventions, collaboration, and communication as relevant to providing nursing care in an increasingly diverse world. Select health care system concepts are applied as pertinent to the issues discussed. Students achieve student learning outcomes by integrating knowledge, skills, and attitudes in real and/or virtual classroom settings.

Three theory units (30 clock hours).

Prerequisites: NURS 124, 212.

**NURS 384** **3 W**

**Special Topics:  
Health Care Delivery Systems**

Explores professional concepts related to health care systems and health policy and the relationships among these systems and policies and the nation's health. Emphasis is on the professional concepts of accountability and advocacy within the health care system as relevant to select national health care issues. Students achieve student learning outcomes by integrating knowledge, skills, and attitudes in real and/or virtual classroom settings.

Three theory units (30 clock hours).  
Prerequisite: BSN program admission.

**NURS 389** **3-5 Arranged**

**Special Topics: Various**

Exploration of special topics with implications for nurses in various professional roles. Repeatable for credit under different subtitles, such as Informatics, Complementary and Alternative Medicine, and Nursing Role Specialization Practicum (not offered every year). Students achieve student learning outcomes by integrating knowledge, skills, and attitudes in real and/or virtual classroom settings.

Three or four theory units (30-40 clock hours) for each subtitle, with the following exception: Specialization Practicum includes individualized practical experience in various settings for three to five clinical units (80 clock hours/unit).

Prerequisite: NURS 124, 212 or permission of instructor. Current CA RN license required for practicum.

**NURS 390** **4 F, W, S**

**Pathophysiology**

Expands on concepts learned in the biophysical and psychosocial sciences and focuses on concepts related to the individual that are prevalent in the major conditions identified by the CDC and IOM as leading causes of morbidity and

mortality (comfort, infection, homeostasis, metabolism, oxygenation, perfusion, immunity, inflammation, sensory/neuro). Concepts related to the profession (assessment, caring interventions, evidence based practice) are emphasized in relation to the nurses' role in helping individuals move toward optimum health. Students achieve student learning outcomes by integrating new and prior knowledge in the classroom setting.

Four theory units (40 clock hours).  
Prerequisites: NURS 124, 212.

**NURS 419** **4 F, S**

**Nursing Issues: Professional**

Exploration of current nursing issues focusing on professional concepts relevant to the evolving role of nurses in a dynamic health care environment. Special emphasis on developing an expanded awareness of opportunities to participate as a change agent, demonstrating and advocating for best practices related to select health care system concepts (health policy, legal issues, quality improvement). Students achieve student learning outcomes by integrating knowledge, skills, and attitudes in real and/or virtual classroom settings.

Four theory units. (40 clock hours).  
Prerequisite: BSN program admission.

**NURS 420** **4 F**

**Nursing Issues: Social**

Exploration of current nursing issues that involve individual concepts (e.g., culture and diversity, family). Special emphasis on developing a better understanding of the sociocultural issues affecting the health of individuals, families, and communities, and the role of the nurse in facilitating wellness and supporting autonomy within various health care settings. Students achieve student learning outcomes by integrating knowledge, skills, and attitudes in real and/or virtual classroom settings.

Four theory units (40 clock hours).  
Prerequisite: BSN program admission.

**NURS 421** **3-4 Arranged**

**Nursing Issues: Various**

Exploration of current nursing issues with implications for the nursing profession. Repeatable for credit under different subtitles, such as Global. Students achieve student learning outcomes by integrating knowledge, skills, and attitudes in real and/or virtual classroom settings.

Four theory units (40 clock hours).  
Prerequisite: BSN program admission.

**NURS 431** **4 F**

**Community Health Nursing**

Expands on professional nursing concepts applied to the community health care setting. Emphasis on promoting and maintaining health and preventing illness among individuals, families, and communities with a particular focus on issues identified by the CDC, IOM, and other organizations as health care priorities because of their potential to affect the Nation's health. Students achieve student learning outcomes by integrating knowledge, skills, and attitudes in the classroom setting.

Four theory units (40 clock hours).  
Prerequisite: BSN program admission.  
Corequisite: NURS 432.

**NURS 432** **3 F**

**Community Health Nursing  
Practicum**

Provides for the application of community health nursing concepts. Students achieve student learning outcomes by integrating knowledge, skills, and attitudes in community health care settings.

Three clinical units (90 clock hours).  
Prerequisites: BSN program admission; current CA RN license.  
Corequisite: NURS 431.

## **NURS 460** **4 W, S** **Health Care Education**

Expands on the professional concepts of teaching and learning and evidence based practice as a major strategy for health promotion and education. An overview of learning theories and educational strategies provides the basis for developing the role of the health professional as educator. Students achieve student learning outcomes by integrating knowledge, skills, and attitudes in the classroom setting.

Four theory units (40 clock hours).

Prerequisite: Admission to the BSN or BS Emergency Management program.

## **NURS 461** **4 W, S** **Health Care Management**

Expands on professional concepts relevant to the role of nurse as manager. Includes an overview of theories of leadership and management and an emphasis on strategies to implement initiatives that improve safety and quality in various healthcare settings. Students achieve student learning outcomes by integrating knowledge, skills, and attitudes in the classroom setting.

Four theory units (40 clock hours).

Prerequisite: BSN program admission.

## **NURS 462** **3 W, S** **Health Care Management and Education Practicum**

Provides for the application of health care education and management concepts. Students achieve student learning outcomes by integrating knowledge, skills, and attitudes in various health care settings.

Three clinical units (90 clock hours).

Prerequisite: Current CA RN license.

Corequisite: NURS 460 or 461.

## **NURS 485** **4 W, S** **Introduction to Research**

Introduces the concepts and process of research and its implications for the health professions. Reinforces and applies the professional concept of evidence based practice. Emphasis on becoming a consumer of research by developing basic skills for interpreting and using research to inform practice. Students achieve student learning outcomes by integrating knowledge, skills, and attitudes in the classroom setting.

Four theory units (40 clock hours).

Prerequisite: Admission to the BSN or BS Emergency Management program.

Recommended prerequisite: STAT 222.

## **NURS 490** **1 F, W, S** **BSN Capstone I**

Emphasizes reflection, integration, and synthesis from other BSN courses. Primarily a self-directed course. Allows the student to demonstrate mastery of program objectives and serves as an assessment of student learning. To be taken during the first quarter of enrollment in the BSN program. Students who take longer than six quarters (or two years) to complete the BSN are required to repeat this course partway through the program. Repeatable to a maximum of 1 credit. Graded S/F.

1 theory unit (10 clock hours).

Prerequisite: BSN program admission.

## **NURS 491** **1 F, W, S** **BSN Capstone II**

Emphasizes reflection, integration, and synthesis from other BSN courses. Primarily a self-directed course. Allows the student to demonstrate mastery of program objectives and serves as an assessment of student learning. To be taken during the final quarter of enrollment in the BSN program. Graded S/F.

1 theory unit (10 clock hours).

Prerequisite: NURS 490

## **NURS 495** **1-3 Arranged** **Independent Study**

Individual research; for advanced students with adequate background in appropriate nursing studies. Three units maximum.

1-3 theory units (10-30 clock hours).

Prerequisites: Permission of chair or program coordinator.



## Faculty

Steve Waters, chair; Vola Andrianarijaona, Wayne Buckhanan, Raulton Haye, James Robertson

Departmental Office: 238 Chan Shun Hall; 965-7269

## Degrees and Programs

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*Physics* is the search for the fundamental physical laws of nature. In particular, physics is the study of forces and motion of physical entities, seeking to find basic relations that synthesize these phenomena. The goal is to discover ways to control and predict natural occurrences and to understand and explain the physical universe. To achieve this goal involves observation and experimentation from which physical and mathematical models are developed that suggest concepts and theories. Although modern science limits itself to a naturalistic view of reality and to experimental ways of obtaining knowledge, this department takes the view that physical phenomena are consistent with the concept of an intelligent Designer and divine Creator.

Degrees offered include a four-year B.S. in Physics and a four-year B.S. in Biophysics. The department also offers an A.S. in Engineering, which meets the first two years of requirements for standard baccalaureate-level engineering degrees.

## Undergraduate Research Opportunities

Since 2008, PUC students have participated in world-class physics research, most of which has been funded through National Science Foundation grants. As a result, students have traveled to many national laboratories and international conferences; some are currently in the process of publishing the results of their research in peer-reviewed journals.

## Major in Physics, B.S.

A minimum of 106 hours (36 upper-division hours)

### ► Required Core Courses (96 hours):

ASTR 115	Astronomy	5
CHEM 111+112+113	General Chemistry	5+5+5
ENGR 216	Circuit Analysis	4
INFS 115	Intro. to Computer Programming	4
MATH 131+132+133	Calculus I,II,III	4+4+4
MATH 265	Elementary Linear Algebra	4
MATH 267	Vector Calculus	4
MATH 269	Elementary Differential Equations	4
PHYS 211+212+213	Physics with Calculus I,II,III	4+4+4
PHYS 314	Elementary Modern Physics	4
PHYS 341+342	Classical Dynamics I,II	3+3
PHYS 361+362+363	Electromagnetic Theory I,II,III	3+3+3
PHYS 389L	Experimental Physics	1
PHYS 396	Seminar (2 quarters)	.5+.5
PHYS 445	Thermal Physics	4
PHYS 461+462	Quantum Physics I,II	3+3
PHYS 489L	Advanced Experimental Physics	1

### ► Required Core Electives (10 hours)

At least 10 hours of non-service PHYS courses, of which 4 hours must be upper-division: 10

Additional non-service PHYS courses laboratory, project and/or independent research

### Recommended Proficiency:

Modern-language proficiency comparable to a one-year college course in French or German.

This course of study is adequate for the student who is preparing for graduate study in physics.

# Physics & Engineering

## Major in Biophysics, B.S.

A minimum of 106 hours (40 upper-division hours)

### ► Required Core Courses (96 hours)

BIOL 111+112+113	Biological Foundations	5+5+5
BIOL 320	Cellular and Molecular Biology	4
BIOL 348	Systems Physiology	5
CHEM 111+112+113	General Chemistry	5+5+5
CHEM 371+372+373	Organic Chemistry	4+4+4
CHEM 481	Biochemistry I	4
ENGR 216	Circuit Analysis	4
MATH 131+132+133	Calculus I,II,III	4+4+4
PHYS 314	Elementary Modern Physics	4
PHYS 321	Biophysics	3
PHYS 322	Medical Physics	3
PHYS 389L	Experimental Physics	1
PHYS 396	Seminar (2 quarters)	.5+.5
PHYS 489L	Advanced Experimental Physics	1

One of the following options: 12-16

PHYS 211+212+213 Physics with Calculus I,II,III (4+4+4)

or

PHYS 111+112+113 General Physics I,II,III (4+4+4)

PHYS 265 Applied Physics (4)

### ► Required Core Electives (10 hours)

At least 10 hours from the following: 10

(Including at least 2 upper-division hours)

In consultation with the advisor, select additional non-service BIOL and PHYS courses. CHEM 450L, CHEM 451, and CHEM 452 may also apply.

### Recommended Courses:

INFS 115	Intro. to Computer Programming (4)
MICR 134	General Microbiology (5)
PHYS 265	Applied Physics (4)

This program provides the additional emphasis in the physical sciences demanded for graduate study in biophysics, physiology, medicine, medical research, radiation biology and molecular biology. This program is also recommended as a broad major for teaching at the secondary-school level.

## Minor in Physics

A minimum of 27 hours (12 upper-division hours)

Take 27 hours (12 upper-division) chosen from any non-service PHYS, ASTR, and ENGR courses (except ENGR 105).

## Teaching Credential

Students desiring to enter a program of studies leading to a California teaching credential in science with a concentration in physics should take the B.S. degree in Biophysics. Students will need to pass the science (physics concentration) portion of the CSET exam one quarter prior to doing full-time student teaching. Students are invited to discuss the program with their major advisor in the Physics Department.

Those who plan to teach on the secondary level should consult with the credential analyst in the Education Department and should become acquainted with the specific requirements for admission to and successful completion of the Teacher Education Program as outlined in the Education section of this catalog.

## Major in Engineering, A.S.

A minimum of 73.5 hours

### ► Required Core Courses (55.5 hours):

ENGR 105	Introduction to Engineering	3
ENGR 131	Engineering Drawing	3
ENGR 211+212+213	Engineering Mechanics	3+3+3
ENGR 216	Circuit Analysis	4
INFS 115	Computer Programming	4
MATH 131+132+133	Calculus I,II,III	4+4+4
MATH 265	Elementary Linear Algebra	4
MATH 269	Elementary Differential Equations	4
PHYS 211+212+213	Physics with Calculus	4+4+4
PHYS 396	Seminar	0.5

### ► Required Cognate Courses (18 hours):

CHEM 111+112+113 General Chemistry 5+5+5

At least one of the following courses: 3

COMM 105 Intro to Communication (3)

COMM 226 Public Speaking (3)

### Recommended Cognate Courses:

ENGL 102 College English (4)

MATH 267 Vector Calculus (4)

## Engineering- Affiliated B.S. Program

Pacific Union College has an affiliation with Walla Walla University, which offers emphases in Civil, Computer, Mechanical, and Electrical Engineering. Faculty of the WWU School of Engineering visit Pacific Union College regularly for guidance and counseling of students. This A.S. degree is designed to be compatible with their B.S. program, but prepares the student for entry into other engineering schools as well.

**Astronomy**

LOWER-DIVISION COURSE:

**ASTR 115** **5 F, W**  
**Astronomy**

An introduction for the general student to the basic elements of astronomy. Topics include models of the solar system, stars and their processes, clusters, galaxies, cosmology, and relevant physics topics such as light, spectroscopy, nuclear reactions, and relativity. Emphasizes the development of scientific ideas and models for the structure and contents of the universe and the effects of those ideas on western civilization. Laboratory activities emphasize personal observations of various astronomical objects, as weather permits. Four lectures and one evening laboratory per week. Prerequisite: MATH 096 or equivalent.

**Engineering**

LOWER-DIVISION COURSES:

**ENGR 105** **3 F**  
**Introduction to Engineering**

A survey of engineering as a profession: the main divisions; the work, functions and personal characteristics of the engineer; application of the sciences in engineering; design tools used by engineers; computer methods, basic skills for engineering problem-solving. Two lectures and one laboratory per week.

**ENGR 131** **3 W**  
**Engineering Drawing**

Principles of and practice in engineering drawing. Applications to technical problems of CAD drafting techniques, orthographic, and pictorial views. Two lectures and one laboratory per week.

**ENGR 211+212+213** **3+3+3 F+W+S**  
**Engineering Mechanics I,II,III**

Statics and dynamics. Detailed analysis of equilibrium, kinetics and kinematics of particles and rigid bodies. Examples and problems relate to real engineering applications. Prerequisites: MATH 131+132. Corequisite: PHYS 211.

**ENGR 216** **4 S**  
**Circuit Analysis**

Introductory circuit analysis for engineering and physics students. Circuit variables and parameters; Kirchhoff's laws and network solution; equivalent circuits, network theorems; natural and complete response; sinusoidal steady-state, phasors and impedance; frequency characteristics; power and power factor. Three lectures and one laboratory per week. Prerequisite: MATH 131+132. Corequisite: MATH 133

**Physics**

SERVICE COURSES:

*(Not applicable to a major or minor in this department)*

**PHYS 105** **5 S**  
**Introduction to Physics**

Emphasizes the ideas and concepts of conventional topics in physics with illustrations from everyday living. Assumes no previous physics course. (Students who need this course to meet a curricular requirement may also need to register for PHYS 106L.) Prerequisite: MATH 096 or equivalent.

**PHYS 106L** **1 S**  
**Introduction to Physics Laboratory**

A laboratory emphasizing physical measurements for those curricula requiring an introductory physics course with laboratory. One laboratory per week. Prerequisite or corequisite: PHYS 105.

LOWER-DIVISION COURSES:

**PHYS 111+112+113** **4+4+4 F+W+S**  
**General Physics I,II,III**

A three-quarter standard sequence introducing the fundamental natural phenomena of the physical universe, with an emphasis on fundamental principles and methods of physics. Suitable for pre-professional students and also acceptable as part of the general-education requirement in basic science. Three lectures and one laboratory per week. Must be taken in sequence. Prerequisite: Knowledge of algebra and trigonometry at the level provided by MATH 130 or by MATH 106 and 113.

PHYS 111: Newtonian mechanics, fluids, waves and vibrations, and sound.

PHYS 112: Kinetic theory, thermodynamics, electricity, and magnetism.

PHYS 113: Optics, atomic and nuclear physics, elementary particle physics, and special relativity.

**PHYS 211+212+213** **4+4+4 F+W+S**  
**Physics with Calculus I,II,III**

A three-quarter calculus-based sequence introducing the fundamental natural phenomena of the physical universe, with an emphasis on fundamental principles and methods of physics. Intended primarily for students majoring in the physical sciences, engineering or mathematics, but also appropriate for other students with the necessary background in mathematics. Three lectures and one laboratory per week. Must be taken in sequence. Prerequisite: MATH 131-132. Recommended prerequisite: MATH 133.

PHYS 211: Newtonian mechanics, fluids, waves and vibrations, and sound.

PHYS 212: Kinetic theory, thermodynamics, electricity, and magnetism.

PHYS 213: Optics, atomic and nuclear physics, elementary particle physics, and special relativity.

## Physics & Engineering

### **PHYS 265** **4 S**

#### **Applied Physics**

Applications of fundamental physical principles such as thermodynamics, solid state physics, and modern optics to selected technological and/or practical uses. Includes atomic transport processes in condensed phases, solid state physics in semiconductor, and modern optics. Three lectures and one laboratory per week. Prerequisite: PHYS 113 or 213.

#### UPPER-DIVISION COURSES:

### **PHYS 314** **4 F**

#### **Elementary Modern Physics**

A continuation of PHYS 211+212+213. Offers an overview of the fundamentals of relativity and quantum physics and selected topics such as atomic and molecular physics, statistical mechanics, solid state physics, nuclear physics, and elementary particles. Three lectures and one laboratory per week. Prerequisites: MATH 269, PHYS 213 or PHYS 265.

### **PHYS 321** **3 W**

#### **Biophysics**

For the upper-division physics student with adequate preparation in biology. Covers a variety of topics in which physical analysis and techniques are applied to study molecular and cellular phenomena. Prerequisites: BIOL 111+112+113, CHEM 113, PHYS 314. Even years.

### **PHYS 322** **3 S**

#### **Medical Physics**

A continuation of PHYS 321. Includes the physical principles of radiology, diagnostic imaging, and nuclear medicine. Prerequisite PHYS 321. Even years.

### **PHYS 341+342** **3+3 F+W**

#### **Classical Dynamics I,II**

Classical mechanics including Newtonian mechanics and Lagrangian dynamics, which are used to solve problems

associated with central-force motion, rigid object dynamics, oscillations, and wave motion. The theoretical bases of problems are emphasized, together with the development of different problem-solving techniques. Prerequisites: MATH 265, 267, 269, PHYS 213. Even years.

### **PHYS 361+362+363** **3+3+3 F+W+S** **Electromagnetic Theory I,II,III**

Topics include electrostatics, magnetostatics, electromagnetism, electromagnetic radiation, and relativistic electrodynamics. The concepts of field and potentials are emphasized. Prerequisites: MATH 265, 267, 269, PHYS 213. Odd years.

### **PHYS 389L** **1 F, W, S**

#### **Experimental Physics**

Provides experience with real science apparatus such as lasers, high field magnets, detectors, radioactive sources, and sophisticated electronics. Activities include experiments in mechanics, electromagnetism, optics, heat, and atomic and nuclear physics. One laboratory per week. Repeatable to a maximum of 5 credits. Prerequisites: ENGR 216. Corequisite: PHYS 314.

### **PHYS 390** **3 F**

#### **History and Philosophy of Science**

(See also PHIL 390)

The historical roots of modern science, the nature of scientific knowledge, its development and methodology, the impact of science on culture (and vice versa), and the influence of philosophical and theological concepts on science. Prerequisites: PHYS 105 or CHEM 101; PHIL 101 or demonstrated preparedness for course. Even years.

### **PHYS 396** **.5 S**

#### **Physics Seminar**

Topics of current interest in the physical sciences are presented and discussed. Repeatable to a maximum of 1 credit. Graded S/F.

### **PHYS 445** **4 S**

#### **Thermal Physics**

A statistical description of a system of particles. Different ensembles and their associated partition functions are emphasized and applied to various thermal systems. Prerequisites: MATH 265, 267, 269; PHYS 314. Even years.

### **PHYS 461+462** **3+3 W+S**

#### **Quantum Physics I,II**

Quantum mechanics and atomic physics. Topics include wave packets, Schrödinger's equation and its solutions, operator methods, angular momentum, matrix representation, spin, perturbation theory, the hydrogen atom, and radiation by atoms. Prerequisites: MATH 265, 267, 269; PHYS 314. Odd years.

### **PHYS 485** **3 F**

#### **Issues in Science and Religion**

(See also PHIL 485)

The relationship and interaction between science and religion: epistemology, the methods, languages, scope and limitations of science and religion, problems of ethics and science. Prerequisites: PHYS 105, CHEM 101, or equivalent; PHIL 101 or demonstrated preparedness for course. Odd years.

### **PHYS 486** **1-4 Arranged**

#### **Special Topics in Physics**

Study of a selected topic not covered elsewhere in the curriculum. Course content varies from year to year, with topics such as Solid State Physics, High Energy Physics, and Applied Optics. Repeatable for credit.

**PHYS 489L** **1 S****Advanced Experimental Physics**

Culminating educational experience for physics major students as the final experimental physics course required to complete the physics curriculum. In addition to continuing the experience and activities provided in PHYS 389L, students will communicate and/or publish their results. Prerequisite: PHYS 389L. Qualifies for IP grading.

**PHYS 495** **1-3 Arranged  
Independent Study**

Properly qualified students majoring in physics may, with the approval of the department chair, undertake an independent study of a topic suited to their background and experience. Repeatable to a maximum of 3 credits.

**PHYS 499** **1-3 F, W, S  
Independent Research**

Properly qualified students majoring in physics may, with the approval of the department chair, undertake a directed research problem suited to their background and experience. Repeatable to a maximum of 9 credits.

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## Faculty

Janae Hellie, Alisa Jacobo, Allison Musvosvi, Esperanza Sanchez, Gregory Schneider

Departmental Office: 109 Davidian Hall; 965-6537

## Degrees and Programs

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The department offers two majors: Psychology and Social Work. The goals of the department are as follows:

- To encourage purposeful living in the service of God and humanity by helping students understand and apply principles of human behavior in personal and professional relationships.
- To provide a general background for a wide range of careers that involve working with people, such as law, medicine, nursing, education, business, and the ministry.
- To prepare students at the baccalaureate level in the generalist framework for employment in the profession of social work.
- To prepare students for successful graduate study in psychology and social work.

While the department has Student Learning Outcomes (SLO's) specific to each major, the overall Departmental Student Learning Outcomes (D-SLO's) are that graduates can:

1. Demonstrate respect for the core Department values of free inquiry, diversity, responsible citizenship, and service to God and Humanity.
2. Demonstrate recognition of the moral tensions, and appreciation of the common values, between the professions and the Christian faith.

## Major in Psychology, B.S.

A minimum of 80.2 hours (45.2 upper-division hours)

### ► Required Core Courses (58.2 hours):

PSYC 121	General Psychology	4
PSYC 122	Psychology Seminar*	3
PSYC 130	Introduction to the Psychology Major*	1
PSYC 235	Child Development	3
PSYC 235L	Child Development Laboratory	1
PSYC 257	Psychological Testing	4
PSYC 264	Social Psychology	4
PSYC 322	Research Design	4
PSYC 323	Introduction to Experimental Psychology	4
PSYC 344	Psychology of Personality	4
PSYC 394	Colloquium**	1.2
PSYC 436	Physiological Psychology	4
PSYC 444	History and Systems of Psychology	4
PSYC 445	Learning and Memory	4
PSYC 490	Issues in Religion, Ethics, and the Human Sciences	4

PSYC 499	Systematic Issues in Psychology	3
<i>At least one of the following courses:</i>		3

PSYC 390	Gender Issues (3)	
SOCI 355	“Racial” and Ethnic Relations (3)	
<i>At least one of the following courses:</i>		3
PSYC 435	Psychology of Religion (3)	
SOCI 435	Sacred and Profane in Society (3)	

### ► Required Core Electives (11 hours):

<i>At least 11 additional hours from the following:***</i>		11
PSYC 241	Topics in Psychology (3)	
PSYC 260	Death and Dying (4)	

\* Must be taken before the junior year.

\*\* Must be taken each quarter of the sophomore and junior years.

\*\*\* Transfer courses (generally limited to upper-division hours for current students) may be approved by the department.

## Psychology & Social Work

PSYC 335	Adolescent Development (3)	
PSYC 358	Abnormal Psychology (4)	
PSYC 360	Psychopharmacology (3)	
PSYC 368	Principles of Counseling (4)	
PSYC 390	Gender Issues (3)	
PSYC 398	Graduate School Application Seminar (1)	
PSYC 399	Research Seminar (1-2)	
PSYC 435	Psychology of Religion (3)	
PSYC 481	Field Work in Psychology Seminar (1)	
PSYC 491	Field Work in Psychology (1-2)	

### ► Required Cognate Courses (11 hours):

ANTH 124	Cultural Anthropology	4
SOCI 121	Introduction to Sociology	4
STAT 322	Statistical Methods	3

### Recommended Cognate Course:

Any college-level biology course with lab  
*This recommendation is usually met by BIOL 102 (Human Physiology) or by any one of BIOL 111-112-113 (Biological Foundations).*

## Major in Psychology, B.A.

*A minimum of 69.2 hours (42.2 upper-division hours)*

Core and cognate requirements are the same as those for the B.S. degree except the 11 hours of core electives are not required. B.A. students are required to complete the foreign language component of the general education package.

## Minor in Psychology

*A minimum of 30 hours (12 upper-division hours)*

### ► Required Courses (7 hours):

PSYC 121	General Psychology	4
PSYC 122	Psychology Seminar	3

### ► Required Electives (23 hours):

At least 23 hours from additional non-service PSYC courses, including at least 12 upper-division hours. 23

## Bachelor of Social Work, B.S.W.

*A minimum of 107.2 hours (61.2 upper-division hours)*

The baccalaureate degree program in social work is fully accredited by the Council on Social Work Education. It is designed to prepare students at the baccalaureate level to enter the profession as generalist social work practitioners.

The SLO's of the social work program support its mission and goals to train students as competent generalist social workers, ready for beginning professional practice in accord with the standards of the Council on Social Work Education and the pursuit of graduate social work degrees. These SLO's provide the standard by which the quality of education and professional competencies of students may be assessed.

Graduates of the social work program can:

1. Identify as a professional social worker and conduct oneself accordingly.
2. Apply social work ethical principles to guide professional practice.
3. Apply critical thinking to inform and communicate professional judgments.
4. Engage diversity and difference in practice.
5. Advance human rights and social and economic justice.
6. Engage in research-informed practice and practice-informed research.
7. Apply knowledge of human behavior and the social environment.
8. Engage in policy practice to advance social and economic well-being and to deliver effective social work services.
9. Respond to contexts that shape practice.
10. Engage, assess, intervene, and evaluate with individuals, families, groups, organizations, and communities.

Students interested in social work as a profession should make an advisement appointment with the Social Work Program Director. The *Social Work Student Handbook* contains detailed information on the admissions process.

1. Complete the program admissions packet, including admissions application and reference letters (one letter must be from a person who supervised the applicant a minimum of 30 hours in a social work or social service position).
2. Complete the personal admissions interview.

The Program Admissions Committee applies the following criteria in evaluating applications:

- Successful completion of required prerequisite courses
- Satisfactory course performance
- Effective oral-communication skills

- Effective written-communication skills
- Attitudes, behaviors, mental health, and ethics appropriate to the social work profession
- Minimum cumulative GPA of 2.25
- Minimum cumulative GPA of 2.5 within the Social Work core and cognate courses

The Admissions Committee notifies each candidate of the action taken on his or her application.

To remain in the program, students must continue to meet the same academic, ethical, mental health, and behavioral standards.

Any Social Work core or cognate course may be repeated for failing performance only once. A course is considered to be a repeat for failing performance if the student has attempted the course previously and the original attempt resulted in a grade below C- or a withdrawal due to failing performance.

The *Social Work Student Handbook* contains further information on criteria for admission to the program, continuance in it, and the appeal process.

► **Required Core Courses (71.2 hours):**

PSYC 322	Research Design	4
PSYC 358	Abnormal Psychology	4
SOCI 355	“Racial” and Ethnic Relations	3
SOWK 121	Introduction to Social Work	3
SOWK 232	American Social Problems	4
SOWK 275	History and Philosophy of Social Welfare Institutions	3
SOWK 340	Writing for Program Evaluation I	1
SOWK 341	Program Evaluation	2
SOWK 368	Principles of Counseling	4
SOWK 376	Human Behavior in the Social Environment I	3
SOWK 377	Human Behavior in the Social Environment II	3
SOWK 382	Practice Theory I	4
SOWK 383	Practice Theory II	4
SOWK 394	Colloquium*	1.2
SOWK 465	Practice Theory III	4
SOWK 468	Social Welfare Policy and Contemporary Social Issues	3
SOWK 476	Field Experience I	5
SOWK 477	Field Experience II	4
SOWK 478	Field Experience III	5
SOWK 486	Integrative Field Seminar I	1

SOWK 487	Integrative Field Seminar II	1
SOWK 488	Integrative Field Seminar III	1
SOWK 490	Issues in Religion, Ethics, and the Human Sciences	4

► **Required Core Electives (8 hours):**

Electives must be selected in consultation with the Social Work advisor.

► **Required Cognate Courses (28 hours):**

BIOL 223	Medical Terminology	2
COMM 105	Intro to Communication	3
ECON 261	Macroeconomics	4
ENGL 101	College English	4**
ENGL 102	College English	4**
PLSC 124	Introduction to American Government	3
PSYC 121	General Psychology	4
STAT 222	Introduction to Statistics	4

► **General Education Requirements:**

The general education requirements for the B.S.W. are the same as for the B.S. degree except that the health requirement (VI-A) is fulfilled by the major.

**Recommended Courses:**

Students who intend to seek employment in California are strongly urged to include Spanish as a second language. See especially SPAN 105 Spanish for Health Care Professionals and SPAN 111+112+113 Beginning Spanish.

\* Must be taken each quarter of the sophomore and junior years.

\*\* For students in the honors program, these requirements may be met by HNRS 111+121.

## Anthropology

LOWER-DIVISION COURSE:

### **ANTH 124** **4 F** **Cultural Anthropology**

The nature and concept of culture, the learning and growth of culture, and the development of cultural patterns. Survey of economics, kinship, gender, political structures, languages, and religion in technologically simple and complex societies.

## Psychology

SERVICE COURSE:

*(Not applicable to a major or minor in this department)*

### **PSYC 234** **4 F, S** **Human Development**

Theory and research in developmental psychology, including an overview of the cognitive, emotional, physical, social, and moral development of the individual from conception to senescence. Prerequisite: PSYC 121.

LOWER-DIVISION COURSES:

### **PSYC 121** **4 F, W, S** **General Psychology**

Survey of the field of psychology: social processes, biological psychology, learning, development, motivation, memory, health, stress, personality, psychopathology, and therapies.

### **PSYC 122** **3 W** **Psychology Seminar**

An introductory seminar emphasizing the exploration and discussion of psychological issues. Includes critical analysis of psychological topics and religious, ethical, and social implications of psychological theory and data. Prerequisite: PSYC 121.

### **PSYC 126** **2 F, W, S** **Assertive Behavior** (See SOWK 126.)

### **PSYC 130** **1 W** **Introduction to the Psychology Major**

Introduction to the basic skills needed for success in major courses and an overview of career and graduate school options. Includes PsychINFO, APA style, critical evaluation of research, research ethics, internet tools, and academic and professional options in psychology. Should be completed during the freshman or sophomore year. Prerequisite: PSYC 121.

### **PSYC 227** **3 W** **Conflict Resolution and Relationship Skills** (See SOWK 227.)

### **PSYC 235** **3 F** **Child Development** (See also ECED 235.)

Theory and research in developmental psychology; their application in understanding and relating to children. Examines the cognitive, socioemotional, and physical development from infancy through adolescence. Emphasis on interaction between innate development and environmental influences. Covers infancy through adolescence. Note: psychology majors must also take PSYC 235L. Prerequisite: PSYC 121.

### **PSYC 235L** **1 F** **Child Development Laboratory**

Review and actual practice of research methods in the study of children from infancy through late adolescence. Prerequisite: PSYC 121.

### **PSYC 241** **3 S** **Topics in Psychology**

Study of a selected topic not covered elsewhere in the curriculum. Course content varies from year to year, reflecting current interest. Repeatable for credit. Further information is available at the departmental office.

### **PSYC 257** **4 W** **Psychological Testing**

The purpose, contribution, and problems of psychological testing. Emphasis on understanding the psychometric and clinical characteristics of standardized tests. The major areas of testing, including ability, achievement, intelligence, interest, and personality. Three lectures and one laboratory per week. Prerequisites: PSYC 121, STAT 222.

### **PSYC 260** **4 W,S** **Death and Dying** (See SOWK 260.)

### **PSYC 264** **4 W** **Social Psychology**

The psychological principles underlying group behavior and the effects of the group on individual behavior: attitude change, conformity, aggression, prejudice, and theories of interpersonal attraction, altruism and attribution. Three lectures and one laboratory per week. Prerequisite: PSYC 121.

UPPER-DIVISION COURSES:

### **PSYC 322** **4 F** **Research Design**

Methods of inquiry in the behavioral sciences from conception of idea to analysis of data. Includes the experiment, survey research, observational methods, and program evaluation. Three lectures and one laboratory per week. The laboratory introduces the student to the Statistical

Package for the Social Sciences (SPSS). Prerequisites: PSYC 121, STAT 222.

**PSYC 323** **4 W**  
**Introduction to Experimental Psychology**

Research design and procedures in psychological research. Requires a major research project laboratory. Two lectures, a 30 minute individual appointment with the instructor, and 4.5 hours of laboratory per week. Prerequisites: PSYC 121, 322.

**PSYC 335** **3 W**  
**Adolescent Development**

Theory and research in adolescent development. Focuses on the unique tasks and conflicts of adolescence, the role and function of adolescence in modern society, and the social and psychological problems and opportunities associated with adolescence. Prerequisite: PSYC 121.

**PSYC 344** **4 F**  
**Psychology of Personality**

Survey and analysis of major theoretical models of personality, personality classification systems, and empirical research. Prerequisite: PSYC 121.

**PSYC 358** **4 S**  
**Abnormal Psychology**

Overview of psychological disorders: description of symptoms, course of the disorder, etiology, and treatment. Includes survey of current biological and behavioral research in psychopathology and behavioral disorders. Prerequisite: PSYC 121. Recommended prerequisite: PSYC 344.

**PSYC 360** **3 F**  
**Psychopharmacology**

The drugs that affect behavior through action on the nervous system. Major psychoactive drug groups include anti-

anxiety, antidepressant, antipsychotic, stimulant, and drugs of abuse. Related issues of drug distribution, administration, dosage, absorption and fate. Prerequisite: PSYC 121.

**PSYC 368** **4 W**  
**Principles of Counseling**

(See also SOWK 368.)  
 A prepractice introduction to the work, ethical issues, and theories of counseling. Emphasis on establishing a beginning personal philosophy of counseling. Prerequisite: PSYC 121. Recommended prerequisite: PSYC 344 or 358.

**PSYC 390** **3 S**  
**Gender Issues**

(See also SOWK 390.)  
 Historical, biological, sociological, cultural, and psychological impacts on gender issues, both male and female. Significant emphasis on the effects on the individual, family, workplace, community, and society. Breaking stereotypes and barriers.

**PSYC 394** **.2 F, W, S**  
**Colloquium**

(See also SOWK 394.)  
 Topics of current interest in social work and psychology. Includes guest speakers, progress reports on student and faculty research, and presentations on current professional issues. Required for all department majors during each quarter of the sophomore and junior years. Prerequisite: PSYC 121. Repeatable to a maximum of 6 times (1.2 credits).

**PSYC 398** **1 S**  
**Graduate School Application Seminar**

Introduction to the basic skills needed for successful application to graduate programs in psychology. Topics include letters of recommendation, personal statements, interviews, the GRE exams,

and best practices in the application process. Intended for junior psychology majors.

**PSYC 399** **1-2 F, W**  
**Research Seminar**

For students completing a research project with supervision by a research mentor. Emphasis on revision and submission of an APA-style manuscript and/or poster for professional presentation. Prerequisite: Approval of the instructor, PSYC 121. With approval of the instructor, repeatable to a maximum of 4 credits. Qualifies for IP grading.

**PSYC 435** **3 F**  
**Psychology of Religion**

Religious experience, behavior, and development from the perspective of dynamic and research psychologies. Two hours may be applied toward the general-education requirement in religion. Prerequisite: PSYC 121. Odd years.

**PSYC 436** **4 F**  
**Physiological Psychology**

The physiological explanations of behavior; brain-behavior relationships; sensory, neural and motor structures significant to human experience. Prerequisite: PSYC 121.

**PSYC 444** **4 W**  
**History and Systems of Psychology**

Greek and medieval background of psychology, the early modern period, the emergence of contemporary experimental work, and special fields of psychology; influential psychological systems. Prerequisite: PSYC 121.

# Psychology & Social Work

## **PSYC 445** **4 S** **Learning and Memory**

Comparison and integration of basic research in animal learning and human memory and cognition. Emphasis on the relative roles of mechanistic and mentalistic variables and on the plausibility of universal laws of learning. Three lectures and one laboratory per week. Prerequisite: PSYC 121.

## **PSYC 481** **1 W** **Field Work in Psychology Seminar**

A weekly seminar focusing on ethical and professional issues in psychology; case presentations. Prerequisites: Completion of a Field Work Application by the last Friday before Thanksgiving Recess; completion of 60 hours of college credit; a grade of C- or higher in PSYC 122, 130, and one of the following: PSYC 344, 358, or 368 (concurrent registration is acceptable); and permission of the instructor. Corequisite: PSYC 491.

## **PSYC 490** **4 S** **Issues in Religion, Ethics, and the Human Sciences**

(See also SOWK 490.)

Exploration of tensions in belief, conduct, and identity that arise from being both a Christian and a person changed through contact with the human sciences. Special attention to issues for Christians entering professions in psychology and social work. Prerequisite: PSYC 121. Open to senior majors in the Psychology & Social Work Department and to others by permission of the instructor.

## **PSYC 491** **1-2 F, W, S** **Field Work in Psychology**

Placement in a local human service agency (for 3-6 clock hours per week). Prerequisite: Completion of PSYC 481 (concurrent registration is acceptable), and permission of the instructor. Repeatable to a maximum of 3 credits.

## **PSYC 495** **1-3 Arranged** **Independent Study**

Enrollment limited to department majors wishing to pursue independent investigations in psychology under the direction of the Psychology faculty. Repeatable to a maximum of 3 credits.

## **PSYC 499** **3 F** **Systematic Issues in Psychology**

A review of the psychology major, including an in-depth analysis of the experimental foundations of general psychology. Prerequisite: PSYC 121. Enrollment limited to senior psychology majors.

## **Sociology**

### LOWER-DIVISION COURSES:

## **SOCI 121** **4 S** **Introduction to Sociology**

The relationship of sociology to the total behavioral science field; orientation to the structure and functioning of society; development and social nature of personality; background and development of culture; basic social institutions.

## **SOCI 214** **4 W** **The Family** (See SOWK 214.)

## **SOCI 232** **4 F** **American Social Problems** (See SOWK 232.)

### UPPER-DIVISION COURSES:

## **SOCI 355** **3 S** **"Racial" and Ethnic Relations**

History of ethnic groups in the United States. Ethnic groups studied include African Americans, Jewish Americans, American Indians, Asian Americans, Latin Americans, and European Americans. The nature of prejudice and dis-

crimination, especially as evidenced in contemporary American racial problems; possible solutions of group conflict.

## **SOCI 435** **3 F** **The Sacred and Profane in Society**

Examination of the social-religious nature of humankind; description and use of concepts in the sociological study of religion; consideration of mainstream and marginal religious organizations and movements. Two hours may apply toward the general-education requirement in religion. Even years.

## **SOCI 495** **1-3 Arranged** **Independent Study**

Enrollment limited to advanced students wishing to do independent research under direction of the department faculty.

## **Social Work**

### LOWER-DIVISION COURSES:

## **SOWK 121** **3 F, S** **Introduction to Social Work**

Introduction to the profession of social work and social interventions. Fields of practice, practice methods, and the knowledge, values, ethics, and skills of the profession. Focus on social work and populations-at-risk and issues of human diversity. Open to all students interested in the profession of social work and social interventions.

## **SOWK 126** **2 F, W, S** **Assertive Behavior** (See also PSYC 126.)

Emphasis on developing basic skills and confidence in clarifying one's desires or needs and communicating them to others in socially acceptable and effective ways. Learning through role playing, discussion, and setting personal goals.

**SOWK 214 4 W**

**The Family**

(See also SOCI 214.)

Exploration of the meaning and functions of family systems. The adjustments of premarriage, marriage, and family living viewed as a system, with focus on skills designed to establish and maintain the family institution.

**SOWK 227 3 W**

**Conflict Resolution and Relationship Skills**

(See also PSYC 227.)

Skill development in self-understanding and in relating effectively with others. Provides tools for effective communication and conflict resolution. Applicable to personal, work, and social relationships.

**SOWK 232 4 F**

**American Social Problems**

(See also SOCI 232.)

An introduction to major social problems in current American society. Causality, current dynamics, and projections on the future climate of social change related to crime, violence, population, environment, family issues, discrimination, social and economic justice, and health care.

**SOWK 260 4 W, S**

**Death and Dying**

(See also PSYC 260.)

Focuses on bio-psycho-social, cultural and spiritual factors related to death and dying. Includes a review of the physical aspects, agencies and institutions involved in the death process; legal issues; psychological theories of grief and mourning; and cultural, spiritual, and religious death rituals and beliefs.

The winter section focuses on issues related to first responder crisis professionals, including critical incident stress management. Prerequisite: EMER 104.

The spring section focuses on issues related to the helping professionals, such as teachers, pastors, mental health workers, and allied health workers.

**SOWK 275 3 W**

**History and Philosophy of Social Welfare Institutions**

Exploration of changing value systems and philosophies and the attempts of society and social welfare institutions to meet human needs. Examination from both historical and current perspectives. Prerequisites: SOWK 121, PLSC 124 and HIST 101+102 or HIST 134+135.

UPPER-DIVISION COURSES:

**SOWK 340 1 F**

**Writing for Program Evaluation I**

Introduction to program evaluation with an emphasis on the writing process. Prerequisites: ENGL 101+102. Corequisite: PSYC 322. Enrollment limited to junior B.S.W. majors, or those who have permission of the instructor. Repeatable for credit at the approval of the department.

**SOWK 341 2 W**

**Program Evaluation**

Emphasis on the process of carrying out a program evaluation project and the dissemination of findings. Prerequisites: COMM 105, PSYC 322, and SOWK 340.

**SOWK 342 1 S**

**Writing for Program Evaluation II**

Extensive re-writing of a student's program evaluation project in preparation for presentation to program staff and the broader practice community. Prerequisite: SOWK 341.

**SOWK 368 4 W**

**Principles of Counseling**

(See PSYC 368.)

**SOWK 376 3 F**

**Human Behavior in the Social Environment I**

The bio-psycho-social factors that impact or influence behavior from infancy through young adulthood from the person-in-environment perspective. Focus on the assessment process in generalist practice, with special attention to cultural awareness and factors of human diversity. Emphasis on research relevant to social work practice. Prerequisites: SOWK 275, BIOL 223, PSYC 121.

**SOWK 377 3 W**

**Human Behavior in the Social Environment II**

The bio-psycho-social factors that influence behaviors of individuals from young adulthood through the elder years from the person-in-environment perspective. Focus on the assessment process in generalist practice, with special attention to cultural awareness and factors of human diversity. Emphasis on research relevant to social work practice. Prerequisite: SOWK 376.

**SOWK 382 4 S**

**Practice Theory I**

Emphasis on the generalist model of practice with focus on work with individuals. The micro level of intervention as it relates to client engagement, problem assessment, data collection, goals, strategies, action, and evaluation to help the client or client system resolve problems. Three lectures and one laboratory per week. Prerequisites: SOWK 368, 376, 377. Enrollment limited to B.S.W. majors who have obtained or are eligible for admission to the Social Work Program.

## **SOWK 383** **4 F**

### **Practice Theory II**

Emphasis on the generalist model of practice with small groups and family systems. The mezzo level of intervention as it relates to group goals, structure, dynamics and processes. Focus on development of basic mezzo skills and techniques in working with groups and families of various composition and age. Three lectures and one laboratory per week. Prerequisites: SOWK 368, 376, 377, 382. Enrollment limited to B.S.W. majors.

## **SOWK 390** **3 S**

### **Gender Issues**

(See PSYC 390.)

## **SOWK 394** **.2 F, W, S**

### **Colloquium**

(See PSYC 394.)

## **SOWK 420** **3 Su**

### **Topics in Global Social Work**

Encourages students to think critically about social problems, social policy, and social work practice in a comparative cross-national perspective. Exposes students to the complexities of global social work through in the field research and/or service-learning abroad. Prerequisite: RELP 319.

## **SOWK 465** **4 W**

### **Practice Theory III**

Basic knowledge at the macro level necessary for functioning effectively in generalist social work roles. Focus on problem-solving methods for desired change within generalist practice; organizations and communities as they promote, restore, maintain, and enhance social functioning. Emphasis on community organization with diverse populations and on research techniques. Prerequisite: SOWK 382, 383. Enrollment limited to B.S.W. majors.

## **SOWK 468** **3 S**

### **Social Welfare Policy and Contemporary Social Issues**

Focuses on policy analysis, critical thinking and current political issues at the state and federal levels as they impact diverse client populations. Explores the active role of the generalist social worker in this process. Prerequisite: SOWK 275, ECON 261.

## **SOWK 476** **5 F**

### **Field Experience I**

A placement of 150 clock hours in an approved social service agency with emphasis on integration and active use of content from all areas of the curriculum. Prerequisite: SOWK 382. Corequisites: SOWK 383 and 486. Enrollment limited to senior B.S.W. majors with Full Acceptance into the Social Work Program or Provisional Acceptance (Prerequisite Coursework) and an approved plan of action. Qualifies for IP grading.

## **SOWK 477** **4 W**

### **Field Experience II**

A placement of 120 clock hours in an approved social service agency with emphasis on integration and active use of content from all areas of the curriculum. Prerequisite: SOWK 476. Corequisites: SOWK 465 and 487. Enrollment limited to senior B.S.W. majors with Full Acceptance into the Social Work Program or Provisional Acceptance (Prerequisite Coursework) and an approved plan of action. Qualifies for IP grading.

## **SOWK 478** **5 S**

### **Field Experience III**

A placement of 150 clock hours in an approved social service agency with emphasis on integration and active use of content from all areas of the curriculum. Prerequisite: SOWK 477. Corequisite: SOWK 488. Enrollment limited to senior B.S.W. majors with Full Acceptance into

the Social Work Program or Provisional Acceptance (Prerequisite Coursework) and an approved plan of action. Qualifies for IP grading.

## **SOWK 486** **1 F**

### **Integrative Field Seminar I**

A seminar to facilitate the transition from theory to practice. Corequisite: SOWK 476. Qualifies for IP grading.

## **SOWK 487** **1 W**

### **Integrative Field Seminar II**

A seminar to facilitate a continued integration of theory and practice issues. Prerequisite: SOWK 486. Corequisite: SOWK 477. Qualifies for IP grading.

## **SOWK 488** **1 S**

### **Integrative Field Seminar III**

A seminar designed to provide opportunity for practicum students to exchange learning from their field settings. Emphasis on continued integration of theory and practice issues, with particular emphasis on team consultation skills. Prerequisite: SOWK 487. Corequisite: SOWK 478. Qualifies for IP grading.

## **SOWK 490** **4 S**

### **Issues in Religion, Ethics, and the Human Sciences**

(See PSYC 490.)

## **SOWK 495** **1-3 Arranged**

### **Independent Study**

Enrollment limited to advanced students wishing to do independent research on a specific topic of current social work interest and its implication for integrative practice.



## Faculty

Ross Winkle, chair; Stephane Beaulieu, Young-Chun Kim, Jean Sheldon, Christine Vetne, Reimar Vetne, Myron Widmer  
 Departmental Office: 16 Graf Hall; 965-6206

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Theology and Religion majors investigate the inspiring and life-changing truths of the Christian faith. Such exploration brings to life the Word of God in all its theological, historical, ethical, spiritual, and practical dimensions. The *Theology Department* offers two majors and six minors.

The Theology major is recommended for those who want to enter Christian ministry, specifically pastoral ministry, youth ministry, lay ministry, chaplaincy, or the teaching of religion. This major fulfills all religion prerequisites for acceptance into the Master of Divinity degree program at the Seventh-day Adventist Theological Seminary.

The Religion major is designed for those who want a solid background in religion but are planning careers in other fields, such as teaching, health professions, and law. Religion majors complete a set of core classes and do further in-depth study in a chosen subject by selecting one of three emphases: Biblical Studies, Health Professions, or Theology and Christian History.

The six minors provide a formal framework for general students who wish to focus on a particular area of religious study.

## Major in Theology, B.A.

A minimum of 95.6 hours (59.6 upper-division hours)

### ► Required Core Courses (95.6 hours):

#### Biblical Studies\*

RELB 150	Encountering Jesus	3
RELB 225	Books of Moses	3
RELB 335	Greek Exegesis	3
RELB 445	Hebrew Exegesis	3
<i>At least one of the following courses:</i>		3

RELB 370	Studies in Daniel (3)	
RELB 371	Studies in Revelation (3)	
<i>At least 6 hours from the following:</i>		6
Additional RELB courses		

#### Historical Studies

RELH 235	Life and Ministry of Ellen White	3
RELH 360	Adventist Heritage	4
<i>At least two of the following courses:</i>		6
RELH 320	Christian History: To 1054 (3)	
RELH 321	Christian History: 1054 to 1600 (3)	
RELH 322	Christian History: 1600 to the Present (3)	

#### Biblical Languages

RELL 211+212+213	Beginning Greek I,II,III	3+3+3
RELL 311+312	Intermediate Greek I,II	3+3
RELL 427+428	Biblical Hebrew I,II	3+3

#### Applied Theology

RELP 235	Sharing Your Faith	3
RELP 324+325	Ministry Colloquium I,II	1.6**

\* To fulfill seminary entrance requirements for the Master of Divinity, students must take at least 9 hours of Old Testament RELB courses and at least 9 hours of New Testament RELB courses. RELB courses should be chosen accordingly.

\*\* Repeats fall & winter (.2+.2) for four years.

# Theology

REL P 381+382	Biblical Preaching I,II (with labs)	3+3
REL P 391+392+393	Extern Program I,II,III (with labs)	2+2+2
REL P 475+476	Pastoral Ministry I,II	3+3

## Theological Studies

RELT 235	Christian Spirituality	3
RELT 333	Seventh-day Adventist Theology	3
RELT 464	Senior Seminar	3

At least one of the following courses: 3

REL B 315	Biblical Ethics (3)	
RELT 216	Introduction to Christian Ethics (3)	
RELT 355	Christian Ethics in Society (3)	
RELT 440	Christian Bioethics (3)	

At least one of the following courses: 3

RELT 331	Christian Theology: God & Humanity (3)	
RELT 332	Christian Theology: Salvation & the Church (3)	

At least 3 hours from the following: 3

Additional RELT courses

This major is designed for the student who is preparing for Christian ministry, including pastoral ministry, youth ministry, chaplaincy, and teaching religion. The major is particularly suitable for the student who plans to seek graduate education in the seminary.

Students who desire to take this major must progress through the following two stages of the Ministerial Studies Program:

### Stage I: Admission into the Program.

Evaluation and guidance that is focused upon helping students make sure that they are entering upon the right career path, given their interests, capabilities, and personality. When this process is successfully completed at the end of the second year, the student is invited to join the Ministerial Studies Program. Admission into the program is a prerequisite for the junior year Extern Program (REL P 391+392+393).

### Stage II: Advancement to Candidacy.

Assessment of the commitment and potential of senior theology majors for successful ministry, and preparation for effectively presenting themselves to hiring agencies. Acceptance for Advancement to Candidacy is required for graduation as a theology major and for inclusion in the senior hiring interviews.

Exceptions to these criteria are considered individually and may be approved by the Theology Department faculty.

Each student successfully completing the Ministerial Studies Program, the academic requirements of this major, and the recommended Summer in Ministry Internship is eligible for

recommendation by the Theology Department as a candidate for entrance into pastoral ministry or the seminary and subsequent work in some branch of Christian ministry.

## Major in Religion, B.A.

A minimum of 52.8 hours (34.8 upper-division hours)

This major is designed for those who want a broad background in religion but who plan careers in a variety of other professions, such as teaching, health professions, and law.

### ► Required Core Courses (33 hours):

REL B 150	Encountering Jesus	3
REL B 225	Books of Moses	3
REL B 310	Prophets of Israel	3
REL B 460	Paul and His Letters	3
REL H 311	World Religions	3
REL H 360	Adventist Heritage	4
REL P 324	Ministry Colloquium (4 quarters)	.8
RELT 235	Christian Spirituality	3
RELT 331	Christian Theology: God & Humanity	3
RELT 332	Christian Theology: Salvation and the Church	3
RELT 333	Seventh-day Adventist Theology	3

### ► Emphases (choose one):

#### 1. Biblical Studies Emphasis (24 hours)

At least 21 hours from the following: 21

(Including at least 9 upper-division hours)

REL B 230	Psalms and Wisdom Literature (3)	
REL B 250	Parables of Jesus (3)	
REL B 265	Kings and Conquest (3)	
REL B 315	Biblical Ethics (3)	
REL B 328	Jesus and the Gospels (3)	
REL B 342	Biblical Books (3)	
REL B 370	Studies in Daniel (3)	
REL B 371	Studies in Revelation (3)	
REL H 340	Biblical Culture and Archaeology (3)	

At least 3 upper-division hours from the following: 3

Additional non-service RELB, RELH, RELP, and RELT courses

#### 2. Health Professions Emphasis (21-22 hours)

REL P 351	Ministry of Healing	3
RELT 350	Selected Topics: God and Human Suffering	3
RELT 440	Christian Bioethics	3

At least one of the following courses: 3  
 PHIL 485 Issues in Science and Religion (3)  
 RELH 329 American Denominations (3)  
 RELP 235 Sharing Your Faith (3)  
 RELT 216 Introduction to Christian Ethics (3)  
 RELT 320 Philosophy of Religion (3)  
 RELT 355 Christian Ethics in Society (3)

At least 6 hours from the following: 6  
 (Including at least 3 upper-division hours)  
 Additional non-service RELB, RELH, RELP, and RELT courses

► **Required Cognate Course:**

At least one of the following courses: 3-4  
 EMER 225 Public Health (3)  
 FDNT 235 Nutrition (3) (does not fulfill G.E.)  
 PSYC 240 Health Psychology (4)  
 PSYC 260 Death and Dying (4)  
 PSYC 435 Psychology of Religion (3)  
 SOWK 214 The Family (4) (does not fulfill G.E.)  
 SPAN 105 Spanish for Health Care Professionals (3)

**3. Theology and Christian History Emphasis** (21 hours)

At least one of the following courses: 3  
 RELH 320 Christian History: To 1054 (3)  
 RELH 321 Christian History: 1054 to 1600 (3)  
 RELH 322 Christian History: 1600 to the Present (3)

At least 15 hours from the following: 15  
 Additional courses from RELH 320, 321, 322  
 RELH 235 Life and Ministry of Ellen White (3)  
 RELH 329 American Denominations (3)  
 RELH 340 Biblical Culture and Archaeology (3)  
 RELT 320 Philosophy of Religion (3)  
 RELT 335 Theology of the Sanctuary (3)  
 RELT 337 Last Day Events (3)  
 RELT 350 Selected Topics (3)  
 RELT 464 Senior Seminar (3)

At least 3 hours from the following: 3  
 Additional non-service RELB, RELH, RELP, and RELT courses

**Teaching Credential**

Students planning to obtain a Seventh-day Adventist teaching credential in religion should consult with the credential analyst in the Education Department and should become acquainted with the specific requirements for admission to and successful completion of the Teacher Education Program as outlined in the Education section of this catalog.

**Minor in Applied Christianity**

A minimum of 24 hours (6 upper-division hours)

This minor is intended to provide students with a concentrated focus on specific ways in which one can live out one's Christian beliefs and communicate them to others.

► **Required Courses (24 hours):**

RELB 150	Encountering Jesus	3
RELP 235	Sharing Your Faith	3
RELT 235	Christian Spirituality	3
GE Section II.C	Scriptural Foundations course	3
GE Section II.D	SDA Life & Thought course	3
GE Section II.E	Integrating Faith & Life course	3
Two additional courses, selected from the following:		3+3
RELH 311	World Religions (3)	
RELH 329	American Denominations (3)	
RELP 350	Selected Topics (3)	
RELP 351	Ministry of Healing (3)	
RELT 216	Introduction to Christian Ethics (3)	
RELT 220	Seventh-day Adventist Beliefs (3)	
RELT 355	Christian Ethics in Society (3)	
RELT 440	Christian Bioethics (3)	

**Minor in Biblical Languages**

A minimum of 24 hours (15 upper-division hours)

This minor is intended to provide students with a concentrated focus on the two major languages in the Bible (Hebrew and Greek) and the ability to carefully interpret Biblical texts in their original languages.

► **Required Courses (24 hours):**

RELL 211+212+213	Beginning Greek I,II,III	3+3+3
RELL 311+312	Intermediate Greek I,II	3+3
RELL 427+428	Biblical Hebrew I,II	3+3
At least one of the following courses:		3
RELB 335	Greek Exegesis (3)	
RELB 445	Hebrew Exegesis (3)	

This minor is not open to theology majors.

# Theology

## Minor in Biblical Studies

*A minimum of 24 hours (6 upper-division hours)*

*This minor is intended to provide students with the skills to interpret specific, large sections of the Biblical text within their literary, historical, religious, and cultural contexts.*

### ► Required Courses (24 hours):

RELB 150	Encountering Jesus	3
GE Section II.C	Scriptural Foundations course	3
GE Section II.D	SDA Life & Thought course	3
GE Section II.E	Integrating Faith & Life course	3
<i>Four additional courses, selected from the following:</i>		12
Any RELB courses (3)		
RELH 340	Biblical Culture & Archaeology (3)	
RELT 331	Christian Theology: God & Humanity (3)	

## Minor in Religious Studies

*A minimum of 24 hours (6 upper-division hours)*

*This minor is intended to provide students with a focused study on the nature of religion, including such areas as world religions, philosophy of religion, spirituality, ethics, and religious history.*

### ► Required Courses (21 hours):

RELB 150	Encountering Jesus	3
RELH 311	World Religions	3
RELT 320	Philosophy of Religion	3
GE Section II.C	Scriptural Foundations course	3
GE Section II.D	SDA Life & Thought course	3

*At least one of the following courses:*

RELT 216	Introduction to Christian Ethics (3)	3
RELT 235	Christian Spirituality (3)	
RELT 355	Christian Ethics in Society (3)	

*At least one of the following courses:*

RELH 320	Christian History to 1054 (3)	3
RELH 321	Christian History: 1054-1600 (3)	
RELH 322	Christian History: 1600-Present (3)	

### ► Required Cognate Course (3 hours):

*At least one of the following courses:*

PHIL 485	Issues in Science & Religion (3)	3
PSYC 435	Psychology of Religion (3)	
SOCI 435	The Sacred and Profane in Society (3)	

## Minor in Seventh-day Adventist Studies

*A minimum of 24 hours (6 upper-division hours)*

*This minor is intended to provide students with a concentrated focus on the history, literature, and theology of Seventh-day Adventism.*

### ► Required Courses (24 hours):

RELB 150	Encountering Jesus	3
GE Section II.C	Scriptural Foundations course	3
GE Section II.D	SDA Life & Thought course	3
GE Section II.E	Integrating Faith & Life course	3
<i>Four additional courses, selected from the following:</i>		12
RELB 370	Studies in Daniel (3)	
RELB 371	Studies in Revelation (3)	
RELH 235	Life and Ministry of Ellen White (3)	
RELH 360	Adventist Heritage (4)	
RELH 351	Ministry of Healing (3)	
RELT 220	Seventh-day Adventist Beliefs (3)	
RELT 335	Theology of the Sanctuary (3)	
RELT 336	Curr Issues in Seventh-day Adventism (3)	
RELT 337	Last Day Events (3)	
RELT 338	The Sabbath (3)	

## Minor in Theological Studies

*A minimum of 24 hours (6 upper-division hours)*

*This minor is intended to provide students with an introduction to theological methodology and a survey of Christian doctrines.*

### ► Required Courses (21 hours):

RELB 150	Encountering Jesus	3
RELT 331	Chr. Theology: God & Humanity	3
RELT 332	Chr. Theology: Salvation & the Church	3
RELT 333	Seventh-day Adventist Theology	3
GE Section II.C	Scriptural Foundations course	3

*At least one of the following courses:*

RELT 240	Eco-Theology (3)	3
RELT 330	The Christian & the Media (3)	
RELT 350	Issues in Christian Faith (3)	

*At least one of the following courses:*

RELT 335	Theology of the Sanctuary (3)	3
RELT 336	Curr Issues in Seventh-day Adventism (3)	
RELT 337	Last Day Events (3)	
RELT 338	The Sabbath (3)	

### ► Required Cognate Course (3 hours):

PHIL 101	Introduction to Philosophy	3
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## Philosophical Studies

LOWER-DIVISION COURSE:

**PHIL 101** **4 F, W, S**  
**Introduction to Philosophy**

Basic issues of philosophy, including methods and values, from the perspective of Western civilization.

UPPER-DIVISION COURSES:

**PHIL 390** **3 F**  
**History and Philosophy of Science**  
 (See PHYS 390.)

**PHIL 451** **3 Arranged**  
**History of Western Thought**

Survey of philosophy in Western civilization from the pre-Socratic era to the present. Prerequisite: PHIL 101.

**PHIL 485** **3 F**  
**Issues in Science and Religion**  
 (See PHYS 485.)

**PHIL 495** **1-3 Arranged**  
**Independent Study**

With the approval of the department chair, properly qualified students may undertake an investigation of a topic suited to their background and experience. Repeatable to a maximum of 9 credits.

## Biblical Studies

LOWER-DIVISION COURSES:

**RELB 150** **3 F, W, S**  
**Encountering Jesus**

Exploration of the pivotal role, identity and teachings of Jesus in the salvation of humanity. Prerequisite: RELT 105\*.

**RELB 225** **3 F, W, S**  
**Books of Moses**

Literature, history, and theology of the first five books of the Old Testament. Prerequisites: RELT 105\*, RELB 150\*.

**RELB 230** **3 W**  
**Psalms and Wisdom Literature**

Psalms, Proverbs, Song of Solomon, and other books of the Old Testament classified as "Writings." Emphasis on major themes and representative passages. Prerequisites: RELT 105\*, RELB 150\*.

**RELB 240** **3 S**  
**Letters of the Apostles**

Analysis and interpretation of selected portions of Hebrews, James, 1-2 Peter, 1-3 John, and Jude. Prerequisites: RELT 105\*, RELB 150\*. Odd years.

**RELB 250** **3 F, W**  
**Parables of Jesus**

The history and interpretation of the parables of Jesus in the context of the New Testament and with reference to their contemporary relevance. Prerequisites: RELT 105\*, RELB 150\*.

**RELB 265** **3 F**  
**Kings and Conquest**

An examination of selected chapters from the historical writings of the Old Testament: Joshua, Judges, Samuel, Kings, Chronicles, Ezra, Nehemiah, and Esther. Prerequisites: RELT 105\*, RELB 150\*.

UPPER-DIVISION COURSES:

**RELB 300** **3 F**  
**Principles of Biblical Interpretation**

Analysis of appropriate ways to approach the study of various types of written material found in the Bible. Not available for credit to theology majors. Prerequisites: RELT 105\*, RELB 150\*.

**RELB 310** **3 W**  
**Prophets of Israel**

The origin and nature of the prophetic movement followed by an examination of the message of the Old Testament prophetic books. Prerequisites: RELT 105\*, RELB 150\*, any 200-level religion class\*.

**RELB 315** **3 W**  
**Biblical Ethics**

Major moral teachings of the Old and New Testaments in relation to contemporary moral issues. Prerequisites: RELT 105\*, RELB 150\*, any 200-level religion class\*.

**RELB 328** **3 F**  
**Jesus and the Gospels**

The distinctive theological portraits presented by Matthew, Mark, Luke, and John in the depiction of the life, death, and resurrection of Jesus of Nazareth. Prerequisites: RELT 105\*, RELB 150\*, any 200-level religion class\*.

**RELB 335** **3 S**  
**Greek Exegesis**

Translation and exegesis of selected passages from the Greek New Testament, involving analysis of their historical background, literature, and theology. Prerequisites: RELL 311, 312.

**RELB 341** **2-3 F**  
**Jesus as Healer**

The role of Jesus as healer as seen in Matthew, Mark, Luke, and John. Enrollment limited to B.S.N. (nursing) students.

\* Minimum grade of D- accepted for these GE prerequisites.

# Theology

## **RELB 342** **3 F, S** **Biblical Books**

Study of a book of the Old or New Testament, such as:

*Genesis*  
*Isaiah*  
*Romans*  
*I Corinthians*  
*Ephesians*  
*Hebrews*

Repeatable for credit under different subtitles. Prerequisites: RELT 105\*, RELB 150\*, any 200-level religion class\*.

## **RELB 350** **3 Arranged** **Selected Topics**

An in-depth study of a biblical topic. Subtitles include:

*Babylon and the Bible*  
*Heroes and Villains*  
*Story of the English Bible*  
*Women and the Bible*

Repeatable for credit under different subtitles. Prerequisites: RELT 105\*, RELB 150\*, any 200-level religion class\*.

## **RELB 370** **3 S** **Studies in Daniel**

The book of Daniel, with focused study on its prophetic chapters. Prerequisites: RELT 105\*, RELB 150\*, any 200-level religion class\*.

## **RELB 371** **3 W** **Studies in Revelation**

The book of Revelation, with focused study on its prophetic messages. Prerequisites: RELT 105\*, RELB 150\*, any 200-level religion class\*.

## **RELB 445** **3 S** **Hebrew Exegesis**

Translation and exegesis of passages from the Hebrew Bible. This will involve analysis of the historical background, literature, and theology of selected Old Testament passages. Prerequisites: REL 427, 428.

## **RELB 460** **3 S** **Paul and His Letters**

Analysis and interpretation of selected portions from the letters of Apostle Paul. Prerequisites: RELT 105\*, RELB 150\*, any 200-level religion class\*.

## **RELB 495** **1-3 Arranged** **Independent Study**

With the approval of the department chair, properly qualified students may undertake an investigation of a topic suited to their background and experience. Repeatable to a maximum of 9 credits.

## Historical Studies

LOWER-DIVISION COURSE:

## **RELH 235** **3 W** **Life and Ministry of Ellen White**

An introduction to the life and ministry of Ellen White, including an overview of her writings, the biblical teaching on the gift of prophecy, and contemporary issues relating to Ellen White. Prerequisites: RELT 105\*, RELB 150\*.

UPPER-DIVISION COURSES:

## **RELH 311** **3 F** **World Religions**

An introduction to great traditions of world religions and to concepts for the study and comparison of these traditions. Emphasis on non-Judeo-Christian traditions. Includes an examination of these religions in relation to Christianity. Prerequisites: RELT 105\*, RELB 150\*, any 200-level religion class\*.

## **RELH 320** **3 F** **Christian History: To 1054** (See HIST 320)

## **RELH 321** **3 W** **Christian History: 1054 to 1600** (See HIST 321)

## **RELH 322** **3 S** **Christian History: 1600 to Present** (See HIST 322)

## **RELH 329** **3 S** **American Denominations**

Historical and theological dimensions of American religious identity, with a view toward broadening the understanding of the context of Adventism. Prerequisites: RELT 105\*, RELB 150\*, any 200-level religion class\*.

## **RELH 340** **3 F** **Biblical Culture and Archaeology**

The Bible in its religious, cultural, geographical, and political environment as illuminated by discoveries of archaeology. Prerequisites: RELT 105\*, RELB 150\*, any 200-level religion class\*.

## **RELH 360** **4 S** **Adventist Heritage** (See HIST 360)

## **RELH 495** **1-3 Arranged** **Independent Study**

With the approval of the department chair, properly qualified students may undertake an investigation of a topic suited to their background and experience. Repeatable to a maximum of 9 credits.

\* Minimum grade of D- accepted for these GE prerequisites.

## Biblical Languages

(No courses with the prefix RELL may apply as electives to the religion minor.)

### LOWER-DIVISION COURSES:

#### **RELL 211+212+213 3+3+3 F+W+S** **Beginning Greek I,II,III**

Basic grammar and translation of the Koine Greek of the New Testament, with attention to exegetical tools and methods. Must be taken in sequence. Prerequisite: Sophomore class standing or permission of the instructor.

### UPPER-DIVISION COURSES:

#### **RELL 311+312 3+3 F+W** **Intermediate Greek I,II**

Intermediate grammar, translation, and exegetical exercises in the Koine Greek of the New Testament. Must be taken in sequence with minimum grades of C- required. Prerequisites: RELL 125, 126, 127.

#### **RELL 427+428 3+3 F+W** **Biblical Hebrew I,II**

Basic grammar, vocabulary, and syntax of Biblical Hebrew, including selected readings from various portions of the Old Testament text. Must be taken in sequence.

#### **RELL 495 1-3 Arranged** **Independent Study**

With the approval of the department chair, properly qualified students may undertake an investigation of a topic suited to their background and experience. Repeatable to a maximum of 9 credits.

## Applied Theology

### LOWER-DIVISION COURSES:

#### **RELP 235 3 S** **Sharing Your Faith**

The philosophy, principles, and methods of introducing God and the Gospel in a personal way. Students learn how to build genuine relationships with those of different faith backgrounds and to share the teachings of Scripture, including the distinctive teachings of Christianity and Adventism. Prerequisites: RELT 105\*, RELB 150\*.

### UPPER-DIVISION COURSES:

#### **RELP 319 2 S** **Church Missions in the Modern World**

A survey of contemporary mission theology and methodology, emphasizing personal motivation and preparation, comparative religions, cultural awareness, and interpersonal skills. Prerequisite to student missionary appointment. Enrollment limited to student missionary appointees; exceptions only by approval of the instructor.

#### **RELP 324+325 .2+.2 F+W** **Ministry Colloquium I,II**

Lecture/discussion series for majors in theology and religion. RELP 324 focuses on topics of general interest for majors in theology and religion. RELP 325 includes an increased focus on ministry topics particularly relevant for theology majors. Repeatable for credit. Graded S/F.

#### **RELP 346 2-3 S** **Spiritual Care for Patients**

Development of knowledge and skills for meeting spiritual needs that arise in patient care. Includes a survey of religious backgrounds to inform the caring

ministry of the health-care professional. Enrollment limited to B.S.N. (nursing) students.

#### **RELP 350 3 S** **Selected Topics**

The origins, theological foundations, and past and current practices of selected topics in Christian ministry, such as:

*Youth Ministry*  
*Worship*  
*Public Evangelism*  
*Preaching*

Repeatable for credit under different subtitles. Prerequisites: RELT 105\*, RELB 150\*, any 200-level religion class\*.

#### **RELP 351 3 S** **Ministry of Healing**

Exploration of Biblical health principles, Jesus' ministry of healing, and past and present scientific discoveries that encourage a healthful, holistic lifestyle- a core value in Seventh-day Adventist heritage. Prerequisites: RELT 105\*, RELB 150\*, any 200-level religion class\*.

#### **RELP 381-382 3+3 F+W** **Biblical Preaching I,II**

The art, discipline, and process of effective sermon preparation and delivery. Must be taken in sequence. Two hours lecture and one laboratory per week. Enrollment limited to junior and senior theology and religion majors. Prerequisite: COMM 105 or 226. Even years.

#### **RELP 391+392+393 2+2+2 F+W+S** **Extern Program I,II,III**

Field work in area churches and a weekly seminar. Enrollment limited to junior and senior theology majors who have been accepted into the Ministerial Studies Program. Must be taken in sequence.

\* Minimum grade of D- accepted for these GE prerequisites.

# Theology

## **RELP 475+476** **3+3 F+W**

### **Pastoral Ministry I,II**

The theology, theory, and practice of pastoral ministry. Emphasis on understanding the biblical mandate and context for the local church and on learning how to lead effectively and build up the body of believers. Enrollment limited to junior and senior theology majors. Must be taken in sequence. Odd years.

## **RELP 484** **1-3 F, W, S**

### **Field Practicum**

Instruction and experience in specialized ministries: hospital chaplaincy, youth ministry, prison ministry, etc. Prerequisite: approval of the instructor. Repeatable for credit. Qualifies for IP grading. Graded S/F.

## **RELP 495** **1-3 Arranged**

### **Independent Study**

With the approval of the department chair, properly qualified students may undertake an investigation of a topic suited to their background and experience. Repeatable to a maximum of 9 credits.

## **Theological Studies**

### SERVICE COURSES:

*(Not applicable to a major or minor in this department)*

## **RELT 105** **3 F, W**

### **Biblical Foundations**

Introduction to the Bible and its basic teachings.

### LOWER-DIVISION COURSES:

## **RELT 205** **3 F, W**

### **Christian Beliefs**

Introduction to key Christian beliefs, including the Godhead, inspiration and revelation by God, human nature, salva-

tion, and the role of the Christian church. Prerequisites: RELT 105\*, RELB 150\*.

## **RELT 216** **3 F, W, S**

### **Introduction to Christian Ethics**

Moral decision-making involving the development and application of Christian principles to modern ethical issues. Prerequisites: RELT 105\*, RELB 150\*.

## **RELT 220** **3 F, W**

### **Seventh-day Adventist Beliefs**

Introduction to the distinctive beliefs of the Seventh-day Adventist faith, including the Bible's teachings on the seventh-day Sabbath, second coming of Jesus, Great Controversy theme, holism, sanctuary and forgiveness, church identity, lifestyle, and last day events. Prerequisites: RELT 105\*, RELB 150\*.

## **RELT 235** **3 F, S**

### **Christian Spirituality**

A theological and practical study of how to build and maintain a personal friendship with God, including the use of the classic disciplines used by Christians throughout the ages. Prerequisites: RELT 105\*, RELB 150\*.

## **RELT 240** **3 S**

### **Eco-theology**

The interrelationship of religion and nature in light of contemporary environmental concerns, from a Seventh-day Adventist perspective. Due to the interdisciplinary nature of the field, attention is given to various associated topics such as environmental ethics, philosophy, biblical and religious traditions, and social justice. Prerequisites: RELT 105\*, RELB 150\*.

### UPPER-DIVISION COURSES:

## **RELT 320** **3 W**

### **Philosophy of Religion**

Issues raised by a rational analysis of religion. Emphasis on the nature and validity of Judeo-Christian world views. Prerequisites: RELT 105\*, RELB 150\*, any 200-level religion class\*.

## **RELT 330** **3 W**

### **The Christian and the Media**

Examination of the power of film media to shape cultural and religious values. Critical analysis of films through the dual lenses of biblical principles and frameworks. Selected popular TV programs and films will be analyzed in class, assessing their potential for wholesome entertainment as well as spiritual edification and meaning. Ninety minutes lecture/discussion and four hours viewing laboratory per week. Prerequisites: ENGL 102\*, RELT 105\*, RELB 150\*, any 200-level religion class\*.

## **RELT 331** **3 F**

### **Christian Theology: God and Humanity**

The nature and purpose of Christian doctrine; the doctrines of inspiration and revelation, God, humankind, sin, and the remedy for sin. Enrollment limited to theology and religion majors. Prerequisites: RELT 105\*, RELB 150\*, any 200-level religion class\*.

\* Minimum grade of D- accepted for these GE prerequisites.

**RELT 332** **3 W**  
**Christian Theology: Salvation and the Church**

The doctrine of Christ—His nature and His work, the nature and purpose of the church, and the spiritual experience of its members. Enrollment limited to theology and religion majors. Prerequisites: RELT 105\*, RELB 150\*, any 200-level religion class\*.

**RELT 333** **3 S**  
**Seventh-day Adventist Theology**

The distinctive beliefs of the Adventist Church, including lifestyle and worship, the sanctuary, the law, Sabbath, death, the Second Coming, and heaven. Enrollment limited to theology and religion majors. Prerequisites: RELT 105\*, RELB 150\*, any 200-level religion class\*.

**RELT 335** **3 W**  
**Theology of the Sanctuary**

The plan of salvation as illustrated in the architecture, design, rituals, and theology of the tabernacle and various temples mentioned in Jewish history and literature and the Old and New Testaments. Prerequisites: RELT 105\*, RELB 150\*, any 200-level religion class\*.

**RELT 336** **3 W**  
**Current Issues in Seventh-day Adventism**

Analysis and discussion of current cultural and theological issues impacting Seventh-day Adventist life and thought. Prerequisites: RELT 105\*, RELB 150\*, any 200-level religion class\*.

**RELT 337** **3 F**  
**Last Day Events**

Final events of earth's history culminating in the return of Jesus Christ, with emphasis on how to be ready for His coming. Prerequisites: RELT 105\*, RELB 150\*, any 200-level religion class\*.

**RELT 338** **3 W**  
**The Sabbath**

Exploration of the biblical Sabbath, including its theology; relationship to God, salvation, worship, and last-day events; development in Jewish and Christian faiths; practice and ethics; and distinctive Seventh-day Adventist perspectives. Prerequisites: RELT 105\*, RELB 150\*, any 200-level religion class\*.

**RELT 345** **2-3 W**  
**Christian Ethics in Patient Care**

The study and application of ethical theory and Christian principles to ethical dilemmas facing the professional nurse. Enrollment limited to B.S.N. (nursing) students.

**RELT 350** **3 W**  
**Selected Topics**

An in-depth study of a topic important to Christian faith. Consideration of the theological and spiritual dimensions of the topic. Subtitles include:

*God and Human Suffering*

*Women and the Church*

*The Death and Resurrection of Christ*

Repeatable for credit under different subtitles. Prerequisites: RELT 105\*, RELB 150\*, any 200-level religion class\*.

**RELT 355** **3 W**  
**Christian Ethics in Society**

The moral implications of Christian faith for the organization or transformation of social institutions. Prerequisites: RELT 105\*, RELB 150\*, any 200-level religion class\*.

**RELT 440** **3 S**  
**Christian Bioethics**

Contemporary ethical issues in the biomedical sciences from the perspective of Christian ethics. Topics include abor-

tion, euthanasia, eugenics, reproductive technologies, and human experimentation. Prerequisites: RELT 105\*, RELB 150\*, any 200-level religion class\*.

**RELT 464** **3 S**  
**Senior Seminar**

Seminar for senior theology and religion majors. Others may be admitted with the consent of the instructor.

**RELT 495** **1-3 Arranged**  
**Independent Study**

With the approval of the chair, properly qualified students may undertake an investigation of a topic suited to their background and experience. Repeatable to a maximum of 9 credits.

\* Minimum grade of D- accepted for these GE prerequisites.

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## Faculty

Milbert Mariano, chair; Jon Carstens, Amy Cronk, Cheryl Daley, Tim de la Torre, Brian Kyle, Cliff Rusch, Rajeev Sigamoney, Tom Turner

Departmental Office: 254 Fisher Hall; 965-6604

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In the *Visual Arts Department*, an inspiring creative community, students are surrounded by opportunities to nurture their creative talents and turn them into relevant career choices within the fields of film and television production, fine art, graphic design and photography; preparation for graduate school; or preparation for other lifelong goals in tandem with the visual arts. Students work with the latest tools, learning methods and technology within a caring Christian community. Students in the department are challenged to think critically about their work and its relevance to intellectual, social, cultural, historical and contemporary issues. The Visual Arts Department encourages students to embrace a Christian liberal arts education to enhance their experience as they develop into visual artists ready for professional success.

## Bachelor of Fine Arts (B.F.A.) Program

### ► Admission to the Program

Students interested in the B.F.A. should declare the program and work on foundational coursework during their first year. Typically, students are admitted to the program for the sophomore year. The *B.F.A. Application Instructions* are available at the Visual Arts Department and contain detailed information on the admissions process.

The Program Admissions Committee looks for the following criteria when evaluating applications:

- Successful completion of first year foundational courses
- Essay that demonstrates goals and intentions appropriate to the B.F.A. program
- Portfolio that demonstrates skills appropriate to the B.F.A. program
- Minimum cumulative GPA of 2.0
- Minimum cumulative GPA of 2.5 within the discipline

The Admissions Committee notifies each candidate of the action taken on his or her application.

To remain in the B.F.A. program, students must continue to meet the same academic standards.

### ► General Education Requirements

The general-education requirements for the B.F.A. degree are the same as for the B.S. degree except as indicated below.

1. I.C.2 (Statistics) is not required.
2. Only one course is required in III.B (Social Sciences).
3. IV.B.1 (Visual Arts) is met by the major.
4. Only one course is required from IV.B.2 (Music), IV.B.3 (Philosophy), or IV.B.4 (Language & Culture).
5. Only two courses are required from V.A (Science) and V.B (Applications of Scientific and Mathematical Reasoning). The courses must come from separate subsections and one course must include a laboratory.
6. Section VII (Practical and Applied Arts) is not required.

## Visual Arts

### Major in Film and Television Production, B.F.A.

A minimum of 120.6 hours (43.6 upper-division hours)

► **Required Core Courses (104.6 hours):**

ARTD 124+125	Design and Composition I,II	3+3
ARTD 140	Typography I: Foundations	3
ARTF 390+490	Professional Practices I,II	2+1
ARTH 115+116	History of Western Art I,II	4+4
ARTH 260	History of World Cinema	4
ARTP 250	Photography: Digital Fundamentals	3
ARTP 252	Digital Imaging: Photoshop	3
MDIA 131	Elements of Cinematic Storytelling	3
MDIA 152	Introduction to Filmmaking	3
MDIA 158	Introduction to Television Production	3
MDIA 231+332	Sound Design I,II	2+2
MDIA 240	Short Scriptwriting I	3
MDIA 246+247	Screenwriting I,II	4+4
MDIA 256	Editing	3
MDIA 265	Storyboarding & Pre-Visualization	2
MDIA 270+271	Cinematography I, II	2+3
MDIA 341+342+343	Group Production I,II,III**	3+3+3
MDIA 341+342+343	Group Production I,II,III	3+3+3
MDIA 350	Directing	3
MDIA 355	Marketing and Distribution	3
MDIA 396	Colloquium	1.6*
MDIA 487+488+489	Thesis Project I,II,III	2+2+2
MDIA 494	Internship	3

At least one of the following courses:

ARTH 370	History of Modern Art to 1945 (3)	3
ARTH 470	History of Contemp Art since 1945 (3)	3

At least one of the following courses:

MDIA 340	Short Scriptwriting II (3)	3
MDIA 359	Motion Graphics (3)	3

► **Required Core Electives (10 hours):**

At least 6 hours from the following: 6  
Additional ARTH courses, selected in consultation with advisor.

At least 4 hours from the following: 4  
Additional ARTD, ARTF, ARTH, ARTP, DRMA or MDIA courses, selected in consultation with advisor

► **Required Cognate Courses (6 hours):**

COMM 340	Visual Communication and Semiotics	3
JOUR 434	Media Communication Ethics	3

\* The "Colloquium" is taken eight times for a total of 1.6 hours.

\*\* The "Group Production" sequence is taken twice.

### Major in Fine Art, B.F.A.

A minimum of 120.6 hours (58.6 upper-division hours)

► **Required Core Courses (104.6 hours):**

ARTD 124+125	Design and Composition I,II	3+3
ARTD 285	Color	2
ARTD 460	Portfolio Development	3
ARTF 121+122	Drawing Fundamentals I,II	2+2
ARTF 190	Foundations of Fine Art	1
ARTF 210	Art Glass Design	2
ARTF 211	Three-Dimensional Design	2
ARTF 212	Ceramics I	2
ARTF 220	Acrylic Painting	2
ARTF 221	Life Drawing I	2
ARTF 226	Collage and Assemblage	2
ARTF 310	Watercolor Painting	2
ARTF 315	Encaustic Painting	2
ARTF 320	Clay Sculpture	2
ARTF 325+330	Printmaking	2+2
ARTF 326	Oil Painting	2
ARTF 332	Monotype	2
ARTF 340+341	Ceramics II, III	2+2
ARTF 346	Stone Sculpture	2
ARTF 380+381	Junior Studio I, II	2+2
ARTF 390+490	Professional Practices I, II	2+1
ARTF 396	Colloquium	1.6*
ARTF 422	Life Drawing II	2
ARTF 423	Portrait Drawing	2
ARTF 447	Sculpture	2
ARTF 461	Figure Painting	2
ARTF 480+481	Senior Studio I, II	2+2
ARTF 494	Internship	3
ARTF 499	Thesis Project	3
ARTH 115+116	History of Western Art I,II	4+4
ARTH 278	History of Women Artists	4
ARTH 308	History of Asian Art	3
ARTH 370+470	History of Modern Art to 1945	3
ARTH 470	History of Contemp. Art since 1945	3
ARTP 250	Photography: Digital Fundamentals	3
ARTP 251	Intro to Studio	3
ARTP 252	Digital Imaging: Photoshop	3

► **Required Core Electives (13 hours):**

At least 3 hours from the following: 3  
Additional ARTH courses, selected in consultation with advisor.

At least 10 hours from the following: 10  
Additional ARTD, ARTF, ARTH, ARTP, or MDIA courses, selected in consultation with advisor.

► **Required Cognate Courses (3 hours):**

At least one of the following courses: 3

COMM 340	Visual Communication and Semiotics (3)
JOUR 434	Media Communication Ethics (3)

**Major in Graphic Design, B.F.A.**

A minimum of 120.6 hours (55.6 upper-division hours)

► **Required Core Courses (106.6 hours):**

ARTD 110	Design: Tools, Materials and Techniques	2
ARTD 124+125	Design and Composition I,II	3+3
ARTD 130	Fundamentals of Graphic Design	3
ARTD 140	Typography I	3
ARTD 150	Digital Studio I	3
ARTD 262+362	Identity/Branding I, II	3+3
ARTD 268	Illustration I	3
ARTD 285	Color	2
ARTD 317+318	Interactive Design I,II	3+3
ARTD 361	Ideation	3
ARTD 365	Packaging Design	3
ARTD 380+381	Junior Studio I,II	2+2
ARTD 396	Colloquium	1.6*
ARTD 415	Environmental Graphic Design	3
ARTD 460	Portfolio Development	3
ARTD 463+465	Typography II, III	3+3
ARTD 464	Digital Studio II	3
ARTD 468	Publication Design	2
ARTD 480+481	Senior Studio I,II	2+2
ARTD 494	Internship	3
ARTD 499	Thesis Project	3
ARTF 121+122	Drawing Fundamentals I,II	2+2
ARTF 211	Three-Dimensional Design	2
ARTF 221	Life Drawing I	2
ARTF 325	Printmaking--Silkscreen	2
ARTF 390+490	Professional Practices I, II	2+1
ARTH 115+116	History of Western Art I,II	4+4
ARTH 264	History of Graphic Design	2
ARTH 470	History of Contemp. Art since 1945	3
ARTP 250	Photography: Digital Fundamentals	3
ARTP 252	Digital Imaging: Photoshop	3

At least one of the following courses: 2

ARTF 220	Acrylic Painting (2)
ARTF 310	Watercolor Painting (2)

► **Required Core Electives (11 hours):**

At least 6 hours from the following: 6

Additional ARTH courses, selected in consultation with advisor.

At least 5 hours from the following: 5

Additional ARTD, ARTF, ARTH, ARTP, or MDIA courses, selected in consultation with advisor.

► **Required Cognate Courses (3-4 hours):**

At least one of the following courses: 3-4

MKTG 351	Marketing (4)
MKTG 374	Advertising (3)

**Major in Photography, B.F.A.**

A minimum of 120.6 hours (60.6 upper-division hours)

► **Required Core Courses (99.6 hours):**

ARTD 124+125	Design and Composition I,II	3+3
ARTD 130	Fundamentals of Graphic Design	3
ARTD 285	Color	2
ARTD 317	Interactive Design I	3
ARTD 460	Portfolio Development	3
ARTF 390+490	Professional Practices I, II	2+1
ARTH 115+116	History of Western Art I,II	4+4
ARTH 277	History of Photography	3
ARTP 150	Photography: Black & White Fund.	3
ARTP 250	Photography: Digital Fundamentals	3
ARTP 251	Intro to Studio	3
ARTP 252	Digital Imaging: Photoshop	3
ARTP 350	Studio I: Portraiture	3
ARTP 351	Studio II: Still-Life	3
ARTP 352	Studio III: Location	3
ARTP 380+381	Junior Studio I,II	2+2
ARTP 396	Colloquium	1.6*
ARTP 435	Alternative Photographic Processes	3
ARTP 440	Advertising/Editorial Photography	3
ARTP 452	Photography: Fine Print I	3
ARTP 453	Photography: Fine Print II	3
ARTP 454	Studio IV: Essence	3
ARTP 455	Studio V: Concept	3
ARTP 480+481	Senior Studio I,II	2+2
ARTP 494	Internship	3
ARTP 499	Thesis Project	3
MDIA 131	Cinematic Storytelling	3
MDIA 256	Editing	3
MDIA 270	Cinematography	2

At least one of the following courses: 3

ARTD 140	Typography I (3)
ARTD 150	Digital Studio I (3)

At least one of the following courses: 3

ARTH 370	History of Modern Art to 1945 (3)
ARTH 470	History of Contemp. Art since 1945 (3)

\* The "Colloquium" is taken eight times for a total of 1.6 hours.

## Visual Arts

### ► Required Core Electives (12 hours):

At least 5 hours from the following: 5  
Additional ARTH courses, selected in consultation with the advisor.

At least 7 hours from the following: 7  
Additional ARTD, ARTF, ARTH, ARTP, or MDIA courses, selected in consultation with the advisor.

### ► Required Cognate Courses (9 hours):

COMM 340	Visual Communication and Semiotics	3
JOUR 434	Media Communication Ethics	3
MGMT 160	Small Business Management	3

## Major in Film and Television Production, B.A.

A minimum of 68 hours (29 upper-division hours)

### ► Required Core Courses (66 hours):

ARTD 124+125	Design and Composition I,II	3+3
ARTF 390+490	Professional Practices I, II	2+1
ARTH 260	History of World Cinema	4
ARTP 250	Photography: Digital Fundamentals	3
MDIA 131	Elements of Cinematic Storytelling	3
MDIA 152	Introduction to Filmmaking	3
MDIA 158	Introduction to Television Production	3
MDIA 231	Sound Design I	2
MDIA 240	Short Scriptwriting I	3
MDIA 246	Screenwriting I	4
MDIA 256	Editing	3
MDIA 270+271	Cinematography I, II	2+3
MDIA 341+342+343	Group Production I,II,III	3+3+3
MDIA 350	Directing	3
MDIA 355	Marketing and Distribution	3
MDIA 487+488+489	Thesis Project I,II,III	2+2+2
MDIA 494	Internship	3

### ► Required Core Electives (2 hours):

At least 2 hours from the following: 2  
Additional MDIA courses, selected in consultation with advisor.

### Recommended Field Experience:

It is recommended that all students majoring in Film and Television Production should have completed, by the close of the winter quarter of their senior year, 300 clock hours of professional work related to this emphasis and performed under approved supervision. The College will help place students in qualifying positions.

## Major in Fine Art, B.A.

A minimum of 64 hours (27 upper-division hours)

### ► Required Core Courses (61 hours):

ARTD 124-125	Design and Composition I,II	3+3
ARTD 285	Color	2
ARTD 460	Portfolio Development	3
ARTF 121-122	Drawing Fundamentals I,II	2+2
ARTF 190	Introduction to Fine Art	1
ARTF 211	Three-Dimensional Design	2
ARTF 212	Ceramics I	2
ARTF 221	Life Drawing I	2
ARTF 330	Printmaking–Woodcuts & Etchings	2
ARTF 340	Ceramics II	2
ARTF 390+490	Professional Practices I, II	2+1
ARTF 499	Thesis Project	3
ARTH 115+116	History of Western Art I,II*	4+4

At least one of the following courses: 2

ARTF 210	Art Glass Design
ARTF 226	Collage and Assemblage (2)

At least one of the following courses: 2

ARTF 320	Clay Sculpture (2)
ARTF 341	Ceramics III (2)

At least one of the following courses: 2

ARTF 332	Monotype (2)
ARTF 461	Figure Painting (2)

At least one of the following courses: 2

ARTF 346	Stone Sculpture (2)
ARTF 447	Sculpture (2)

At least one of the following courses: 2

ARTF 422	Life Drawing II (2)
ARTF 423	Portrait Drawing (2)

At least two of the following courses: 4

ARTF 220	Acrylic Painting (2)
ARTF 310	Watercolor Painting (2)
ARTF 315	Encaustic Painting (2)
ARTF 326	Oil Painting (2)

At least one of the following courses: 4

ARTH 107	History of American Art (4)
ARTH 278	History of Women Artists (4)

At least one of the following courses: 3

ARTH 370	History of Modern Art to 1945 (3)
ARTH 470	History of Contemp Art since 1945 (3)

### ► Required Core Electives (3 hours):

At least 3 hours from the following: 3  
Additional ARTF courses, selected in consultation with advisor.

**Major in Graphic Design, B.A.**

*A minimum of 66 hours (26 upper-division hours)*

► **Required Core Courses (60-61 hours):**

ARTD 110	Design: Tools, Materials and Techniques	2
ARTD 124+125	Design and Composition I,II	3+3
ARTD 130	Fundamentals of Graphic Design	3
ARTD 140	Typography I	3
ARTD 150	Digital Studio I	3
ARTD 262+362	Identity/Branding I,II	3+3
ARTD 268	Illustration I	3
ARTD 285	Color	2
ARTD 317	Interactive Design I	3
ARTD 362	Identity/Branding II	3
ARTD 460	Portfolio Development	3
ARTD 464	Digital Studio II	3
ARTD 499	Thesis Project	3
ARTF 121+122	Drawing Fundamentals I,II	2+2
ARTF 390+490	Professional Practices I, II	2+1
ARTH 264	History of Graphic Design	2
ARTP 252	Digital Imaging: Photoshop	3

*At least one of the following courses:* 2-3

ARTD 415	Environmental Graphic Design (3)	
ARTD 468	Publication Design (2)	

*At least one of the following courses:* 3

ARTD 365	Packaging Design (3)	
ARTD 361	Ideation (3)	

► **Required Core Electives (6 hours):**

*At least 6 hours from the following:* 6

Additional ARTD courses, selected in consultation with advisor.

**Major in Photography, B.A.**

*A minimum of 62 hours (24 upper-division hours)*

► **Required Core Courses (56 hours):**

ARTD 124+125	Design and Composition I,II	3+3
ARTD 130	Fundamentals of Graphic Design	3
ARTD 285	Color	2
ARTD 460	Portfolio Development	3
ARTF 390+490	Professional Practices I, II	2+1
ARTH 277	History of Photography	3
ARTP 150	Photography: Black & White Fund.	3
ARTP 250	Photography: Digital Fundamentals	3
ARTP 251	Intro to Studio	3
ARTP 252	Digital Imaging: Photoshop	3
ARTP 350	Studio I: Portraiture	3
ARTP 351	Studio II: Still-Life	3

ARTP 352	Studio III: Location	3
ARTP 454	Studio IV: Essence	3
ARTP 499	Thesis Project	3
MDIA 131	Cinematic Storytelling	3

*At least one of the following courses:* 3

ARTD 140	Typography I (3)	
ARTD 150	Digital Studio I (3)	

*At least one of the following courses:* 3

ARTH 370	History of Modern Art to 1945 (3)	
ARTH 470	History of Contemp. Art since 1945 (3)	

► **Required Core Electives (6 hours):**

*At least 6 hours from the following:* 6

Additional ARTP courses, selected in consultation with advisor.

**Major in Film & Television, A.S.**

*A minimum of 44 hours*

► **Required Core Courses (16 hours):**

ENGL 102	College English II	4
MDIA 131	Elements of Cinematic Storytelling	3
MDIA 152	Intro to Filmmaking	3
MDIA 158	Intro to Television Production	3
MDIA 240	Short Scriptwriting I	2

► **Emphases (Choose one):**

**1. Technical Emphasis (28 hours)**

► **Required Emphasis Courses (13 hours):**

MDIA 231	Sound Design I	2
MDIA 256	Editing	3
MDIA 270	Cinematography I	2
MDIA 271	Cinematography II	3
MDIA 289	Thesis Project	3

► **Required Emphasis Electives (15 hours):**

*At least 10 hours from the following:* 10

ARTP 250	Photography: Digital Fundamentals (3)	
MDIA 332	Sound Design II (2)	
MDIA 350	Directing (3)	
MDIA 355	Marketing and Distribution (3)	
MDIA 359	Motion Graphics (3)	

*At least 5 hours from the following:* 5

Additional coursework, selected from either of the 2 emphases.

**2. Writing Emphasis (28 hours)**

► **Required Emphasis Courses (14 hours):**

MDIA 246	Screenwriting I	4
MDIA 247	Screenwriting II	4

## Visual Arts

MDIA 340	Short Scriptwriting II	3
MDIA 289	Thesis Project	3

► **Required Emphasis Electives (14 hours):**

At least 8 hours from the following: 8

ARTH 260	History of World Cinema (4)	
ENGL 212	Shakespeare in Performance (2-3)	
ENGL 224	Literary Theory (4)	
ENGL 474	Shakespeare (4)	
WRIT 311	Creative Writing: NonFiction (4)	
WRIT 312	Creative Writing: Playwriting (4)	
WRIT 313	Creative Writing: Poetry (4)	
WRIT 314	Creative Writing: Short Story (4)	

At least 6 hours from the following: 6  
Additional coursework, selected from either of the 2 emphases.

### Major in Graphic Design, A.S.

A minimum of 48 hours

► **Required Core Courses (48 hours):**

ARTD 110	Design: Tools, Techniques and Materials	2
ARTD 124+125	Design and Composition I,II	3+3
ARTD 130	Fundamentals of Graphic Design	3
ARTD 140	Typography I	3
ARTD 150	Digital Studio I	3
ARTD 262	Identity/Branding I	3
ARTD 268	Illustration I	3
ARTD 299	Thesis Project	3
ARTD 464	Digital Studio II	3
ARTF 121+122	Drawing Fundamentals I,II	2+2
ARTF 490	Professional Practices II	1
ARTP 150	Photography: Black & White Fund.	3
ARTP 252	Digital Imaging: Photoshop	3

At least two of the following courses: 5-6

ARTD 317	Interactive Design I (3)	
ARTD 361	Ideation (3)	
ARTD 362	Identity/Branding II (3)	
ARTD 365	Packaging Design (3)	
ARTD 468	Publication Design (2)	

At least one of the following courses: 3

ARTH 370	History of Modern Art to 1945 (3)	
ARTH 470	History of Contemp. Art since 1945 (3)	

**Recommended Cognate Courses:**

JOUR 434	Media Communication Ethics (3)	
MGMT 160	Small Business Management (3)	
MKTG 351	Marketing (3)	
MKTG 360	Consumer Behavior (3)	
MKTG 374	Advertising (3)	

### Major in Photography, A.S.

A minimum of 39 hours

► **Required Core Courses (39 hours):**

ARTD 124+125	Design and Composition I,II	3+3
ARTD 285	Color	2
ARTF 490	Professional Practices II	1
ARTH 277	History of Photography	3
ARTP 150	Photography: Black & White Fund.	3
ARTP 250	Photography: Digital Fundamentals	3
ARTP 251	Intro to Studio	3
ARTP 252	Digital Imaging: Photoshop	3
ARTP 299	Thesis Project	3
ARTP 350	Studio I: Portraiture	3
ARTP 351	Studio II: Still-Life	3
ARTP 352	Studio III: Location	3

At least one of the following courses: 3

ARTH 370	History of Modern Art to 1945 (3)	
ARTH 470	History of Contemp. Art since 1945 (3)	

**Recommended Cognate Courses:**

JOUR 434	Media Communication Ethics (3)	
MGMT 160	Small Business Management (3)	

### Minor in Art History

A minimum of 29 hours (7 upper-division hours)

► **Required Courses (29 hours):**

ARTH 107	History of American Art	3
ARTH 115	History of Western Art I	4
ARTH 116	History of Western Art II	4
ARTH 308	History of Asian Art	3
ARTH 370	History of Modern Art to 1945	4

At least 11 hours from the following: 11  
Additional ARTH courses

### Minor in Art

A minimum of 30 hours (6 upper-division hours)

► **Core Courses (18 hours):**

ARTD 124+125	Design and Composition I,II	3+3
ARTD 285	Color	2
ARTF 121+122	Drawing Fundamentals I,II*	2+2

At least one of the following courses: 4

ARTH 115	History of Western Art I (4)	
ARTH 116	History of Western Art II (4)	
ARTH 370	History of Modern Art to 1945 (4)	

\* May be taken at PUC or at Villa Aurora.

At least one of the following courses: 2  
 ARTF 220 Acrylic Painting (2)  
 ARTF 310 Watercolor Painting (2)  
 ARTF 315 Encaustic Painting (2)  
 ARTF 326 Oil Painting (2)

► *Tracks (Choose one):*

**Track 1. PUC Coursework (12 hours)**

ARTF 211 Three-Dimensional Design 2  
 ARTF 221 Life Drawing 2

At least two of the following courses: 4

ARTF 210 Art Glass Design (2)  
 ARTF 212 Ceramics I (2)  
 ARTF 226 Collage and Assemblage (2)  
 ARTF 320 Clay Sculpture (2)

At least one of the following courses: 2

ARTF 325 Printmaking- Silkscreen (2)  
 ARTF 330 Printmaking- Woodcuts and Etchings (2)

At least one additional painting course: 2

ARTF 220 Acrylic Painting (2)  
 ARTF 310 Watercolor Painting (2)  
 ARTF 315 Encaustic Painting (2)  
 ARTF 326 Oil Painting (2)

**Track 2. Villa Aurora Coursework (12 hours)**

*Fine Art and Art History Electives* 12

Complete at least 12 electives in the area of Fine Art and Art History at Villa Aurora in Florence, Italy, through the Adventist Colleges Abroad program. These electives should be selected in consultation with an advisors from PUC's art department. Coursework must be selected to included at least 10 upper-division hours total for the minor.

**Minor in Film and Television**

*A minimum of 30 hours (6 upper-division hours)*

► *Required Courses (30 hours):*

ARTH 260 History of World Cinema 4  
 MDIA 131 Elements of Cinematic Storytelling 3  
 MDIA 152 Introduction to Filmmaking 2  
 MDIA 240 Short Scriptwriting I 3  
 MDIA 341 Group Production I 3

At least one of the following courses: 2

ARTP 150 Photography: Black & White Fund (3)  
 ARTP 250 Photography: Digital Fundamentals (3)

At least 14 hours from the following: 14

*Include at least 3 upper-division hours*

MDIA 158 Introduction to Television Production (2)

MDIA 220 Producing (3)  
 MDIA 231+232 Sound Design I+II (2+2)  
 MDIA 246+247 Screenwriting I+II (4+4)  
 MDIA 256 Editing (3)  
 MDIA 270+271 Cinematography I+II (3+3)  
 MDIA 340 Short Scriptwriting II (3)  
 MDIA 350 Directing (3)  
 MDIA 355 Marketing and Distribution (3)  
 MDIA 359 Motion Graphics (3)

**Minor in Graphic Design**

*A minimum of 29 hours (6 upper-division hours)*

► *Required Courses (25 hours):*

ARTD 110 Design: Tools, Tech and Materials 2  
 ARTD 124+125 Design and Composition I,II 3+3  
 ARTD 130 Fundamentals of Graphic Design 3  
 ARTD 140 Typography I 3  
 ARTD 150 Digital Studio I 3  
 ARTD 262 Identity/Branding I 3  
 ARTD 268 Illustration I 3

► *Required Electives (6 hours):*

Take 6 units of upper-division ARTD courses 6

**Minor in Photography**

*A minimum of 30 hours (6 upper-division hours)*

► *Required Courses (20 hours):*

ARTD 124+125 Design and Composition I,II 3+3  
 ARTD 285 Color 2  
 ARTP 150 Photography: Black & White Fund. 3  
 ARTP 250 Photography: Digital Fundamentals 3  
 ARTP 251 Intro to Studio 3  
 ARTP 252 Digital Imaging: Photoshop 3

► *Required Electives (10 hours):*

Take 10 units of ARTP courses, including 6  
 at least 6 upper-division units.

**The Rasmussen Art Gallery**

The Rasmussen Art Gallery, located in the heart of the campus mall, offers students and community a stimulating and enriching cultural dimension in the visual arts. The gallery's exhibitions provide exposure to contemporary work as well as to historically significant art.

## Visual Arts

### Graphic Design

#### LOWER-DIVISION COURSES:

#### **ARTD 110** **3 W** **Design: Tools, Materials and Techniques**

Provides the student with fundamental experience and knowledge in the use of the basic materials, tools and processes necessary for graphic designers. Emphasizes hand skills, with assignments covering construction, presentation, book arts, and other basic techniques.

#### **ARTD 124+125** **3+3 F+W** **Design and Composition I,II**

The basic principles and elements of naturalistic and nonrepresentational design. Stresses creative use of line, color, shape, texture, and space. Must be taken in sequence.

#### **ARTD 130** **3 F** **Fundamentals of Graphic Design**

A basic overview of the design process from conceptualization and visualization to the preparation of advertising and collateral materials for print.

#### **ARTD 140** **3 W** **Typography I: Foundations**

Study of letter forms with emphasis on typesetting and preparation of copy for typesetting and design. Prerequisite: ARTD 130.

#### **ARTD 150** **3 S** **Digital Studio I**

Preprint production techniques for print applications. Emphasis on presentation and technical skills and problem solving. Recommended prerequisite: ARTD 130.

#### **ARTD 253** **3 F** **Publication Technology**

Uses the Macintosh computer as hardware platform and Adobe InDesign®. Emphasis is on page layout. Introduction to formatting long documents. Use of multiple master pages; building color pages. Two lectures and one laboratory per week.

#### **ARTD 262** **3 W** **Identity/Branding I**

Emphasizes conceptual problem-solving in the design of corporate identity and collateral materials. Prerequisites: ARTD 130, 140, 150. Recommended prerequisite: ARTD 268.

#### **ARTD 268** **3 F** **Illustration I**

To cultivate the process, resources, and skills needed to create fundamental illustrations in association with graphic design. Applied rendering and illustrations using Adobe Illustrator® to create illustrations and graphics for print and web media. Prerequisites: ARTF 121+122; Macintosh competency.

#### **ARTD 285** **2 S** **Color**

The study and hand-on exploration of color, including color perception, properties of color, interaction of colors, color harmony, and color associations. Develops the student's ability to manipulate color for expressive and aesthetic purposes. Prerequisites: ARTD 124, 125

#### **ARTD 299** **3 S** **Thesis Project**

Individual project required of all associate-degree graphic design majors. Creation of a unified, accomplished body of work for exhibition in the Rasmussen Art Gallery or at another predetermined location on campus. Students completing more than one degree do a separate project for each degree earned. Qualifies for IP grading.

#### UPPER-DIVISION COURSES:

#### **ARTD 317** **3 F** **Interactive Design I**

Designing World Wide Web personal home pages and Web sites for clients using the Web as a delivery platform. Goes beyond development of a properly functioning site to emphasize creation of visually attractive and coherent presentations. For general students and art majors. Prerequisite: ARTD 268 or ARTP 252. Recommended prerequisites: ARTD 124, 125, 130.

#### **ARTD 318** **3 W** **Interactive Design II**

Advanced exploration of the integration of components utilized in web and multimedia applications authoring. Students use industry standard software such as Dreamweaver®, Fireworks®, and Flash® for producing interactive projects for internet, CD-ROM, information kiosk, or DVD. Students practice interactive storytelling, navigation metaphors, technical constraints, and usability. Topics include basic animation techniques, transitions, user interactivity, basic scripting, and interactive development process. Prerequisite: ARTD 317. Odd years.

<p><b>ARTD 361</b> <span style="float: right;"><b>3 F</b></span>  <b>Ideation</b>                      Advanced design and presentation as applied to art direction and collateral materials. Prerequisites: ARTD 140, 150, 262. Odd years.</p>	<p><b>ARTD 381</b> <span style="float: right;"><b>2 S</b></span>  <b>Junior Studio II</b>                      Students further explore their own area of interest specific to design. Students will be expected to be self-driven, work in their studios, find inspiration, and document their process to further their understanding of their discipline. Prerequisite: ARTD 380.</p>	<p><b>ARTD 463</b> <span style="float: right;"><b>3 S</b></span>  <b>Typography II: Form and Communication</b>                      Type styles, character, arrangement, and usage in the design of printed materials. Practical experience in preparation of type for print production. Prerequisites: ARTD 140, 150, 262. Odd years.</p>
<p><b>ARTD 362</b> <span style="float: right;"><b>3 F</b></span>  <b>Identity/Branding II</b>                      In-depth study of corporate identity and graphic standards programs. Includes identity design and usage in various print and collateral applications. Prerequisites: ARTD 140, 150, 262. Even years.</p>	<p><b>ARTD 396</b> <span style="float: right;"><b>.2 F, W, S</b></span>  <b>Colloquium</b>                      Lecture/discussion series for BFA majors. Includes two lecture periods (one department-wide, one program specific), a museum day trip, a gallery opening, and a reflection paper. Repeatable for credit. Graded S/F.</p>	<p><b>ARTD 464</b> <span style="float: right;"><b>3 S</b></span>  <b>Digital Studio II</b>                      Explores the preparation of digital files and desktop design. For advanced graphic design majors who understand the basic elements of design, typography, and print and who have Macintosh competency. Prerequisites: ARTD 150, 262.</p>
<p><b>ARTD 364</b> <span style="float: right;"><b>3 S</b></span>  <b>Illustration II</b>                      Emphasis on rendering images for editorial and commercial assignments. Media include pen and ink and ink wash. Prerequisites: ARTF 221, ARTD 268. Odd years.</p>	<p><b>ARTD 415</b> <span style="float: right;"><b>3 W</b></span>  <b>Environmental Graphic Design</b>                      Advanced study of how to plan and design the integration of visual communication into the three-dimensional environment. Students explore how static and interactive typography, graphics and images can be applied as both pragmatic and poetic solutions in accord with interior and exterior architecture, museum/gallery displays, retail and corporate environments. Prerequisites: ARTD 140, 262. Even years.</p>	<p><b>ARTD 465</b> <span style="float: right;"><b>3 S</b></span>  <b>Typography III: Expressive and Experimental</b>                      Advanced study of typography concentrating on the expressive use of letterforms and text, and the exploration of experimental and progressive application of type and letterforms. Prerequisite: ARTD 463. Even years.</p>
<p><b>ARTD 365</b> <span style="float: right;"><b>3 S</b></span>  <b>Packaging Design</b>                      The process of design and presentation as applied to packaging, the redesign of existing packaging and the creation of new product entries. Prerequisites: ARTD 140, 150, 262. Even years.</p>	<p><b>ARTD 460</b> <span style="float: right;"><b>3 S</b></span>  <b>Portfolio Development</b>                      Creation of a professional-quality portfolio tailored to a job search, gallery search or graduate school application. Specific attention given to refining and polishing the content, form, and packaging. Additional areas include developing a personal identity system and assembling a set of self-promotional materials. Prerequisite: ARTF 394.</p>	<p><b>ARTD 468</b> <span style="float: right;"><b>2 W</b></span>  <b>Publication Design</b>                      An in-depth study of publication layout and design techniques. For advanced graphic design majors who understand the basic elements of digital file preparation, layout and design. Prerequisites: ARTD 464. Odd years.</p>
<p><b>ARTD 380</b> <span style="float: right;"><b>2 W</b></span>  <b>Junior Studio I</b>                      Students explore their own area of interest specific to design. Students will be expected to be self-driven, work in their studios, find inspiration, and document their process to further their understanding of their discipline. Prerequisites: Junior class standing, formal admission to the BFA program.</p>		<p><b>ARTD 480</b> <span style="float: right;"><b>2 F</b></span>  <b>Senior Studio I</b>                      Students create the foundation for the production of the senior thesis project in preparation for major production and display in ARTD 481 and ARTD 499. Students will do research, mood boards, color/style palettes, and thumbnail explorations for their project. Prerequisites: ARTD 380-381.</p>

## Visual Arts

### **ARTD 481** **2 W** **Senior Studio II**

Students create the large-scale production of the senior thesis project, in preparation for refinements, display, and promotional work in ARTD 499. Prerequisite: ARTD 480.

### **ARTD 485** **1-4 Arr** **Topics in Design**

An advanced study course that goes beyond topics covered in the program's regular offerings. A specific title is given to the course when it is taught. Repeatable for credit under different subtitles.

### **ARTD 494** **1-3 F, W, S, Su** **Internship**

An individualized contract agreement involving selected students, faculty, and employers to provide practical experience in graphic design in a professional setting. Thirty clock hours of experience required for each hour of credit. Repeatable for credit. Prerequisite: Formal admission to the BFA program or permission from the department chair. Graded S/F.

### **ARTD 495** **1-3 Arranged** **Independent Study**

Available in any area where additional study is desired. Approval of department chair and major advisor is required. Repeatable to a maximum of 6 credits.

### **ARTD 499** **3 S** **Thesis Project**

Individual project required of all baccalaureate degree graphic design majors. Students create a unified, original, and professional body of work for exhibition either in the Rasmussen Art Gallery or at another predetermined location on campus. Students completing more than one art degree do a separate thesis project for each degree earned. Qualifies for IP grading.

## Fine Art

### SERVICE COURSES:

*(Not applicable to a major or minor in this department)*

### **ARTF 100W, 101W, 102W** **2 Su** **Painting Workshop**

Workshop focused on painting techniques through a variety of subjects and style. Focus on techniques for the selected medium (100W- Acrylic, 101W- Watercolor, 102W- Oil). Offered only at Albion Field Station. Repeatable for credit.

### LOWER-DIVISION COURSES:

### **ARTF 110** **2 S** **Introduction to Art Therapy**

Introduction to the field of art therapy including information about the history, psychological theories, materials, populations, settings and much more. Discussion and project based; invites students to think critically, practically and creatively through discussion of traditional and controversial issues within the field of art therapy. Prerequisite: PSYC 121.

### **ARTF 121+122** **2+2 F+W, W+S** **Drawing Fundamentals I,II**

Development of the student's ability to communicate and express creative ideas using line, shape, value, and texture. One lecture and one laboratory per week. ARTF 121 is prerequisite to ARTF 122.

### **ARTF 190** **1 F** **Foundations in Fine Art**

Foundational exploration of the field of fine art. Opens up the discussion of what it means to be a fine artist. Topics include the process of creation and finding your identity, the business of being an artist, and career opportunities for fine artists.

### **ARTF 210** **2 W** **Art Glass Design**

Materials and techniques of art glass design, including copper foiling and leading techniques. One lecture and one laboratory per week.

### **ARTF 211** **2 F** **Three-Dimensional Design**

The perceptual, spatial, and structural principles of well-ordered three-dimensional forms. Assignments introduce techniques of modeling and assemblage. One lecture and one laboratory per week.

### **ARTF 212** **2 F, W, S** **Ceramics I**

Introduction to materials and techniques in creating hand-built and wheel-thrown ceramic forms. One lecture and one laboratory per week. Recommended prerequisite: ARTF 211.

### **ARTF 220** **2 F** **Acrylic Painting**

Introduction to painting with acrylics. Exploration of color and brush techniques through a variety of subjects and styles. One lecture and one laboratory per week. Prerequisites: ARTD 124, 125, 285. Even years.

### **ARTF 221** **2 S** **Life Drawing I**

Improvement of visual skills and accurate portrayal of human surface anatomy. One lecture and one laboratory per week. Prerequisites: ARTF 121 or 122.

### **ARTF 226** **2 W** **Collage and Assemblage**

The artistic use of papers, found objects, and other nontraditional media; historical examples and the creation of two- and three-dimensional projects. One lecture and one laboratory per week. Prerequisites: ARTD 124, 125, 285. Even years.

UPPER-DIVISION COURSES:

**ARTF 310 2 F**  
**Watercolor Painting**

Fundamentals of watercolor in landscape, still-life, and nonrepresentational painting. Includes work both in studio and on location. One lecture and one laboratory per week. Prerequisites: ARTD 124, 125, 285. Odd years.

**ARTF 314 3 Arranged**  
**Art for Children**

Provides an understanding of children's art and a knowledge of art materials and teaching techniques applicable to the child's levels of learning. Designed to provide in the life of the child the thrill of the visual and tactile uses of line, shape, value, color, and texture.

**ARTF 315 2 W**  
**Encaustic Painting**

Materials and techniques of using pigmented wax as a painting medium on wood, canvas and other supports. Emphasis on exploring and inventing techniques, including layering and collage. One lecture and one laboratory per week. Prerequisites: ARTD 124, 125, 285. Odd years.

**ARTF 320 2 W**  
**Clay Sculpture**

The design and techniques of creating sculptural forms in clay with additive and subtractive processes. Figurative and abstracted subject matter. One lecture and one laboratory per week. Prerequisite: ARTF 211. Odd years.

**ARTF 325 2 W**  
**Printmaking-Silkscreen**

The techniques of silkscreen printing including cut stencil and photostencil. One lecture and one laboratory per week. Prerequisite: ARTF 121 or 122.

**ARTF 326 2 W**  
**Oil Painting**

Transparent and opaque oil painting techniques are studied in rendering still-lives, landscapes, and abstractions. One lecture and one laboratory per week. Prerequisites: ARTD 124, 125, 285. Even years.

**ARTF 330 2 S**  
**Printmaking-Woodcuts and Etchings**

An introduction to creation of prints through the relief process of woodcuts and the intaglio process of etchings. One lecture and one laboratory per week. Prerequisite: ARTF 121 or 122. Even years.

**ARTF 332 2 S**  
**Monotype**

Combines painting and printmaking techniques by painting images on metal and Plexiglas plates, then transferring them to paper with a hand-operated printing press. One lecture and one laboratory per week. Prerequisite: one quarter of drawing, painting, or printmaking. Prerequisites: ARTD 124, 125, 285. Odd years.

**ARTF 340 2 W**  
**Ceramics II**

Ceramics techniques and processes at the intermediate level. One lecture and one laboratory per week. Prerequisite: ARTF 212. Even years.

**ARTF 341 2 S**  
**Ceramics III**

Advanced study in creating ceramic forms, formulating glazes, and alternative firing techniques. One lecture and one laboratory per week. Prerequisite: ARTF 340. Even years.

**ARTF 346 2 S**  
**Stone Sculpture**

Creation of three-dimensional forms using subtractive methods in stone. One lecture and one laboratory per week. Prerequisite: ARTF 211. Odd years.

**ARTF 380 2 W**  
**Junior Studio I**

Students explore their own area of interest specific to fine art. Students will be expected to be self-driven, work in their studios, find inspiration, and document their process to further their understanding of their discipline. Prerequisites: Junior class standing, formal admission to the BFA program.

**ARTF 381 2 S**  
**Junior Studio II**

Students further explore their own area of interest specific to fine art. Students will be expected to be self-driven, work in their studios, find inspiration, and document their process to further their understanding of their discipline. Prerequisite: ARTF 380.

**ARTF 390 2 W**  
**Professional Practices I: Business Principles for Visual Artists**

Introduction to the essentials to create and grow an arts-based business. Includes accounting, invoicing, budgeting, tax and legal implications, and general business practices. Also includes a focus on interacting with employees and clients in a professional manner. Prerequisite: Junior class standing.

**ARTF 396 .2 F, W, S**  
**Colloquium**

Lecture/discussion series for BFA majors. Includes two lecture periods (one department-wide, one program specific), a museum day trip, a gallery opening, and a reflection paper. Repeatable for credit. Graded S/F.

## Visual Arts

### **ARTF 422** **2 W** **Life Drawing II**

Advanced study in drawing the human figure. Emphasis on anatomy, expression, and development of a personal rendering style. One lecture and one laboratory per week. Prerequisite: ARTF 121 or 122. Odd years.

### **ARTF 423** **2 S** **Portrait Drawing**

Advanced study in drawing a realistic rendering of the human head and features. One lecture and one laboratory per week. Prerequisites: ARTF 121 or 122. Even years.

### **ARTF 447** **2 S** **Sculpture**

The materials and techniques of using various media to create sculptural forms, both representational and nonobjective. One lecture and one laboratory per week. Recommended prerequisite: ARTF 211. Even years.

### **ARTF 461** **2 S** **Figure Painting**

Advanced study of color and composition with the human figure as subject matter. Emphasis on communicating expression and vitality. One lecture and one laboratory per week. Prerequisites: ARTD 124, 125, 285. Even years.

### **ARTF 480** **2 F** **Senior Studio I**

Students create the foundation for the production of the senior thesis project in preparation for major production and display in ARTF 481 and ARTF 499. Students will do research, mood boards, color/style palettes, and thumbnail explorations for their project. Prerequisites: ARTF 380-381.

### **ARTF 481** **2 W** **Senior Studio II**

Students create the large-scale production of the senior thesis project, in preparation for refinements, display, and promotional work in ARTF 499. Prerequisite: ARTF 480.

### **ARTF 485** **1-4 Arr** **Topics in Fine Arts**

An advanced study course that goes beyond topics covered in the program's regular offerings. A specific title is given to the course when it is taught. Repeatable for credit under different subtitles.

### **ARTF 490** **1 F** **Professional Practices II: Self Promotion & Networking**

Focuses on issues that graduating art majors will face whether practicing in the field of art or applying to graduate programs. Each student compiles a portfolio of artworks. Features guest speakers.

### **ARTF 494** **1-3 F, W, S, Su** **Internship**

An individualized contract agreement involving selected students, faculty, and employers to provide practical experience in fine art in a professional setting. Thirty clock hours of experience required for each hour of credit. Repeatable for credit. Prerequisite: Formal admission to the BFA program or permission from the department chair. Graded S/F.

### **ARTF 495** **1-3 Arranged** **Independent Study**

Available in any area where additional study is desired. Approval of department chair and major advisor is required. Repeatable to a maximum of 6 credits.

### **ARTF 499** **3 S** **Thesis Project**

Individual project required of all baccalaureate degree fine art majors. Students create a unified, original, and professional body of work for exhibition either in the Rasmussen Art Gallery or at another predetermined location on campus. Students completing more than one art degree do a separate thesis project for each degree earned. Qualifies for IP grading.

## History of Art

### LOWER-DIVISION COURSES:

### **ARTH 107** **4 W** **History of American Art**

A study of art and architecture in the United States from the colonial period to the present. Odd years.

### **ARTH 115** **4 F, S** **History of Western Art I: Prehistoric to Medieval**

Designed to further appreciation of art as an expression of human experience. Major monuments in Western Civilization from its origins to the Gothic period with particular emphasis on the relationship between art and the cultural and historical epoch in which it was created.

### **ARTH 116** **4 F, S** **History of Western Art II: Renaissance to Modern**

Designed to further appreciation of art as an expression of human experience. Major artists and monuments in Western Civilization from the Renaissance to the present with particular emphasis on the relationship between art and the cultural and historical epoch in which it was created.

**ARTH 260** **4 F**  
**History of World Cinema**

Examination of significant motion pictures in content and form from the late 19th Century to the present. Includes films from the Americas, Europe and Asia with emphasis on narrative, editing, mise-en-scène, and cinematography. Two lectures and one laboratory per week.

**ARTH 264** **2 F**  
**History of Graphic Design**

The history of graphic design and visual communications from the development of ancient writing of the Sumerians progressing through 20th century advances in graphic design: major trends, developments, and influences. Students will be able to recognize, analyze, and understand important historical and world-wide cultural influences found in graphic design and visual communication. Even years.

**ARTH 277** **3 W**  
**History of Photography**

Analysis of theories and techniques of major photographers in Europe and the Americas from the inception of photography to the present.

**ARTH 278** **4 W**  
**History of Women Artists**

An overview of the contributions made by women to the art of the Western World from the Renaissance to the present with particular focus on the 19th and 20th Centuries. Even years.

UPPER-DIVISION COURSES:

**ARTH 308** **3 W**  
**History of Asian Art**

A survey of art and architecture in India, Southeast Asia, China and Japan. Emphasis is on art and its relationship to cultural and religious belief systems. Even years.

**ARTH 370** **3 S**  
**History of Modern Art to 1945**

Nineteenth and Twentieth-Century art and architecture in Europe and the Americas from Manet up to the surrealism and the Second World War. Prerequisite: ARTH 116. Odd years.

**ARTH 470** **3 S**  
**History of Contemporary Art Since 1945**

Avant-garde art and architecture in the Americas and Europe from Abstract Expressionism to the present. Prerequisite: ARTH 116. Even years.

**ARTH 485** **1-4 Arr**  
**Topics in Art History**

An advanced study course that goes beyond topics covered in the program's regular offerings. A specific title is given to the course when it is taught. Repeatable for credit under different subtitles.

**ARTH 495** **1-3 Arranged**  
**Independent Study**

Available in any area where additional study is desired. Approval of department chair and major advisor is required. Repeatable to a maximum of 6 credits.

**Photography**

SERVICE COURSES:

*(Not applicable to a major or minor in this department)*

**ARTP 100W-101W** **2+2 Su**  
**Digital Photography Workshop I+II**

Workshop focused on digital photography techniques and the transformation of photographic and non-photographic imagery on the computer. Offered only at Albion Field Station. Repeatable for credit. Must be taken in sequence.

LOWER-DIVISION COURSES:

**ARTP 150** **3 F, S**  
**Photography: Black & White Fundamentals**

The basic equipment, experimental manipulations, and photographic skills involved in producing black and white negatives, contact prints, and enlargements; the proper use of various films, papers, and chemicals. Ninety minutes lecture, four hours laboratory per week.

**ARTP 250** **3 F, W**  
**Photography: Digital Fundamentals**

An introduction to digital photography and digital camera operation. Covers composition, exposure, fundamentals of traditional photographic concepts, and basic post-processing of RAW image files. Ninety minutes lecture, four hours laboratory per week.

**ARTP 251** **3 S**  
**Intro to Studio**

Application of advanced photography techniques and concepts in the field. Introduction to photographic studio equipment and lighting. Ninety minutes lecture, four hours laboratory per week. Prerequisite: ARTP 250.

**ARTP 252** **3 W**  
**Digital Imaging: Photoshop**

Use of Adobe® Photoshop tools and techniques to composite, alter and enhance photographic images. Emphasis on artistic manipulation of digital images for graphic design and photographic applications. Ninety minutes lecture, four hours laboratory per week.

## Visual Arts

### **ARTP 299** **3 S** **Thesis Project**

Individual project required of all associate-degree photography majors. Creation of a unified, accomplished body of work for exhibition in the Rasmussen Art Gallery or at another predetermined location on campus. Students completing more than one degree do a separate project for each degree earned. Qualifies for IP grading.

UPPER-DIVISION COURSES:

### **ARTP 350** **3 F** **Studio I: Portraiture**

Use of digital and large format cameras with studio lighting for fine art, product and commercial applications. Ninety minutes lecture, four hours laboratory per week. Prerequisite: ARTP 251, 252.

### **ARTP 351** **3 W** **Studio II: Still-Life**

Use of digital and large format view cameras with studio lighting for product still life, fine art, architectural, and industrial applications. Ninety minutes lecture, four hours laboratory per week. Prerequisite: ARTP 350.

### **ARTP 352** **3 F** **Studio III: Location**

Photography on location of both Fine Art and Architectural subjects. Exploration of lighting techniques that blend natural and artificial light. Ninety minutes lecture, four hours laboratory per week. Prerequisite: ARTP 351.

### **ARTP 380** **2 W** **Junior Studio I**

Students explore their own area of interest specific to photography. Students will be expected to be self-driven, work in their studios, find inspiration, and document their process to further their

understanding of their discipline. Prerequisites: Junior class standing, formal admission to the BFA program.

### **ARTP 381** **2 S** **Junior Studio II**

Students further explore their own area of interest specific to photography. Students will be expected to be self-driven, work in their studios, find inspiration, and document their process to further their understanding of their discipline. Prerequisite: ARTP 380.

### **ARTP 396** **.2 F, W, S** **Colloquium**

Lecture/discussion series for BFA majors. Includes two lecture periods (one department-wide, one program specific), a museum day trip, a gallery opening, and a reflection paper. Repeatable for credit. Graded S/F.

### **ARTP 435** **3 W** **Alternative Photographic Processes**

Exploration of a variety of traditional and contemporary photographic processes, including pinhole photography, image transfers, wet plate collodion, cyanotype, and Van Dyke prints. Students work on individual projects that examine historical, technical and aesthetic approaches. Ninety minutes lecture, four hours laboratory per week. Prerequisite: ARTP 150, 250, 350. Even years.

### **ARTP 440** **3 S** **Advertising Photography**

Emphasis on the practical application of conceptual photography. Students will apply appropriate forward-thinking photographic solutions towards a variety of client-based editorial, advertising and illustrative assignments. Ninety minutes lecture, four hours laboratory per week. Prerequisite: ARTP 150, 250, 350, 351. Even years.

### **ARTP 452** **3 F** **Photography: The Fine Print I**

Advanced photography printing using a large format camera. Refined printing using cold-light enlargers and archival treatments. Ninety minutes lecture, four hours laboratory per week. Prerequisite: ARTP 150, 250. Even years.

### **ARTP 453** **3 W** **Photography: The Fine Print II**

Refined printing from large format negatives in the darkroom as well as digitization and digital printing of film-based images. Calibration of workflow from scan to computer to print. Ninety minutes lecture, four hours laboratory per week. Prerequisite: ARTP 452. Even years.

### **ARTP 454** **3 F** **Studio IV: Essence**

An advanced approach to portraiture. Digital, medium, and large format cameras are used. Ninety minutes lecture, four hours laboratory per week. Prerequisite: ARTP 351. Odd years.

### **ARTP 455** **3 W** **Studio V: Concept**

Conceptual approach to photography with focus on pre-visualization, capture and post-production. Introduction and practice of advanced editing and compositing techniques in Adobe® Photoshop. Ninety minutes lecture, four hours laboratory per week. Prerequisite: ARTP 454. Odd years.

### **ARTP 480** **2 F** **Senior Studio I**

Students create the foundation for the production of the senior thesis project in preparation for major production and display in ARTP 481 and ARTP 499. Students will do research, mood boards, color/style palettes, and thumbnail explorations for their project. Prerequisites: ARTP 380-381.

**ARTP 481** **2 W**  
**Senior Studio II**

Students create the large-scale production of the senior thesis project, in preparation for refinements, display, and promotional work in ARTP 499. Prerequisite: ARTP 480.

**ARTP 485** **1-4 Arr**  
**Topics in Photography**

An advanced study course that goes beyond topics covered in the program's regular offerings. A specific title is given to the course when it is taught. Repeatable for credit under different subtitles.

**ARTP 494** **1-3 F, W, S, Su**  
**Internship**

An individualized contract agreement involving selected students, faculty, and employers to provide practical experience in photography in a professional setting. Thirty clock hours of experience required for each hour of credit. Repeatable for credit. Prerequisite: Formal admission to the BFA program or permission from the department chair. Graded S/F.

**ARTP 495** **1-3 Arranged**  
**Independent Study**

Available in any area where additional study is desired. Approval of department chair and major advisor is required. Repeatable to a maximum of 6 credits.

**ARTP 499** **3 S**  
**Thesis Project**

Individual project required of all baccalaureate degree photography majors. Students create a unified, original, and professional body of work for exhibition either in the Rasmussen Art Gallery or at another predetermined location on campus. Students completing more than one art degree do a separate thesis project for each degree earned. Qualifies for IP grading.

## Film and Television Production

### LOWER-DIVISION COURSES:

**MDIA 131** **3 W**  
**Elements of Cinematic Storytelling**

Introduction to the basic elements of cinema and related motion-picture technologies. Emphasis on developing skills of critical analysis and appreciation of the "language" of cinema; craft, genre, style, and technique. Historical overview of cinema classics and innovative visionaries of the medium. Introduction to roles and responsibilities involved in motion-picture technologies (e.g., scriptwriting, directing, cinematography, editing, lighting, sound direction, etc.). Lectures, discussion, and intensive viewing labs.

**MDIA 152** **3 F**  
**Introduction to Filmmaking**

A hands-on introduction to the craft of documentary and fiction filmmaking from conception through post-production and distribution, with an emphasis on the short film format and independent film. Intended for Film and Television majors and others interested in learning how films are created. Students make their own short film projects during this class. Two lectures and one laboratory per week.

**MDIA 158** **3 S**  
**Introduction to Television Production**

Survey of the rapidly-shifting field of television production with an emphasis on the production process and crew roles. Students will gain experience crewing collaborative productions with other classes and producing their own original work. One lecture and one laboratory per week.

**MDIA 231** **2 W**  
**Sound Design I**

Introduction to audio recording theory, techniques and technology. emphasis on the principles and technical expertise behind recording quality audio and basic post-production processing. One lecture and one laboratory per week. Prerequisite: MDIA 152, 256.

**MDIA 240** **3 S**  
**Short Scriptwriting I**

Techniques and practice in writing a variety of short film scripts. Topics covered will include the fundamentals of screenwriting, story structure, character, and theme development. Includes practical development of the students' knowledge of screenwriting software programs. An introduction to writing for television will also be covered. Student work will ideally be integrated into other media production courses requiring short scripts. Two lectures and one laboratory per week.

**MDIA 246+247** **4+4 W+S**  
**Screenwriting I,II**

Fundamentals of screenwriting: structure, character and scene development, conflict, locale, theme, script outline and story conception. Includes practical development of the student's knowledge of screenwriting software programs. In MDIA 246, students produce one act of a full-length screenplay. In MDIA 247, students rewrite the first draft and move towards the creation of the final draft of a full-length screenplay (90 to 120 pages in length). Must be taken in sequence. Prerequisite: ENGL 102, MDIA 240.

**MDIA 256** **3 W**  
**Editing**

Explores the history, theories, and techniques of film and television editing. Students learn to create meaning and

## Visual Arts

emotion through the juxtaposition of moving images and the art of making the edit. Practical training includes project workflow, metadata and clip organization, codec selection and mastering the tools for making and refining edit choices. Two lectures and one laboratory per week.

### **MDIA 265 2 S** **Storyboarding & PreVisualization**

Introduction to basic terminology, tools and media of storyboarding and pre-visualization. Development of thumbnails, storyboards, scripts, and other conceptual presentation processes. Considerations and concepts of narrative flow, pacing, and staging. Prerequisites: ARTF 121, 122, 221, MDIA 240, 270.

### **MDIA 270 2 W** **Cinematography I**

Lighting analysis, design, and theory for cinematography. Students will learn to work with a variety of industry standard lights and modifiers to control and shape light. One lecture and one laboratory per week. Prerequisites: ARTD 124, ARTP 150 or 250, MDIA 152.

### **MDIA 271 3 S** **Cinematography II**

The cinematographer's role in the film-making process with an emphasis on the camera department. Students will become familiar with devices used to move and control the camera, lenses, filtration, and recording techniques. One lecture and one laboratory per week. Prerequisite: MDIA 270. Odd years.

### **MDIA 289 3 S** **Thesis Project**

Completion and presentation of an independent film project. Proposals must be pitched to a department review panel for approval. Qualifies for IP grading.

### UPPER-DIVISION COURSES:

### **MDIA 332 2 S** **Sound Design II**

Exploration of sound design theory throughout the production process. Special emphasis on post-production processing including audio dialogue replacement (ADR), sound effects recording (Foley), final sound mixing and creation of a Dolby 5.1 surround mix. One lecture and one laboratory per week. Prerequisites: MDIA 131, 231, 270. Even years.

### **MDIA 340 3 F** **Short Scriptwriting II**

Techniques and practice in writing a television script. Students will write a television spec script, following industry standards, which can be placed in a professional portfolio and used for submission to agents. Also includes development of web series ideas in a collaborative environment. Two lectures and one laboratory per week. Prerequisite: MDIA 240.

### **MDIA 341+342+343 3+3+3 F+W+S** **Group Production I,II,III**

A three-part series in which students work together as a collaborative team to create a film (narrative or documentary) or television project. The series is intended to allow students to apply their previously acquired skills to a project as a team and prepare them for their thesis project. Two lectures and one laboratory per week. Must be taken in sequence. Repeatable for credit. Prerequisites: MDIA 131, 152, 240, 256.

### **MDIA 350 3 S** **Directing**

The director's role in the filmmaking process, including preparing script for production, casting a project, working with actors during rehearsal, discovering a film's visual style, and working with

the crew in pre-production, on set, and in post production. Two lectures and one laboratory per week. Prerequisites: ARTH 260, MDIA 256, 270, 271.

### **MDIA 355 3 S** **Marketing and Distribution**

An exploration of film and television marketing and distribution with an emphasis on how to secure a distribution deal for an independent production. Forms of distribution examined include theatrical, film festivals, home video, online, and self-distribution. Students will work on the creation of a press kit, trailer, and distribution plan for their own project. Should be taken in conjunction with MDIA 289 or MDIA 489. Two lectures and one laboratory per week.

### **MDIA 359 3 F** **Motion Graphics**

Introduction to motion graphics in television and film using Adobe® After Effects®. Students will learn to create title sequences and animations, basic compositing and special effects. Two lectures and one laboratory per week. Prerequisites: ARTD 124, MDIA 256. Recommended prerequisites: ARTD 140, ARTP 252.

### **MDIA 396 .2 F, W, S** **Colloquium**

Lecture/discussion series for BFA majors. Includes two lecture periods (one department-wide, one program specific), a museum day trip, a gallery opening, and a reflection paper. Repeatable for credit. Graded S/F.

### **MDIA 485 1-4 Arr** **Topics in Film & TV Production**

An advanced study course that goes beyond topics covered in the program's regular offerings. A specific title is given to the course when it is taught. Repeatable for credit under different subtitles.

**MDIA 487+488+489 2+2+2 F+W+S**

**Thesis Project I,II,III**

A film or television project produced and completed during the senior year that incorporates the creative, technical, and business skills learned throughout the major. The film, documentary, or television project will be presented at the Senior Film Festival held at the end of the year. Proposals must be pitched to a department review panel for approval at the beginning of the senior year.

**MDIA 494 1-3 F, W, S, Su**

**Internship**

An individualized contract agreement involving selected students, faculty, and employers to provide practical experience in film and tv in a professional setting. Thirty clock hours of experience required for each hour of credit. Repeatable for credit. Qualifies for IP grading. Graded S/F.

**MDIA 495 1-3 Arranged**

**Independent Study**

Available in any area where additional study is desired. Approval of department chair and major advisor is required. Repeatable to a maximum of 6 credits.

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## Faculty

*Sylvia Rasi Gregorutti, chair; Cristian Pancorbo Cruz*  
 Departmental Office: 212 Irwin Hall; 965-6500  
 Chair's Office: 965-6510

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The *World Languages & Cultures Department* offers instruction in many languages, including Chinese, French, German, Italian, Japanese, and Spanish. The department offers a major in Spanish Studies as well as a major in Language & Culture Studies, which allows students to select from 6 emphases: Arabic, French, German, Italian, Portuguese, and Spanish. Minors also are available in these same six languages.

Pacific Union College participates in the Adventist Colleges Abroad Program (ACA), which provides opportunity for students to study the language of their choice in a foreign country. Participating foreign language campuses are in Argentina, Austria, Brazil, France, Germany, Hong King (Mandarin), Israel, Italy, Lebanon, Spain, and Ukraine. ACA's English language campus is in England and offers coursework in history, English, British literature and culture, and business.

Departmental majors and minors will spend from one to three quarters, as needed, in the Adventist Colleges Abroad Program in order to study the selected language and be immersed in the culture.

## Major in Spanish Studies, B.A.

*A minimum of 52 hours (43 upper-division hours)*

### ► Required Core Courses (49 hours):

LANG 300*	International Cultural Experience	1+1+1
LANG 450	Advanced Language Studies	4
LANG 490+491	Senior Seminar I, II	2+2
SPAN 440	Spanish & Latin American Film	4
SPAN 480	Readings in Span & Latin American Lit	4

*At least 30 hours from the following:* 30  
 Additional SPAN courses at the intermediate level or higher. Include at least 24 hours of upper-division coursework. Typically taken at a Spanish-language ACA campus.

### ► Required Core Cognate (3-4 hours):

<i>At least one of the following courses:</i>		3-4
ANTH 124	Cultural Anthropology (3)	
COMM 330	Intercultural Communication I (3)	
GEOG 210	World Regional Geography (3)	
GEOG 220	Geography of the Americas (3)	
HIST 101	History of World Civilizations (4)	
HIST 102	History of World Civilizations (4)	
MGMT 457	International Management (3)	
PLSC 328	Critical World Issues (3)	
PLSC 485	Foreign Relations of the U.S. (3)	
RELH 311	World Religions (3)	
SOCI 355	"Racial" and Ethnic Relations (3)	

## Advanced Proficiency Option

Students with a background in Spanish will be placed in the Spanish program in accordance with their language proficiency. Those who achieve advanced placement on a departmental language proficiency exam may complete a Spanish Studies major by taking the following 28 hours of credit *along with a minor, additional major or A.S. degree in any field.*

\* Taken during each quarter of study abroad.

## World Languages & Cultures

A minimum of 28 hours (19 upper-division hours)

► **Required Core Courses (19 hours):**

LANG 300	International Cultural Experience	1+1+1
LANG 490 + 491	Senior Seminar I, II	2+2

At least 3 of the following options: 12

LANG 450	Advanced Language Studies (4)
SPAN 440	Spanish & Latin American Film (4)
SPAN 480	Rdgs. in Span. & Lat. Am. Lit. (4)
Upper-division SPAN course taken at an ACA campus (4)	

► **Required Core Cognate (9 hours):**

At least 9 hours from the following: 9

Cognate courses selected from the list above  
Upper-division SPAN courses taken at an ACA campus

### Major in Language & Culture Studies, B.A.

A minimum of 52 hours (24 upper-division hours)

► **Required Core Courses (19 hours):**

LANG 300*	International Cultural Experience	1+1+1
LANG 450	Advanced Language Studies	4
LANG 460	Language, Culture & Humanitarian Issues	4
LANG 470	Language, Culture and Film	4
LANG 490+491	Senior Seminar I, II	2+2

► **Required Core Cognate (3-4 hours):**

At least one of the following courses: 3-4

ANTH 124	Cultural Anthropology (3)
COMM 330	Intercultural Communication I (3)
GEOG 210	World Regional Geography (3)
GEOG 220	Geography of the Americas (3)
HIST 101	History of World Civilizations (4)
HIST 102	History of World Civilizations (4)
HIST 351	History of Culture: Islamic Culture (3)
MGMT 457	International Management (3)
PLSC 328	Critical World Issues (3)
PLSC 485	Foreign Relations of the U.S. (3)
RELH 311	World Religions (3)
SOCI 355	“Racial” and Ethnic Relations (3)

► **Emphases (Choose one):**

**Arabic Emphasis** (30 hours)

Take at least 25 hours from the following: 25

ARAB courses (any level), typically taken at the Arabic-language ACA campus. Include ARAB 260: Current Events in the Arab World (3) or ARAB 270: Arab People and their Culture (3).

Take at least 5 hours from the following: 5

HIST 351 History of Culture: Islamic Culture (3)\*\*

LANG 495 Independent Study (1-3)

RELH 311 World Religions (3)\*\*

\*\* Must be taken separately from the core cognate.

**French Emphasis** (30 hours)

At least 30 hours from the following: 30

FREN courses at the intermediate level or higher. Include at least 24 hours of upper-division coursework. Typically taken at the French-language ACA campus.

**German Emphasis** (30 hours)

At least 30 hours from the following: 30

GRMN courses at the intermediate level or higher. Include at least 12 hours of upper-division coursework. Typically taken at a German-language ACA campus.

**Italian Emphasis** (30 hours)

At least 30 hours from the following: 30

ITLN courses at the intermediate level or higher. Include at least 24 hours of upper-division coursework. Typically taken at the Italian-language ACA campus.

**Portuguese Emphasis** (30 hours)

At least 30 hours from the following: 30

PORT courses at the intermediate level or higher. Include at least 24 hours of upper-division coursework. Typically taken at the Portuguese-language ACA campus.

**Spanish Emphasis** (30 hours)

At least 30 hours from the following: 30

SPAN courses at the intermediate level or higher. Include at least 24 hours of upper-division coursework. Typically taken at a Spanish-language ACA campus.

**Advanced Proficiency Option** (any emphasis)

Students who achieve advanced placement on a departmental language proficiency exam may complete a Language and Culture Studies major by taking the following 28 hours of credit along with a minor, additional major or A.S. degree in any field.

A minimum of 28 hours (19 upper-division hours)

► **Required Core Courses (19 hours):**

LANG 300	International Cultural Experience	1+1+1
LANG 490+491	Senior Seminar I, II	2+2

At least 3 of the following options: 12

LANG 450	Advanced Language Studies (4)
LANG 460	Language, Culture & Humanitarian Issues (4)
LANG 470	Language, Culture & Film (4)
Upper-division language course taken at an ACA campus (4)	

\* Taken during each quarter of study abroad.

► **Required Core Cognate (9 hours):**

At least 9 hours from the following:

Cognate courses selected from the list above

Upper-division language courses taken at an ACA campus

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**Teaching Credential**

Students desiring to enter a program of studies leading to a California teaching credential in a language other than English with a concentration in Spanish should take the B.A. degree in Spanish Studies. Students will need to pass the language other than English (Spanish concentration) portion of the CSET exam one quarter prior to the full-time student teaching experience. Students are invited to discuss the program with the chair of the World Languages & Cultures Department.

Those who plan to teach on the secondary level should consult with the credential analyst in the Education Department and should become acquainted with the specific requirements for admission to and successful completion of the Teacher Education Program as outlined in the section entitled “Education” in this catalog.

**Minor in Arabic**

A minimum of 27 hours (6 upper-division hours)

ARAB 111	Basic Grammar II	4.5
ARAB 121	Basic Conversation II	4.5
ARAB 131	Basic Writing II	4.5
ARAB 141	Basic Reading II	4.5
HIST 351	History of Culture: Islamic Culture	3
RELH 311	World Religions	3

At least one of the following courses:

ARAB 260	Current Events in the Arab World (3)	3
ARAB 270	Arab People & their Culture (3)	3

All ARAB courses are typically taken at the Arabic-language ACA campus.

**Minor in French**

A minimum of 24 hours (8 upper-division hours)

Take a minimum of 24 hours of FREN coursework at the intermediate level or higher. Include a minimum of 8 credits at the upper-division level. Typically taken at the French-language ACA campus.

**Minor in German**

A minimum of 24 hours (8 upper-division hours)

Take a minimum of 24 hours of GRMN coursework at the intermediate level or higher. Include a minimum of 8 credits at

the upper-division level. Typically taken at a German-language ACA campus.

**Minor in Italian**

A minimum of 24 hours (8 upper-division hours)

Take a minimum of 24 hours of ITLN coursework at the intermediate level or higher. Include a minimum of 8 credits at the upper-division level. Typically taken at the Italian-language ACA campus.

**Minor in Portuguese**

A minimum of 24 hours (8 upper-division hours)

Take a minimum of 24 hours of PORT coursework at the intermediate level or higher. Include a minimum of 8 credits at the upper-division level. Typically taken at the Portuguese-language ACA campus.

**Minor in Spanish**

A minimum of 24 hours (8 upper-division hours)

Take a minimum of 24 hours of SPAN coursework at the intermediate level or higher. Include a minimum of 8 credits at the upper-division level. Typically taken at a Spanish-language ACA campus.

**Adventist Colleges Abroad (ACA)**

Pacific Union College is a member of Adventist Colleges Abroad (ACA), a consortium of colleges and universities operated by the Board of Higher Education of the North American Division of the Seventh-day Adventist Church. This consortium affords opportunity to qualified students for international study while completing the requirements of their programs at their home campus. The program allows students to immerse themselves in the culture and life of the host country and become conversant in the language; to mature socially, spiritually, and intellectually; and to develop sensitivity to cultural differences and a sense of responsibility for and mission to other peoples of the world. ACA offers an academic year program of study as well as a six week summer term.

The following institutions are international affiliates of ACA:

- Argentina- Universidad Adventista del Plata, Libertador San Martín  
Spanish Language, Latin American Culture (Academic Year)
- Austria- Seminar Schloss Bogenhofen, St. Peter am Hart  
German Language and Culture (Academic Year, Summer)
- Brazil- Centro Universitário de São Paulo, São Paulo  
Portuguese Language and Culture (Academic Year, Summer)

## World Languages & Cultures

- England- Newbold College, Bracknell  
British Culture, Literature Business, History (Academic Year)
- France- Campus Adventiste du Salève, Collonges-sous Salève  
French Language and Culture (Academic Year, Summer)
- Germany- Friedensau Adventist University, Friedensau bei Burg  
German Language and Culture (Academic Year, Summer)
- Hong Kong- Hong Kong Adventist College  
Mandarin Language and Chinese Culture (Summer)
- Israel- Jerusalem Center for Biblical & Archeological Studies  
Hebrew Language (Summer)
- Italy- Istituto Avventista Villa Aurora, Florence  
Italian Language and Culture (Academic Year, Summer)
- Lebanon- Middle East University, Jdeidet El, Beirut  
Arabic Language and Culture (Academic Year)
- Spain- Escuela Superior de Español de Sagunto, Sagunto  
Spanish Language and Culture (Academic Year, Summer)
- Ukraine- Ukrainian College of Arts and Sciences, Kiev  
Russian Language and Culture (Summer)

Applicants for international study need not be language majors or minors. Students majoring in various disciplines that allow for one or more elective years within the four-year curriculum may study in the year-abroad and summer session programs without losing credits or prolonging time before graduation by carefully planning the year(s) preceding and following their international study experience. Prerequisites for admission to ACA study abroad programs are as follows:

1. Admission as a regular student to Pacific Union College for the summer or academic year abroad.
2. Competence in the language of the host country for Argentina and Spain (minimum: one year of college or two years of secondary study with a language GPA of 2.50). This level of language competence is prerequisite to one's being considered for admission. Language competence is encouraged but not required at all campuses except Argentina and Spain, or of students in summer programs.
3. Regular academic standing at Pacific Union College and a minimum cumulative college GPA of 2.0.
4. A good citizenship record that gives evidence of better-than-average maturity, adjustability, and congeniality.
5. Presentation of the application with all required information and signatures (academic and financial arrangements) to the Pacific Union College Admissions Office by April 1 (summer program) or May 1 (academic year).

6. Attendance at an ACA orientation meeting at Pacific Union College.

College freshmen with competence in the language are not specifically excluded from ACA academic year programs, but the course of study is usually more beneficial to sophomores and juniors, especially those who plan to major or minor in the language. Although enrolled on an international campus, students are registered at Pacific Union College; are considered in residence at this college; and are eligible for all external grants, loans, scholarships, and financial aid offered to students in attendance at Pacific Union College. Credit earned abroad is recorded each term in the Pacific Union College Records Office. Students must obtain prior permission from the Pacific Union College Records Office to earn more than 18 credits for a term.

The Adventist Colleges Abroad program offers a wide variety of language courses at intermediate and advanced levels concentrating on grammar, orthography, composition, phonetics, conversation, reading, pronunciation, literature, culture, civilization, and folklore as well as courses in art, education, geography, history, music, physical education, and religion.

Applicants must consult with their major professors, the World Languages and Cultures faculty, and the ACA coordinator before enrollment. Pacific Union College personnel advise students about courses to take abroad and determine how the credits will apply toward graduation requirements. Those who carefully plan their academic-year programs with Pacific Union College advisors may earn up to 54 quarter hours toward a baccalaureate degree, including credit for the major, minor, general education, and elective requirements.

ACA courses are in high demand; applications are processed in the order received. Applications are available online at [www.aca-noborders.org](http://www.aca-noborders.org). The PUC deadline for summer applications is April 1; for academic year programs, May 1.

For further information, contact Adventist Colleges Abroad.  
12501 Old Columbia Pike, Silver Spring, MD 20904-6600  
Phone: (301) 680-6444, Fax: (301) 680-6463  
E-mail: [aca@nad.adventist.org](mailto:aca@nad.adventist.org),  
Website: [www.aca-noborders.org](http://www.aca-noborders.org)

### Language Placement

Students who have had previous work in a given language and wish to take a beginning course in that language must obtain the consent of the department chair.

Students with a Spanish language background taking Spanish and those unsure of what course to enroll in should consult with the department faculty. A useful reference is the World Languages & Cultures Lower Division Course Placement chart found on the department web page.

## Chinese

### CHIN 111 **4 W** Beginning Chinese I

Designed to develop speaking, listening, reading, and writing skills in Chinese. Basic grammar and vocabulary presented through a proficiency-oriented approach emphasizing the practical use of the language. Includes a special emphasis on selected elements of the cultures in countries where Chinese is spoken, as designated in the course title by L&C (Language & Culture).

*This course is not for students who have had two or more years of secondary school coursework in Chinese.*

## French

### FREN 111+112+113 **4+4+4 F+W+S** Beginning French I+II+III

Designed to develop speaking, listening, reading, and writing skills in French. Basic grammar and vocabulary presented through a proficiency-oriented approach emphasizing the practical use of the language.

Includes an introduction to selected elements of the cultures in countries where French is spoken. The first course in the sequence includes a special emphasis on the cultural component, as designated in the course title by L&C (Language & Culture).

*These courses are not for students who have had two or more years of secondary school coursework in French.* Must be taken in sequence.

## German

### GRMN 111+112+113 **4+4+4 F+W+S** Beginning German I+II+III

Designed to develop speaking, listen-

ing, reading, and writing skills in German. Basic grammar and vocabulary presented through a proficiency-oriented approach emphasizing the practical use of the language.

Includes an introduction to selected elements of the cultures in countries where German is spoken. The first course in the sequence includes a special emphasis on the cultural component, as designated in the course title by L&C (Language & Culture).

*These courses are not for students who have had two or more years of secondary school coursework in German.* Must be taken in sequence.

## Italian

### ITAL 111+112+113 **4+4+4 F+W+S** Beginning Italian I+II+III

Designed to develop speaking, listening, reading, and writing skills in Italian. Basic grammar and vocabulary presented through a proficiency-oriented approach emphasizing the practical use of the language.

Includes an introduction to selected elements of the cultures in countries where Italian is spoken. The first course in the sequence includes a special emphasis on the cultural component, as designated in the course title by L&C (Language & Culture).

*These courses are not for students who have had two or more years of secondary school coursework in Italian.* Must be taken in sequence.

## Japanese

### JAPN 111 **4 S** Beginning Japanese I

Designed to develop speaking, listening, reading, and writing skills in Japanese. Basic grammar and vocabulary presented through a proficiency-oriented

approach emphasizing the practical use of the language. Includes a special emphasis on selected elements of the cultures in countries where Japanese is spoken, as designated in the course title by L&C (Language & Culture).

*This course is not for students who have had two or more years of secondary school coursework in Japanese.*

## Language & Culture Studies

UPPER-DIVISION COURSES:

### LANG 300 **1 F, W, S** International Cultural Experience

Creation of a community focused on supporting the understanding of living abroad and appreciation of the host culture(s) and language(s). Corequisite: current study abroad enrollment, current student missionary enrollment, or permission of the instructor. Repeatable for credit. Taught online.

### LANG 450 **4 F** Advanced Language Studies

Strategies for maintenance and development of foreign language proficiency. Development of personalized professional vocabulary in the target language. Taught in English with projects in the student's target language.

### LANG 460 **4 W** Language, Culture & Humanitarian Issues

Current humanitarian issues and the contexts in which they occur from a global perspective. Focus on related cultural and linguistic issues. Taught in English with projects in the student's target language.

## **LANG 470** **4 S** **Language, Culture & Film**

Examination and discussion of cultural, historical, socio-economic, and political issues portrayed in selected foreign language films. Discussions in English with films and projects in the student's target language.

## **LANG 490** **2 F** **Senior Seminar I**

Capstone course focusing on selecting and planning an independent research or creative project to be completed in Senior Seminar II. Career planning and preparation for graduate school. Taught in English with projects in the student's target language. Enrollment limited to departmental majors. Prerequisite: junior or senior class standing.

## **LANG 491** **2 W** **Senior Seminar II**

Capstone course focusing on the completion and presentation of an independent research or creative project designed and initiated in Senior Seminar I. Qualifies for IP grading. Taught in English with projects in the student's target language. Prerequisite: LANG 490.

## **LANG 495** **1-3 Arranged** **Independent Study**

Offers the advanced student opportunity to pursue investigation in a field of special interest under the direction of department faculty. Repeatable to a maximum of 3 credits.

## Spanish

### LOWER-DIVISION COURSES:

## **SPAN 105** **3 F, W, S** **Spanish for Health Care Professionals: Basic**

Conversational Spanish for health care professionals emphasizing pronunciation, vocabulary, and oral communication for medical settings. Designed for students who do not have a background in the Spanish language.

## **SPAN 111+112+113** **4+4+4 F+W+S** **Beginning Spanish I+II+III**

Designed to develop speaking, listening, reading, and writing skills in Spanish. Basic grammar and vocabulary presented through a proficiency-oriented approach emphasizing the practical use of the language.

Includes an introduction to selected elements of the cultures in countries where Spanish is spoken. The first course in the sequence includes a special emphasis on the cultural component, as designated in the course title by L&C (Language & Culture).

*These courses are not for students who have had two or more years of secondary school coursework in Spanish. Must be taken in sequence.*

## **SPAN 151+152+153** **4+4+4 F+W+S** **Intermediate Spanish I+II+III**

Designed to increase proficiency in speaking, listening, reading and writing the language studied. Focus on reinforcing control of basic grammar and vocabulary expansion. Selected cultural features of countries where the language is spoken. Must be taken in sequence. Prerequisite: Two years of secondary Spanish or SPAN 111+112+113 or its equivalent.

## **SPAN 205** **3 S** **Spanish for Health Care Professionals: Intermediate**

Conversational Spanish for health care professionals emphasizing pronunciation, vocabulary, and oral communication for medical settings. Designed for students who have one or more years of college-level Spanish or are native or semi-native speakers of Spanish. Students who have earned credit for SPAN 105 are not eligible to earn credit for SPAN 205.

### UPPER-DIVISION COURSES:

## **SPAN 440** **4 W** **Spanish and Latin American Film**

Examination and discussion of historical, socio-economic and political issues as portrayed in Spanish and Latin American films. Taught in Spanish.

## **SPAN 480** **4 S** **Readings in Spanish and Latin American Literature**

Textual analysis of representative Spanish and Latin American works of narrative, poetry, and drama. Tools and methodology of literary analysis. Taught in Spanish.

## **SPAN 495** **1-3 Arranged** **Independent Study**

Offers the advanced student opportunity to pursue investigation in a field of special interest under the direction of department faculty. Enrollment limited to Spanish majors; admission by approval of the instructor. Repeatable once for credit.

Pacific Union College is incorporated under the laws of the State of California as a nonprofit religious institution. A portion of its income is derived from gifts and grants. These sources of funding help keep your cost at the lowest possible level consistent with adequate facilities and competent instruction. Because of uncertain economic conditions, the college must reserve the right to increase tuition rates, rents, and fees during the school year.

## Estimate of Expenses

The following amounts represent the estimated cost of full-time attendance during the fall, winter, and spring quarters of the 2016-2017 school year:

	<i>One Year</i>	<i>Each Quarter</i>
Tuition & fees* (12-17.5 hours)	\$27,999	\$9,333
General fee**	630	210
Residence-hall Rent	4,632	1,544
Minimum Board	3,288	1,096
<b>Total</b>	<b>\$36,549</b>	<b>\$12,183</b>

*Books and supplies are purchased on a cash basis at the College Bookstore.*

\* For students enrolled for six credit hours or more, tuition and fee charges include tuition, Student Association fees, and graduation fees.

\*\* Covers access to general on-campus health services and technology systems.

## Financial Requirements for 2016-2017\*

### Tuition — Angwin Campus

The tuition rates reflect a charge of \$810 per quarter hour up to 11.5 hours. Tuition for 12 to 17.5 hours is \$9,333. All hours over 17.5 are charged at \$620 per hour.

Lecture-type courses that are audited are charged at the half-tuition rate. Participation-based courses may be audited, but full tuition is charged.

Senior Citizens (65 years and older) may take classes at a reduced rate of \$150 per hour (credit) or \$100 per hour (audit). These special rates are available to senior citizens on an “empty-seat” basis. Regular degree students paying full tuition have priority.

### Quarterly Fee

General fee ..... \$210 per qtr

### One-Time Fees

Application Fee (first time only) .....\$30  
*Waived for online application.*

Enrollment Fee .....\$200  
*Required before registering for classes or making housing plans.*

Transcript Fee .....\$25  
*Billed at first enrollment. Entitles the student to request up to twenty-five paper copies of the official transcripts without additional charge.*

### Miscellaneous Fees

Miscellaneous fees are charged when incurred by the student, including the following:

ACT Residual Testing.....	\$50
Course Fees .....	Varies
<i>Fees vary depending on course. See Course Fees section for more detail.</i>	
Credit by Exam.....	\$25 per credit
Final Exam Rescheduling .....	\$100
Graduation in Absentia .....	\$25
Late Registration .....	\$35
Lost or Replacement Residence Hall Key. ....	\$20
Lost or Replacement Student I.D. Card.....	\$15
Replacement Diploma.....	\$25
TEAS Assessment (Nursing).....	\$65
Vehicle/Motorcycle Registration ...	N/C
Waiver Exam .....	\$25

### Tuition — Other Campuses

#### LVN to RN Program

Standard Rate ..... \$485 per hour  
Military Rate ..... \$378 per hour

#### RN to BSN Program

Napa Campus ..... \$416 per hour  
Online Tuition ..... \$425 per hour  
Online Tech Fee ..... \$25 per course

\*Note: A supplement with financial information for 2017-2018 will be available in Spring 2017.

## Financial Information

### Enrollment and Billing Procedures

#### Enrollment Fee

A \$200 Enrollment Fee is required before students can register for classes or make housing plans. The fee is refundable if a cancellation is received before September 1.

Current students in residence with an Enrollment Fee on file may designate a room preference before the end of the current school year. Specific room assignments for new students are made at the discretion of the residence hall dean with attention to class standing and the date the Enrollment Fee is received.

#### Payment Information

Payment for the tuition, room, and board expenses is to be made by:

September 15	Fall Quarter
December 15	Winter Quarter
March 15	Spring Quarter

You may pay in person, by mail, or online at <https://webadvisor.puc.edu> with your PUC user name and password. Electronic checks, American Express, Discover Card, MasterCard, and Visa are accepted.

#### Billing Procedure

Your student account statement reflects your payment plan amount and your variable expenses (e.g., meal costs in excess of the minimum, textbooks, private music lessons, course-overload charges, library fines, etc.). All amounts due are to be paid monthly upon receipt of the statement. A late charge is assessed for any amount that remains unpaid beyond 30 days.

#### Financial Clearance

Students who have been admitted to the college and have paid the Enrollment Fee may register for classes in advance. A financial restriction is placed on the student's registration 30 days prior to the start of each quarter. During this period, students are required to obtain financial clearance from the Student Financial Services Office. Financial clearance is defined as completing a financial plan with the Student Financial Services Office and making the scheduled payment(s). A student who does not obtain financial clearance by 4:00 p.m. on the second day of classes for the current quarter will have their registration cancelled. For further information, see the section entitled "Academic Information and Policies" in this catalog.

### Financing College

If you elect one of these plans, you should complete arrangements with your Pacific Union College financial counselor thirty days before the school term begins.

#### Advance Payment Discounts

1. A cash discount of 7% will be applied if the total estimated yearly balance is remitted by September 15.
2. A cash discount of 2% will be applied if total estimated quarterly costs are remitted by:

September 15	for Fall Quarter
December 15	for Winter Quarter
March 15	for Spring Quarter

3. The above discounts are calculated on direct costs less all financial aid.

#### Monthly Payment Plan

1. After deduction of financial aid and scholarships from the total estimated costs, the remainder may be paid in nine equal payments beginning September 15th and on the 15th of each successive month through May.
2. The responsible party receives a monthly billing.
3. A late fee will be charged on accounts that remain unpaid beyond 30 days. Students/families who make the scheduled payments on a timely scheduled basis will not be charged the late fee.
4. Students are encouraged to complete the required forms for financial aid prior to the start of the quarter. Students who are granted provisional financial clearance will be given five (5) weeks after the start of the quarter to submit the required documents. Required documents are:
  1. processed FAFSA,
  2. Pacific Union College Financial Aid Application, and
  3. any other documents required to process a financial aid award.

#### Family Discount Plan

1. For a family with two dependent students attending the college at the same time, a discount of \$325 per student per quarter is given; for a family with three or more, the discount is \$375 per student per quarter.
2. If you are in a family qualifying for this discount, you also receive the benefits of any of the other payment and discount plans offered by the college for which you qualify.

## Financial Aid Programs

The basic premise of the federal and state student aid programs is that you and your family have the primary obligation to meet your cost of attendance to the extent that you and they are able to do so. If you have further financial need, you may apply for financial aid, which is generally made available through grants, loans, and student employment.

The following definitions are given to clarify financial aid:

**Cost of Attendance:** Tuition, fees, room and board, books and supplies, personal expenses (laundry, clothing, etc.), and required travel.

**Financial Aid:** Financial resources available to meet financial needs, resources such as scholarships and grants, which are not repaid; loans, usually at favorable interest rates and with extended repayment periods; and part-time student employment.

**Expected Family Contribution (EFC):** The information reported on your FAFSA is used to calculate your EFC. The formula used to calculate your EFC is established by law and is used to measure your family's financial strength on the basis of your family's income and assets. The EFC is used to determine your eligibility for federal student aid and indicates how much money you and your family are expected to contribute toward your cost of attendance.

**Financial Need:** The difference between cost of attendance and the EFC.

**Scholarships:** Outright gifts awarded for achievement and leadership.

**Grants:** Outright gifts, based on financial need.

**Loans:** Financial assistance which must be repaid, usually with favorable interest rates and long-term repayment schedules.

**Independent Student:** For federal and state student aid program purposes, you are considered independent if you

1. are 24 years of age or older on or before December 31 of the award year,
2. are a veteran or member of the U.S. Armed Forces,
3. are an orphan or ward of the court,
4. are an emancipated minor,
5. have a legal dependent other than a spouse,
6. are a married student,
7. are homeless or at risk of becoming homeless, or
8. are a graduate/professional student.

**Free Application for Federal Student Aid (FAFSA):** The application form used to determine your financial need. The FAFSA is available at <https://fafsa.ed.gov>.

**Financial Aid Application (FAA):** Pacific Union College's supplemental form to apply for financial aid. This is available at the Student Financial Services Office, or at [www.puc.edu/enrollmentforms](http://www.puc.edu/enrollmentforms).

### Eligibility for Financial Aid

To receive aid from federal student aid programs, you must:

1. demonstrate financial need (except for certain loans),
2. have a high school diploma or recognized equivalent,
3. be accepted to attend Pacific Union College,
4. be working toward a degree or certificate in an eligible program,
5. be a U.S. citizen or eligible noncitizen,
6. have a valid Social Security number (with the exception of students from the Republic of the Marshall Islands, the Federated States of Micronesia, or the Republic of Palau),
7. register with the Selective Service if required,
8. maintain satisfactory academic progress once in school,
9. certify that you are not in default on a federal student loan and do not owe money on a federal student grant, and
10. certify that you will use federal student aid only for educational purposes.

### Satisfactory Academic Progress

The United States Department of Education requires students to progress through their academic program in a timely manner in order to maintain eligibility for Title IV aid. To be eligible to receive federal, state, and/or institution aid at Pacific Union College, you must maintain satisfactory academic progress, which is defined as follows:

### Institutional Policy

At the end of Spring quarter the Student Financial Services Office reviews the academic progress of each student. Students are evaluated on the basis of grade point average (GPA), credit hour completion, and maximum time frame limitation. If while receiving financial aid a student is found to be in violation of the GPA requirement, credit hour completion, or maximum time frame limitation, financial aid will be immediately suspended.

**Grade Point Averages.** Students whose cumulative or PUC GPA falls below 2.0 will be disqualified from receiving Title IV and PUC financial aid. Students may have their financial aid reinstated when their cumulative PUC GPA is 2.0 or higher. In calculating the GPA and evaluating progress toward completion of a degree:

- "I" (Incomplete) and "IP" (in progress) carry no grade points and are not computed in the GPA.
- "NR" (No grade reported) carries no grade points and is not computed in the GPA.

## Financial Information

- “**W**” (Withdrawal) is not computed in the GPA, nor is the course considered to be completed satisfactorily.

A course repeated at Pacific Union College to improve the GPA is counted only once toward the total credit hours required for graduation. Only the better grade is included in the GPA.

**Credit Hour Completion.** Students must complete 70% of credits attempted for the year to continue receiving Title IV, state, and PUC financial aid. All units attempted will be calculated for all grades, including the number of corresponding units for grades of W, I, F (fail) and S (satisfactory). Grades recorded as IP will be counted as satisfactorily completed units. Students may have their financial aid reinstated when they have successfully completed 70% of credits attempted, as long as this does not exceed the 150% credit limit.

**Maximum Time Frame Limitation.** Students should carefully adhere to the requirements of their major or other program to ensure completion on time. Title IV regulations and Pacific Union College policy allows students to receive financial aid up to 150% of the credits required to complete their program. Pacific Union College awards financial aid for a maximum of 288 attempted credits to students working on a four-year degree; a maximum of 135 attempted credits to students working on a two-year degree and a maximum of 173 attempted credits to students working on an A.S. in Nursing. Transfer credits that count toward a student’s current program are counted in the maximum time frame limitation.

### Special Considerations

**Changing Majors.** Students who change majors will not have credits and grades that do not count toward the new major included in the 150% maximum time frame limitation. For Satisfactory Academic Progress purposes, a student may only change majors once.

A student who has reached the maximum time frame for aid eligibility and needs additional time to complete a degree may submit an appeal to the Financial Aid Committee. The appeal should explain why the degree could not be completed within the allowable time frame. An academic plan, signed by the student’s advisor and a TLC representative, should accompany the appeal and explain which credits are needed to finish the degree.

**Transfer students.** Transfer students are eligible for financial aid during their first quarter at Pacific Union College and are subject to the same satisfactory academic-progress policies as other Pacific Union College students. Before registering as a transfer student, students must consult the Records Office to determine whether or not their transfer credits will be accepted by Pacific Union College. Accepted transfer credits a student earns will count toward both attempted and completed credits.

The GPA from transfer credits will not be considered toward satisfactory academic progress.

**High-School Students With PUC Credits.** Any quarters the student was enrolled in PUC courses prior to high-school graduation do not count toward the total number of credits for which the student may receive financial aid. Additionally, the GPA on credits taken at PUC prior to high-school graduation will not be considered toward satisfactory academic progress (SAP).

**Notification.** If a student is disqualified for financial aid they will be notified by the Student Financial Services Department via a letter or via the student’s PUC email account. The letter will include information on the appeal process and if eligible, an appeal form.

### Appeal Procedures

An appeal procedure is available to students if they are ever deemed not to be making satisfactory academic progress. Students must submit a Financial Aid Appeal Form to the Financial Aid Committee at the Student Financial Services Office. The appeal form must:

- Describe the reasons for not making satisfactory progress,
- Outline a program for correcting the problem,
- List an approved, attainable class schedule, signed by your academic advisor and a representative from the Teaching and Learning Center. If the cumulative GPA is below 2.0 a signature from Records will be required as well.

The Financial Aid Committee will review all appeals on a case-by case basis. An appeal may be denied, approved for one quarter only, approved on probation for one or more quarters, or approved for the remainder of the academic year. If the appeal is approved, the committee may have additional requirements the student must fulfill in order to receive financial aid. Additional requirements may include, but are not limited to, having the student meet with the Teaching and Learning Center for tutoring. Appeals approved will be re-evaluated at the end of each quarter. Failure to meet SAP policy/procedure guidelines during any term may result in loss of financial aid. Students will not be eligible for consecutive probation periods. Disqualified students and students whose appeals are denied will be ineligible for all federal and state aid, and most institutional financial aid.

The Financial Aid Committee will notify the student of the committee’s decision via a letter or via the student’s PUC email account. All decisions by the committee are final.

*Note: Reinstatement of Financial Aid awards is based on available funding. Therefore, students may not receive their original Financial Aid awards.*

## Types of Aid

Financial aid consists of scholarships, grants, and loans. Scholarships and grants do not have to be repaid. Loans must be repaid.

### Scholarships and Grants

*From the Federal Government*

**Federal Pell Grant.** The Pell Grant is a federally-funded grant program designed to help eligible undergraduates earn the first baccalaureate degree. The amount is based on your financial need and the number of hours for which you are enrolled.

**FSEOG.** The Federal Supplemental Educational Opportunity Grant program is a federal program for undergraduate students with exceptional financial need. An FSEOG award is automatically considered for students applying for financial aid through Pacific Union College.

**BIE.** The Bureau of Indian Education's Higher Education Grant Program provides supplemental financial assistance to eligible American Indian/Alaska Native scholars entering college seeking a baccalaureate degree. Information is available at [www.bie.edu](http://www.bie.edu).

*From the State Government*

**The California Student Aid Commission.** All Pacific Union College students who are California residents are encouraged to apply to the California Student Aid Commission for state-funded grant assistance. Eligibility requirements and application procedures are posted at <http://www.csac.ca.gov>. An annual application is required for all grants. Applications are due by March 2 for the school term starting in September.

**Cal Grants** are based on a combination of demonstrated financial need and academic achievement as evidenced by your GPA. Scholarship award amounts are determined by the CSAC. Both the FAFSA and the GPA Verification Form must be submitted by March 2.

*From the College*

Contact the Enrollment Services Office or the Student Financial Services Office for information about College-awarded scholarships and awards. A **Campus Grant** is a limited grant available to help meet a student's remaining financial need. Recipients must maintain satisfactory academic progress and carry a full course load; they may be required to live in College housing.

### Loans

Most of the financial aid packages from the college's Student Financial Services Office include an expectation that the apply-

ing student will take a loan under one of several loan programs. Your student loan helps defray current costs until you can better afford to pay for them.

**Federal Direct Loan Program.** The most common type of loan for undergraduates is the Direct Subsidized Student Loan, provided by the federal government. To be eligible, you must qualify to receive federal student aid. Any new Direct Loan Program borrower on or after July 1, 2013 may only receive Direct Subsidized Loans for 150% of the published length of the educational program they are studying. If the borrower reaches the 150% Direct Subsidized Loan limit before completing their program of study, the borrower becomes responsible for the accruing interest on the Direct Subsidized Loan.

The interest rate is fixed each year. Repayment begins six months after you complete college or drop below half-time status. The servicer determines the repayment schedule. Interest rates and borrowing limits are posted at <https://studentloans.gov>. Loan fees are charged by Direct Loans.

If you have an undetermined financial need, you may apply for the Direct Unsubsidized Loan. The application process and loan amounts are the same as for the Direct Subsidized Loans. The difference between the two loan programs is that you are responsible for the interest accruing while in school if the loan is unsubsidized. You are not responsible for interest accruing for the subsidized loan, unless you have reached the 150% rule.

**Parent Loans for Undergraduate Students (PLUS).** A PLUS loan is a federal loan available to parents who borrow on behalf of dependent students. Parents may borrow up to the full cost of education minus other financial aid. If a parent wishes the PLUS to be used for financial clearance, the completed PLUS application must be in the Student Financial Services Office to be certified prior to registration. If the PLUS is to be used to pay the entire cost of education, the Student Financial Services Office must have indication from Direct Loans that the parent loan has been approved. Otherwise the parent is expected to make the required payments for financial clearance.

**Federal Perkins Loans.** The Federal Perkins Loan program is funded mainly by the federal government but administered by the Student Financial Services Office.

The loans are repaid directly to Pacific Union College. No interest is charged while you remain in school as an undergraduate or continue education in a graduate or professional school. When you cease to be a student, there is a grace period before repayment begins.

The total repayment period is not to exceed ten years. Minimum payments of \$40 are due on the first of each month during the repayment period and are delinquent if not received by the 15th, at which time the account becomes subject to a late fee.

## Financial Information

Regular collection procedures are employed, including accelerating the payment of the total loan and referrals to collection agencies when a loan account is in default.

**Collegiate Loans.** A collegiate loan is funded by a program established by Pacific Union College. Loan amounts are limited to available funds allocated by the College for this program. The terms, interest rate, and payback requirements are similar to the Federal Perkins Loan program.

**Private Loans.** Private student loans are another option that may be used to cover the cost of attendance. Interest rates vary by lender.

### Self-Help: Student Employment

**College Employment.** Many students work at the college to defray part of their school expenses by working an average of 15-18 hours per week.

The current levels of earnings are as follows:  
(effective July 1, 2016):

Hrs./Wk.	Rate/Hr.	Minimum Income/Yr.
10	\$10.00	\$3,000
15	\$10.00	\$4,500
20	\$10.00	\$6,000

The college cannot guarantee how much you will earn.

Many students work in such service and industrial departments as Custodial Services, Dining Commons, Public Safety, Landscape, and Facilities Management. Others are employed as office workers, readers in academic departments or as residence hall assistants.

Campus employment is arranged through the Student Employment Office in Financial Services. If you seek work on campus, you must file an application with the Student Employment Office and be registered for at least eight hours of course work (except during the summer).

Electronic time clocks are used for recording hours worked. Student workers are paid by electronic funds transfer every two weeks. Department directors employing students determine wage rates within ranges established by College management. Hourly rates are in compliance with state and federal laws.

You may assign a portion of your wages to your account by completing a form available at the Student Financial Services Office. You may also request that tithe and/or church expense offerings be deducted from your earnings.

**Federal Work-Study Program.** If you qualify, a portion of your wages may be subsidized through the Federal Work-Study Program. Federal Work-Study is designed to broaden the range of meaningful employment. In order for you to be employed on the Federal Work-Study Program, you must have applied for

financial aid and must be receiving financial aid (i.e., a Federal Pell grant, a Federal Perkins Loan, a Federal SEOG, etc.) awarded by the Student Financial Services Office, and must have an unmet financial need. (If you are employed in the Theology Department, you are not eligible to participate.)

*The type of financial aid offered to you depends upon the amount of financial need and the resources available. After family resources and outside resources (Cal Grants, Rotary Scholarships, etc.) are taken into consideration, a financial award is built in the following order:*

1. Federal Pell Grant
2. Federal Supplemental Educational Opportunity Grant
3. Cal Grant/Pacific Union College Scholarships/Tuition Assistance, etc.
4. Loan (Federal Direct Loan or Federal Perkins Loan)
5. Pacific Union College Campus Grant

*Please note: It may be impossible for the college to fill your complete financial need. Also, it may be impossible for all of your Pacific Union College scholarship awards to fit into your FAFSA need figure.*

### Special Programs

Special programs are designed to help qualified students finance their costs of attendance. It is your responsibility to investigate and, if you qualify, to pursue these financial sources.

**Veterans' Benefits.** The Cal-Vet Educational Assistance Program may pay fees and a monthly stipend to students who qualify. For more information on these programs or on G.I. benefits, veteran's loans, or veteran's employment, contact the Department of Veterans Affairs or the veterans certifying official at Pacific Union College.

**State Aid to the Physically Handicapped.** Through its Bureau of Vocational Rehabilitation, the State of California provides financial assistance to students who have physical disabilities. This assistance may include an additional amount to help cover living costs. Students who may be entitled to this assistance should apply to the State Bureau of Vocational Rehabilitation.

## How to Apply for Financial Aid

1. Complete and submit the FAFSA at <https://fafsa.ed.gov>. The FAFSA is necessary for determining your EFC and applying for federal student aid. Select Pacific Union College as one of the colleges to receive your Student Aid Report (SAR) using the college's Federal School Code 00125800. Upon receipt, review your copy of the SAR for accuracy.

**2.** To apply for a Cal Grant, legal residents of California must complete and submit the GPA Verification Form and the FAFSA by March 2. Obtain a Certificate of Mailing for each form to prove that you met the March 2 deadline. (Students currently receiving a Cal Grant do not need to file the GPA Verification Form.)

**3.** Complete a Pacific Union College Financial Aid Application (FAA) and return it to the Student Financial Services Office.

**4.** Send a federal tax return transcript and W-2s to the Student Financial Services Office, if requested.

**5.** Apply for admission to the college.

March 2 is the filing deadline for the FAFSA and GPA Verification Forms. April 15 is the priority processing deadline for receipt of the items listed above by the Student Financial Services Office, Pacific Union College, One Angwin Avenue, Angwin, California 94508-9707. Aid awards for applications received after these dates will be based on funds available, but may not cover the determined need.

### Delivery of Financial Aid

*Cal Grant A, B and C* tuition awards are placed as credit on student accounts each quarter.

Financial aid is posted directly to student accounts. Grant aid is handled entirely by the college and is posted directly to individual accounts.

Students receiving Federal Perkins Loans will have an advance posted each quarter. Direct and PLUS Loans are processed via electronic funds transfer directly to the student account.

Placing all monies on the student account provides an audit trail. Should any question arise regarding the account or the disposition of aid, the student account statements readily provide the necessary information.

If your aid exceeds the college charges, it is possible to arrange with the Student Financial Services Office for a cash withdrawal from the account at the end of the quarter.

Each quarter the same procedure is followed. Ordinarily, financial aid is credited at the beginning of each quarter. However, if you should have unforeseen financial problems with documented increased financial need, supplemental aid may be available.

A financial aid award packet will be sent to you if you have

- 1.** completed financial aid applications (FAFSA, FAA) on file at the Student Financial Services Office;
- 2.** been accepted for admission by the college;
- 3.** sent requested supplemental financial documentation; and
- 4.** responded to any further requests by the Student Financial Services Office.

The financial aid award packet contains your financial check

sheet, an award letter indicating your financial aid and scholarships, appropriate loan documents and a payment agreement.

The payment agreement and award letter must be signed and returned to the Student Financial Services Office. This acceptance serves as authorization to prepare the federal student aid you will receive.

If you are interested in applying for financial aid, or if you receive financial aid, you should be aware of the following:

**1.** You are encouraged to discuss any financial problems with your financial aid counselor. Staff members want to help you achieve your academic goals.

**2.** Financial aid is not intended to help with financial obligations incurred prior to coming to the college. Thus, if you have car payments or substantial credit card or loan debt, it would be best to liquidate such obligations before applying for aid and coming to school.

**3.** You are encouraged to discuss academic problems with your academic advisors at an early date, or to seek special help from the Counseling Center and/or the Teaching and Learning Center.

**4.** Students receiving financial aid are responsible for doing as well as possible in their classes. If you find it necessary to change or reduce your course load, you must consult with your financial counselor regarding how the change in your course load affects your financial aid.

**5.** If you must withdraw from the college, first contact the Student Financial Services Office for a determination of refunds to be made to the aid funds and for information regarding disposition of any loans you may have.

**6.** You are responsible, as long as there is an unpaid balance, to keep the Student Financial Services Office informed of your address and to make the minimum monthly payments.

**7.** If you have Perkins or Collegiate loans and transfer to another school, or return to Pacific Union College after being out for more than six months, you may request the Student Financial Services Office to defer your loan payments until you are not attending school again. A similar deferment is possible on Direct Federal Student Loans, but you must contact the servicer for the proper paperwork.

**8.** Completion of a two-year associate degree or a four-year baccalaureate degree is based on an average of 16 hours of course work per quarter. Although you may take as few as 12 hours per quarter and still receive full aid, that aid could terminate before you complete your degree requirements if you average fewer than 16 hours per quarter.

**9.** Although you may take half- or three-quarter-time course loads, if you are receiving financial aid it is to your advantage financially to take a full academic load (average of 16 class hours

## Financial Information

per quarter). It costs no more to take 17.5 hours than 12 hours and the mandated reduction in financial aid for less than 12 hours of course work will generally be more than the reduction in tuition charges.

### Adventist Colleges Abroad (ACA)

Students considering enrollment in the ACA program should consult with the Director of Student Financial Services. Most scholarship and loan programs are available to students in the ACA program, especially those based on fund sources other than Pacific Union College. Financial aid, scholarships, or loans funded by Pacific Union College are not available to students in the ACA program. Educational assistance for denominational employees' dependents is available for all ACA programs.

### Veterans Education Benefits

Students qualifying for veterans education benefits should make this fact known to the veterans certifying official in the Records Office at the time of application to the college. The certifying official will supply the necessary forms and advise you of the procedures you must complete in order to receive the benefits to which you are entitled. The Department of Veterans Affairs (VA) determines eligibility for the benefits.

By prior arrangement with the VA, veterans may have an advance payment check available on registration day. Monthly payments are made by the VA directly to the student or to the school, depending on the type of benefits received. If the payments for tuition and fees are received by the school, these payments will be added to the student's financial aid award package.

Veterans are required to follow the regular payment plan as listed for other students. For further information, see the section entitled "Veterans" in this catalog.

## Payments and Refunds

Checks or electronic (ACH) payments for a student's account should be made payable to Pacific Union College. Checks intended *for a student's personal use* should be made payable to the student and not to Pacific Union College. Returned checks or ACH payments are subject to a \$25 charge plus statutory penalties if action to collect becomes necessary. Any check returned for reason of "Insufficient Funds" will be re-deposited one time (does not apply to ACH payments). Upon receipt of a returned payment, the issuer will be notified and informed they have ten days to make restitution, including any related fees, to prevent further collection activity. The only acceptable forms of payments for returned checks are cash, money order, certified bank

check, or credit/debit card (Visa, MasterCard, Discover and American Express).

After more than one returned payment, Pacific Union College reserves the right to restrict payment methods or your access to online payment options. As a result, cash, certified bank checks, money orders, or credit/debit cards will be the only means of payment.

### Late Charge on Unpaid Accounts

If you have any account that remains unpaid beyond 30 days after the close of the quarter in which you left the college, a late charge will be assessed.

### Billing/Collections

When you leave Pacific Union College your loans and any unpaid tuition balance are transferred from the Student Financial Services Office to the Student Loans and Accounts Office for billing and tracking of repayment. Pacific Union College contracts with a third-party provider for this billing. They are not a collection agency but accounts are automatically placed in collections at 180 days of delinquency.

### Tuition Refunds

*Tuition Refunds* for a reduction in course load are made after you withdraw from a course through WebAdvisor. When dropping all courses, you must complete a Notice of Withdrawal from School form. This form is available at the Records Office.

The amount of tuition refund to students who withdraw from any or all courses during a quarter is determined from the date the completed withdrawal form is filed with the Records Office.

The refund schedule is as follows:

1. First through fifteenth school day of quarter - 100% refund;
2. Sixteenth school day of quarter - 59% refund;
3. 3% less for each school day thereafter;
4. After the 29th school day - no tuition refund.

### Residence Hall Room Refunds

When a room is occupied less than one quarter, a charge is made for the actual number of days (60 days per quarter) on a pro-rata basis as follows:

1. First through seventh calendar days - 100% refund
2. Eighth calendar day - 86.67% refund;
3. Ninth through 60th calendar days - 1.67% reduction per day;
4. After the 60th calendar day - no refund.

### Financial Aid Refunds

Since tuition, room, and board refunds are a reduction in your costs, a corresponding reduction must be made in financial aid that you may have received. Your account will be charged for the reduction in financial aid.

To be certain that all charges and credits have been entered on your account, the college reserves the right to withhold settlement of any balance due to you until the end of the next billing cycle (30 days after you leave campus).

## **Living Expenses**

### **Dining Commons**

Students living in the residence halls are automatically placed on a minimum board plan. The quarterly minimum charge for board is \$1,096. The Dining Commons hours of operation and menus can be viewed online at [puc.cafebonappetit.com](http://puc.cafebonappetit.com).

If you are a commuting student, or if you are enrolled in less than a half-time study load, you may pay cash or use your regular ID card when using the Dining Commons. (You may be asked to pay a deposit before your ID card is activated for use in the Dining Commons.) All meal charges must be paid by the end of the next billing cycle.

### **Residence Halls**

Pacific Union College affirms the values to be gained from being primarily a residential college. Most students live in one of the seven gender-exclusive residence halls. Four women's residence halls can accommodate approximately seven hundred students; three men's halls, approximately six hundred.

By accepting admission, if you are an unmarried student aged 22 or younger you agree to live in a residence hall unless you apply for and are granted an exception (see "Student Housing").

To apply for a room in a residence hall, complete and submit a Housing Reservation Form (<https://reslife.puc.edu>) along with a \$200 Enrollment Fee. Room assignments for new students are made on the basis of class standing, the date the fee is received, and the discretion of the residence hall dean.

The standard room rate is \$1,544 per quarter for double occupancy in each residence hall. When a student can be accommodated only through overcrowding, there will be a 30% reduction in the rental rate for each student in the room. If you choose to room alone, provided space is available, you will be charged an additional \$772 per quarter. When a room is occupied less than one quarter, a charge is made for the actual number of days on a pro-rata basis. (See "Refund Policy".)

When you move out of the residence hall, the room will be inspected for reasonable cleanliness and normal wear. If necessary, charges for extra cleanup or repairs will be made at this time against your student account.

You will be issued a key upon occupancy of a residence hall room and will be expected to return it when you move out. Should the key be lost or not returned upon departure, a \$20

lost-key charge will be placed on your account.

Charges made to your long-distance telephone number cannot be billed on your monthly statement. (For further information, see the section entitled "Telephone Information" in this catalog.)

The College is not liable for damage or loss of your personal belongings. If you want insurance coverage for your possessions, you should arrange for it with your personal insurance carrier.

### **Student Family Housing**

Housing for married students and single parents is available on campus in two areas: Brookside Park and Court Place. To qualify for residence in these areas, applicants must be enrolled in a traditional on-campus program and complete a minimum of 12 hours of class work with a GPA of 2.0 or above each quarter.

Brookside Park includes 40 one- to three-bedroom apartments with carport. The Court Place apartments include 14 one- and three-bedroom duplex units with a one-car carport space adjacent. All apartments are furnished with stove, oven, refrigerator, window coverings and carpet.

Assignments are made on a first-come, first-served basis, established by a \$10 nonrefundable application fee. Information about housing for married students or single parents is available from Student Services, Pacific Union College, One Angwin Avenue, Angwin, CA 94508-9707.

The College is not liable for damage or loss of your personal belongings. If you want insurance coverage for your possessions, you should arrange it with your personal insurance carrier.

### **Health Insurance**

Pacific Union College does not provide a primary health insurance plan for students. It is the student's responsibility to have a primary health plan in place upon enrollment. If proof of a qualifying primary billable health insurance plan isn't received prior to on site attendance, students will be enrolled in and billed for a student health insurance plan that meets the requirements of the Affordable Care Act.

### **ID Cards**

Regular ID Cards provide identification for the following purposes: Dining Commons purchases, use of the college Library, transactions at the Financial Services Office and Records Office, special functions on campus, purchases by personal check at local businesses, and identification of students for campus security purposes.

Should a card be lost or stolen, notification must be made to the Financial Services Office before the student's obligation for

## Financial Information

any misuse of the card will end. A \$15 fee is charged to replace lost or stolen ID cards.

### College Bookstore

Books and supplies may be obtained at the College Bookstore on a cash basis. Purchases made with a personal check require a driver's license or a DMV ID card. VISA, MasterCard, American Express, and the Discover group may also be used for Bookstore purchases. Students may charge textbook and class supplies purchases to their College accounts.

### General Fee

All students registered for 6 or more quarter hours are required to pay this fee. The General Fee covers access to general on-campus medical and mental health services, as well as access to campus-wide technology solutions. Taskforce Workers, Student Missionaries, and Adventist Colleges Abroad students are exempt from paying this fee.

### Vehicle Registration

Students with vehicles to be parked on campus property are required to register each vehicle with the Public Safety Department. When registering a vehicle, information from the following documents is required: current DMV registration with state of residence, driver's license, and proof of current insurance. A parking permit will be provided upon completion of the registration process; this permit is unique to the registered vehicle and must be displayed properly at all times.

Pacific Union College assumes no liability or responsibility for any personal property while on college property. Parking on the campus is at your own risk. Pacific Union College reserves the right to close any area on campus as needed. Parking privileges may be revoked for excessive violations of California or Campus Vehicle Codes. Pacific Union College reserves the right to search a person's vehicle with reasonable cause. Vehicle registration information may be disseminated to appropriate college personnel or law enforcement authorities as necessary without notice.

### Banking and Security of Personal Possessions

You are advised not to keep money in your residence hall room. *The College does not assume any responsibility for the loss of money or other personal belongings left in rooms or elsewhere on campus.* Provision is made for students to deposit money for safe keeping at the Financial Services Office. The College does not provide banking services, and no interest accrues. (A charge of \$2 is made for reissuing lost passbooks.)

The Silverado Credit Union is conveniently located in the Angwin Plaza; students are invited to take advantage of its wide variety of financial services. An ATM is located at the Silverado

Credit Union. Additionally, you may use bank debit cards to get cash at the College Market.

### Cash Withdrawals

Students are expected not to request cash withdrawals from their accounts. Exceptions are ordinarily considered only in emergency situations or when a credit balance exists.

## International Students

International students are required to pay all costs for the upcoming quarter in advance. A deposit of \$1,000 is required before a Form I-20 is issued. This deposit will be held until the student ceases to attend Pacific Union College. The \$1,000 deposit can be applied to the student's final quarter at Pacific Union College. An additional \$200 Enrollment Fee is required from all students enrolling at Pacific Union College. (See "Enrollment Fee.")

International students on student visas do not qualify for loans and grants as detailed in the financial section. Campus employment, however, may be available. International students are expected to meet required payments for miscellaneous charges at registration and throughout the quarter just as other students do.

To determine the parents' or sponsor's ability to meet the educational costs without the need for financial aid, the applicant must also submit for review a bank statement showing a balance of \$47,571 US dollars drawn on an international bank. Further information is available from the Student Financial Services Office.

### Insurance for International Students

Because the cost of medical care in the United States is high in comparison to costs in other countries, all international students must have and maintain qualifying major medical insurance coverage. Upon registration, Pacific Union College automatically enrolls international students in an insurance plan that includes minimum coverage of at least \$150,000, medical evacuation and repatriation benefits.

*Automobile insurance* is required in the United States to cover liability for damages in the event of an accident. Severe penalties are imposed on the owner and driver of an uninsured vehicle should an accident occur.

## Course Fees

There are fees associated with a variety of courses. These fees are charged in order to cover specific costs that are incurred in the course (supplies, materials, equipment, testing, software, travel, etc). Fees may also be charged for breakage of laboratory equipment.

Fee charges are generated when you register for a course that has a fee associated with it. The following table provides an overview of the current fee structure. Please note that fees are subject to change at any time. In particular, fees charged for Nursing and Visual Art courses vary depending on current direct costs. For current fee information, contact the department in question.

### Aviation

AVIA 141: Applied Electronics ..... \$70

### Biology

All Biology lab courses ..... \$40

### Chemistry

All Chemistry lab courses ..... \$50

### Communication

JOUR 246: Videojournalism ..... \$150

### English

ENGL 210: Bay Area Theater ..... \$125

### Exercise Science

ESAC 160: Fencing ..... \$40

ESAC 192/392: Skiing/Snowboarding ..... Varies

ESAC 370: Lifeguard Training ..... \$35

ESTH 365: Outdoor Experience ..... \$35

### General Studies

GNST 104: Student Seminar ..... \$40

### Nursing & Health Sciences

EMER 104: EMT Basic I ..... \$60

EMER 105: EMT Basic II ..... \$130

EMER 180: Technical Rescue ..... \$225

EMER 273: Practicum ..... \$35

NURS 110: Introduction to Nursing ..... \$20

NURS theory and clinical courses ..... Varies

### Physics & Engineering

ENGR 131: Engineering Drawing ..... \$50

All lower-division Physics lab courses ..... \$30

### Psychology

PSYC 257: Psychological Testing ..... \$100

### Theology

RELB 335: Greek Exegesis ..... \$315

RELB 324: Ministry Colloquium ..... \$60

### Visual Arts

ARTD: Graphic Design courses ..... Varies

ARTF: Fine Art courses ..... Varies

ARTP: Photography courses ..... Varies

MDIA Film & TV Production courses ..... Varies

### World Languages & Cultures

LANG 491: Senior Seminar ..... \$140

### Flight Training

AVIA 176, 177, 178, 273, 276, 278, 376, 377, 378, 468, 469, 472, 473, 476, and 478 are flight training courses. Each flight training course requires a minimum number of flight training hours and certain pilot kit materials to complete the course. A catalog addendum is available to provide a detailed breakdown of the minimum required cost for each flight training course. Some students may require additional hours of flight training to complete the course requirements. These additional hours must be funded in addition to the minimum cost outlined in the addendum. For veteran students, VA funding does not cover any additional hours needed beyond the approved minimum amount; the student is responsible for the costs incurred by any such additional required training hours.

Rates may be adjusted during the school year if there is a significant change in the cost of fuel, insurance, etc.

After registration for a flight training course, the amount needed to pay for ten hours of instruction per credit hour is applied to the student's flight account at the Parrett Field Flight Center. Expenses for the flight simulator, the airplane and the instructor may be charged to that account. When the tuition credit has been used, additional funds must be applied to the account to maintain a positive balance until the course curriculum has been completed.

Flight training is to be completed within the quarter of registration for the AVIA course. Qualifying students will be given an in-progress (IP) if training is not completed within the quarter. The student then has one additional quarter to complete all course work. If the work is not completed within this time frame, a failing grade will replace the IP. For veteran students, any unused funding must be returned to the VA at this time.

Because of reduced tuition for summer courses, one-half tuition credit is applied to the flight account for instruction during the summer session.

### Private Music Lessons

Separate charges apply for private music lessons. Private music

## Financial Information

lessons are offered on either a credit or no-credit basis. Lessons missed because of a student's irregular attendance may not be made up. If a student withdraws within the first two weeks of the quarter, the fee will be pro-rated. After that no refunds will be given.

*Credit Lessons-* For credit lessons, non-music majors will be charged a private music lesson fee of \$250 per credit hour (nine 30-minute lessons) in addition to the normal tuition charge.

*Non-Credit Lessons-* Non-music majors will be charged a \$350 private music lesson fee for nine 30-minute lessons.

*Music Majors, Credit Lessons, Primary Instrument-* The private music lesson fee for primary instrument lessons will be waived for those music majors who are enrolled in Theory I (MUTH 121, 122, 123) or who have already taken these courses and are continuing to enroll in courses normally expected of majors. Additionally, at least 20 hours of documented practice hours per quarter are required to receive lessons at no charge and to maintain music major status. (See Music Student Handbook available from the Music Department Office for more information.) This fee waiver expires upon completion of degree requirements.

*Music Majors, Credit Lessons, Secondary Instrument-* For B.S. and A.S. music majors taking a secondary instrument, a \$125 private music lesson fee per credit hour will be charged in addition to the normal tuition charge. Additionally, at least 20 hours of documented practice hours are required or the full fee of \$250 per credit hour will be charged.

*Music Majors, Non-Credit Lessons-* Music majors taking non-credit lessons will be charged a \$250 private music lesson fee for nine 30-minute lessons.

### Miscellaneous Fees

#### Credit and Waiver Examinations

Credit and waiver examinations for particular classes may be prepared and administered by Pacific Union College faculty members. If you qualify to take a credit or waiver examination, you will be required to pay the fee prior to taking the examination. A fee of \$25 is assessed for a course waiver examination, and a fee of \$25 per credit hour is assessed for course credit by examination.

#### Final Examination Rescheduling Fee

It is expected that all students take final examinations when scheduled, but students may petition the academic dean for exceptions. Exceptions are granted for documented emergency situations or arduous examination schedules (as defined by the academic dean). Any exceptions granted for other reasons will incur a charge of \$100 per rescheduled final examination.

#### Graduation in Absentia Fee

It is expected that all graduates will participate in the commencement services unless the Records Office is notified in writing that the student plans to graduate *in absentia*. Written application for exemption should be made no later than one week prior to commencement. A fee of \$25 is assessed to any graduate who is absent from graduation without having given prior notice.

#### Late Registration Fee

A late registration fee of \$35 is assessed for any approved late registrations.

#### Overload Fees

All hours over 17.5 are charged at \$620 per hour, with the following exceptions:

*Ensemble Overload Scholarships* are available through the Music Department for students registered on a credit or audit basis who incur overload tuition charges as a result of enrolling in one or more of these courses.

*Senior Overload Waivers* are available for seniors who have enrolled at Pacific Union College for a minimum of 9 regular quarters and have successfully completed at least 16 credits per quarter. Students should apply the overload fee waiver at the Records Office.

#### Transcript and Diploma Fees

Each student at first enrollment is billed a one-time transcript fee of \$25. For this payment the student may request up to twenty-five paper copies of the official transcripts without additional charge. Additional copies beyond the first twenty-five are \$5 per copy. Official electronic transcripts are available through the National Student Clearinghouse for a charge of \$4 per copy.

Each graduate is provided with one diploma free of charge. Replacement diplomas are \$25 per diploma.

Any costs incurred for rush mailing of documents are added. Inquire at the Records Office for current rates.

## College Presidents

### At Healdsburg

Sidney Brownsberger 1882-1886\*  
 William C. Grainger 1886-1894\*  
 Frank W. Howe 1894-1897\*  
 Roderick S. Owen 1897-1899\*  
 Marion E. Cady 1899-1903\*  
 Elton D. Sharpe 1903-1904\*  
 Warren E. Howell 1904-1906\*  
 Lucas A. Reed 1906-1908\*

### At Angwin

C. Walter Irwin 1909-1921\*  
 William E. Nelson 1921-1934\*  
 Walter I. Smith 1934-1943\*  
 Henry J. Klooster 1943-1945\*  
 Percy W. Christian 1945-1950\*  
 John E. Weaver 1950-1954\*  
 Henry L. Sonnenberg 1954-1955\*  
 Ray W. Fowler 1955-1963\*  
 Floyd O. Rittenhouse 1963-1972\*  
 John W. Cassell, Jr. 1972-1983  
 D. Malcolm Maxwell 1983-2001\*  
 Richard C. Osborn 2001-2009  
 Heather J. Knight 2009-

\*Deceased

## College Trustees

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 President, Generations LLC  
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 Lead Attorney and Senior Counsel,  
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 Pacific Union Conference  
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 Founding Member, Chief Development  
 Officer, Med Play Technologies  
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 CREAL, Stanford University  
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 President, Nevada-Utah Conference  
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 Attorney, Herold & Herold L.L.C.

\*\**Ex Officio*

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 CSU Los Angeles  
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 President & CEO, St. Helena Hospital  
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 Archie Tonge Education Foundation  
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 Clinical Director of Pediatrics,  
 Community Health Clinic Ole  
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 Director of Legislative Affairs,  
 General Conference  
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 Mercy Housing, Inc.  
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 Pacific Union Conference  
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 President, Hawaii Conference

## College Personnel

### College Administration

Heather J. Knight, Ph.D. *President*  
*Pacific Union College*

JoAnn Bowen Executive Assistant  
Cherith Mundy, M.S.Ed. Executive Assistant  
Serhii Kalynovs'kyi, M. S. Director, Institutional Research

### Academic Administration

Nancy Hoyt Lecourt, Ph.D. *Vice President*  
*for Academic Administration and Academic Dean*

Jonathan S. Bradley, B.A. Assistant Registrar  
William R. Chunestudy, D.M.A. Associate Academic Dean  
for Distance and Adult Learning

Eva Dickerson, M.B.A. Academic Records Specialist  
Tanya J. Healy, B.A. Executive Assistant  
Tauva Hellie, B.A. Assistant to the Associate Academic Dean  
Georgina Hill, Ph.D. Director, Honors Program  
Nancy R. Jacobo, M.P.H. Coordinator,  
Disabilities Support Services

Edwin L. Moore, Ph.D. Associate Academic Dean and  
Director, English Language Programs

Leticia Russell, M.A. Coordinator, Freshman  
Academic Success Program

Beth Setterlund, B.A. Assistant Registrar  
Maria G. Vance, B.S. Director, Academic Computing  
Jennifer J. Wareham Best, M.A. Director,  
Teaching and Learning Center

Marlo J. Waters, Ed.D. Registrar and Director,  
Academic Records

### Financial Administration

Dave C. Lawrence, Ed.D., M.B.A. *Vice President*  
*for Financial Administration and Chief Financial Officer*

Christopher S. Ames, B.B.A. Assistant Controller  
Lila Cervantes, B.S.M. Prospective Student Financial Advisor  
Iris Chuah, M.B.A. Director, Human Resources  
Rebecca J. Evans, B.S. Student Financial Services Counselor  
Geraldine C. Glantz, B.A. Collections and Program Analyst  
Jessica K. Kegley, B.A. Student Financial Services Counselor  
Sheri L. Miller, B.S. Student Financial Services Counselor  
Debbie S. Stewart, B.S. Executive Assistant  
S. Jolié Trogdon, B.B.A. Associate Vice President  
for Financial Administration

Laurie L. Wheeler, M.B.A. Director,  
Student Financial Services  
L. Fredrick Whiteside Student Financial Services Counselor

### Student Services

Lisa Bissell Paulson, Ed.D. *Vice President*  
*for Student Services and Dean of Students*

Jeremy Barnes, B.S., B.S.N. Assistant Dean of Men  
Lunelle Bertresse, M.S.W. Assistant Dean of Women  
James I. Boyd, Jr., B.S. Dean of Men  
Hernan Granados, M.Div. Associate Dean of Men  
Jonathan Henderson, B.A. Campus Chaplain  
Jaime Herman, M.A. Summer Groups Coordinator/  
Administrative Assistant  
Kristi R. Horn, M.S. Associate Dean of Women  
Michael Jefferson, M.A. Director, Counseling Center  
Norman Knight, D.Min. Outreach Chaplain  
Fabio Maia, B.A. Service and Mission Coordinator  
Judy Ness, M.S.W., L.C.S.W. Counselor  
Mark W. Pacini, A.S. Housing Coordinator  
Crista Peterson, M.S.W. Executive Assistant and  
International Student Advisor  
Gena Philpott, B.A. Associate Dean of Women  
Sandra Sargent, R.N. Director, Health Services  
Shantel Smith, M.Div. Assistant Chaplain  
Sean Westenrider, B.S. Director, Public Safety  
Douglas S. Wilson Director, Student Activities  
Janice R. Wood, M.A. Associate Dean of Students and  
Director of Residence Life

### Enrollment Management and Public Relations

Jennifer Tyner, M.A. *Vice President*  
*for Enrollment Management and Marketing*

Candice Carstens, B.A. Admissions Specialist  
Lila Cervantes, B.S.M. Prospective Student Financial Advisor  
Larissa Church, B.A. Director, Public Relations  
Alexandra Dunbar, B.S. Enrollment Counselor  
Dana Howard, B.S. Executive Assistant & Visit Coordinator  
Nicholas Hubbard, B.S. Webmaster  
Cameron Mitchell, B.F.A. Junior Graphic Designer  
Dana Negro, B.S. Communications Specialist  
Craig E. Philpott, B.S.M. Director, Admissions  
Brennan Puiia, B.S. Recruitment Programs Manager/  
Enrollment Counselor

J.R. Rogers, B.S. Director, Recruitment  
 Clifford M. Rusch, M.F.A. Art Director  
 Haley Wesley, B.F.A. Director, Creative Services

## College Advancement

Walter Collins, B.A. *Vice President for Advancement*  
 Christina Im, B.A. Office Coordinator  
 for Alumni & Advancement  
 Eckhard Hubin, M.Div. Director, Planned Giving  
 Mark Ishikawa, M.A. Associate Vice President of  
 Advancement and Strategic Partnerships  
 Karen A. Roth, A.S. Administrative Assistant  
 Trust Officer, Planned Giving  
 Carrie White (Moore), B.S. Executive Assistant  
 for Alumni & Advancement

## Institutional Support Services

Dennis Elkins, B.S. Assistant Director, ITSS  
 Jon A. Falconer, B.A. Internet Services  
 Roland Haylock, B.S. Programmer  
 Rico D. Mundy, B.A. Associate Director, ITSS  
 Maria G. Vance, B.S. Director, ITSS

## Library

Eric Anderson, Ph.D. Director, Walter C. Utt Center for  
 Adventist History and Research & Media Center  
 Junior Artigas, B.S. Director, Media Services  
 Patrick Benner, M.L.I.S. Computer System and  
 Reference Librarian  
 Joel H. Lutes, M.L.S. Chair, Electronic Resources and  
 Reference Librarian  
 Linda E. Maberly, M.L.I.S. Cataloger and Collection  
 Development Librarian  
 Katy Van Arsdale, M.L.I.S. Special Collections and  
 Reference Librarian

## Auxiliary Enterprises and Services

Ada M. Funes Rusch, B.S. Director, Discoveryland  
 Children's Center, Angwin  
 Arthur B. Goulard, B.A. Director, Landscape  
 Geoffrey Hilton, B.S. Manager, Albion Retreat  
 and Learning Center  
 Miguel A. Irula Director, Custodial Service  
 Katie A. Keener, B.S. Director, Discoveryland  
 Children's Center, St. Helena

Mark W. Pacini, A.S. Housing Coordinator  
 Kaye L. Varney, B.S. Director, Flight Center  
 Robert B. Wilson Director, Copy Center and Mail Services  
 Dale L. Withers, B.S.M. Director, Facilities Management  
 Allan L. Zehm, B.S. Director, Land Management

## Howell Mountain Enterprises

*A Wholly Owned Subsidiary of Pacific Union College*

Dave C. Lawrence, Ed.D., M.B.A. *President*  
 Heather J. Knight, Ph.D. Chair, Board of Directors  
 Iris Chuah, M.B.A. Secretary  
 Rob J. Payne, B.S. Manager, Hardware  
 Charles E. Stout, M.Div. Manager, Market  
 Pat A. Withers, B.S.M. Assistant Manager, Chevron Station  
 S. Jolié Trogon, B.B.A. Treasurer

## Professors and Administrators Emeriti

Earl M. J. Aagaard, Ph.D., *Professor Emeritus of Biology*. B.A., Pacific Union College, 1969; M.A., Pacific Union College, 1971; Ph.D., Colorado State University, 1982. (1982)

Eric D. Anderson, Ph.D., *Professor Emeritus of History*. B.A., Andrews University, 1970; M.A., University of Chicago, 1972; Ph.D., University of Chicago, 1978. (1975, 2015)

Warren S. Ashworth, Ph.D., *Professor Emeritus of Religion*. B.A., La Sierra College, 1961; M.A., Andrews University, 1962, 1969; Ph.D., Andrews University, 1986. (1984)

Charlene Bainum, Ph.D., *Professor Emerita of Psychology*. B.A., Andrews University, 1975; Ph.D., University of Tennessee, 1979. (1980-86; 2000)

Bruce D. Bainum, Ph.D., *Professor Emeritus of Psychology*. B.A., Pacific Union College, 1975; Ph.D., University of Tennessee, 1979. (1979)

Charles V. Bell, Ph.D., P.E., *Vice President Emeritus for Academic Administration and Academic Dean Emeritus*. B.S.E.E., Mississippi State University, 1956; M.S.E.E., Stanford University, 1957; Ph.D., Stanford University, 1960. (1984)

Paul F. Bork, Ph.D., *Professor Emeritus of Religion*. B.A., Pacific Union College, 1950; M.A., Seventh-day Adventist Theological Seminary, 1952; B.D., Andrews University, 1961; Ph.D., California Graduate School of Theology, 1971. (1967)

Rosario Caballero-Chambers, M.A., *Professor Emerita of Spanish*. B.A., M.A., University Pedro Ruiz Gallo (Peru), 1973. (1997)

## College Personnel

**Del W. Case, D.M.A.,** *Professor Emeritus of Music.* B.A., La Sierra College, 1960; M.Mus., University of Southern California, 1967; D.M.A., University of Southern California, 1973. (1964)

**James D. Chase, D.Min.,** *Professor Emeritus of Communication.* B.A., Pacific Union College, 1969; M.Div., Andrews University, 1972; D.Min., Andrews University, 1977. (1983)

**Lloyd E. Eighme, Ph.D.,** *Professor Emeritus of Biology.* B.A., Pacific Union College, 1951; M.A., Pacific Union College, 1953; Ph.D., Oregon State University, 1965. (1958)

**Mary Margaret Eighme, M.S.,** *Professor Emerita of Family and Consumer Sciences.* B.S., Pacific Union College, 1950; M.S., Oregon State University, 1965. (1958)

**Ralph Escandon, Ph.D.,** *Professor Emeritus of Spanish.* B.A., Union College, 1957; M.A., University of Nebraska, 1960; Ph.D., Universidad Interamerica, 1968. (1968)

**Herbert P. Ford, M.A.,** *Professor Emeritus of Journalism.* B.A., Pacific Union College, 1954; M.A., California State University, Northridge, 1974. (1974-1983; 1984)

**Lorne E. Glaim, Ph.D.,** *Professor Emeritus of History.* B.A., Walla Walla College, 1964; M.A., Washington State University, 1966; Ph.D., Washington State University, 1973. (1986)

**Marilyn S. Glaim, Ph.D.,** *Professor Emerita of English.* B.A., Washington State University, 1967; M.A., Washington State University, 1973; Ph.D., Washington State University, 1991. (1986)

**Adolph G. Grams, M.Ed.,** *Dean of Men Emeritus.* B.S., Andrews University, 1961; M.Ed., Oregon State University, 1968. (1967)

**Donald R. Halenz, Ph.D.,** *Professor Emeritus of Chemistry.* B.A., Emmanuel Missionary College, 1957; M.S., Ph.D., Virginia Polytechnic Institute, 1961. (1979)

**William M. Hemmerlin, Ph.D.,** *Professor Emeritus of Chemistry.* B.A., Loma Linda University, 1968; M.A., Ph.D., University of California, Irvine, 1973. (1979)

**Angel M. Hernandez, Ph.D.,** *Professor Emeritus of New Testament and Theology.* B.A., Antillian College, 1975; M.A., Andrews University, 1977; Ph.D., Andrews University, 2002.

**Alice L. Holst, Ed.D.,** *Honorary Professor Emerita of Secretarial Studies.* B.A., Washington Missionary College, 1939; M.A., Columbia University, 1947; Ed.D., Columbia University, 1956. (1948)

**Thomas N. Hopmann, M.B.A.,** *Vice President Emeritus for Financial Administration.* B.A., California State University, Sacramento, 1961; M.B.A., California State University, Sacramento, 1971. (1976)

**Bruce E. Ivey, Ed.D.,** *Professor Emeritus of Computer Science and Physics.* B.A., Andrews University, 1969; M.S., Montana State University, 1988; Ed.D., Montana State University, 1992. (1992)

**Henry W. Kopitzke, J.D., M.B.A., CPA,** *Professor Emeritus of Business Administration.* B.S., Loma Linda University, 1968; M.B.A., University of Wisconsin, 1972; CPA, State of Wisconsin, 1972; J.D., University of Idaho, 1980. (1973)

**W. James McGee, Ph.D.,** *Professor Emeritus of Music.* B.A., Andrews University, 1961; M.Mus., Indiana University, 1973; Ph.D., University of Arizona, 1982. (1974)

**James R. Mercer, Ph.D.,** *Professor Emeritus of Music.* B.A., Andrews University, 1952; M.A., University of Minnesota, 1962; Ph.D., University of Colorado, 1972. (1965)

**Kenneth L. Millard, Ph.D.,** *Professor Emeritus of Biology.* B.A., Pacific Union College, 1964; B.D., Andrews University, 1967; M.A., Pacific Union College, 1971; Ph.D., Loma Linda University, 1981. (1971-1973; 1977)

**Marvin K. Mitchell, Ed.D.,** *Professor Emeritus of Education.* B.A., Loma Linda University, 1963; M.Ed., Walla Walla College, 1976; Ed.D., University of the Pacific, 2000. (1990)

**H. Susi Mundy, M.A.,** *Registrar Emerita.* B.A., Southern Missionary College, 1966; M.A., J. F. Kennedy University, 1983. (1978)

**William C. Mundy, Ph.D.,** *Professor Emeritus of Physics.* B.S., Southern Missionary College, 1962; M.A.T., Vanderbilt University, 1963; Ph.D., Iowa State University, 1972. (1975)

**Gilbert J. Muth, Ph.D.,** *Professor Emeritus of Biology.* B.A., Pacific Union College, 1961; M.A., Pacific Union College, 1967; Ph.D., University of California, Davis, 1976. (1966)

**Sherman A. Nagel, Jr., M.D.,** *Professor Emeritus of Biology.* B.A., Pacific Union College, 1939; M.D., D.N.B., Loma Linda University, 1940. (1969)

**LeRoy H. Peterson, M.Mus.,** *Professor Emeritus of Music.* B.A., Columbia Union College, 1961; M.Mus., Peabody Conservatory, 1963. (1983)

**Burton A. Pontynen, Ed.D.,** *Professor Emeritus of Industrial Education.* B.S., Stout Institute, 1951; M.S., Stout Institute 1953; Ed.D., Arizona State University, 1973 (1953)

**William R. Price, M.A.,** *Associate Professor Emeritus of Technology.* B.A., Pacific Union College, 1967; M.A., Pacific Union College, 1969. (1976)

**Richard D. Rockwell, Ph.D.,** *Professor Emeritus of Mathematics.* B.S., B.A., Pacific Union College, 1967; M.A., University of California, Berkeley, 1969; Ph.D., University of California, Berkeley, 1973. (1969)

**Kathryn S. Schneider, R.N., M.S.,** *Professor Emerita of Nursing.* B.S., Southern College of Seventh-day Adventists, 1969; M.S., Loma Linda University, 1976. (1984)

**Gary W. Shearer, M.L.,** *Librarian Emeritus.* B.A., Union College, 1965; M.L., Emporia State University, 1969. (1983)

**John M. Staples, D.Th. [P],** *Professor Emeritus of Religion.* B.A., Pacific Union College, 1954; M.A., Andrews University, 1955; B.D., Andrews University, 1957; Th.M., Princeton Theological Seminary, 1966; D.Th. [P], Fuller Theological Seminary, 1969. (1969)

**Paul Stauffer, Ph.D.,** *Professor Emeritus of English.* B.A., Pacific Union College, 1941; M.A., Pacific Union College, 1944; Ph.D., Harvard University, 1952. (1942)

**Lary J. Taylor, M.B.A.,** *Associate Professor Emeritus of Business Administration.* B.S., Union College, 1969; M.B.A., University of Maryland, 1976. (1978)

**N. Gordon Thomas, Ph.D.,** *Professor Emeritus of History.* B.A., Andrews University, 1956; M.A., Ohio University, 1958; Ph.D., Michigan State University, 1967. (1967)

**Kenneth A. Thomson, Ph.D.,** *Professor Emeritus of Physics and Computer Science.* B.Sc., London University, 1954; Dip.Ed., Melbourne University, 1959; Ph.D., Newcastle University, 1969. (1977-1979; 1982)

**E. Wayne Tillay, Ph.D.,** *Professor Emeritus of Chemistry.* B.A., Pacific Union College, 1950; M.S., Stanford University, 1952; Ph.D., Louisiana State University, 1967. (1960)

**Ivlynn R. Traver, M.A., M.L.S.,** *Instructor Emerita of Violin, Paulin Center for the Creative Arts.* B.A., Pacific Union College, 1953; M.A., San Francisco State College, 1961; M.L.S., San Jose State University, 1983. (1953)

**Terrence L. Trivett, Ph.D.,** *Professor Emeritus of Biology.* B.A., Southern Missionary College, 1964; Ph.D., University of Oregon, 1969. (1968)

**Nancy L. Tucker, R.N., Ph.D.,** *Professor Emerita of Nursing.* B.S., Walla Walla College, 1970; M.S., California State University, Sacramento, 1990; Ph.D., Andrews University, 2000. (1986)

**James R. Van Hise, Ph.D.,** *Professor Emeritus of Chemistry.* B.S., Walla Walla College, 1959; Ph.D., University of Illinois, 1963. (1972)

**Richard T. Voth, Ph.D.,** *Professor Emeritus of Business Administration.* B.A., Pacific Union College, 1964; M.A., Pacific Union College, 1965; M.B.A., University of California, Los Angeles, 1967; Ph.D., Arizona State University, 1974. (1968)

**Verne V. Wehtje, Ph.D.,** *Professor Emeritus of English.* B.A., Walla Walla College, 1956; M.A., University of Washington, 1962; Ph.D., University of Nebraska, 1967. (1969-1976; 1985)

**Evaline E. West, M.S.W., A.C.S.W.,** *Professor Emerita of Social Work.* B.S., Union College, 1957; M.A., Andrews University, 1962; M.S.W., San Diego State University, 1971. (1979)

**Adugnaw Worku, M.A., M.S.L.S.,** *Librarian Emeritus.* B.A., Avondale College, 1975; M.A., Andrews University, 1977; M.A., Andrews University, 1978; M.S.L.S., University of Southern California, 1984. (1985)

**Barbara J. Youngblood, Ph.D.,** *Professor Emerita of English.* B.A., Pacific Union College, 1947; M.A., Arizona State University, 1966; Ph.D., Arizona State University, 1983. (1972)

### Faculty Directory

**Eric D. Anderson, Ph.D.,** *Professor of History.* B.A., Andrews University, 1970; M.A., University of Chicago, 1972; Ph.D., University of Chicago, 1978. (1975, 2015)

**Vola M. Andrianarijaona, Ph.D.,** *Professor of Physics.* B.A., Universite Paris XIII, 1995; M.A., Universite Paris VII, 1996; M.A. Universite Paris VIII, 1997; Ph.D., Universite Catholique de Louvain, 2002. (2006)

**Lance S. Bain, M.S.N.,** *Assistant Professor of Nursing.* . A.S.N., Napa Valley College, 1986, B.S.N., University of Phoenix, 2009; M.S.N., University of Phoenix, 2011. (2012)

**Stephane A. Beaulieu, Ph.D.,** *Assistant Professor of Old Testament.* B.A., Canadian University College, 2001; M.A., Global University, 2008; Ph.D., Andrews University, 2014. (2015)

**David R. Bell, M.S.B.A., M.I.S.,** *Associate Professor of Business Administration.* B.S.E., Walla Walla College, 1987. M.S.B.A.: M.I.S., California State University Sacramento, 1999. (1987-89; 1990)

## College Personnel

**Patrick A. Benner, M.L.I.S., Librarian.** B.S., Pacific Union College, 1984. M.L.I.S., San Jose State University, 2006. (1997)

**Roy A. Benton, Ph.D., Professor of Mathematics.** B.A., Andrews University, 1971; Ph.D., University of Michigan, Ann Arbor, 1985. (2004)

**Rachelle M. Berthelsen Davis, D.M.A., Professor of Music.** B.S., Pacific Union College, 1994; M.M., Indiana University, Bloomington, 1998; D.M.A., University of Texas, Austin, 2004. (2005).

**Lloyd E. Best, M.A., Associate Professor of Mathematics.** B.A., University of California, Los Angeles, 1969; M.A., Pacific Union College, 1973. (1979-1982; 1988)

**Lisa Bissell Paulson, Ed.D., Assistant Professor of Education.** B.A., Walla Walla College, 1981; M.Ed., Walla Walla College, 1983; Ed.S., Loma Linda University, 1987; Ed.D., Loma Linda University, 1990; M.A., California Polytechnic Institute, Pomona, 1995. (1995)

**Chantel C. Blackburn, Ph.D., Associate Professor of Mathematics.** B.S., Andrews University, 2006; M.S., University of Arizona, 2009; Ph.D., University of Arizona, 2014. (2012)

**Wayne Buckhanan, Ph.D., Associate Professor of Computer Science.** B.S., Andrews University, 1999; M.S.E.E., University of Notre Dame, 2008; Ph.D., University of Notre Dame, 2013. (2013)

**Jean G. Buller, Ed.D., Professor of Education.** B.A., Pacific Union College, 1972; M.A., Pacific Union College, 1985; Ed.D., University of the Pacific, 2003. (1988)

**Susan M. Bussell, R.N., D.N.P., Associate Professor of Nursing.** B.S., Loma Linda University, 1993; M.S., University of California, San Francisco, 1999; D.N.P., Loma Linda University, 2013. (2005)

**Jon A. Carstens, M.A., Associate Professor of Art History.** B.A., University of Redlands, 1976; M.A., University of California, Riverside, 1979. (1979-2004, 2014)

**Serah Choi, R.N., M.S.N., Assistant Professor of Nursing.** B.S.N., Pacific Union College, 2008; M.S.N., Loma Linda University, 2012. (2013)

**Kim-Liang Chuah, Ph.D., Professor of Business Administration and Economics.** B.S., University of the Philippines, 1980; M.A., University of the Philippines, 1982; Ph.D., Washington State University, 1992. (2015)

**Rosemary H. Collins, M.A., Assistant Professor of Communication.** B.A., Pacific Union College, 1969; M.A., Prescott College, 2001. (2003)

**Amy Cronk, M.A.A.T., Assistant Professor of Fine Art .** B.F.A., La Sierra University, 2009; M.A.A.T., School of the Art Institute of Chicago, 2011. (2011)

**Marsha L. Crow, M.A., Associate Professor of Education.** B.S., Pacific Union College, 1972; M.A., Boise State University, 1979. (1979)

**Cheryl P. Daley, B.A., Instructor of Fine Art.** B.A., Pacific Union College, 1963. (2004)

**Kent A. Davis, Ph.D., Professor of Chemistry.** B.S., Andrews University, 1992; Ph.D., Indiana University, 1998. (2002)

**Diana M. Diaz, M.S.N., Assistant Professor of Nursing.** A.D.N., Antillean Adventist University, 1989; B.S.N., Antillean Adventist University, 1991; M.S.N., Pontifical Catholic University. (2016)

**Tim de la Torre, B.S., Resident Artist of Visual Arts.** B.S., Pacific Union College, 2006. (2013)

**Hilary E.L. Dickerson, Ph.D., Professor of History.** B.A., Walla Walla College, 2002; M.A., Washington State University, 2004; Ph.D., Washington State University, 2011. (2007)

**Ileana Douglas, M.A., Associate Professor of History.** B.A., University of Puerto Rico, 1968; M.A., New York University, 1975; Ph.D. Candidate, University of Valladolid, Spain. (1999)

**John C. Duncan, Ph.D., Professor of Biology.** B.S., Andrews University, 1991. Ph.D., Loma Linda University, 1998. (2000)

**Charles G. Evans, M.A., Associate Professor of Physical Education.** B.S., Pacific Union College 1977; M.A., Pacific Union College, 1980. (1989)

**Abram Y. Fisher, J.D., Assistant Professor of Business Administration.** B.S., Pacific Union College, 2007; J.D., University of Maryland, 2011. (2014)

**Meghan Gainer, M.S.N., Assistant Professor of Nursing.** B.B.A., Pacific Union College, 2006; A.S.N., Pacific Union College, 2008; B.S.N., Pacific Union College, 2013; M.S.N., Grand Canyon University, 2015. (2015)

**Victor W. Gaines, M.B.A., Assistant Professor of Business Administration.** B.S., Park College, 1997; M.B.A., Webster University, 1999. (2015)

**Linda L. Gill, Ph.D.**, *Professor of English*. B.A., Andrews University, 1984; M.A., La Sierra University, 1986; Ph.D., University of California, Riverside, 1992. (1993)

**Beverly R. Glover, D.N.P.**, *Associate Professor of Nursing*. B.S.N., Pacific Union College, 1987; M.S., Sonoma State University, 1994; D.N.P., Brandman University, 2014. (2010)

**Rodney O. Hardcastle, M.B.A., CPA**, *Professor of Business Administration*. B.S., Pacific Union College, 1977; M.B.A., Golden Gate University, 1989; CPA, State of Washington, 1980; CPA, State of California, 1984. (1989)

**Raulton Haye, M.S.** *Assistant Professor of Physics and Engineering*. B.S., Howard University, 2000; M.S., University of Rhode Island, 2004. (2014)

**Floyd E. Hayes, Ph.D.**, *Professor of Biology*. B.S., Loma Linda University, 1985; M.S., University of Michigan, 1986; Ph.D., Loma Linda University, 1993. (2003)

**Pauline P. Headley, M.S.N.**, *Assistant Professor of Nursing*. B.S.N., Northern Caribbean University, 1990; M.S.N., Kaplan University, 2013. (2014)

**Janae Hellie, M.A.**, *Instructor of Psychology*. B.S., Pacific Union College, 2012; M.A., Sonoma State University, 2015. (2016)

**Michael L. Hellie, M.A.**, *Assistant Professor of Physical Education*. B.S., Walla Walla College, 1983; M.A., California State University, Chico, 1990. (1990)

**Shelton S. Herbert, Ph.D.**, *Associate Professor of Biology*. B.A., Southern Adventist University, 1992; M.S., Loma Linda University, 1998; Ph.D., Loma Linda University, 2007. (2011)

**Pablo C. Hilario, Ph.D.**, *Professor of Chemistry*. B.S., University of the Philippines, 1996; M.S., University of Connecticut, 2004; Ph.D., University of Connecticut, 2005. (2011)

**Georgina P. Hill, Ph.D.**, *Professor of English*. B.A., Atlantic Union College, 1977; M.A., Andrews University, 1979; Ph.D., Purdue University, 1988. (2010)

**Alisa Jacobo, M.S.W.**, *Instructor of Social Work*. B.A., B.S.W., Pacific Union College, 2009; M.S.W., University of Michigan, 2012. (2013)

**Kathleen G. Jefferson, M.S.**, *Assistant Professor of Education*. B.S., Columbia Union College, 1991; M.S., Johns Hopkins University, 2001. (2014)

**Jefferson K. Joiner, M.S.N.**, *Associate Professor of Nursing*. A.S., Southern Adventist University, 1980; B.S.N., Southwestern Adventist University, 1986; M.S.N., University of Kentucky, 1996. (2015)

**D. Roxanne Josse, D.N.P.**, *Assistant Professor of Nursing*. B.S.N., Texas Woman's University, 1991; M.S.N., Texas Tech University, 2011; D.N.P., Samuel Merritt University, 2015. (2011)

**Sara Kakazu, Ph.D.**, *Associate Professor of English*. B.A., Walla Walla College, 2002; M.A., Western Washington University, 2004; Ph.D., University at Buffalo, SUNY, 2012. (2008)

**Peter Katz, Ph.D.**, *Assistant Professor of English*. A.S., Pacific Union College, 2010; B.A., Pacific Union College, 2010; Ph.D., Syracuse University, 2015. (2015)

**Young-Chun Kim, M.Div.**, *Assistant Professor of Systematic Theology*. B.A., Andrews University, 2000; M.Div., Andrews University, 2004. (2010)

**Heather J. Knight, Ph.D.**, *Professor of English*. B.A., Oakwood University, 1982; M.A., Loma Linda University, 1984; Ph.D., Stanford University, 1991. (2009)

**Brian Kyle, B.S.**, *Instructor of Photography*. B.S., Pacific Union College, 2004. (2012)

**Dave Lawrence, Ed.D.**, *Associate Professor of Business Administration*. B.A., Northern Caribbean University, 1985; M.B.A., California State University, 1993; Ed.D., La Sierra University, 2010. (2010)

**Thomas D. Lee, M.S.**, *Associate Professor of Education*. B.A., Union College, 1975; M.S., Walla Walla College, 1988. (2006)

**Denise Lee-Haye, Ph.D.**, *Assistant Professor of Chemistry*. B.A., Connecticut College, 2004; Ph.D., University of Connecticut, 2011. (2011)

**Nancy Hoyt Lecourt, Ph.D.**, *Professor of English*. B.A., Loma Linda University, 1973; M.A., Loma Linda University, 1974; Ph.D., University of New Hampshire, 1999. (1979-1981; 1984)

**Helene Linzau, M.S.N.**, *Assistant Professor of Nursing*. B.S., Loma Linda University, 1996; B.S.N., Pacific Union College, 2000; M.S.N., University of San Francisco, 2012. (2009)

**Charaine F. Lucas, Ed.D.**, *Associate Professor of Education*. B.S., University of West Indies, 1991; B.A., Andrews University, 1994; M.S., Barry University, 2001; Ed.D., Jones International University, 2014. (2011)

## College Personnel

**Joel H. Lutes, M.L.S., Librarian.** B.A., Pacific Union College, 1981; M.L.S., San Jose State University, 1982. (1982)

**Linda E. Maberly, M.L.I.S., Librarian.** B.A., Walla Walla College, 1977; M.L.I.S., University of California, Berkeley, 1982. (1987)

**Milbert C. Mariano, M.F.A., Professor of Graphic Design.** B.S., Pacific Union College, 1991; M.F.A., Academy of Art College, 2000. (1995)

**Paul E. McGraw, Ph.D., Professor of History.** B.A., Columbia Union College, 1983; M.Div., Andrews University, 1990; M.A., George Mason University, 1996; Ph.D., George Washington University, 2003. (2000)

**Tammy McGuire, Ph.D., Professor of Communication.** B.A., Union College, 1984; M.A., Eastern Washington University, 1998; Ph.D., University of Missouri, Columbia, 2006. (2006)

**Edwin L. Moore, Ph.D., Associate Professor of English as a Second Language.** B.S., Pacific Union College, 1971; M.A., University of Hawaii, 1974; Ph.D., Claremont Graduate University, 2013. (1997)

**Howard A. Munson IV, Ph.D., Associate Professor of History.** B.A., Walla Walla College, 2002; M.A., Portland State University, 2006; Ph.D., Washington State University, 2012. (2006-2007; 2012)

**Allison T. Musvosvi, M.A., Instructor of Psychology.** A.S., Yuba College, 2009; B.S., Pacific Union College, 2012; M.A., California State University, 2015. (2015)

**Keith Neergaard, Ph.D., Professor of Business Administration.** B.B.A., Pacific Union College, 1984; Ph.D., University of California, Irvine, 1994. (1988)

**Bryan D. Ness, Ph.D., Professor of Biology.** B.S., Walla Walla College, 1983; M.S., Walla Walla College, 1985; Ph.D., Washington State University, 1992. (1989)

**Elaine P. Neudeck, M.A., Assistant Professor of Physical Education.** B.A., Pacific Union College, 1976; M.A., Pacific Union College, 1978. (1991)

**John Nunes, Ph.D., Professor of Business Administration.** B.S., University of Tennessee, Chattanooga, 1981; M.B.A., Old Dominion University, 1983; Ph.D., Capella University, 2009. (2011)

**Marie Pak, Ph.D., Professor of Chemistry.** B.S., Indiana University, 1988; M.S., Ph.D., Albert Einstein College of Medicine, 1993. (1999)

**Christian R. Pancorbo Cruz, M.Ed., Assistant Professor of Spanish.** B.A., University of Valencia, 2010; M.Ed., University of Valencia, 2014. (2015)

**Laurie Parson, M.S., Assistant Professor of Nursing.** B.S., Utah State University, 1993; B.S.N., Walla Walla College, 1996; M.S., Ball State University, 2012. (2009)

**Robert A. Paulson, Jr., Ph.D., Professor of Physical Education.** B.S., Andrews University, 1981; M.A., Sonoma State University, 1999; Ph.D., Andrews University, 2010. (1994)

**Liss Poirer, M.S.N., Assistant Professor of Nursing.** A.S.N., Pacific Union College, 2001; B.S.N., Pacific Union College, 2003; M.S.N., Sonoma State University, 2010. (2006-2010; 2012)

**Asher Raboy, M.F.A., Resident Artist of Music.** B.A., State University of New York, Binghamton, 1978; M.F.A., Carnegie-Mellon University, 1981. (2008)

**Michelle L. Rai, M.S., Assistant Professor of Communication.** B.A., Pacific Union College, 1993; B.S., Pacific Union College, 1997; M.S., Golden Gate University, 2007. (2006)

**Maria S. Rankin-Brown, Ph.D., Professor of English.** B.S., Pacific Union College, 1995; M.A., University of Northern Colorado, 1997; Ph.D., Indiana University of Pennsylvania, 2005. (2006)

**Sylvia B. Rasi Gregorutti, Ph.D., Professor of Modern Languages.** B.A., Andrews University, 1989; M.S., Georgetown University, 1991; Ph.D., Georgetown University, 2002. (1993)

**G. Rosalie Rasmussen, M.Mus., Assistant Professor of Music.** B.Mus., Andrews University, 1980; M.Mus., Andrews University, 1981. (2005)

**Heather A. Reid, Ph.D., Professor of English.** B.A., Canadian Union College, 1997; M.A., University of Victoria, 2003; Ph.D., University of Victoria, 2011. (2008)

**James Robertson, M.S., Associate Professor of Physics.** B.S., Southern College of Seventh-day Adventists, 1991; M.S., Florida State University, 1994. (2003)

**James H. Roy, Ed.D., Professor of Education.** B.S., Pacific Union College, 1977; M.A.T., Andrews University, 1978; Ed.S., La Sierra University, 1989; Ed.D., La Sierra University, 2006. (2000)

**Shana L. Ruggenberg, R.N., Ed.D., Professor of Nursing.** A.S., Pacific Union College, 1983; B.S., Pacific Union College, 1989; M.S.N., University of California, Los Angeles, 1993. Ed.D., University of San Francisco, 2008. (2000)

**Clifford M. Rusch, M.F.A.**, *Professor of Graphic Design*. B.S., Pacific Union College, 1980; M.F.A., Academy of Art University, 2004. (1987)

**Leticia Russell, M.A.**, *Assistant Professor of General Studies*. B.S., Pacific Union College, 1993; M.A., University of California, Davis, 1998. (2007)

**Esperanza Sánchez, Ph.D.**, *Assistant Professor of Social Work*. B.A., University of California, Davis, 2000; M.S.W., University of California, Berkeley, 2002; Ph.D., University of California, Berkeley, 2011. (2014)

**Vicki Saunders, M.S.**, *Assistant Professor of Nutrition*. B.S., Loma Linda University, 1975; M.S., Ohio State University, 1979. (2011)

**A. Gregory Schneider, Ph.D.**, *Professor of Religion and Social Science*. B.A., Columbia Union College, 1971; M.A., University of Chicago, 1973; Ph.D., University of Chicago, 1981. (1977)

**L. Jean Sheldon, Ph.D.**, *Professor of Old Testament*. B.A., Andrews University, 1982; M.A., Loma Linda University, 1984; Ph.D., Graduate Theological Union and University of California, Berkeley, 2002. (1995)

**Rajeev Sigamoney, M.S.**, *Assistant Professor of Film and Television*. B.S., Johns Hopkins University, 1997; M.S., Johns Hopkins University, 2002. (2012)

**Shanthi E. Solomon, Ph.D.**, *Assistant Professor of Nursing*. B.S., Madras University Christian Medical College, 1991; M.S., Loma Linda University, 2006; Ph.D., Loma Linda University, 2015. (2016)

**Backil Sung, M.D., Ph.D.**, *Professor of Biology*. M.D., Korea University, 1995; M.M.S., Korea University, 1997; Ph.D., Korea University, 1999. (2012)

**Lynne E. Thew, B.A.**, *Instructor of Communication*. B.A., Pacific Union College, 1978. (2007)

**Tamara Tirado, R.N., D.N.P.**, *Professor of Nursing*. A.S. Pacific Union College, 2000; B.S.N., Pacific Union College, 2001; M.S., Sonoma State University, 2004. D.N.P., Loma Linda University, 2013. (2008)

**Marcia L. Toledo, M.Ed.**, *Associate Professor of Business Administration*. B.S., Atlantic Union College, 1974; M.Ed., Boston University, 1980. (1984)

**C. Thomas Turner, M.A.**, *Professor of Art*. B.S., Loma Linda University, 1969; M.A., Central Michigan University, 1976. (1984)

**Jennifer Tyner, M.A.**, *Assistant Professor of English*. B.A., Loma Linda University, 1991; B.A., La Sierra University, 1992; M.A., La Sierra University, 1996. (2012)

**Katy Van Arsdale, M.L.I.S.**, *Assistant Librarian*. B.A., Andrews University, 2009; M.A., M.L.I.S., Catholic University of America, Washington, D.C., 2013. (2015)

**Robin E. Vance, Ph.D.**, *Professor of Biology*. B.S., Loma Linda University, 1981; M.S., Loma Linda University, 1984; Ph.D., Loma Linda University, 1988. (2001)

**Kaye L. Varney, B.S.**, *Instructor of Aviation*. B.S., Pacific Union College, 2002. (2009)

**Reimar Vetne, Ph.D.**, *Associate Professor of New Testament*. B.A., Newbold College, 1993; M.A., Andrews University, 2003; Ph.D., Andrews University, 2011. (2015)

**Debra L. Wallace, R.N., M.S.**, *Assistant Professor of Nursing*. A.S., Walla Walla Community College, 1978; B.S., Walla Walla College, 1981; M.S., University of Phoenix, 2003. (1997)

**Jennifer J. Wareham Best, M.A.**, *Associate Professor of Speech Pathology*. B.S., Pacific Union College, 1974; M.A., Humboldt State University, 1975. (1977)

**Steven R. Waters, D.A.**, *Professor of Mathematics*. B.S., Pacific Union College, 1979; M.S., Idaho State University, 1980; D.A., Idaho State University, 1983. (1982)

**Cynthia Westerbeck, Ph.D.**, *Professor of English*. B.A., Walla Walla College, 1990; M.A., Washington University, 1992; Ph.D., Washington University, 2000. (2004)

**C. Lynn Wheeler, D.M.A.**, *Professor of Music*. B.Mus., Walla Walla College, 1966; M.Mus., Catholic University of America, 1970; D.M.A., University of Oregon, 1976. (1971)

**Myron K. Widmer, D.Min.**, *Professor of Religion and Applied Theology*. B.A., Pacific Union College, 1971; M.Div., Andrews University, 1978; D.Min., Fuller Theological Seminary, 2004. (1996)

**Robert L. Wilson, Ph.D.**, *Associate Professor of Chemistry*. B.S., Andrews University, 2007; Ph.D., University of Illinois, 2012. (2012)

**Ross E. Winkle, Ph.D.**, *Professor of New Testament*. B.A., Walla Walla College, 1983; M.Div., Andrews University, 1987; Ph.D., Andrews University, 2012. (2005)

**Aimee C. Wyrick-Brownworth, M.Sc.**, *Associate Professor of Biology*. B.S., Pacific Union College, 1996; M.Sc., Loma Linda University, 1998; M.Sc., The University of Montana, 2004. (2004)

## College Personnel

### Visiting Lecturers

David J. Trim, Ph.D., *Visiting Lecturer in History and Religion*. B.A., Andrews University, 1995; Ph.D., University of London, 2003; FRHistS, 2003.

### Walter C. Utt Professors of History and Visiting Scholars

Eric D. Anderson, Ph.D., *Walter C. Utt Professor of History; Director, Walter C. Utt Center for Adventist History*. B.A., Andrews University, 1970; M.A., University of Chicago, 1972; Ph.D., University of Chicago, 1978. (2015)

Harry H. Leonard, Ph.D., *Walter C. Utt Professor of History, 2002*. B.A. (Honors), University of London, 1955; P.G.C.E., University of London, 1956; Ph.D., University of London, 1970.

Benjamin McArthur, Ph.D., *Walter C. Utt Professor of History, 1998*. Ph.D., University of Chicago, 1979.

Stanley G. Payne, Ph.D., *Walter C. Utt Visiting Scholar, 2015*. B.A., Pacific Union College, 1955; M.A., Claremont Graduate School and University Center, 1957; Ph.D., Columbia University, 1960.

Malcolm Russell, Ph.D., *Walter C. Utt Professor of History, 2000*. B.A., Columbia Union College, 1970; M.A., Johns Hopkins University, 1972; Ph.D., Johns Hopkins University, 1977.

A. Gregory Schneider, Ph.D., *Walter C. Utt Professor of History, 2006*. B.A., Columbia Union College, 1971; M.A., University of Chicago, 1973; Ph.D., University of Chicago, 1981. (1977)

David J. Trim, Ph.D., *Walter C. Utt Professor of History, 2008*. B.A., Andrews University, 1995; Ph.D., University of London, 2003; FRHistS, 2003.

### Field Supervisors in Education

Lolita Davidson, Ed.D., Loma Linda University, 1991.

Judith Dunn, M.A., Andrews University, 1976.

Lynal Ingham, M.A., Pacific Union College, 1999.

Peggy Prescott, B.A., University of California, Berkeley, 1961.

Tom Prescott, M.Ed., University of Arizona, 1969.

Jon Salinger, M.P.A., Sacramento State University, 1983.

### Field Instructors in Social Work Practicum

Linda Bradas, M.S.W., CA State University, Sacramento, 1992.

Meg Easter-Dawson, M.S.W., Indiana University, 1997.

Rachel Hart, M.S.W., CA State University, Sacramento, 1998.

Nick Honey, M.S.W., San Francisco State University, 1990.

Tracy Lamb, B.S.W., Western Michigan University, 1983.

Kerry Locklear, L.C.S.W., CA State University, Sacramento, 1972

Meghan Murphy, M.S.W., CA State University, Chico, 2006.

Mark Perkins, M.S.W., L.C.S.W., Fresno State University, 1980.

Celine Regalia, M.S.W., San Jose State University, 1998.

Randy Storm, M.S.W., L.C.S.W., Simmons College, 1983.

Lisa Tremain, M.S.W., CA State University, Sacramento, 2000.

Kristen Wagner, M.S.W., University of Chicago, 1992.

Maya Webb, M.S.W., CA State University, Sacramento, 2001.

Janlee Wong, M.S.W., San Francisco State University, 1977.

### Paulin Center for the Creative Arts

Rachelle M. Berthelsen Davis, D.M.A., *Strings*. B.S., Pacific Union College, 1994; M.Mus., Indiana University, Bloomington, 1998; D.M.A., University of Texas, Austin, 2004. (2003)

Steve Halbe, B.A., *Woodwinds*. B.A., San Francisco State University, 1961; Post graduate extension units 60. (2014)

Auriel Helmer, B.Mus., *Piano*. B.Mus., Pacific Union College, 2013. (2011)

Jennifer Hunt, M. M., *Flute*. B.Mus., University of Montana-Missoula, 2009; M.M., The Hartt School, 2013. (2013)

Linda Marks, B.Mus., *Violin/Viola*. B.Mus., Pacific Union College, 2011. (2012)

Jon Mendle, M.Mus., *Guitar*. M.Mus., San Francisco Conservatory of Music, 2010. (2012)

John Milholland, *Brass*. (1997)

Bruce Rasmussen, M.Mus., *Organ, Voice*. B.Mus., Andrews University, 1982; M.Mus., Andrews University, 1988. (2005)

G. Rosalie Rasmussen, M.Mus., *Director, Piano*. B.S., Andrews University, 1980; M.Mus., Andrews University 1981. (2005)

Heidi Rasmussen. B.Mus., *Voice*. B.Mus., Pacific Union College, 2011. (2012)

C. Lynn Wheeler, D.M.A., *Piano*. B.Mus., Walla Walla College, 1966; M.Mus., Catholic University of America, 1970; D.M.A., University of Oregon, 1976. (1971)

**Church Partners in Ministerial Training**

Angwin Village SDA Church  
Calistoga SDA Church  
Elmshaven SDA Church  
Middletown SDA Church  
Napa Community SDA Church  
Napa Spanish SDA Church  
Napa Valley Korean SDA Church  
Santa Rosa SDA Church  
Santa Rosa Spanish SDA Church  
St. Helena SDA Church  
St. Helena Spanish SDA Church

**Affiliated Agencies for Nursing Clinical Instruction**

Adventist Medical Center Hanford  
Adventist Medical Center Selma-Dignity Health  
Alpha Pregnancy Center, Napa  
Bakersfield Memorial Hospital  
Central Valley General Hospital  
Child Start  
Children's Hospital of Los Angeles  
Citrus Valley Medical Center  
CommuniCare Health Centers- Davis Community Clinic  
CommuniCare Health Centers- Peterson Clinic  
CommuniCare Health Centers- Salud Clinic  
Community Health Clinic Ole'/Healthy Mom's & Babies  
David Grant Medical Center  
Doctors Medical Center of Modesto  
Feather River Hospital  
Frank Howard Memorial Hospital  
Glendale Adventist Medical Center  
Jewish Community Center, Santa Rosa  
John Muir Health  
John Muir Medical Center, Walnut Creek  
John Muir Medical Center, Concord  
John Muir Home Health Services  
Kaiser Foundation Hospitals  
Kaiser Permanente, Santa Rosa  
Kaiser Permanente, Vallejo  
Kaiser Permanente, Vacaville  
Lodi Memorial Hospital  
Loma Linda University Medical Center  
Madera Community Hospital  
Marin County Health & Human Services

Maxim Healthcare Services, Inc.  
Mendocino Coast District Hospital  
Mendocino Coast Public Health  
Mercy General Hospital-Dignity Health  
Mercy Hospital of Folsom – Dignity Health  
Mercy San Juan Medical Center – Dignity Health  
Methodist Hospital of Sacramento – Dignity Health  
Mission Carmichael Care Center  
Mt. Diablo Medical Center  
Napa County Health & Human Services  
Napa Valley Hospice & Adult Day Services  
North Bay Health Care Group & Vaca Valley Hospital  
Oroville Hospital  
Queen of the Valley Medical Center including  
Santa Rosa Memorial  
SRM Alliance Hospital Services and Petaluma Valley Hospital  
St. Joseph Hospital of Eureka &  
Redwood Memorial Hospital  
Redlands Community Hospital  
Reedley Community Hospital  
San Antonio Regional Hospital  
San Bernardino County  
San Joaquin County Public Health Services  
San Luis Obispo County Public Health  
San Ramon Regional Medical Center  
Santa Rosa Memorial Hospital  
Shriners Hospitals for Children  
Sierra Nevada Memorial Miners Hospital – Dignity Health  
Siskiyou County Health & Human Services Agency, Public  
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Solano County Health & Social Services  
Sonoma Valley Hospital  
Sonora Regional Medical Center  
St. Bernardine Medical Center – Dignity Health  
St. Helena Hospital  
St. Helena Hospital Center for Behavioral Health  
St. Helena Hospital, Clearlake  
Surprise Community Hospital  
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Sutter Amador Hospital  
Sutter Auburn Faith Hospital  
Sutter Center for Psychiatry  
Sutter Davis Hospital  
Sutter Medical Center Sacramento

## **College Personnel**

Sutter Roseville Medical Center  
Sutter Solano Medical Center  
Sutter Lakeside Hospital  
Sutter Santa Rosa Regional Hospital  
Sutter-Solano Medical Center  
UC Davis Medical Center  
UCSF Medical Center San Francisco  
Ukiah Valley Medical Center  
VA Northern California Health Care System  
Valley Children's Hospital  
White Memorial Medical Center

### **School Partnerships in Supervised Instruction**

Calistoga Joint Unified School District  
City of Santa Rosa School District  
Fairfield-Suisun Unified School District  
Fortuna Unified School District  
Foothills Adventist Elementary School  
Howell Mountain School District  
Konocti Unified School District  
Lakeport Unified School District  
Middletown Unified School District  
Napa Christian Campus of Education  
Napa Valley Unified School District  
Pacific Union College Elementary School  
Pacific Union College Preparatory School  
Pope Valley Unified School District  
Rio Lindo Academy  
St. Helena Unified School District  
Upper Lake Union School District  
Vallejo Unified School District  
Windsor Unified School District

Integrity is expected of every student in all academic work. The guiding principle of academic integrity is that the work one presents as one's own is one's own.

*Students shall not violate the Code of Academic Integrity and shall avoid situations likely to compromise academic integrity. Students shall observe the provisions of the Code of Academic Integrity whether or not faculty members establish special rules of integrity for particular courses. Failure of faculty to prevent academic dishonesty does not excuse students from compliance with the Code.*

Those who engage in academic dishonesty diminish the quality and value of their education and bring discredit to the academic community.

## Categories of Academic Dishonesty

Academic dishonesty includes, but is not limited to, the following:

- 1. Cheating**—*Using, or attempting to use, unauthorized materials in any academic exercise; or having someone else do one's own academic work.* Examples of cheating include looking at another student's paper during a test, bringing notes to a test, obtaining a copy of a test prior to the test date, and presenting homework prepared by someone else.
- 2. Fabrication**—*Inventing or falsifying information.* Examples of fabrication include "dry-labbing" (inventing data for an experiment not done or not done correctly), making references to sources not actually used in a research paper, forging signatures on academic forms, forging letters of recommendation, and falsifying credentials in an application.
- 3. Facilitating Academic Dishonesty**—*Helping someone else to commit an act of academic dishonesty.* This includes giving someone a paper or homework to copy from and allowing another to cheat from one's test paper.
- 4. Plagiarism**—*Using the words or ideas of another writer without attribution, so that they appear as if they were one's own.* Plagiarism includes copying someone else's work word for word, rewriting someone else's work with only minor word changes, and paraphrasing or summarizing work without acknowledging the source.
- 5. Multiple Submissions**—*Presenting work done in previous courses as if it were new and original work.* Although professors are sometimes willing for a student to use previous work as the basis for new work, they expect the student to do new work for the current course. A student who wants to submit a piece of academic work in more than one course should seek the approval of the instructors.
- 6. Abuse of Academic Materials**—*Harming, appropriating, or disabling academic resources so that others cannot use them.* This includes removing tables and illustrations from books and journals to use in a paper, stealing books or articles, and damaging computer files intended for the use of others.

**7. Misrepresentation**—*Lying about or misrepresenting one's work, academic records, or credentials.* Examples include claiming ownership of another's work, several students submitting copies of the same computer document and taking credit for group work to which a student did not contribute significantly or fulfill his or her obligations.

**8. Electronic Dishonesty**—*Inappropriately using network access in a way that affects a class or other students' academic work.* Examples of electronic dishonesty include using someone else's authorized computer account to send and receive messages, breaking into someone else's files, gaining access to restricted files, disabling others' access to network systems or files, obtaining a computer account under false pretenses, and knowingly spreading a computer virus.

These general definitions may be supplemented or modified by additional policies stated in course syllabi.

## Procedures for Addressing Academic Dishonesty

1. When an instructor believes that a student has acted dishonestly, a conversation on the incident in question occurs between the instructor and the student. The instructor should notify the department chair of the incident and the conversation about it.
2. If the instructor is not satisfied with the student's explanation, the instructor documents the incident in writing. The documentation includes definition of disciplinary action. A copy is filed in the Academic Dean's office. These files are available to the Pre-professional Recommendations Committee, to any instructor who is asked for a recommendation, and to the program admissions committees for Nursing, Ministerial Studies, and Social Work.
3. If a second incident occurs in any class, the Academic Dean may give the student *an F in the class* where the second incident occurred. A third incident may result in *suspension* from the college for one quarter. A fourth incident may call for *permanent dismissal*.
4. Students who wish to appeal the decision of the Academic Dean may appeal to the Academic Standards and General Education Committee. Students should submit a written appeal and may appear before the committee if they choose.
5. The decision of the committee is final. However, if any student believes that the final decision is unjust, he or she may follow the grievance procedure outlined in the *Student Handbook*.
6. Students are entitled to add a written rebuttal to their personal files in the Academic Dean's Office.

# Appendix B: Student Rights Under FERPA

In maintaining student records, Pacific Union College complies with the Family Educational Rights and Privacy Act of 1974 (FERPA). This act affords students certain rights with respect to their education records.

FERPA rights extend to any student who has attended Pacific Union College. Your FERPA rights begin on the first day that you attend class at the college and expire upon your death. These rights include:

**1. The right to inspect and review your education records.**

If you wish to review your education record, you should *submit to the Registrar a completed “Request to Inspect and Review Education Records” form*, available at the Records Office. Requests will be processed within forty-five days from the date the request is filed. The Registrar will make arrangements for access and will notify you of the time and place where the records may be inspected.

**2. The right to request an amendment of your education records that you believe to be inaccurate, misleading, or otherwise in violation of your privacy rights under FERPA.**

If you wish to request an amendment to your record, you should *submit to the Registrar a completed “Request to Amend Education Records” form*, available at the Records Office. If Pacific Union College decides not to amend the record as requested, you will be notified of the decision in writing and will be given a right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to you when you are notified of the right to a hearing.

**3. The right to suppress the disclosure of directory information, provided that the request is submitted while you are an enrolled student.**

If you wish to exercise this right, you should *submit to the Registrar a completed “Request to Suppress Directory Information” form*, available at the Records Office.

At Pacific Union College directory information consists of the following: 1. Name; 2. Address (local and home); 3. E-mail address; 4. Telephone number (local, home, and cellular); 5. Date of birth; 6. Photograph; 7. Most recent educational institution attended; 8. Participation in officially recognized activities and sports; 9. Weight and height of members of athletic teams; 10. Academic program of study; 11. Dates of attendance; 12. Enrollment status (full-time, part-time, etc); 13. Class standing (freshman, sophomore, etc); 14. Expected date of graduation; 15. Degrees conferred and date of conferral; and 16. Academic honors and awards received (dean’s list, cum laude, etc).

**4. The right to provide written consent before Pacific Union College discloses information from your education records, except to the extent that FERPA authorizes disclosure without consent.**

Pacific Union College discloses *directory or public information* without your prior written consent, unless if you exercise your right to refuse disclosure as described above.

Pacific Union College discloses information from you education records without your prior written consent *under the FERPA exception for disclosure to school officials with legitimate educational interests*. A school official is: 1. A person employed by Pacific Union College as an administrator, faculty, or staff member; 2. A student employed by Pacific Union College to assist an administrator, faculty, or staff member in fulfillment of his/her professional duties; 3. A person employed by, or under contract to, Pacific Union College to perform a special task, such as an attorney or an auditor; 4. A person or organization acting as an official agent of Pacific Union College and performing a business function or service on behalf of Pacific Union College; 5. A member of a Pacific Union College committee (may include student members); or 6. A person serving on the Pacific Union College Board of Trustees. A school official has a legitimate educational interest if the official needs to review your education record in order to: 1. Perform appropriate tasks that are specified in his/her position description or by a contract agreement; 2. Perform a task related to your education; 3. Perform a task related to your discipline; or 4. Provide a service or benefit relating to you as a student such as health care, counseling, job placement, or financial aid.

Upon request, Pacific Union College may disclose information from your education records *to officials of another school in which you seek or intend to enroll*.

Upon request, Pacific Union College may disclose information from your education records *to your parents if you are a dependent student as defined by the IRS code*, provided that proper documentation is on file at the college to establish dependency.

Pacific Union College may disclose information from your education records *under additional FERPA provisions authorizing disclosure without consent*. A full description of all authorized exceptions for disclosure may be obtained from the Registrar.

**5. The right to file a complaint with the U.S. Department of Education concerning alleged failures by Pacific Union College to comply with the requirements of FERPA.**

The Family Policy Compliance Office administers FERPA and any complaints may be filed *at the following address*:

Family Policy Compliance Office- U.S. Dept of Education  
400 Maryland Avenue SW, Washington, D.C. 20202-5901

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## Numerical Legend

- 1. Angwin Plaza:**  
Ace Hardware  
College Bookstore  
Market  
Washette
- 2. Post Office**
- 3. Career and Counseling Center**
- 4. Dental Building**
- 5. Credit Union**
- 6. Tennis Courts**
- 7. Athletic Field:**  
Hardball and Softball Fields  
Sand Volleyball Courts
- 8. Brookside Park:**  
Student Family Housing
- 9. Service Station:**  
College Chevron
- 10. Athletic Track & Field**
- 11. Press Building:**  
Copy Center  
Estate Planning  
Mail Services
- 12. Custodial:**  
Lost and Found
- 13. Heating Plant**
- 14. Church and Sanctuary**
- 15. Alumni Park**
- 16. Fisher Hall:**  
Visual Arts
- 17. Sabbath School Rooms**
- 18. Church Complex:**  
Campus Chaplain  
Campus Ministries  
Church Office  
Fireside Room  
Scales Chapel
- 19. Paulin Hall:**  
Music
- 20. Pacific Auditorium:**  
Fitness Center  
Gymnasium  
Exercise Science, Health, &  
Nutrition  
Weight Room
- 21. Swimming Pool**
- 22. Public Safety**
- 23. Chan Shun Hall:**  
Academic Administration  
Academic Advising  
Chemistry  
Mathematics  
Physics  
President's Office
- 24. Davidian Hall:**  
Nursing  
Psychology & Social Work
- 25. Teaching and Learning Center**
- 26. Dining Commons:**  
Cafeteria  
Campus Center  
Student Association Offices
- 27. Rasmussen Art Gallery**

- 28. Library:**  
E.G. White/SDA Study Center  
Information Technology  
Systems and Services  
Media Services  
Pitcairn Islands Study Center
- 29. Preparatory School**
- 30. Elementary School**
- 31. Advancement / Alumni**
- 32. Financial Services:**  
Accounting Services  
Financial Administration  
Human Resources  
Student Financial Services
- 33. West Hall:**  
Education  
Health Services
- 34. West Hall Annex**
- 35. Stauffer Hall:**  
Alice Holst Theater  
English
- 36. Amphitheater**
- 37. Storage Area**
- 38. Newton Hall:**  
Men's Residence
- 39. Grainger Hall:**  
Men's Residence
- 40. Clark Hall:**  
Biology  
Wilmer Hansen Collection
- 41. Irwin Hall:**  
Business Administration  
Communication  
History  
World Languages & Cultures
- 42. Ambs Hall**
- 43. Graf Oval**
- 44. Graf Hall:**  
Academic Records  
Admissions  
Enrollment Services  
Public Relations  
Student Services  
Theology  
Visitor Center  
Women's Residence
- 45. Dauphinee Chapel**
- 46. Andre Hall:**  
Women's Residence
- 47. Winning Hall:**  
Women's Residence
- 48. Discoveryland Children's Center**
- 49. Land Management**
- 50. Recycling Center**
- 51. Plant Services**
- 52. Mobile Manor**
- 53. Landscape**
- 54. Court Place Apartments:**  
Student Family Housing
- 55. Nichol Hall:**  
Men's Residence
- 56. McReynolds Hall:**  
Women's Residence
- 57. Virgil O. Parrett Field:**  
Flight Center

- 58. Young Observatory**
- 59. Commencement Grove**
- 60. Prayer Chapel**
- 61. Cogeneration Plant**

## Alphabetical Legend

- 23. Academic Administration
- 23. Academic Advising
- 44. Academic Records
- 32. Accounting Services
  - 1. Ace Hardware
- 44. Admissions
- 31. Advancement / Alumni
- 35. Alice Holst Theater
- 15. Alumni Park
- 42. Ambs Hall
- 36. Amphitheater
- 46. Andre Hall
  - 1. Angwin Plaza
- 10. Athletic Track & Field
- 40. Biology
  - 8. Brookside Park
- 41. Business Administration
- 26. Cafeteria
- 26. Campus Center
- 18. Campus Chaplain
- 18. Campus Ministries
  - 3. Career & Counseling Center
- 23. Chan Shun Hall
- 23. Chemistry
- 18. Church Complex
- 18. Church Office
- 14. Church & Sanctuary
- 40. Clark Hall
- 61. Cogeneration Plant
  - 1. College Bookstore
  - 9. College Chevron
- 59. Commencement Grove
- 41. Communication
- 11. Copy Center
- 54. Court Place Apartments
  - 5. Credit Union
- 12. Custodial
- 45. Dauphinee Chapel
- 24. Davidian Hall
  - 4. Dental Building
- 26. Dining Commons
- 48. Discoveryland Children's Center
- 28. E.G. White/SDA Study Center
- 33. Education
- 30. Elementary School
- 35. English
- 44. Enrollment Services
- 11. Estate Planning
- 20. Exercise Science, Health, and Nutrition
- 32. Financial Administration
- 32. Financial Services
- 18. Fireside Room
- 16. Fisher Hall
- 20. Fitness Center
- 57. Flight Center
- 43. Graf Oval
- 44. Graf Hall
- 39. Grainger Hall
- 20. Gymnasium
- 7. Hardball and Softball Fields
- 33. Health Service
- 13. Heating Plant
- 41. History
- 32. Human Resources
- 28. Information Technology Systems & Services
- 41. Irwin Hall
- 49. Land Management
- 53. Landscape
- 28. Library
- 12. Lost and Found
- 11. Mail Services
  - 1. Market
- 23. Mathematics
- 56. McReynolds Hall
- 28. Media Services
- 52. Mobile Manor
- 19. Music
- 38. Newton Hall
- 55. Nichol Hall
- 24. Nursing
- 20. Pacific Auditorium
- 19. Paulin Hall
- 23. Physics
- 28. Pitcairn Island Study Center
- 51. Plant Services
  - 2. Post Office
- 60. Prayer Chapel
- 29. Preparatory School
- 23. President's Office
- 11. Press Building
- 24. Psychology & Social Work
- 44. Public Relations
- 22. Public Safety
- 27. Rasmussen Art Gallery
- 50. Recycling Center
- 17. Sabbath School Rooms
  - 7. Sand Volleyball Courts
- 18. Scales Chapel
  - 9. Service Station
- 35. Stauffer Hall
- 26. Student Association Offices
- 32. Student Financial Services
- 44. Student Services
- 21. Swimming Pool
- 25. Teaching and Learning Center
  - 6. Tennis Courts
- 44. Theology
- 44. Visitors' Center
  - 1. Washette
- 20. Weight Room
- 33. West Hall
- 34. West Hall Annex
- 40. Wilmer Hansen Collection
- 47. Winning Hall
- 41. World Languages & Cultures
- 57. Virgil O. Parrett Field
- 16. Visual Arts
- 58. Young Observatory



## Contact Information

**College General Information** ..... (707) 965-6311  
Toll-Free ..... (800) 862-7080  
Website ..... [www.puc.edu](http://www.puc.edu)

**Academic Administration** ..... (707) 965-6234  
Website ..... [www.puc.edu/academics](http://www.puc.edu/academics)

**Admissions and Catalogs** ..... (707) 965-6336  
Toll-Free ..... (800) 862-7080, #2  
Fax ..... (707) 965-6671  
E-mail ..... [enroll@puc.edu](mailto:enroll@puc.edu)  
Website ..... [www.puc.edu/admissions](http://www.puc.edu/admissions)

**Alumni, Advancement & Development** ..... (707) 965-7500  
Fax ..... (707) 965-6305  
E-mail ..... [alumni@puc.edu](mailto:alumni@puc.edu)  
Website ..... [www.alumni.puc.edu](http://www.alumni.puc.edu)

**Chaplain's Office** ..... (707) 965-7190  
Fax ..... (707) 965-7290

**Counseling, Testing, & Career Services** ..... (707) 965-7080  
Telephone, After-Hours Emergencies ..... (707) 965-6789  
Fax ..... (707) 965-7088

**Financial Administration** ..... (707) 965-6699  
Fax ..... (707) 965-6400

**Health Services** ..... (707) 965-6339  
Telephone, After-Hours Emergencies ..... (707) 965-6789  
Fax ..... (707) 965-6243

**Human Resources** ..... (707) 965-6231  
Website ..... [www.puc.edu/campus-services/human-resources](http://www.puc.edu/campus-services/human-resources)

**Information Technology** ..... (707) 965-7000  
E-mail ..... [helpdesk@puc.edu](mailto:helpdesk@puc.edu)

**Library** ..... (707) 965-6241  
Website ..... [www.library.puc.edu](http://www.library.puc.edu)

**Nursing Information** ..... (707) 965-7262  
Website ..... [www.puc.edu/nursing](http://www.puc.edu/nursing)

**President** ..... (707) 965-6211  
Fax ..... (707) 965-6506  
E-mail ..... [president@puc.edu](mailto:president@puc.edu)

**Public Relations** ..... (707) 965-6303  
Fax ..... (707) 965-7101  
E-mail ..... [pr@puc.edu](mailto:pr@puc.edu)

**Public Safety** ..... (707) 965-6511  
Emergencies ..... (707) 965-7111

**Records Office** ..... (707) 965-6673  
E-mail ..... [records@puc.edu](mailto:records@puc.edu)  
Website ..... [www.puc.edu/academics/records](http://www.puc.edu/academics/records)

**Residence Hall Living**

Dean of Women ..... (707) 965-6315  
    Andre Hall ..... (707) 965-7481  
    Graf Hall ..... (707) 965-6520  
    McReynolds Hall ..... (707) 965-6149  
    Winning Hall ..... (707) 965-6313  
Dean of Men ..... (707) 965-7203  
    Grainger Hall ..... (707) 965-6491  
    Newton Hall ..... (707) 965-6487  
    Nichol Hall ..... (707) 965-6101  
Website ..... [www.puc.edu/puc-life/residence-halls](http://www.puc.edu/puc-life/residence-halls)

**Student Finance** ..... (707) 965-7200  
E-mail ..... [studentfinance@puc.edu](mailto:studentfinance@puc.edu)  
Website ..... [www.puc.edu/student-finance](http://www.puc.edu/student-finance)

**Student Services** ..... (707) 965-7362  
Website ..... [www.puc.edu/student-services](http://www.puc.edu/student-services)

**Teaching & Learning Center** ..... (707) 965-7688  
E-mail ..... [tlc@puc.edu](mailto:tlc@puc.edu)  
Website ..... [www.puc.edu/academics/tlc](http://www.puc.edu/academics/tlc)