

PACIFIC UNIVERSITY

Forest Grove, Oregon

2006/2007 Arts & Sciences Course Catalog



Pacific University

2006/2007 Arts & Sciences ■ **www.pacificu.edu**

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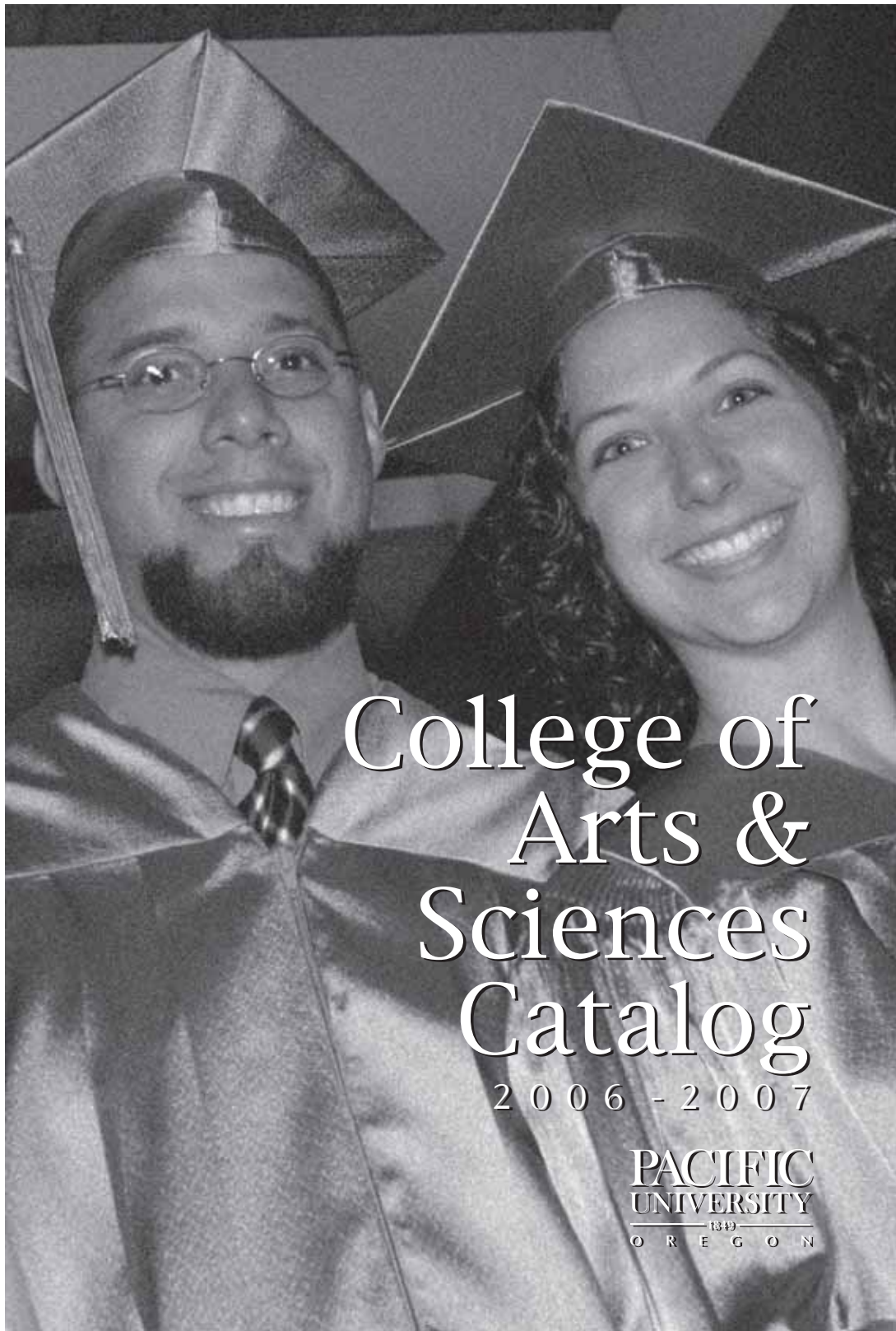
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College of Arts & Sciences Catalog

2006 - 2007

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Accreditations & Memberships

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Pacific University is accredited by the Northwest Commission on Colleges and Universities. In addition, selected programs work with the following agencies for specialized accreditation:

Dental Health Science

Commission on Dental Accreditation

Education

Teacher Standards and Practices
Commission of the State of Oregon

Music

National Association of
Schools of Music

Occupational Therapy

Accreditation Council for Occupational
Therapy Education of the American
Occupational Therapy Association, Inc.

Optometry

Accreditation Council on
Optometric Education

Pharmacy

Accreditation Council for
Pharmacy Education

Physical Therapy

Commission on Accreditation in
Physical Therapy Education of
the American Physical Therapy
Association, Inc.

Physician Assistant Studies

Accreditation Review Committee on
Education for the Physician Assistant, Inc.

Professional Psychology

Clinical (Psy.D.): Committee on
Accreditation of the American
Psychological Association

Counseling (M.A.): Oregon Board of
Counselors and Therapists meeting
educational standards for becoming a
Licensed Professional Counselor

MEMBERSHIPS

Pacific is a member of the National Association of Independent Colleges and Universities, the Oregon Independent Colleges Foundation, the Oregon Independent Colleges Association, the American Association of University Women, the Council for Higher Education of the United Church of Christ, the College Scholarship Service, the Northwest Conference of Independent Colleges, the National Collegiate Athletics Association, the Association of Independent Liberal Arts Colleges for Teacher Education, and the Council of Independent Colleges.

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Introduction

MISSION OF PACIFIC UNIVERSITY

Pacific University is a comprehensive teaching institution comprised of the Colleges of Arts and Sciences, Education, Health Professions, and Optometry. We provide a close-knit environment and challenging opportunities that foster undergraduate education in the liberal arts tradition and graduate education for specific service-oriented professions.

At Pacific, effective teaching and learning are the highest priorities. Our faculty of scholars is dedicated to instilling in our students a passion for learning through dynamic curricula and close faculty-student interaction. Pacific creates critical thinkers who become life-long learners who can make informed decisions and valuable contributions to society and the world.

In addition to our mission, Pacific University values

- **Students**
The fundamental value and organizing principle that underlies our decisions and actions at Pacific University is our dedication to our students as individuals, providing all with an environment for learning to achieve their aspirations and potential.
- **Academics**
Pacific University is a scholarly community valuing academic rigor, integrity, creative endeavors, and ethical professional applications.
- **Community**
The Pacific University community is one of belonging, respect, and recognition of individual worth, whose members share a joint commitment to goals and one another.

- **Service**

Pacific University fosters a sense of purpose grounded in principled action and belief in responsibility beyond the self.

- **Transformation**

Pacific University provides the context in which people expand their knowledge of their own identity, respective disciplines, and larger community, transforming themselves and their places in the world.

PACIFIC: AN OVERVIEW

Pacific University, founded in 1849, is an independent, comprehensive university recognized as one of the best universities in the West. With a rich liberal arts tradition in the College of Arts and Sciences and acclaimed Colleges of Education, Health Professions and Optometry, Pacific University presents a distinctive combination of learning opportunities. Faculty and staff work with students in a dynamic small-class environment to weave together classroom experience, service learning, international education, internships, research, and co-curricular activities. Pacific also seeks to provide students with opportunities for personal growth and development, creating living tapestries of understanding about themselves, their disciplines, and their world.

Pacific University, with an enrollment of more than 2,500, provides attractive, state-of-the-art facilities for living and learning in a rich environment. Administrators and staff join faculty in their dedication to students and promote a comfortable and unpretentious atmosphere. The 55-acre Forest Grove campus is a picturesque setting of green lawns and tall shade trees. The architecture is a pleasant blend of the old and new, represented at one end of the spectrum by historic Old College Hall (1850), the University's first permanent

structure, and at the other by modern science, music, professional buildings, and the new state-of-the-art library. Facilities also include the Pacific Athletic Center and the Tom Reynolds Soccer Field.

In addition to its Forest Grove campus, the University has a satellite campus in Eugene, which serves the needs of the College of Education, and in Hillsboro, where the new Health Professions Campus is located. Additional facilities in Portland support the academic and clinical programs of the College of Optometry and the School of Professional Psychology.

By staying true to its unique history, strong sense of community, and tradition of enhancing student experiences in remarkable ways, Pacific University enjoys a national reputation for transforming individual lives and enriching the quality of life wherever its graduates may be found.

AN EARLY HISTORY OF PACIFIC UNIVERSITY

Pacific University was established by the Legislative Assembly of the Territory of Oregon in 1849, but traces its beginnings to an orphan school established in 1848 by the Reverend and Mrs. Harvey Clark, Congregational missionaries who came to the Northwest from Chester, Vermont. With the help of Alvin T. Smith, they built a log cabin for a school on the corner of what are now 15th and Elm Streets in Forest Grove, Oregon.

In 1847, Mrs. Tabitha Moffett Brown reached Oregon by wagon train and visited the Clarks. She became interested in their work and partnered with them in teaching the children. Inspired by her assistance, Rev. Clark and Mr. Smith made arrangements for the children to be taught in a log church that they built on what is now the campus of Pacific University.

In the summer of 1848, the Reverend George H. Atkinson arrived in Oregon. Reverend Atkinson was commissioned by the Home Missionary Society of Boston to “found an academy that shall grow into a college.” Reverend Clark and several others drew up plans for the new institution.

On Sept. 26, 1849, the Territorial Legislature granted a charter establishing Tualatin Academy, and in 1854, a new charter was issued granting full privileges to “Tualatin Academy and Pacific University.” Thirty acres of land were donated as a building site by Reverend Clark and Elkanah Walker.

Dr. Atkinson secured the Reverend Sidney Harper Marsh of Union Theological Seminary of New York to serve as the first president of the new school. Rev. Marsh was the son of the president of the University of Vermont and grandson of the first president of Dartmouth College. Sidney Harper Marsh served as president from 1853 to 1879.

COLLEGE OF ARTS AND SCIENCES

Mission

The College of Arts and Sciences, through effective teaching built on close faculty-student relationships, provides, in a residential setting, a broad liberal arts education with a strong emphasis on service and application of knowledge. Pacific’s undergraduates develop the intellectual capabilities and personal qualities that enable them to participate in rewarding careers and to contribute to their communities.

The 34 majors in the College of Arts and Sciences clearly reflect Pacific’s liberal arts base. This College is the largest unit and the core of the University, providing a broad spectrum of opportunities to match individual interests and career plans.

The College of Arts and Sciences curriculum affirms in practice that a broad educational experience is both an end in itself and a means to set personal and professional directions. Within the divisions of Arts, Humanities, Natural Sciences, and Social Sciences, the College offers a carefully constructed range of courses with breadth and depth. The College provides the kind of living and learning experiences that one expects to find at a high-quality liberal arts college.

In a world that increasingly asks not what you know but how quickly can you learn, Pacific prepares its students to communicate clearly, to analyze problems, to synthesize information and to understand people, systems and cultures.

Student studies are supported by a strong advising program, called Pathways, that covers academic development and career counseling and placement. The Pathways Program ensures that each student is able to maximize internship, research, study abroad, service learning, professional and graduate school opportunities. One part of this program, the Advantage Program, prepares students specifically for seamless entry into Pacific's graduate professional programs, including early acceptance.

Traditionally, the College encourages off-campus learning. Pacific undergraduates may study abroad in many countries, pursue off-campus independent research projects, and undertake career internships that earn credit toward graduation.

The College offers Bachelor of Arts and Bachelor of Science degrees. In addition to the regular program, the College offers a variety of classes in three intensive, four-week summer terms.

PACIFIC UNIVERSITY GRADUATE PROGRAMS

Pacific University's graduate programs include one in the College of Arts and Sciences—a Master of Fine Arts in Creative Writing—and many more within the College of Education, College of Optometry, and College of Health Professions. The graduate degree programs are described briefly below.

The College of Arts and Sciences, in addition to helping students chart paths to graduate and professional schools and to rewarding careers through its Pathways Program, also specifically prepares students through its Advantage Program for seamless entry, including early acceptance, into Pacific's graduate schools.

MASTER OF FINE ARTS IN CREATIVE WRITING

Pacific University offers a two-year, low-residency M.F.A. degree in creative writing in three genres: poetry, fiction and non-fiction. Students study with award-winning writers during intensive 10-day residencies in January and June, followed by working on manuscripts one-to-one with these writers during the following correspondence semesters.

This program is designed to help students become better writers and to be accessible to those with families and who have jobs. Brief biographies of program writers and a complete description of the program may be viewed at www.pacificu.edu/as/mfa.

COLLEGE OF EDUCATION

For nearly a century, teacher education has been an integral part of Pacific University. Today the College of Education continues this long tradition with comprehensive and innovative programs designed to meet the needs of those seeking professional education coursework, at both the undergraduate and graduate level. At campuses in Forest Grove and Eugene, courses of study include undergraduate and graduate degree programs leading to initial licensure for teachers in general and special education classrooms. In addition, the College offers advanced programs for in-service teachers and a special master's degree program for optometrists. Programs for teachers who wish to add endorsements, authorizations, or certificates are also offered.

An outstanding faculty provides the key to the excellence of its educational programs. Representing a wide range of teaching and academic expertise, the majority of the faculty hold earned doctorates and have had significant experience teaching in public school classrooms. Pacific's faculty members demonstrate a commitment to education as a lifelong process.

As a complement to providing an educational environment that fosters the development of intellectual independence and high ethical standards, the College of Education has a strong relationship with surrounding school districts and communities. This allows students to fulfill the field-based components of their programs in a variety of settings, which serve as laboratories for all aspects of the teacher education program.

A final factor critical to the success of College of Education programs is the quality of its students. The student population is a balance of traditional students in their early twenties and of older students seeking new careers. Those students accepted into our programs have demonstrated superior academic, professional, and interpersonal abilities. As graduates of the College of Education, they are well prepared for service to a changing community, nation and world.

COLLEGE OF OPTOMETRY

The College of Optometry offers a Doctor of Optometry degree program and a Master of Science in Clinical Optometry degree program. The optometry programs are distinctive, and they emphasize service to both the profession and the community. The Doctor of Optometry degree program is four years in length and is designed to prepare individuals as general optometric physicians who evaluate, diagnose and manage disorders of the visual system. The Master of Science in Clinical Optometry degree program is designed to prepare individuals for careers in optometric education, research, and advanced levels of clinical care. It usually requires a minimum of 21 months to complete.

The College maintains full service clinics on the Forest Grove campus, the Health Professions campus in Hillsboro, three clinics in the Portland area and a low vision clinic at the Washington State School for the Blind in Vancouver, Washington. Students complete professional preceptorships in a variety of clinical settings throughout the United States and at selected locations in Canada, Germany, Korea, China and Australia.

Post graduate residency programs leading to a certificate in Primary Eye Care Optometry, Geriatric Optometry, Refractive and Surgical Co-Management, Ocular Disease/Refractive and Ocular Surgery, Vision Therapy and Rehabilitation Pediatric, or Cornea and Contact Lenses are available through the College. The Vision Therapy and Rehabilitation Pediatric, and Cornea and Contact Lens residency are provided directly by Pacific University. The Ocular Disease/Refractive and Ocular Surgery residency is provided through a joint program with Eye Care Associates of Nevada. Other programs are provided through affiliations with the Veterans Administration Medical Centers.

COLLEGE OF HEALTH PROFESSIONS

The College of Health Professions is home to six academic programs whose mission is to develop caring, compassionate professionals in Pharmacy, Dental Health Science, Professional Psychology, Physical Therapy, Occupational Therapy and Physician Assistant Studies. Dental Health Science is an undergraduate program; but, the other programs are master's and doctoral programs. The College is housed in two locations: the main campus is in Hillsboro next to Tuality Hospital and Professional Psychology has an additional campus in downtown Portland. We also partner with the Virginia Garcia Memorial Clinic whose mission is to dedicated to providing high-quality, culturally appropriate health care to low-income residents of Washington and Yamhill Counties in Oregon.

School of Dental Health Sciences

The mission of the School of Dental Health Science is to provide an outstanding education for our students, high quality care for our patients and exemplary service to the community and the profession.

The School of Dental Health Science offers two bachelor's degree options, a dental hygiene entry-level program and a degree completion program, both leading to a Bachelor of Science in Dental Health. A Master of Science in Dental Health will be offered starting in fall 2008. These programs emphasize careers in education, public health and management.

The dental hygiene entry-level program leads to a Bachelor of Science degree in Dental Health. This program includes two years of dental health courses completed at Pacific University, following completion of required prerequisite coursework. This program is intended to prepare students to become dental hygienists who provide high quality, patient-centered care to diverse patient populations in a variety of health care settings.

The dental health degree completion program is intended for current dental health professionals who wish to pursue a Bachelor of Science degree in Dental Health. Students may attend on a part-time basis and do not need to complete courses in sequence.

The Master of Science degree in Dental Health program is intended for current dental health professionals who wish to pursue a graduate degree. Students who complete the dental hygiene entry-level program or dental health degree completion program at Pacific University may receive advanced standing into the Master of Science degree program.

The School of Dental Health Science is located at Pacific University's Health Professions Campus in Hillsboro, Oregon. The facilities for the School of Dental Health Science include a 16-chair Dental Health Clinic which provides preventive dental health services to the community with special emphasis on patients who have limited access to dental care.

Students in the School of Dental Health Science have a unique opportunity for interdisciplinary study with students and faculty in Pacific University's other professional programs and through community affiliation sites which include a dental school, public health clinic and a community hospital.

School of Occupational Therapy

The School of Occupational Therapy at Pacific University offers a 30-month entry-level Masters of Occupational Therapy (MOT) degree to educate and prepare future occupational therapists to address the challenges to healthful living that face society.

The School of Occupational Therapy holds firmly to the founding philosophy of the profession of occupational therapy: engagement in meaningful and purposeful day-to-day activities (occupations) leads to a sense of competency, self-fulfillment and subsequent health and well-being.

Fieldwork, involving partnerships with community occupational therapy practitioners and organizations, is integrated throughout the curriculum. Fieldwork experiences provide students the opportunity to study and to engage in a variety of settings where people across the age span maintain, promote or regain occupational function, health, and well-being.

The Occupational Therapy curriculum focuses on the study of occupational function /dysfunction and its impact on health. This emphasis, along with a commitment to educate critical thinkers and problem solvers, prepares graduates for a future in traditional settings as well as in community-based practices. Consistent with the philosophy of Pacific University, the School of Occupational Therapy seeks to promote values of leadership, quality and service. Graduating therapists from Pacific University's School of Occupational Therapy are well qualified to utilize occupation as a powerful medium for facilitating health in our communities. Our graduates have a wide range of job practice opportunities working with children, adults, or elders in settings that include, hospitals, schools, mental health facilities, industry and community settings

School of Pharmacy

The pharmacist is an integral member of an interdisciplinary health care team focused on improving health care outcomes of patients. As the leading source for accurate and timely drug information, the pharmacist contributes to patient safety, alleviation of symptoms, prevention of disease, and reduced health care costs. Pharmacists can choose to work in a wide variety of professional settings. Although, the majority of pharmacists work in community pharmacies (independent or chain), many other opportunities exist in hospital, industry, nursing homes, managed care, home infusion, and academic settings.

The mission of the Pacific University School of Pharmacy is to provide an educational environment that values excellence in teaching, learning and research. It prepares students to provide competent, ethical, and compassionate patient-centered pharmaceutical care to a diverse population in a changing healthcare environment.

The School of Pharmacy offers a 3-year professional curriculum leading to the Doctor of Pharmacy degree. The program emphasizes teamwork, the development of critical thinking skills and integration of knowledge. The curriculum is composed of two didactic years followed by one clinical clerkship year. During the first two academic years, students will spend one day every other week in a community pharmacy, gaining experience that supports the classroom material. The curriculum is based on a modified-block design that allows the sequential delivery of topics rather than the more traditional method of teaching multiple courses at the same time. Students are not assigned letter grades in the curriculum but are instead assigned either a "pass" or "no-pass" based on achievement of 90% of stated competencies. Students are assessed every two weeks during the first 2 years of the curriculum. Students who do not achieve the necessary level of competence are given opportunities for Extended Learning. The Extended Learning opportunities follow each block assessment and during a dedicated period in the summer.

School of Physical Therapy

The School of Physical Therapy offers a three-year Doctor of Physical Therapy degree. The School is located in the newly constructed College of Health Professions building in Hillsboro, the government seat of rapidly growing Washington County. Hillsboro has old fashioned charm, yet is only 20 minutes away from the big city amenities of Portland. It offers a variety of parks, fairs, historical places and rural beauty that can appeal to anyone's taste. The Hillsboro campus is a short 10 minute drive from the main Forest Grove Campus which itself has many cultural, sports, and social events and opportunities.

The students of the School of Physical Therapy are bright, enthusiastic and committed to the profession which results in a very high retention rate. Over the years, graduates have made many important contributions to the health care of Oregon and the surrounding states.

The School of Physical Therapy has a strong and caring faculty dedicated to providing a quality educational experience to its students. Special faculty strengths are in geriatrics, motor control, stroke treatment, biomechanics, research and orthopedic physical therapy. Many of the faculty have gained regional or national recognition for their clinical skills and research contributions.

In addition to the entry-level program, the School of Physical Therapy provides an opportunity for practicing physical therapists to build on their existing experience and earn a clinical doctoral degree through the transition Doctor of Physical Therapy Degree program. Courses are taught by core faculty and other authorities in the field. Faculty members, also, provide several continuing education programs for the professional community annually.

School of Physician Assistant Studies

The School of Physician Assistant Studies strives to prepare students for service in a changing healthcare environment through an education based in primary care medicine with a focus on critical thinking. The 28-month masters degree curriculum is designed to provide the student with the didactic and clinical skills needed in the practice of medicine while stressing the importance of understanding and valuing diversity of cultures, peoples and lifestyles. Students are provided a foundation of medical knowledge from which to begin lifelong learning to meet the needs and challenges of a changing healthcare system.

The faculty of the School of Physician Assistant Studies includes physicians, physician assistants, psychologists, pharmacists, nurses, physical therapists, and other healthcare providers, along with basic scientists in anatomy and physiology. Through this team approach to education, the physician assistant student learns to value the roles of other members of the team.

The program is proud to acknowledge the active participation of the medical community in all aspects of the program. Community providers are involved in program committees and serve as lecturers and preceptors. The program has affiliations with hospitals, managed-care organizations, medical groups, community clinics, nursing homes and private practice physicians throughout Oregon, surrounding states and internationally. The physician assistant (PA) is a respected member of the healthcare team who works with his or her supervising physician to provide diagnostic and therapeutic patient care in a variety of medical settings. The physician assistant is ranked as one of the top careers in growth potential by the U.S. Department of Labor. Positions are available in both primary and specialty care at a variety of practice settings such as community clinics, private practice, medical groups, hospitals, managed care organizations, prisons and other government agencies. In addition to clinical practice, physician assistants may advance into positions in research, academics, public health, health care administration and education.

School of Professional Psychology

The School of Professional Psychology (SPP) at Pacific University offers the Doctor of Psychology (Psy.D.) degree, with an emphasis on preparing research-informed graduates for service careers as professional psychologists. Tracks within the generalist program provide students with a way to cluster their training through a defined curriculum, programs of research, and clinical practica that solidify core knowledge in the various areas of concentration. Current tracks are: Child and Adolescent Psychology, Forensic Psychology, Neuropsychology, Cross-Cultural/Bilingual Spanish, and Organizational/Consulting Psychology. The Psy.D. Program is accredited by the American Psychological Association* and is located at the College of Health Professions Campus in Hillsboro and in downtown Portland. The School also offers a separate Master in Counseling Psychology (M.A.) degree, with two specialty tracks: Behavior Analysis and Organizational Behavior. The M.A. program is situated in downtown Portland. Graduates of the M.A. in Counseling Psychology degree meet Oregon educational requirements to become Licensed Professional Counselors. Graduates of both programs are doing exceedingly well in a variety of community and professional settings in their chosen professions.

Overall, SPP provides a comprehensive educational experience that fosters clinical competence based on the existing body of research literature. The program fosters an appreciation of human functioning as it occurs in natural settings, including the awareness of personal, interpersonal, and socio-cultural influences operating within such settings. Faculty have been carefully selected to provide students with a cutting edge education that will prepare them for all professional eventualities.

In addition to numerous clinical and counseling practicum settings for both the

Psy.D. and M.A. programs in the Portland community and throughout the State of Oregon and Southern Washington, SPP maintains its own Psychological Service Center (PSC) in downtown Portland. This clinic provides extensive psychological services to the community at large.

The PSC, under supervision of licensed psychologists, affords students an excellent training ground to perfect their craft. Finally, the School has its own APA-accredited Psychology Internship Training Program, located at the PSC.

* Office of Program Consultation and Accreditation

American Psychological Association
750 First Street, N.E.

Washington, DC 20002-4242

Tel: (202) 336-5979 Email:

APAAccred@apa.org

Entering the University

ADMISSION AS A FRESHMAN

We seek to admit students who demonstrate the necessary skills to be successful in a rigorous academic environment. In selecting students for the freshman class, Pacific gives primary consideration to academic preparation and potential for successful study at the college level. Preparation is assessed by evaluating the high school transcript of college preparatory work, counselor recommendation, standardized test scores, a written essay and other information submitted by the applicant.

Pacific will not consider an individual for admission unless one of the following three criteria has been achieved:

- 1) a high school diploma or its equivalent
- 2) a passing grade on the General Education Development (GED) examination, or
- 3) a passing score on an independently administered, federally approved ability to benefit test.

Applications may be obtained by writing the Office of Admissions, Pacific University, 2043 College Way, Forest Grove, Oregon 97116-1797, or by calling 503-352-2218 or 800-677-6712. Applications are also available online at www.pacificu.edu.

Preferred application deadline is February 15. Notification of decision will be made on a rolling basis.

ADMISSION AS A TRANSFER STUDENT

Pacific considers transfer applicants based on their academic record and level of preparation, as well as academic recommendations. Based upon evaluation by the

Registrar's Office, transfer students from accredited institutions may receive full or partial credit for arts and sciences courses at the baccalaureate level. These courses must be completed with a grade of "C-" or higher. Academic departments decide which transfer courses satisfy requirements for majors and minors at Pacific. Students should consult the department chair in their major field. Students who transfer from an unaccredited college or university must successfully complete 30 hours of work at Pacific before consideration will be given to granting credit for course work completed at the previous institution. In computing transfer credit, 1.5 quarter hours is equal to 1 semester hour.

APPLICATION PROCEDURES FOR FRESHMEN AND TRANSFER STUDENTS

1. Forward completed application form and the nonrefundable \$40 application fee to the Office of Admissions.
2. Give recommendation form to counselor or appropriate faculty member to be completed and returned to Pacific University Office of Admissions.
3. Request that official transcripts for all academic work be forwarded to the Admissions Office. Transfer students with fewer than 30 semester or 45 quarter hours of transferable credits should submit their final high school transcript, standardized test scores and all college transcripts.
4. Submit SAT I or ACT scores. Transfer students are waived from this requirement if 30 semester hours or 45 quarter hours have been completed by the time of application.

INTERNATIONAL STUDENTS

Pacific University welcomes international students. Admission is based on academic preparation and proficiency in English. International students must submit:

1. An Application Form, available from the Office of Admissions.
2. The non refundable application fee of \$40.

3. Complete official academic records (with official English translation) covering all work taken at the secondary and university level (such as secondary school records, certificates of education, final government examinations, college, university, and technical school records)
4. Certification of Finances Form stating that sufficient financial resources exist to pay for all educational and personal expenses. (e.g., letter from bank, etc.)
5. An official score report of the Test of English as a Foreign Language (TOEFL) for those students for whom English is a second language. Results must come directly from the Educational Testing Service. No student copies will be accepted.

To enroll as an undergraduate student, an applicant must earn a TOEFL score of 550 (paper), 213 (computer) or higher. Students whose academic qualifications are sufficient but who need further language training can be given provisional admission to the College of Arts and Sciences. Full admission and the right to enroll in a full load of College of Arts and Sciences courses will be granted upon reaching a 550 (paper) or 213 (computer) TOEFL score through attendance in the English Language Institute. Pacific also offers a transitional admission program, for entrance into the University, please contact the international admission counselor for more details. All students who enter the United States on a student visa are required to carry at least 12 semester hours of course work in each semester.

DEPOSIT POLICY

All degree-seeking students who are admitted by the Office of Admissions are required to post a \$200 deposit no later than the Uniform Candidate Reply Date of May 1, to secure their place in the incoming class on a space-available basis. The deposit will be credited to the student's tuition payment charges for the first semester. New students may receive a refund of the \$200 deposit if requested before May 1. It is not refundable after that date.

CAMPUS VISITS

A visit to campus is the best way to learn about Pacific. Students are encouraged to make arrangements through the Office of Admissions to attend classes, meet with students and faculty, talk with an admissions counselor, tour the campus, dine in the university commons, and spend an evening in one of our residence halls. Accommodations for overnight visits are available Sunday through Thursday. Priority will be given to high school seniors.

READMISSION

To apply for readmission after an absence of one semester or more, a student must complete a brief Application for Readmission form, and submit official transcripts from all colleges attended during a student's absence from Pacific to the Assistant Dean of the College of Arts and Sciences.

COLLEGE LEVEL EXAMINATION PROGRAM (CLEP)

Each department or school will decide whether a specific CLEP examination may substitute for a specific course or entrance requirement. Credit may be granted for both subject and general CLEP examinations.

LIMITED ENROLLMENT FOR HIGH SCHOOL STUDENTS

Academically talented high school students may enroll as non-admitted students through the Registrar's Office for one course per semester with approval of the high school principal and the Pacific University course instructor. These students may apply for admission upon meeting requirements for degree seeking students.

Tuition & Fees

SCHEDULE OF FEES AND COSTS FOR ACADEMIC YEAR 2006/2007

Tuition

| | |
|--|----------|
| Annual (two 14-week terms)* Tuition for students for the academic year | \$21,954 |
| Semester (one 14-week term)* Tuition for students for the semester | \$10,977 |
| Part-time, per semester hour (1 through 11 credit hours) | \$916 |
| Summer, per semester hour | \$450 |
| Audit, per semester hour | \$350 |

Fees

Student Government/Activities **

| | |
|----------------|-------|
| Annual | \$170 |
| Semester | \$85 |

Health service **

| | |
|-------------------------------|-------|
| Annual | \$160 |
| Fall or Spring Semester | \$80 |

Technology **

| | |
|--------------------------------------|-------|
| Fall or Spring Semester | \$100 |
| Summer Term | \$35 |
| Annual (Fall, Spring & Summer) | \$235 |

Recreational **

| | |
|----------------|------|
| Annual | \$50 |
| Semester | \$25 |

Medical insurance **07

| | |
|---|-------|
| August 20, 2006 to August 20, 2007 (U.S. citizen) | \$765 |
| August 20, 2006 to August 20, 2007 (International) | \$765 |

Music

| | |
|---|-------|
| Private Lessons: (12 half-hour lessons, 0.5 credits) | \$250 |
| (12 one-hour lessons, 1.0 credits) | \$500 |
| Organ practice rental per semester | \$50 |

Study Abroad

| | |
|----------------|-------|
| Semester | \$250 |
|----------------|-------|

* **Overloads:** There is a credit plateau from 12-18 hours where tuition charges remain at the 12-credit level. Students enrolled for more than 18 credit hours are charged full-time tuition, plus the part-time semester hour charge for each credit hour above 18 hours.

** Applies to all students enrolled in 6 or more credits for the term. For summer session, the technology fee applies to all students enrolled in 3 or more credits.

Note: Students whose accounts are in delinquent status will not be eligible to register for the following semester.

2006/2007 ROOM/BOARD

Room and board rates are billed two times per year, fall semester and spring semester. Residents who live in University housing for the duration of both terms may enjoy the winter term at no additional charge. However, those who choose to vacate housing prior to the end of the spring semester or those who are not housed during the fall semester will be charged the standard weekly rate on a prorated basis for the month of January. All changes in housing status must be reported to the Housing Office for approval.

Room Rates

| ROOM RATES | ACADEMIC YEAR | SEMESTER |
|---|---------------|----------|
| Double, Triple or w/4 persons .. | \$3,220 | \$1,610 |
| Single | \$3,674 | \$1,837 |
| Double Suite/Quad Suite | \$3,822 | \$1,981 |
| Double/Single (Double Room-one occupant) or Quad w/2 persons | \$4,108 | \$2,054 |
| Single Suite | \$4,244 | \$2,122 |
| Vandervelden Four bedroom units | \$4,482 | \$2,241 |

| | |
|--|-----------------------|
| Vandervelden Studio (one available) | |
| ..... | \$4,950 \$2,475 |
| Burlingham Hall 6 person apt/double room | |
| ..... | \$4,410 \$2,205 |
| Burlingham Hall 6 person apt/single room | |
| ..... | \$4,716 \$2,358 |
| Burlingham Hall 4 person apt/single room | |
| ..... | \$5,130 \$2,565 |
| Burlingham Hall 4 person apt/double room | |
| ..... | \$4,554 \$2,277 |
| Burlingham Hall 3 person apt/ double room/RA room | \$4,554 \$2,277 |

Pacific University's Flexible Dining Memberships

Memberships come in many convenient shapes and sizes. By combining a "Block Meal Allowance" with "Declining Balance Dining Dollars," you can customize a plan that's right for you.

Block Meal Allowance

No "missed meals"! You start the term with a block or number of meals. One meal is subtracted from your block plan each time you dine for dinner and weekend brunches. Enjoy all you care to eat at dinner and brunch in the University Center.

Declining Balance Dining Dollars

Pay as you go – it works like a bank debit card. Your declining balance dining dollars are used for breakfast, lunch and snack items and the purchase amount is subtracted from the balance in your account.

Meal Plans

These meal plans are designed to fit your lifestyle. So whether you're on the go or away from campus and may not always have time for three meals a day, an active soccer player that needs fuel for your body, or some where in between – one of these plans is for you.

Plan A

Fall term: 88 Block Meals + \$650 in Declining Balance
Spring term: 88 Block Meals + \$650 in Declining Balance

Plan B

Fall term: 110 Block Meals + \$540 in Declining Balance
Spring term: 110 Block Meals + \$540 in Declining Balance

Plan C

Fall term: 132 Block Meals + \$430 in Declining Balance
Spring term: 132 Block meals + 430 in Declining Balance

Cost for Meal Plan

The cost of the meal plan options is the same for each plan, letting the student select the plan which best suits their individual needs.

| | |
|-----------------------|---------------------|
| Fall and Spring terms | \$1,568.00 per term |
| Annual | \$3,136.00 |

Students may change their meal plan during the first two weeks of the fall and spring terms. The unused declining balance amount will carry over from fall term, to winter III term, to spring term. Students have two options for any available declining balance value at the end of the spring term. They may use their value to bulk buy products, or have their value carry over to the next academic fall term. There is no refund or credit given for any declining balance.

TUITION AND FEE PAYMENT OPTION

I. Semester Plan

This plan allows you to pay "in full" before the beginning of each semester. Due dates for the 2006-2007 academic year are:

| SEMESTER | TOTAL PAYMENT DUE DATE |
|--|------------------------|
| Fall/Winter | August 15, 2006 |
| Winter | January 5, 2007* |
| <i>(for students entering winter term)</i> | |
| Spring | January 15, 2007 |
| Summer | May 15, 2007 |

*Students entering the University during the winter term will pay the tuition and fees prior to registration. If the student is enrolled full-time during the spring semester, the spring invoice will reflect a credit in the amount of the winter term tuition and fees. Students enrolled full-time in fall or spring semester are not charged tuition for winter term. If the payment is not made according to schedule, a late fee of \$50 will be assessed for each month that the payment is past due. The University will assess a charge of \$25 for checks returned to the University for non-payment.

II. Monthly Payment Plan

This plan allows you to pay tuition and fees in four installments each semester. For the fall term, payments begin on August 15, 2006, with additional payments due the 15th of each month. For spring term, payments begin on December 15, 2006; for summer term, April 30, 2007. There is an annual set-up fee of \$55 for choosing this option. If you sign up for this payment option after the first payment due date, it will be necessary to make up the payments from the previous months in order to become current on the payment plan. If payment is not made according to schedule, a late fee of \$50 will be assessed for each month that the payment is past due. The University will assess a charge of \$25 for checks returned to the University for non-payment.

| MONTHLY | PAYMENT DUE DATES |
|-------------------|--|
| Fall/Winter | August 15, September 15, October 15, and November 15, 2006 |
| Spring | December 15, 2006, January 15, February 15, and March 15, 2007 |
| Summer | April 30, May 15, June 15, and July 15, 2007 |

Note: (the following information is applicable to both the Semester Payment Plan and the Monthly Payment Plan)

Disbursement of Federal Family Educator Loan Program (subsidized and unsubsidized), Federal Perkins Loan and Health Profession Student Loan cannot occur until the borrower completes a promissory note and entrance interview. Disbursement of Federal Family Education Loan Program for Undergraduate Students and alternative loans such as CitiAssist occur only after credit approval of the loan application.

Anticipated disbursements of accepted and approved loans may be considered when calculating payment of student accounts. Student employment (Federal Work-study and Pacific Work-study) earnings are paid directly to the student and should not be considered in determining student account payment.

All checks to be credited to the student's account, including outside scholarship checks, Pacific University checks, and all other sources of payment must be endorsed and credited to the student's account in advance of the semester or as soon as they are available or received for the semester in order to avoid late fees.

BUSINESS POLICIES ON TUITION AND FEES

The University strives to maintain high educational standards at the lowest reasonable cost. Contributions from individual alumni, parents and friends of the University, and support from foundations and corporations help to reduce costs to students and their families through the University's development and fund-raising programs.

The Board of Trustees reserves the right to adjust costs after giving students due notice. The University reserves the right to modify or terminate the academic program in which the student is enrolled.

Students should make the necessary arrangements for the payment of all fees and charges in accordance with one of the University's payment options.

All payments must be made in United States funds.

Admissions Expenses

When a student applies for admission to the University, an “application fee” as determined by the College must accompany the application.

When a student is admitted to the University, a non-refundable advance payment deposit is required to complete the admission process. The deposit will reserve the student’s place in the incoming class on a space-available basis and will be credited to the student’s tuition payment charges for the first semester.

General Deposit

A general deposit of \$100 is charged to all new students and transfer students enrolled in the College of Arts & Sciences. This deposit remains with the University until the student either graduates or leaves the institution. Upon leaving, the deposit is refunded in full within a reasonable timeline unless outstanding charges exist on the account.

Business Office Policies

Students enrolling at Pacific University have a Business Office account opened in their names. Timely payment of the account is the responsibility of the student. A student’s registration in a new semester will not be complete until the previous semester’s financial obligations have been satisfied.

Pacific University’s philosophy on payment reflects the educational element of assuming and meeting one’s financial obligations carefully and completely. Payment due dates are established, depending on the tuition payment plan agreed to between the student and the University. Students receiving financial aid of any kind – including Pacific funds, loan funds, or outside scholarship funds – must be certain that all funds intended for their accounts have been processed and delivered to the University Business Office and credited to the proper student account. This includes endorsement of all checks to be credited to the students’ accounts.

Please visit our website at www.pacificu.edu/offices/bo/ or email us at cashiering@pacificu.edu or access your student account and pay on-line through Boxer Online.

Student Contract

Each student must complete a contract with the Business Office at the beginning of each academic year he or she is enrolled at Pacific University. This contract will provide the student’s name, ID number, payment plan selected and authorization to release information. This form must be completed and signed by the student. Without a completed form on file, the Business Office will not release information to any person other than the student.

Insurance

Medical insurance coverage is required for all students enrolled in at least six credits. Students with their own personal medical insurance coverage are exempt from participation in the University’s group plan if they properly complete and file a waiver form for each academic year by the first day of their academic year.

Group medical coverage is available both for dependents of insured students and during summer vacation. Contact the local insurance agent, Waltz Sheridan Crawford, at 503-357-3154 for premium rates and applications.

Personal property insurance is recommended. If parents’ insurance policies do not already cover students in school, several low-cost policies are available from local insurance companies. The University is not responsible for the property of students or employees and thus cannot be held accountable for any losses.

Past Due Accounts

The University reserves the right to deny access to courses, to withhold transcript of record or diploma, or to withhold registration for a subsequent term until all University charges and appropriate loans have been paid and a student’s account has been cleared.

Withdrawal and Refund Policy

Students who completely withdraw from all classes may be eligible for a refund of all or a portion of their University charges. Students must contact the Dean of Students Office to formally withdraw from the University.

The policy of refunding University charges reflects the formula, prescribed in Federal law, that governs the return of Federal funds to the appropriate financial aid programs. Refunds on all charges will be prorated on a *per diem* basis up to the 60 percent point in the semester. Students who withdraw formally before the first day of classes will be refunded 100 percent of their charges; those who withdraw after the 60 percent point in the semester will not be eligible for a refund. A copy of the refund schedule is available from the Financial Aid Office.

A hall presence fee of \$25 per day may be assessed against the student account for additional time residing in University Housing. Additional fees may be assessed if the University Meal Plan is continued.

Note: If a cash disbursement is issued to a student as a result of excess financial aid and the student subsequently withdraws from the University, the student may be required to repay the cash disbursement to Pacific in order to return funds to the applicable financial aid programs.

Change in Credit Hours

When a student modifies his or her schedule to change from an overload to full-time standing or from full-time to part-time standing, but does not completely withdraw from all classes, the following will apply:

- If the changes are completed prior to the last day of the add/drop period, the appropriate refund will be given.
- If the changes are completed after the stated add/drop period, no refund will be given for the reduction in courses. The student will forfeit all tuition refunds resulting from the change in standing.

Short-term Loans

Short-term loans are available to full-time students of the University who are in temporary need of financial assistance. In order to qualify for this loan, students cannot be delinquent or be in default on their Business Office account and must be able to demonstrate a means of repaying the loan within the current semester. Loans are available for up to \$2,000.

Students may have more than one loan but may not have more than \$2,000 outstanding at any time. Failure to repay the loan on the agreed-upon repayment schedule will cancel the student's privilege to borrow further from the Short-Term Loan or Emergency Loan programs for the remainder of the academic year.

Academic transcripts and/or diplomas will not be released for students who are delinquent on their loans at the time they are requesting the transcript or leaving the University. Students who terminate their enrollment at the University will have their loan due date changed to reflect their last day of enrollment.

Applications for the loan can be made through the Business Office. The loan application fee is \$10.

Financial Aid

www.pacificu.edu/financialaid/

The goal of Pacific University's financial aid process is to make a Pacific University education affordable. To that end, we offer a variety of merit-based scholarships and need-based grants, loans and employment opportunities. Funds for these awards come from institutional, state and federal sources.

We strongly encourage all families to apply for financial aid by completing the Free Application for Federal Student Aid (FAFSA). The FAFSA should be completed as soon as possible after January 1st each year, either electronically at www.fafsa.ed.gov, or by completing a paper version. While this application is not required for merit-based aid consideration, it is necessary to determine a family's "need" and then to provide applicants with a complete package of financial assistance.

It is also a good idea to look for outside scholarships. High school counseling offices, civic organizations, churches and businesses may have scholarships to award to local students. The Financial Aid Information Page at www.finaid.org contains links to several national scholarship search databases that might also be useful. Outside scholarships are considered resources that meet a family's "need" and may affect the student's receipt of other financial aid; in most cases, receipt of outside scholarships decreases the amount that students must borrow.

ELIGIBILITY CONSIDERATIONS

Students must be admitted to Pacific University to have their eligibility for financial aid determined. Students who are accepted under a "special" status, and students who are not candidates for a degree are not eligible for financial aid.

Students must maintain compliance with the Pacific University satisfactory academic progress policy as outlined in the Academic Policy section of this catalog to receive financial aid. Students who are in a "warning" or "probation" status may continue to receive financial aid for the semesters they are placed in that status.

Students who enter as freshmen are eligible for institutional and state financial aid for up to four academic years. Students who enter as transfer students are eligible for institutional and state financial aid for a period of time prorated on the basis of their entering class level: sophomores are eligible for three years, juniors for two and seniors for one. Students who enter as freshmen may receive Federal financial aid for up to six academic years. Students who enter as transfer students may receive Federal financial aid for a period of time prorated on the basis of their entering class level: sophomores are eligible for five years, juniors for four and seniors for three.

Students must be U.S. citizens or nationals, permanent residents, or resident aliens to be eligible for Federal financial aid. In addition, students must demonstrate federally defined "need" to qualify for Federal grants, work-study, and need-based loans. "Need" is defined as the difference between the student's Cost of Attendance (COA) for an academic year and the Expected Family Contribution (EFC) that results from calculations completed based on the student's FAFSA information. Students must be Oregon residents, and meet state-defined "need" criteria, to be eligible for state funds.

Students must attend full-time (12 or more credits per semester) to receive institutional, state and most Federal financial aid. Students must attend at least half-time (6 to 11 credits per semester) to receive certain Federal grants and loans. A very limited number of students who attend less than half-time may be eligible for certain Federal grants. Students who drop credits after they receive their financial aid may have their aid reduced or canceled.

FINANCIAL AID PROGRAMS

Scholarships

Academic Scholarships – Honors, Presidential, Trustee, University Scholarships, and Pacific Opportunity Awards are awarded on the basis of academic merit as indicated by such measures as the student's grade point average and standardized test scores. Awards range from \$3,000 to \$9,000 per year and are renewable for up to four academic years.

Pacific Pacesetter Scholarships – These scholarships are awarded to entering students who participate successfully in the Pacific Pacesetter Scholarship Competition held in the spring of the year they will begin their attendance at Pacific. Winners receive up to \$3,000 per year for up to four academic years.

Endowed and Restricted Scholarships – These scholarships are made available through the generous donations of friends of Pacific and are awarded to students who meet certain academic and other criteria specified by the donors of the funds. Amounts available vary annually, and separate application is not required. Awards are typically for one academic year only. A list of these scholarships is available in the Financial Aid Office.

UCC Tuition Scholarships – These scholarships are awarded to entering students who are dependents of United Church of Christ clergy members. Award amounts can be up to the equivalent of 50 percent of tuition. Students who receive these awards are not considered for academic scholarships.

UCC Matching Scholarships – These scholarships are awarded to students who receive a scholarship from the United Church of Christ. Students who demonstrate federally defined "need" receive up to \$1,500 in matching funds; students who do not demonstrate need receive up to \$500 in matching funds.

Grants

Pacific Grants – These grants are institutional awards made on the basis of "need." Award amounts vary annually and are renewable for up to four years as long as the student maintains sufficient need.

Talent Awards – These awards are institutional awards made on the basis of outstanding talent and participation in music and forensics. Award amounts vary annually and are renewable for up to four academic years. Participation may be required for renewal of some of these awards; recipients should contact the appropriate department (music or forensics) for their specific requirements.

Federal Pell Grants – These grants are available to students who demonstrate eligibility according to federally defined criteria. Award amounts in 2006-2007 are \$400 to \$4050 for the academic year.

Federal Supplemental Educational Opportunity Grants – These grants are given to the most needy Federal Pell Grant recipients, subject to fund availability. Award amounts in 2006-2007 are \$500 to \$1,500 for the academic year.

Oregon Opportunity Grants – These grants are available to Oregon residents who meet state-defined eligibility criteria. Award amounts in 2006-2007 are expected to be \$3464 for the academic year.

Employment

www.pacificu.edu/career/

Federal Work-Study – These work awards are made on the basis of federally defined need and fund availability. Award amounts vary annually. Recipients are eligible to work on-campus or in community service positions off-campus. Students may not work more than 20 hours per week when classes are in session and may not work during hours when they are scheduled to be in class.

Pacific Work-Study – These work awards are made to students who do not show federally defined need but who could benefit from employment. Recipients are eligible to work on-campus. Students may not work more than 20 hours per week when classes are in session and may not work during hours when they are scheduled to be in class. These awards are renewable for up to four academic years.

Loans

Federal Perkins Loans – These loans are awarded on the basis of federally defined need and fund availability. Award amounts vary annually and cannot exceed \$4,000 per academic year. Repayment begins nine months after the borrower graduates or maintains less than half-time enrollment. Loans begin to accrue interest at a fixed rate of 5 percent after the nine-month grace period ends.

Federal Stafford Loans – These loans are awarded up to federally established annual and cumulative maximum amounts based on the student's need, cost of attendance, dependency status and class standing. In general, loans are subsidized if they meet the student's federally defined need and unsubsidized if they exceed need. Dependent students are eligible for up to the following amounts per academic year in subsidized loan, unsubsidized loan or a combination of the two: freshmen — \$2,625; sophomores — \$3,500; juniors and seniors — \$5,500. Independent students may borrow unsubsidized loans up to an additional \$4,000 as freshmen or sophomores or \$5,000 as juniors or seniors. Repayment begins six months after the borrower graduates or maintains less than half-time enrollment.

Federal Parent Loans for Undergraduate Students (PLUS) –

These loans are available to credit-worthy parents of dependent students. Parents may borrow up to the student's entire Cost of Attendance minus the financial aid for which the student is eligible. Repayment begins 60 days after the loan is fully disbursed for the academic year. Loans begin to accrue interest at a variable rate not to exceed 9 percent, when the funds are disbursed.

Degree Requirements

Curricular Goals

Every graduate of the College of Arts and Sciences shall have a command of the tools of thought and language, including

- Inquiry, critical thinking and critical analysis
- Modeling, abstract thinking and structural thinking
- Quantitative reasoning
- Creativity
- Written and oral language so that ideas, knowledge, emotion, and experiences can be clearly articulated, persuasively defended and imaginatively conveyed.

Every graduate shall be prepared for a life of educated engagement, such that he or she will be able to:

- interpret and experience with an historical consciousness;
- cultivate creative means of expression and comprehension;
- develop and reflect on his or her own set of values;
- understand multicultural, diverse and global perspectives;
- access and evaluate information necessary to make informed decisions;
- participate as an informed citizen in terms of knowledge in the arts, humanities, social sciences, and natural sciences;
- engage in the practices of a discipline, understanding how the discipline's knowledge is constructed and used; and
- progress toward a productive and meaningful professional life.

The faculty of the College of Arts and Sciences has established the College's degree requirements in order to ensure that each student accomplishes these curricular goals.

BACHELOR OF ARTS DEGREE REQUIREMENTS

I. Credit Hours

120 semester hours are required for graduation.

II. College Core Requirements

All students are expected to undertake a broad course of study by completing with at least a "C-" each of the requirements listed below. No course may be counted for more than one requirement.

Note that the curricular goals for each Core requirement are listed below.

A. MATHEMATICS (3 semester hours)

All Math courses numbered 165 or higher, Psych 350 (Behavioral Statistics), Soc 301 (Social Statistics), or equivalent statistics courses.

Students who complete the Mathematics core requirement will:

- 1) develop proficiency in abstract thinking and an understanding of analytical and deductive reasoning;
- 2) be introduced to the language that is the foundation for mathematical modeling of the physical and social world, and to see how to use that language through applications and projects.
- 3) develop competency in symbolic, graphical and numerical skills, which are the basis of mathematical literacy.

B. WRITING (3 semester hours)

Engw 201 Expository Writing or Engw 202 Writing About Disability.

Engw 201 is devoted to the study of language for the purpose of improving students' writing and thinking skills. Sophomore standing is required.

Students who complete the Writing core requirement will:

- acquire an awareness of the conceptual, grammatical and rhetorical processes involved in writing effectively;
- produce nonfiction prose that is clear, concise, logically structured, gracefully expressed and audience-aware;
- generate intriguing and important claims supported by well organized, compelling and documented evidence;
- recognize the close relationship between writing and analytical thinking;
- experience the power of language and the pleasure of using it effectively;
- better understand the role of language and writing within the university, the professions and the world at large.

C. FOREIGN LANGUAGE

(102-level course or proficiency)

A proficiency in a language other than English must be demonstrated by the successful completion of a 102-level course or its equivalent.

A student may satisfy this requirement by passing a proficiency test administered by the World Languages department.

Students who have two years of high school study in a single language will be advised to take the 102-level course. The instructor for the 102-level course can approve a shift to a 101-level course, if required to meet the best educational achievement.

A student whose native tongue is not English may be exempted from the Foreign Language Core requirement by obtaining approval from his or her advisor and the Chair of the World Languages and Literatures department. The advisor shall notify the Registrar.

Students who complete the Foreign Language core requirement will:

- develop linguistic skills in all four areas of the language of concentration: listening, speaking, reading, and writing sufficient to achieve the

Intermediate-Low level according to the ACTFL proficiency guidelines for western languages, and the Novice-High level for non-western languages;

- familiarize themselves with the fundamental grammatical concepts needed to enhance the previously mentioned four linguistic skills;
- acquire cultural, historical and geographical knowledge associated with the language
- be able to interact with native speakers of the language; and
- enhance the grammatical knowledge of English by comparing it with the target language.

D. FIRST YEAR SEMINAR (ORIGINS, IDENTITY AND MEANING)

(4 semester hours)

All freshmen must take Humanities 100 in the fall semester. Transfer students need to substitute either one course in English composition and one course in either literature or philosophy (but not logic) or two courses in literature or philosophy (4-6 credits).

Students will learn efficient and effective approaches to the following skills.

- Critical thinking (engage in thoughtful, reflective and reasoned modes of inquiry and evaluation)
- Close reading (pay careful attention to the nuances and complexities of texts and the act of reading)
- Written Expression (provide written work that is clear, focused, complex, well-organized, documented effectively, grammatically correct)
- Verbal expression (provide oral presentations and/or responses that are focused and carefully phrased)
- Class discussion (engage in effective and appropriate modes of participation in class discussions)
- Listening (engage in active listening)
- Note-Taking (produce a written record of class lectures, discussion and reading)

- Time-Management (focus on the organization and prioritization of academic tasks)
- Write an 8-10 page Public Essay, evaluated through cross-sectional faculty grading, that engages in a substantial way, and demonstrates mastery of, several texts used in the course in a manner that is intended to be summative and reflective of the term while demonstrating the ability to read, think, and write critically.

Students work with texts from the pre-modern and modern eras (pre- and post-1500 CE) that deal with the notion of human origins, identity and meaning. The texts may be literary, historical, political, philosophical, artistic, or all of the above.

Students will

- in reading, studying, discussing, researching, and writing about these texts, gain an expansive view, critical appreciation and substantive understanding of some of the means by which human beings have sought to see and know themselves over the ages, i.e. how they have dealt with the origins of thought and being, the nature of human identity and the search for meaning;
- engage in active textual and cultural critique of the questions, principles and ideas that are raised by their course texts and course work;
- engage in active personal critique of their senses of their own identity, i.e. to what extent these might be constructed, shaped by, and derived from those of others.

E. COMPARATIVE CULTURAL STUDIES (3 semester hours)

All students must take three semester hours in courses designated as Comparative-Cultural Studies in the schedule of classes or catalog. The courses that qualify are those on the cultures of Asia, Africa, Latin America, or aspects of American culture that draw upon these areas or the culture of the indigenous peoples of North America, excluding foreign language instruction.

The Comparative Cultural Studies core requirement will:

- provide a sustained exposure to the world view/culture/experience of particular societies of Asia, Africa or Latin America

or

- provide a sustained exposure to the world view/culture/experience of particular minorities in America composed of Asian, African, Latin American or an indigenous people of North America.

F. THE ARTS (3 semester hours)

Three semester hours in Art, Music or Theatre. Students who complete the Art core requirement will do so by one of two means, or some combination of the two.

Path I

Students elect the participatory, "hands-on" path and complete the requirement by enrolling in one three-credit studio class in the Art Department, three semesters (at one credit per semester) in one or more Music ensembles or Theatre production courses. As a result of, or in the process of, fulfilling the core requirement in the arts by this path, students will:

- engage in simultaneous creative and aesthetic thought—the integration of the intellectual, experiential and the subjective—through an immersion experience in at least one of the arts;
- engage in spatial or temporal thinking in two dimensions, three dimensions, movement or time;
- develop skills relevant to producing a particular artistic product;
- engage in forms of communication other than the written or spoken word;
- explore aesthetic values and concerns of our culture and others, and gain understanding of the inextricable connection between art and culture;
- realize their creative potential.

Path II

Others fulfill the core requirement in the Arts by taking one three-credit course in the history or appreciation of one of the arts. These typical lecture courses operate along the lines of

Humanities courses. Students who elect this path will:

- become “active seers” and active listeners”; i.e., an informed audience for the arts;
- be able to critically analyze how creativity and self expression shape, define and reflect visual or aural culture;
- understand the commonality between the interconnectedness of the arts and the other disciplines—sciences, language, philosophy, history and social change.

G. THE SOCIAL SCIENCES

(6 semester hours)

Two courses from two different disciplines chosen from Anthropology, Economics, Political Science, Psychology, Sociology and Social Sciences.

Students who complete the Social Sciences core requirement will:

- be familiar with uses and biases of social science approaches to the explanation of social or psychological phenomena;
- be able to use theoretical concepts from two different social science disciplines to describe and explain social or psychological phenomena;
- be familiar with quantitative or qualitative methods used by social scientists to gather and analyze evidence;
- be familiar with substantive results of social science research about social or psychological issues and problems;
- be familiar with social science approaches used in dealing with value judgments about issues and problems.

H. THE HUMANITIES (6 semester hours)

Two courses from two different disciplines, chosen from Literature*, History, Philosophy (inc. Rel 110), Media Arts (MedA 110, 111, 112, 120, 301, 302, 401, 422 only), Peace and Conflict Studies (PACS 211, 325, 411, 430 only) and Humanities (except Hum 300, but including FS 201). (*Literature courses include English courses with the prefix Engl and selected courses in Chinese, French,

German, Japanese and Spanish as indicated in the course descriptions.) Latin 101 or 102 may fulfill one course toward the Humanities core requirement.

Students who complete the Humanities core requirement will have the ability:

- to analyze, interpret and evaluate texts critically as they relate to the humanities;
- to communicate effectively and to persuasively defend and imaginatively convey ideas, knowledge, emotions and experiences;
- to reflect on one’s own culture and set of values and to understand and appreciate the values of other cultures/peoples/areas within their own context.

I. THE NATURAL SCIENCES

(6-8 semester hours)

Two courses from two different disciplines, chosen from Biology, Chemistry, Environmental Science (Env 200 and Env 210 only), Exercise Science, Physics, Science, or two courses with laboratory in the same discipline (8 semester hours). No 190 courses may be used to satisfy this requirement.

Students who complete the Natural Science core requirement will:

- develop a scientific understanding of the natural world;
- recognize the distinctive nature and limits of scientific knowledge: that it is an evolving model of the natural world discovered and verified through experimentation and observation;
- use qualitative and quantitative scientific methods and reasoning within the context of one or more disciplines in the natural sciences.

J. SENIOR CAPSTONE

(2 or more semester hours)

A senior project, internship (with a presentation), or performance/show in the major.

III. Major

Majors require at least 24 hours, including 16 upper-division hours (exclusive of courses numbered 475). Major requirements are listed under the appropriate department.

IV. Grade Point Average of 2.0

A minimum grade point average of 2.0 in all coursework earned at Pacific. In addition, a 2.0 GPA is required in all majors and minors; check major and minor requirements, as some departments may have adopted a higher minimum than 2.0. All courses required for the bachelor degree and major must be included in the 120 hours presented for graduation. Only grades of "C-" or higher will transfer as credit toward the degree.

V. Upper Division Hours

40 hours of upper-division course work (numbered 300 and above), with no more than 10 hours of courses numbered 475 are required to satisfy this requirement.

All Study Abroad coursework through Pacific University or affiliates will be counted as upper-division. The first 31 credits of study abroad course work earned through Pacific University will count as Pacific University credit; the remainder of study abroad credit will be treated as transfer work and evaluated accordingly.

VI. Residency

- A. Students must complete at least 6 credits from Pacific University in upper-division courses in their major and 6 credits from Pacific University in upper-division courses for any minor. Individual departments may require that a greater number of credits be completed at Pacific University. For these requirements, consult the list of requirements for each major or minor.
- B. Students must complete 30 of the last 40 hours counted towards their degree at Pacific University.

BACHELOR OF SCIENCE DEGREE REQUIREMENTS

I. Core and Other Requirements

Candidates must meet all requirements for the Bachelor of Arts degree.

II. Major Declaration

Satisfy requirements for a major or a minor from the Division of Natural

Sciences or a major in Psychology with two additional science laboratory courses.

Students may earn only one Bachelors Degree at the College of Arts and Sciences.

DEGREE POLICIES

Declaration of Majors and Minors

1. Major requirements are listed elsewhere in the catalog under the appropriate departmental headings. The minimum requirement is 24 hours, of which 16 hours must be upper-division.
2. A Minor may be earned by meeting the requirements listed by a department. The minimum requirement is 15 hours, of which 6 hours must be upper-division.

Every student must have a declared major, with a schedule approved by a faculty advisor in the major department, by the end of the sophomore year. Students are urged to plan wisely for a major program well before that time, in consultation with the faculty advisor.

Minors must be declared by the end of the junior year and must be approved by a faculty member in the minor subject. Minors may be combined with majors to satisfy interests and to more effectively prepare for a profession.

Forms for declaration of majors and minors are available from the Registrar's Office.

Degree requirements for students preparing to teach are listed in the Education section.

Waiver of Departmental Requirements and Prerequisites

Students may apply to academic departments to waive requirements for a major or minor; the faculty may waive requirements if it is satisfied that the student has already achieved the knowledge expected. Similarly, prerequisites may be waived at the discretion of the instructor. Course waivers do not reduce the number of credits needed for any requirement.

48-Hour Rule

A maximum of 48 hours in a discipline may be applied toward the 120 credits required for graduation. Music majors may apply up to 60 hours of music

courses. A program of more than 48 hours that includes an internship may be approved by the Assistant Dean of Arts and Sciences by petition.

Ordinarily, a course prefix indicates a discipline, except that the groupings' – EXIP, EXMB, HPER, and SPMD; SOC and SOCWK; ARTST and ARTHI; ENGL and ENGW count as one discipline.

Activity Courses

A maximum of eight (8) credits of activity courses may count toward graduation in addition to any credits for activity courses prescribed by a student's major or minor. These one-credit courses are taken to enhance and to add value to a student's education. They typically focus on personal development, increased proficiency, or teamwork. Activity courses are: HPER 150 (all sections); MUS 150-167, 181-184, and 186-187; THEA 150-156; and 100- and 200-level DANC courses.

Internships

A maximum of 17 hours of internship credit will count towards graduation, of which no more than 14 credits may be taken in any one semester. A maximum of 10 hours may count toward upper-division.

Changes in Requirements

Students must meet the requirements for the Core and majors and minors from the catalog from their year of original matriculation or a subsequent year. If more than ten years has elapsed since a student's original matriculation, then the original date of matriculation will be replaced by the date of re-entry in the implementation of this policy.

A student may choose different catalogs to satisfy the Core and majors and minors requirements.

The Oregon Teacher Standards and Practices Commission sets requirements for prospective teachers. Students expecting to teach must satisfy those rules in effect at the time of graduation.

Part-time Status

Students who are registered for fewer than 12 credits by the end of the add/drop period will be considered part-time

students. Part-time status may adversely affect financial aid awards, athletic eligibility, and academic status.

Petitions

Students may seek exceptions to college requirements in extraordinary circumstances (upon consultation with their advisors) by petitioning the Standards and Advising Committee. Information on the process may be obtained from the Assistant Dean of the College of Arts and Sciences.

Graduation/Persistence Data

In accordance with the Student Right To Know Act DCL of August, 1991, Pacific University is required to publish graduation and persistence rates of the cohort of first-time freshmen. While most students graduate in four years, the six-year graduation rate for the entering class of 1999 is 64.7 percent.

Advancement to Candidacy for Degrees

Pacific University offers three degree conferment dates during the academic year: fall, winter and spring. Formal commencement is held in spring only. All degree candidates must submit an Application for Degree form to the Registrar's Office by January 15 for spring; June 15 for summer; or October 15 for winter graduation. Arts and Sciences students who are within 15 credit hours of graduation may march in Commencement and must submit an Application for Degree as above.

Graduation with Honors

Students receiving an Arts and Sciences baccalaureate degree will be designated cum laude if they achieve a cumulative grade point average of 3.50 to 3.69; magna cum laude if they achieve 3.70 to 3.90; and summa cum laude if they achieve 3.91 to 4.00. Students receiving the Doctor of Optometry, Doctor of Physical Therapy, Master of Occupational Therapy, or Master of Science in Physician Assistant Studies degrees will be designated with distinction if they achieve a cumulative grade point average of 3.50 or above.

Academic Programs

The College of Arts and Sciences is organized in four academic divisions and offers the Bachelor of Arts and Bachelor of Science degrees. Students may obtain an Oregon teaching license through the College of Education. Students interested in a teaching career should consult with the College of Education as early as

possible. Education programs are available at both the undergraduate and graduate level. Undergraduates must apply for admission, typically during the sophomore year, separately from their admission to the College of Arts and Sciences.

DIVISIONS, DEPARTMENTS AND MAJORS

Arts Division

| DEPARTMENTS | MAJORS |
|----------------------------|---|
| Art | Art |
| Music | Music with emphases in: <ul style="list-style-type: none"> • General Music • Performance • Music Education |
| Theatre & Dance | Theatre |

Humanities Division

| DEPARTMENTS | MAJORS |
|--|--|
| | Coordinated Studies in Humanities |
| Media Arts | Film and Video Production Integrated Media Journalism Media Arts |
| English | Creative Writing Literature |
| World Languages & Literatures | French Studies German Studies Japanese Spanish Modern Languages with emphases in: <ul style="list-style-type: none"> • Chinese • French • German • Japanese • Spanish |
| Philosophy | Philosophy with emphases in: <ul style="list-style-type: none"> • Philosophy • Bioethics |

Natural Sciences Division

| DEPARTMENTS | MAJORS |
|---|--|
| | Applied Science Bioinformatics |
| Biology | Biology with emphases in: <ul style="list-style-type: none"> • Biology • Ecology and Evolution • Molecular and Cellular |
| Chemistry | Chemistry with optional emphases in: <ul style="list-style-type: none"> • Biochemistry • Chemical Physics |
| Environmental Studies | Environmental Science with emphases in: <ul style="list-style-type: none"> • Biology • Chemistry Environmental Studies |
| Exercise Science | Exercise Science with emphases in: <ul style="list-style-type: none"> • Motor Behavior • Integrative Physiology |
| Mathematics and Computer Science | Computer Science Mathematics |
| Physics | Physics |

Social Sciences Division

| DEPARTMENTS | MAJORS |
|-------------------------------------|--|
| | International Studies |
| Business & Economics | Business Administration with optional concentration in: <ul style="list-style-type: none"> • Accounting • Marketing Economics |
| History | History |
| Politics & Government | Politics and Government |
| Psychology | Psychology |
| Sociology & Anthropology | Anthropology & Sociology Sociology Social Work |

APPLIED SCIENCE

The Applied Science program leads to a well-rounded, cross-disciplinary degree in science. It is well-suited for students seeking technical employment in areas where a cross-disciplinary background in science is desirable. It is also appropriate for students interested in a career in the high-tech industry, those planning further work in a specialty via a joint B.S. or B.S./M.S. program (particularly in engineering) or those transferring into programs in the health sciences. This major is also appropriate for students interested in teaching Middle School or High School science with an Integrated Science endorsement. They should consult with the College of Education about additional requirements.

In most cases, joint B.S. or B.S./M.S. programs have additional requirements beyond those of the Applied Science major. Any student interested in such a program should carefully review its requirements and consult with members of the Department of Physics.

Requirements

1. All requirements for two minors (excluding coaching) within the Division of Natural Science. If the department offers an applied minor, students must complete the requirements for it.
2. If appropriate, one of the passport courses their freshman year. If no passport course is taken freshman year, a seminar in one of the minors must be taken junior or senior year.

3. CS 150, Introduction to Computer Science I; OR
CS 230, Advanced Software Tools; OR
Math 301, Mathematical Modeling.
4. 28 hours of upper division work (including capstone) within the Division of Natural Sciences selected to meet specific career or interdisciplinary objectives. A faculty committee made up of the department chairs must approve these courses. Courses in approved science-related professional programs may be counted in this total, but no more than 4 hours of internship may be counted here.
5. The particular capstone will be determined by the advisor but must include 4 hours of senior project or one year of course work in an approved professional program (e.g. Physical Therapy, Optometry, Engineering). The project must include independent study and analysis of experimental or scientific literature. Examples of acceptable projects include:
 - A) A focused review of the literature that results in an original interpretation or novel application.
 - B) A pedagogical project for students interested in pursuing a career in teaching.
 - C) An internship at a government laboratory or an industrial site.
 - D) A community service project that uses innovative application of scientific principles and technology.
 The project will culminate in a written paper and oral presentation.

DEPARTMENT OF ART

Jim Flory, *Chair, Assistant Professor, Photography*

Patricia Cheyne, *Professor of Art*

Julia Alderson, *Assistant Professor of Art History*

Terry O'Day, *Associate Professor of Art*

Jan Shield, *Professor of Art*

Steve O'Day, *Instructor*

Art

In today's world, the well-rounded and liberally educated individual is becoming increasingly in demand. The truly educated person has a broad background. The Art program at Pacific University is equipped to provide students with a strong conceptual base, expressive direction, and instruction in artistic processes and techniques. Through the visual and tactile nature of Art, the faculty tries to integrate the consciousness of personal expression into every liberal arts and professional student. The Art program offers the opportunity for a major or minor concentrating in either a two- or three-dimensional emphasis for the working artist. Other opportunities include certification in teaching art at the secondary level, an integral Fine Arts curriculum, or a focus in Graphic Arts and Media Arts by the availability of a double major or major/minor in the two departments. Pacific University also offers specialized classes through a cooperative program with Oregon School of Arts and Crafts. For further information please contact the Art Department.

The Art faculty plants the seeds of artistic growth for all students through their offerings of concentrated singular and sequence course work. Students are expected to use the studio facilities on their own for at least two hours for every one hour of class instruction. In addition, advanced art students may work on directed study under individualized contracts where creative projects in the studio and internships are developed.

Expanding the human dimensions in Art continues to lead our graduates into various careers in art, as arts directors, teachers, or in preparation for graduate school. The program also seeks to provide art experience for application to problem solving, use of leisure time, and therapy. We look forward to your participation in our program.

Students planning to prepare to teach in public schools should consult with the College of Education.

The Art Department at Pacific University seeks to prepare students for:

- lifelong interest, appreciation and understanding of art;
- a life of creative involvement in expressive and technical artistic processes;
- being literate in the language of art – reading, writing, speaking related to the expressive processes and terminology;
- expanding ability to critique creative projects and artistic works by one's self and others;
- broadening the awareness of art history and cultural heritage;
- using artistic technologies related to one's areas of interest;
- increasing the nature of human perception, motivation and creation as a necessity for personal growth and well-being;

- doing independent and collaborative artistic research and projects;
- discovering the relationships among the arts, other academic disciplines, and the world;
- undertaking graduate study in art with a focus on two- and/or three-dimensional artistic work;
- pursuing expressive directions for individual creative growth as well as careers in art.

MAJOR IN STUDIO ART

All students wishing to declare an art major must submit an art portfolio to the art department. For further information on the details of this process, please contact the art department chair. All students who are accepted to be art majors must complete all core requirements and maintain a 3.0 average, with no class below a C- in the major.

Requirements

| | | |
|---------------|-----------------------------------|---|
| Artst 110 | Basic Design | 3 |
| Artst 210 | Drawing I | 3 |
| Arthi 270&271 | Western Art I & II * | 6 |
| Arthi 272-382 | Art History (one course) | 3 |
| Artst 485 | Independent Study / Seminar | 4 |
| Artst 495 | Senior Show | 3 |

* Survey of Western Art from prehistoric – present day

Additional courses including a concentration in an artistic area of interest created in upper-division and individualized study approved by the student's advisor

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* Note: A minimum of 16 upper-division hours must be included.

MINOR IN STUDIO ART

This minor can be structured to enhance a number of academic majors and provide creative options to both the liberal arts and professional programs of study.

Requirements

| | | |
|---------------|---|----|
| Arthi 105 | Foundations in Art | 3 |
| Artst 110 | Basic Design | 3 |
| Arthi 270-280 | Art History | 3 |
| Electives: | Selected additional arts courses, two of which must be upper-division ... | 12 |

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MINOR IN ART HISTORY:

Requirements

| | | |
|------------|--|---|
| Arthi 270 | Western Art I | 3 |
| Arthi 271 | Western Art II | 3 |
| Arthi 372 | Contemporary Art | 3 |
| Arthi 382 | Special Topics in Art History | 3 |
| Artst 110 | Basic Design | 3 |
| Electives: | Two additional art courses, one of which must be a studio class, and the other art history | 6 |

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COURSE DESCRIPTIONS

Arthi 105 Foundations in Art

This course will introduce various basic art media (both academically and artistically) to enhance understanding of the artistic process. The course will also present an art historical survey to help students appreciate how art media are used in different cultural contexts to create art. Strongly recommended as an introduction to other art history courses. No prerequisites. Meets arts core requirement. 3 hours.

Artst 110 Basic Design

Introduction to the basic elements of design through a concentrated study of its theory and application and by assignments in two- and three-dimensional media. The course is open to all students. 3 hours.

**Artst 205 Creativity and Disability
in Art and Music**

This course will introduce the student to the topic of the artistic process and the impact of disability on that process. The course will investigate the intersection between creativity and disability, whether the disability is physical or psychological. By examining the lives and the art works of selected artists and musicians, the class will discuss what happens to creative production when there is a challenge of disability in the artist's life and how disability may or may not affect an individual's artistic vision. 3 hours. Meets disability minor requirement. Does not fulfill art core requirement.

Artst 210 Drawing I

General studio instruction in drawing covering work in pencil, cont crayon, charcoal, pen and ink, and brush and ink. Design, composition, the rendering of light and perspective are explored, as well as working from the human figure. 3 hours.

**Artst 217 Computer Graphics I:
Image Design**

This course is an introduction to the use of the computer as an artistic and creative tool. The emphasis will be on generating images that demonstrate good design. Using software applications, the student will be expected to complete an art portfolio. No prerequisite. 3 hours.

**Artst 218 Computer Graphics I:
Illustration**

This course will use the computer as an artistic and creative tool. Software applications will be used to create an art portfolio of computer generated images emphasizing drawing and illustration skills. No prerequisite. 3 hours.

Artst 219 Painting : Watercolor

Studio course in expressive and illustrative watercolor painting techniques. Students explore and develop handling and control of watercolor processes and learn numerous painting techniques as well as the analysis of various papers and working surfaces. 3 hours.

Artst 220 Painting I: Oil/Acrylic

Studio work investigating methods and techniques related to acrylic, polymer, and/or oil-base paints. Each student generates a series of studies and original painting. Readings and discussion explore the essence of painting. 3 hours.

Artst 225 Sculpture I

Developing a working understanding of sculptural form, working with various mediums. Through reading, discussion, critique, and individual sculpting projects the student explores geometric, abstract and organic form. 3 hours.

Artst 226 Photography 1

A thorough nuts and bolts course to teach students basic camera handling operations as well as introductory photography concepts. Transparency film, class critiques, and pinhole photography are important elements of the course. This course is intended for Art majors and non-majors. A 35mm SLR camera is required for the course. 3 hrs. Offered yearly.

Artst 227 Photography Field Class 1:

This course covers practical applications of photography in various locations. Students must have a 35mm SLR camera and produce a print portfolio to bring with them to present . Additional course costs include some meals and lodging, admission fees, and film and processing. Limited to 15 students. 3 credits. Prerequisite: Artst 226 or consent of instructor. 3 credits. Offered summers.

**Artst 230 Printmaking I: Relief and
Silk-screen Printmaking**

This course will explore relief printmaking processes including but not limited to stamp prints, linoleum block prints and woodcut prints. In addition, it will teach the basics of one color silk-screen techniques. The history of printmaking and traditions of the multiples will also be discussed. Offered concurrently with Artst 330. 3 hours.

Artst 233 Printmaking I: Collagraphs and Non-Toxic Intaglio Printmaking

This class is designed to introduce students to the basic techniques of intaglio printing including, but not limited to, collagraphs, etching and intaglio. Monoprints will also be taught. All methods will be taught with non-toxic methods. The history of printmaking and tradition of multiples will also be discussed. Offered concurrently with Artst 333.

Artst 235 Illustration I

An introduction to illustration, including drawing techniques, type/fonts, compositional reduction, structural studies, various transfer and printing processes. Emphasis is placed on acquiring skills for use in a wide variety of artistic, commercial and occupational areas. 3 hours.

Artst 238 Papermaking

This course is an introduction to the creation of handmade paper as an art form. Sheet formation and decoration will be introduced. The processing of natural and recycled materials to create paper will also be taught. Uses of handmade paper in art forms such as sculpture and the artist book will be explored. The goal in offering this course is to enable students to explore handmade paper as a fine art medium. 3 hours.

Artst 240 Ceramics: Handbuilding I

Introduction to clay with an emphasis on handbuilding techniques and exploration of historical and contemporary directions. Included are discussions of how surface embellishment and firing processes affect both the function and aesthetics of the ceramic object. 3 hours. Offered fall semester.

Artst 245 Ceramics: Throwing I

Introduction to wheelworking techniques used with clay. Emphasis is on developing skill in relation to creating various simple forms. Included are discussions of how surface embellishment and firing processes affect both the function and aesthetics of the ceramic object. Prerequisite: Artst 240 or consent of instructor 3 hours. Offered spring semester.

Artst 250 Stained Glass

Designed to acquaint the student with three basic areas in the study and construction of stained glass: history, design concepts, and the acquisition of skills in cutting, soldering, and fitting glass. 3 hours.

Artst 260 Jewelry/ Metals Fabrication I

Introduction to non-ferrous metals fabrication techniques as applied to jewelry making and metalsmithing. Learn to solder, saw and form metal, as well as basic stonemasonry techniques. Historical overview of the meaning and use of jeweled and metal objects and their relationship to various cultures. 3 hours.

Artst 265 Jewelry/Casting I

Introduction to the lost wax casting process as applied to jewelry making and metalsmithing. Learn wax carving and mold-making procedures to produce models for casting. Historical overview of the meaning and use of jeweled and metal objects and their relationship to various cultures. 3 hours.

Arthi 270 Western Art I: Paleolithic through Gothic

This course surveys the history of Western art from pre-history to the Gothic era, focusing particularly on the social, political and religious contexts in which this work was created. Through an examination of major monuments, artists and movements, students will gain a greater understanding of the general development of art in the Western world, as well as a familiarity with the basic vocabulary and methods of art analysis. 3 hours.

Arthi 271 Western Art II: Renaissance to Present Day

This course surveys the history of Western art from the Renaissance to the present day, focusing particularly on the social, political and religious contexts in which this work was created. Through an examination of major monuments, artists and movements, students will gain a greater understanding of the general development of art in the Western world, as well as a familiarity with the basic vocabulary and methods of art analysis. 3 hours.

**Arthi 273 Art and Architecture
 of China**

This survey of the arts of China concentrates on painting, sculpture, metalwork, and ceramics from the Neolithic period through the 18th century. Major examples of architecture are also considered briefly. Emphasis is given to the development of Chinese landscape painting from the Tang dynasty up through the Qing period. The important philosophical and religious movements of Daoism, Confucianism, Buddhism and Chan (Zen) Buddhism are discussed in relation to Chinese art and society. Works of art are presented in their social and historical context so that students emerge with an appreciation for Chinese art and a general understanding of the culture of historical China as well. Meets cross-cultural core requirement. 3 hours.

**Arthi 274 Art and Architecture
 of Japan**

This class covers sculpture, painting, printmaking, ceramics, architecture, and landscape architecture from the Neolithic age through the great Ukiyo-e printmakers of the Edo period. The interrelationship of literature, philosophy, religion, and the arts is emphasized. Students emerge with an understanding of Japanese art in the cultural and historical context of Japanese society. Meets cross-cultural core requirement. 3 hours.

**Arthi 275 Art and Architecture
 of India**

This class surveys the sculpture, architecture, and painting of India, starting with the ancient Indus Valley civilization and Vedic period and ending with the art and architecture of the Shah Jahan era (mid 17th century). It covers indigenous art of the Buddhist and Hindu periods, and Indo-Islamic architecture and painting. A basic introduction to Buddhist, Hindu, and Islamic religion is included. Meets cross-cultural core requirement. 3 hours.

Arthi 280 Women in Art

This course is designed to explore the place of women in art. The course investigates both the image of women in art and women as artists. The class investigates how women have been portrayed in the art at different times and in different cultures. The goal of the class is to shine a light on material that has often been overlooked by the traditional art history canon. No prerequisites – Feminist Theory class desirable. Meets Feminist study minor requirement. 3 hours.

**Artst 300 Art Education: Class
 and Practicum**

This class is designed to teach methods of art instruction to the prospective elementary school teacher. Topics covered are creativity, developmental levels, Discipline Based Art Education, state and national standards, and lesson plan creation. There are hands-on experiences with different art media. In addition, Pacific students have the opportunity to work with children ages 4-12 in an after-school Art Workshop. No prerequisite. 4 hours.

**Artst 310 Drawing II:
 Advanced Drawing**

An advanced drawing class that challenges students to expand on the skills learned in Drawing I. Prerequisite: Artst 210 or consent of instructor. 3 hours.

**Artst 317: Computer Graphics II:
 Advanced Image Design**

This course is designed to allow students to further investigate the artistic processes taught in Artst 217. The student will be expected to complete a more advanced and complete art portfolio. Prerequisite: Artst 217, or Artst 218, or consent of instructor.

**Artst 318 Computer Graphics II:
 Advanced Illustration**

This course is designed to allow students to further investigate the artistic processes taught in Artst 218. The student will be expected to complete a more advanced and complete art portfolio. Prerequisite: Artst 217, or Artst 218, or consent of instructor.

Artst 320 Painting II : Oil/Acrylic
Continuation of Artst 220. Further study of the processes involved in painting using oil and acrylic colors and mediums. Emphasis on creation of original advanced works. Prerequisite: Artst 220. 3 hours.

Artst 325 Sculpture II
Advanced concepts and techniques of sculpting are explored, including the expressive and structural elements of man-made form. Emphasis on the expressive potential to be found in sculpting. Prerequisite: Artst 110, 210, or 225, or consent of the instructor. 3 hours.

Artst 326 Photography II
This course is intended for those students who have completed Photography 1. The major emphasis is to give students a solid foundation for seeing, processing and printing black and white images. The course takes a fine-art approach and is intended for Art majors and/or non- majors. Historical aspects of American photographers are introduced. Prerequisite: Artst 226. Offered yearly. 3 hours.

Artst 327 Photography Field Class II:
This course covers practical applications of photography in various locations. Students must have a 35mm SLR camera and produce a print portfolio to bring with them to present . Additional course costs include some meals and lodging, admission fees, and film and processing. Limited to 15 students. 3 credits. Prerequisite: Artst 226 or consent of instructor. Offered summers.

Artst 330 Printmaking II: Advanced Relief and Silk-screen
This class involves the more advanced printmaking student in further exploring the processes taught in Artst 230. It also challenges the students to explore their own artistic voice through the relief and silk-screen processes. Prerequisite: Artst 230. 3 hours.

Artst 333 Printmaking II: Advanced Collagraph and Non-toxic Printmaking
This class challenges the advanced printmaking students to develop their own personal artistic voice in the mediums taught in Artst 233. Prerequisite: Artst 233. 3 hours.

Artst 335 Illustration II
Continuation of Artst 235. Further development of illustration skills, and advanced techniques related to professional illustration. Student prepare a portfolio of illustrations related to their discipline. Prerequisite: Artst 235. 3 hours.

Artst 338 Advanced Papermaking
This course is designed to further explore the creation of handmade paper as an art form. Taking the basic skills learned in Artst 238 the students will use the media of papermaking to express their own personal artistic voice. The goal in offering this course is to have students become more sophisticated in their understanding of papermaking. 3 hours.

Artst 339 The Artist Book
This course is designed to explore the artist book as an art form. Different book structures will be taught to help each student find their own personal artistic voice. An extensive investigation of the importance of structure of the book (exterior, use of letter forms, and illustrations) aesthetically matching the interior content of the book will be an important part of the class. This class will be about both the creation and theory of bookmaking. Prerequisite: Artst 110 3 hours.

Artst 340 Ceramics/Handbuilding II
Continuation of the exploration of the ceramic media with an emphasis on handbuilding techniques. Additional study of firing techniques, glaze and slip application and their formulation will further an understanding of how surface treatment can enhance the three dimensional form. Students will be challenged to use this information to express their own creativity. Students are expected to assist in the bisque and glaze firing of their own work. Prerequisite: Artst 240 or consent of instructor. 3 hours. Offered fall semester.

Artst 345 Ceramics/Throwing II

Continued study of ceramic media with an emphasis on wheelworking techniques. Study of firing techniques, glaze application and formulation to further an understanding of how surface decoration can enhance form. Students are challenged to use this information to express their creativity. Prerequisite: Artst 245 or consent of instructor. 3 hours. Offered spring semester.

Artst 350 Stained Glass II

This course is designed to encourage experimentation with glass through slump molds, fusion and three-dimensional construction application. Prerequisite: Artst 250 or consent of instructor. 3 hours.

Artst 356 Color Photography

A comprehensive advanced course covering Polaroid, transparency film, and digital printing. Photoshop related to the digital darkroom including scanning from film and flatbed scanners will also be explored. Students will be encouraged to investigate their own emotional response to color. Prerequisite: Artst 226 and 326 or consent of instructor. 3 hours.

Artst 360 Jewelry/Metals Fabrication II

Continued study of the techniques learned in Fabrication I with a more complex application of skills. The emphasis is on the use of acquired skills to produce objects that become a personal expression. Prerequisite: Fabrication I or consent of instructor. 3 hours.

Artst 365 Jewelry/Casting II

A continuation of the study of the techniques learned in Casting I with a more complex application of skills. Emphasis on the use of learned techniques to produce objects that communicate a personal interpretation of the ideas and theory presented in class. Prerequisite: Artst 265. 3 hours.

Arthi 372 Contemporary Art

Through a survey of art movements since 1970, this course is intended to help students better understand the complex world of contemporary art. We will examine the varied social, political and technological contexts of contemporary art, as well as the various critical and theoretical models used to describe it. Prerequisites: One of the following: Arthi 105, Arthi 270, Arthi 271, or consent of the instructor 3 hours.

Arthi 382 Topics in Art History

This is a special topics course focusing on the specific interests of students and faculty, including thematic courses and in-depth studies of particular artists and movements from throughout the history of art. May be repeated for credit as topic varies. Prerequisites: One of the following: Arthi 105, Arthi 270, Arthi 271, or consent of the instructor. 3 hours

Artst 426 Photography III

This upper-level course deals with several advanced areas of photography. Topics that could be covered are studio lighting techniques for portraiture and still-life, the use and handling of medium format cameras, large print processing, and creative toning. Primarily a black and white class, some color film may be used. Prerequisite: Artst 226 and 326 or consent of instructor. Offered Winter III. 3 credits

Arthi 485 Art History Seminar

This seminar is designed for the advanced student who wants to pursue intensive, in-depth study, culminating in a research paper on a specific art historical topic. Students study under an instructor's supervision on their research project, and as the seminar is designed to help students create an artistic community on campus, are also required to participate in the seminar meetings. May be repeated. Prerequisites: Arthi 270, Arthi 271, Junior or Senior standing and instructor consent 4 hours.

Artst 485 Studio Art Seminar

This course is designed for the advanced art student who wants to pursue intensive in-depth study developing a body of individualized projects in one area of art. Students study under an instructor's supervision, and in addition the student will be required to participate in Seminar. Seminar is designed to create an artistic community for the advanced art student. May be repeated. Prerequisite: Junior or Senior standing, art major or minor, Artst 110 and Instructor's Consent. 2-7 credits.

Artst 498 Senior Show/Seminar

This class is the capstone experience for art majors. It gives the senior art major an opportunity for concentrated study to prepare a body of art work to be displayed in a senior show. A portfolio will be required. Each student will also present a thesis presentation on Senior Project Day. In addition, the student will be required to participate in Seminar, designed to create an artistic community for the advanced art student. Prerequisite: Artst 110 and Instructor's Consent. 3 credits.

ATHLETICS

The athletic program's primary purpose is to provide a wide range of athletic opportunities for students and members of the broader community. These opportunities include participation in physical conditioning, athletic competition and support or spectatorship at levels appropriate to the individual's own development and interests. The program is designed to complement the students academic pursuits as co-curricular activities and to enrich their overall experience at Pacific University.

Pacific offers 20 intercollegiate sports, fielding men's and women's teams in basketball, cross country, golf, soccer, swimming, tennis, track and field, and wrestling. We also offer men's teams in baseball and women's teams in lacrosse, softball and volleyball. Club teams offered include handball. Approximately one-third of the undergraduate student body participates in sports at the intercollegiate level. Pacific is a member of the Northwest Conference, one of the best athletic conferences in the nation, and is affiliated with the NCAA Division III.

The Pacific Athletic Center, commonly referred to as "The PAC," is the home for athletic activities at Pacific. It is a spacious athletic complex that houses a gymnasium with three activity areas; a state-of-the-art fitness center: a field house with an indoor softball/baseball facility, including two batting cages, four volleyball courts, two basketball courts, two tennis courts and an indoor walking track. There are three handball/racquetball courts, saunas, dance studio and wrestling room. The training room is equipped with whirlpools, electric stimulation unit, ultra sound, hydrocultuator, Cybex and other state-of-the-art equipment.

The New Cedar Street Athletic Complex will provide state of the art competition venues for Pacific Athletic outdoor programs. Other outdoor facilities include four tennis courts,

practice soccer fields, and a soccer game field near the heart of campus. Baseball and softball are played in Lincoln Park, which is located adjacent to the Pacific Athletic Center. Swimming is held in the Forest Grove Aquatic Center, located beside the Pacific Athletic Center.

Pacific's athletic programs have achieved excellence on and off the court or field of play. In the 1990s, Pacific teams won 11 conference championships, six district or regional titles, and participated in national championship competitions 24 times. Pacific's athletes also excel in the classroom, boasting many Northwest Conference and NCAA Division III Scholar Athletes.

Ken Schumann, M.Ed., *Director of Athletics*

TBA, *Athletic Facility Supervisor*

Jeff Grundon, B.S., *Assistant Director of Admissions/Athletics*

Adrian Hennig, B.A., *Assistant Athletic Facility Supervisor*

Machi Machida, B.S., ATC-R, *Assistant Athletic Trainer*

Vicki McGee, B.A., *Athletics Secretary*

Linda McIntosh, M.S., ATC-R, *Head Athletic Trainer*

Richard Rutt, Ph.D., *Athletic Trainer*

Lisa Sardinia, Ph.D, J.D., *Faculty Athletic Representative*

Gary Saxton, M.S., ATC-R, *Assistant Athletic Trainer*

Andrea Stewart, *Manager of Administrative Services, Athletics*

Blake Timm, B.A., *Sports Information Director*

INTERCOLLEGIATE PROGRAM

Greg Bradley, *Baseball Coach*

Jeff Thompson, *Women's Basketball Coach*

Jason Lowery, *Men's Basketball Coach*

Ron Tabb, *Men's and Women's Cross Country and Track & Field Coach*

Richard Warren, *Men's and Women's Golf Coach*

Wynne Lobel, *Women's Lacrosse Coach*

Jim Brazeau, *Men's Soccer Coach*

Joy Boswell, *Women's Soccer Coach*

Tim Hill, *Softball Coach*

TBA, *Men's and Women's Swimming Coach*

Jeff Thompson, *Men's Tennis Coach*

Sandy Garry, *Women's Tennis Coach*

Chris Stanley, *Volleyball Coach*

Scott Miller, *Men's and Women's Wrestling Coach*

CLUB SPORTS

Mike Steele, *Ph.D., Handball*

INTRAMURAL SPORTS

Providing quality participatory experiences for the entire student body, the Intramural Program at Pacific offers several activities for men and women throughout the academic year. Flag football, volleyball and 3-on-3 basketball are offered in the fall, 5-on-5 basketball in the winter, and softball and soccer in the spring. Additional activities are announced on a yearly basis.

CLUB SPORTS

The club sports program at Pacific is a student driven organization satisfying the needs not met by the varsity and intercollegiate athletic programs of the University. The purpose of the club sports program is to provide students with the opportunity to participate and compete in a sport at the club level, to develop organizational and leadership skills and to improve skills in and knowledge of a sport.

BIOINFORMATICS

Shereen Khoja, *Assistant Professor, Computer Science*

Christopher C. Lane, *Assistant Professor, Mathematics and Computer Science*

Douglas J. Ryan, *Professor, Computer Science*

Lisa M. Sardinia, *Associate Professor, Biology*

Jon Schnorr, *Associate Professor, Biology*

Bioinformatics is the science of storing, extracting, organizing, analyzing, interpreting and utilizing information. The approaches to the discipline of bioinformatics incorporate expertise from the biological sciences, computer science and mathematics. The major in bioinformatics is designed for students interested in molecular biology and genetics, information technologies and computer science. Bioinformaticists are involved in the analysis of the human genome, identification of targets for drug discovery, development of new algorithms and analysis methods, the study of structural and functional relationships, and molecular evolution.

GOALS FOR THE MAJOR

In successfully completing a major in Bioinformatics, students must demonstrate:

- knowledge and awareness of the basic principles and concepts of biology, computer science and mathematics.
- the ability to effectively apply existing software to extract information from large databases and use this information in computer modeling.
- problem solving skills, including the ability to develop new algorithms and analysis methods.
- understanding of the intersection of life and information sciences, the core of shared concepts, language and skills.
- the ability to speak the language of structure-function relationships, information theory, gene expression, and database query.

MAJOR IN BIOINFORMATICS

Requirements

| | | |
|-------------------------------|--|-------|
| Biol 202 | General Biology I | 4 |
| Biol 204 | General Biology II | 4 |
| Three of the following: | | 11-12 |
| | Biol 304 Experimental Design, Analysis & Writing | |
| | Biol 320 Cell Biology | |
| | Biol 330 Genetics | |
| | Biol 400 .. Molecular Biology | |
| | Biol 444 Evolution | |
| Chem 220 | General Chemistry I | 4 |
| Chem 230 | General Chemistry II | 4 |
| Organic Chemistry | ..... | 4-8 |
| Chem 240/241 | Survey of Organic Chemistry OR | |
| Chem 310/311 & 320/321 | Organic Chemistry I & II | |
| Chem 380 | Biochemistry | 3 |
| CS 150 | Introduction to Computer Science I..... | 4 |
| CS 250 | Introduction to Computer Science II | 3 |
| CS 300 | Data Structures | 3 |
| CS 445 | Databases | 3 |
| Math 207 | General Elementary Statistics | 3 |
| Math 240 | Discrete Mathematics | 3 |
| BINF 290 | Introduction to Bioinformatics | 1 |
| BINF 490 | Capstone | 3 |

57-62

Students majoring in Bioinformatics are encouraged to take a course in ethics as part of their College core requirements.

COURSE DESCRIPTIONS

BINF 290 Introduction to Bioinformatics

An introductory course for students interested in bioinformatics. This course provides a survey of the major issues in bioinformatics and the way these issues are being addressed by bioinformaticists. Faculty and outside speakers from industry and academia will make presentations and lead discussions. Prerequisites: Sophomore standing and Biol 202 with a "C-" or better or CS 150 with a "C-" or better.

BINF 490 Capstone

A capstone experience consisting of a field experience in an industrial or academic setting. Application of theories is emphasized. Arrangements for the course must be completed at least two weeks prior to the term in which the course is taken. The capstone experience must be taken during the senior year. Prerequisites: Instructor's consent, BINF 290, and completion of 16 hours of Biology and 10 hours of Computer Science (all with grades of "C-" or better). Graded P/N.

BIOLOGY

Edmond Alkalassy, *Assistant Professor*

Phillip D. Creighton, *Professor*

Stacey L. Halpern, *Assistant Professor*

Pamela T. Lopez, *Professor*

Lori Rynd, *Professor*

Lisa M. Sardinia, *Associate Professor and Biology Representative*

Jon Schnorr, *Associate Professor*

David Scholnick, *Associate Professor*

The Biology Department provides unique educational experiences for students in biology and related fields. The faculty in the department has particular expertise in ecology, botany, molecular biology, genetics, physiology, developmental biology, anatomy, vertebrate zoology, animal behavior, immunology and microbiology. Field courses provide direct experience through field trips to Henry Blodgett Arboretum, Malheur Field Station and other habitats throughout Oregon. Faculty have contacts at Oregon Health & Science University and at the Primate Center so students can arrange to do laboratory research at those locations.

The courses in biology are designed to provide the basic knowledge, skills and training necessary for students who intend to pursue professional study in the health sciences, graduate study in biological sciences or professional employment in some field of biology.

The Biology Department encourages students to obtain additional experience in the specialized area of their choice, through career internships or through independent research projects. Students also choose to complete one of three options: the Biology major, the Biology major with an emphasis in Ecology and Evolution or the Biology major with an emphasis in Molecular and Cellular Biology.

The Biology Department sponsors the Omicron Xi Chapter of Beta Beta Beta, a national biological honor society, whose purpose is to promote student interest and participation in research. The Department also sponsors the Biology Club to promote student interest in biology and provide biology students with opportunities to socialize outside of class.

GOALS FOR THE MAJOR

In successfully completing a major in biology, students must demonstrate:

- an understanding of the basic principles and concepts of biology
- an in-depth knowledge of three areas of biology:
 - 1) cell/molecular/genetics
 - 2) structure/function/systematics
 - 3) ecology/evolution/behavior
- the ability to think critically and synthesize information from a variety of different sources
- the ability to communicate effectively in the discipline, both orally and in writing

The Biology Department offers three options for a Biology major. While a student may take courses in any area of biology, students may choose only one option in the Biology Department.

Restrictions: In order to receive a Biology degree from Pacific University, a student must complete Biol 490 Senior Capstone Experience and at least three additional upper-division Biology courses on campus. Students may not receive a degree in both Biology and in Environmental Science with a Biology emphasis.

Though not a requirement for a Biology major, it is strongly recommended that Biology majors planning graduate work include a statistics course and independent research.

MAJOR IN BIOLOGY

Requirements

| | | |
|----------|--------------------------|---|
| Biol 202 | General Biology I | 4 |
| Biol 204 | General Biology II | 4 |

| | | | | | |
|---|--|------|---|--|-----|
| Biol 490 | Senior Capstone Experience | 2 | Biol 490 | Senior Capstone Experience | 2 |
| Biol | One upper- division course from Group I | 4 | Biol 305 | Ecology | 4 |
| Biol | One upper- division course from Group II | 4 | Biol 444 | Evolution | 3 |
| Biol | One upper -division course from Group III | 4 | Biol | One upper- division course from Group I | 4 |
| Biol | Three additional upper -division Biology courses (excluding Biol 490 and 475). Eight hours of Biol 224 and Biol 240 may be substituted for 4 hours of upper-division elective. Up to 4 hours of Biol 495 may be used toward elective hours. Up to 4 hours of Chem 380 or ES 301 may be used toward elective hours. ... | 9-12 | Biol | Two upper- division courses from Group II | 8 |
| Chem 220 | General Chemistry I | 4 | Biol | One additional upper-division Biology course (excluding Biol 490 and 475). Eight hours of Biol 224 and Biol 240 may be substituted for 4 hours of upper division elective. Biol 495 with an approved project or Chem 380 may be used toward elective hours. | 3-4 |
| Chem 230 | General Chemistry II | 4 | Chem 220 | General Chemistry I | 4 |
| Chem 240/241 (Or Chem 310/311 & 320/321) | 4-8 | | Chem 230 | General Chemistry II | 4 |
| CS 130 | Introduction to Software Tools | 2 | Chem 240/241 (Or Chem 310/311 & 320/321) | 4-8 | |
| One of the following 2-course clusters:7-8 | | | CS 130 | Introduction to Software Tools | 2 |
| CS 150 | Introduction to Computer Science I | | One of the following 2-course clusters:7-8 | | |
| CS 250 | Introduction to Computer Science II | | CS 150 | Introduction to Computer Science I | |
| | OR | | CS 250 | Introduction to Computer Science II | |
| Math 226 | Calculus I | | | OR | |
| Math 301 | Mathematical Modeling | | Math 226 | Calculus I | |
| | OR | | Math 301 | Mathematical Modeling | |
| Phy 202 | Introduction to Physics I | | | OR | |
| Phy 204 | Introduction to Physics II | | Phy 202 | Introduction to Physics I | |
| | OR | | Phy 204 | Introduction to Physics II | |
| Phy 232 | General Physics I | | | OR | |
| Phy 242 | General Physics II | | Phy 232 | General Physics I | |
| | | | Phy 242 | General Physics II | |

53-59

52-60

MAJOR IN BIOLOGY WITH AN EMPHASIS IN ECOLOGY AND EVOLUTION

Requirements

| | | |
|----------|--------------------------|---|
| Biol 202 | General Biology I | 4 |
| Biol 204 | General Biology II | 4 |

It is strongly recommended that students take 3 courses with extensive field experiences (see designations within Groups).

MAJOR IN BIOLOGY WITH AN EMPHASIS IN MOLECULAR AND CELLULAR BIOLOGY

Requirements

| | | |
|---|---|------|
| Biol 202 | General Biology I | 4 |
| Biol 204 | General Biology II | 4 |
| Biol 490 | Senior Capstone Experience | 2 |
| Biol | One upper- division course from Group I | 4 |
| Biol | Three additional courses selected from the following courses: | 9-12 |
| | • Biol 224/240 Human Anatomy AND Human Physiology | |
| | • Biol 304 Experimental Design, Analysis & Writing | |
| | • Biol 308 Microbiology | |
| | • Biol 320 Cell Biology | |
| | • Biol 330 Genetics | |
| | • Biol 400 Molecular Biology | |
| | • Biol 405 Immunology | |
| | • Biol 444 Evolution | |
| | • Biol 480 Advanced Methods in Cell Biology | |
| | • Biol 495 Research (approved project) | |
| | • Chem 380 Biochemistry | |
| Biol | One upper-division course from either | |
| | • Biol 350 Principles of Development OR | |
| | • Biol 470 Animal Physiology | 4 |
| Biol | One upper- division course from Group III | 4 |
| Chem 220 | General Chemistry I | 4 |
| Chem 230 | General Chemistry II | 4 |
| Chem 310/311 | Organic Chemistry I | 4 |
| Chem 320/321 | Organic Chemistry II | 4 |
| CS 130 | Introduction to Software Tools | 2 |
| One of the following 2-course clusters:7-8 | | |
| CS 150 | Introduction to Computer Science I | |
| CS 250 | Introduction to | |

| | | |
|----------|----------------------------------|---------------|
| | Computer Science II OR | |
| Math 226 | Calculus I | |
| Math 301 | Mathematical Modeling OR | |
| Phy 202 | Introduction to Physics I | |
| Phy 204 | Introduction to Physics II OR | |
| Phy 232 | General Physics I | |
| Phy 242 | General Physics II | |
| | | 56-60 credits |

*Courses designated with (F) include extensive
field experiences.*

Group I: Cell/Molecular/Genetics

| | |
|----------|-------------------|
| Biol 308 | Microbiology |
| Biol 320 | Cell Biology |
| Biol 330 | Genetics |
| Biol 400 | Molecular Biology |

Group II: Structure/Function/Systematics

| | |
|----------|---------------------------|
| Biol 316 | Plant Biology |
| Biol 350 | Principles of Development |
| Biol 410 | Invertebrate Zoology (F) |
| Biol 420 | Vertebrate Zoology (F) |
| Biol 430 | Plant Systematics (F) |
| Biol 470 | Animal Physiology |

Group III: Ecology/Evolution/Behavior

| | |
|----------|------------------------------------|
| Biol 305 | Ecology (F) |
| Biol 340 | Animal Behavior (F) |
| Biol 345 | Marine Biology (F) |
| Biol 450 | Tropical Rainforest Biology (F) |

MINOR IN BIOLOGY

Requirements

| | | |
|--------------------------|----------------------------|-------|
| Biol 202 | General Biology I | 4 |
| Biol 204 | General Biology II | 4 |
| Chem 220 | General Chemistry I | 4 |
| Chem 230 | General Chemistry II | 4 |
| Biology electives: | | 10-12 |

Three additional upper-division Biology classes excluding Biol 490 and 495. At least one of these courses must be lab based. Eight hours of Biol 224 and Biol 240 may be substituted for 4 hours of upper-division elective.

26-28

Restrictions: In order to receive a Biology minor from Pacific University, a student must complete three upper-division Biology courses on campus.

Any student interested in a Biology minor should consult with a faculty member in the Biology Department.

COURSE DESCRIPTIONS

Biology (Biol)

Courses designated with the symbol (F) include extensive field experiences.

Biol 105 Biology is Life

This course provides non-science majors with an introduction to four fundamental aspects of biology: the scientific method, genetics, evolution and environmental issues. There are no prerequisites. (Does not count toward a Biology major or minor.) 3 hours.

Biol 110 Human Biology

An introduction to basic anatomy and physiology of the human organism. This course is designed for non-science majors. Laboratory is integrated with lecture. There are no prerequisites. (Students cannot receive credit for Biol 110 and any combination of Biol 224, 240, 300 or 302.) (Does not count toward a Biology major or minor.) 4 hours.

Biol 145 Marine Biology for Nonscience Majors

An introduction to organisms and processes in the marine environment. Organismal adaptations and interactions of organisms with the environment are stressed. Includes some aspects of environmental and economic issues as they relate to biology of the ocean. Some weekend field trips required. Additional fee required. (Does not count toward a Biology major or minor.) 3 hours.

Biol 170 Human Genetics

This course introduces students to the study of inheritance in all of its manifestations, from the distribution of human traits in a family

pedigree to the biochemistry of the genetic material in our chromosomes, DNA. The course examines the inheritance of traits in individuals and families, how traits evolve and are maintained in human populations, the molecular basis for those traits, and the Human Genome Project. (Does not count toward a Biology major or minor.) 3 hours.

Biol 180 Biology of Human Reproduction

A study of the biology of human reproduction, designed primarily for the non-science major. This course emphasizes the anatomy, development and physiology of human reproduction. Some aspects of psychology and sociology are introduced as they relate to birth control, venereal disease, and control of reproduction. (Does not count toward a Biology major or minor.) 3 hours.

Biol 202 General Biology I

A survey of ecology, evolution, the diversity of life on earth, and the structure of plants and animals. Laboratory is integrated with lecture. (NOTE: There are no prerequisites for this course. However, Biol 204 has prerequisites of Chem 220, Chem 230, and Biol 202 – all with grades of “C-” or better.) 4 hours.

Biol 204 General Biology II

Basic principles of cell and molecular biology for both prokaryotes and eukaryotes. The course includes cell structures and functions, metabolism, classical genetics, and molecular genetics. Laboratory experiences are integrated in the course. Prerequisite: Biol 202, Chem 220, and Chem 230 – all with grades of “C-” or better. 4 hours.

Biol 224 Human Anatomy

An examination of gross and histological structure of the systems of the human body. Laboratory is an integrated part of the course. (Students cannot receive credit for both Biol 110 Human Biology and Biol 224 Human Anatomy.) Prerequisite: Biol 202 (with a grade of “C-” or better.) 4 hours.

Biol 240 Human Physiology

A study of the physiological phenomena of the human body from the molecular level of cellular metabolic functions to the operation of primary and specialized organ systems. Laboratory experiences are integrated in the course. (Students can not receive credit for both Biol 110 Human Biology and Biol 240 Human Physiology.) Prerequisite: Biol 224 (with a grade of “C-” or better). 4 hours.

Biol 304 Experimental Design, Analysis, and Writing (R)

This course utilizes a hands-on, application-oriented approach to enhance student understanding of: framing scientific questions based on primary scientific literature; designing appropriate experiments; analyzing data statistically and graphically; writing technical reports; and presenting seminars. Course culminates in a student proposed, designed, and conducted independent research project. Prerequisite: Biol 204 (with a grade of "C-" or better). 4 hours.

Biol 305 Ecology (F)

A study of the processes that shape populations, communities, and ecosystems, including topics such as population dynamics, life history evolution, competition and predation, and nutrient cycles. Includes some applications of ecological principles to applied questions. Includes laboratory and field experiences. May include a three-day field trip with additional fee required. Prerequisite: Biol 204 (with a grade of "C-" or better). Recommended: Math 207 or Math 226. 4 hours.

Biol 308 Microbiology

A study of the structure, biochemistry, physiology, energy generation, genetics and diversity of prokaryotic organisms. Laboratory experiences are integrated into the course. Prerequisite: Biol 204 (with a grade of "C-" or better). 4 hours.

Biol 316 Plant Biology

Fundamental principles of plant biology with emphasis on morphology, anatomy, taxonomy, physiology and evolution of algae, non-vascular and vascular plants. Includes laboratory and field experiences. Prerequisite: Biol 204 (with a grade of "C-" or better). 4 hours.

Biol 320 Cell Biology

A study of the functions of biological systems from the molecular to the tissue level. The molecular biology of cells and the regulatory mechanisms for physiological processes are emphasized. Laboratory experiences are integrated in the course. Prerequisite: Biol 204 and organic chemistry (Chem 240/241 or Chem 320/321) — all with grades of "C-" or better. 4 hours.

Biol 330 Genetics

A study of the principles of heredity with emphasis upon transmission genetics, quantitative inheritance, the molecular basis of inheritance, and population genetics.

Laboratory experiences are integrated in the course. Prerequisite: Biol 204 (with a grade of "C-" or better). 4 hours.

Biol 340 Animal Behavior (F)

A study of the ecology and evolution of animal behavior, including such topics as foraging strategies, predator-prey interactions, mating systems, sexual selection and communication. Mechanisms of animal behavior (such as endocrinology, genetics and neurobiology) are also discussed. Includes laboratory and field experiences which are integrated into the course. Prerequisite: Biol 204 (with a grade of "C-" or better). 4 hours.

Biol 345 Marine Biology (F)

A study of life and processes in the marine environment. Organismal adaptations and interactions of organisms with the environment are stressed, with field trips to the marine intertidal zones. Includes some aspects of environmental issues as they relate to biology of the ocean. Some weekend field trips required. Laboratory experiences are integrated in the course. Additional fee required. Prerequisite: Biol 204 (with a grade of "C-" or better). 4 hours.

Biol 350 Principles of Development

A study of molecular and cellular aspects of development and embryological differentiation of selected species. Laboratory experiences are integrated in the course. Prerequisite: Biol 204 (with a grade of "C-" or better). 4 hours.

Biol 360 Selected Topics in Biology

Study of a particular field of biology selected by the instructor and approved by the Biology Department. May or may not include a lab. May be repeated for credit if the topic changes. Prerequisite: Biol 204 (with a grade of "C-" or better). There may be additional prerequisites depending on the topic. 3-4 hours.

Biol 400 Molecular Biology

A laboratory-intensive course focusing on nucleic acid biology, recombinant DNA and biotechnology. Prerequisite: Biol 204 and organic chemistry (Chem 240/241 or Chem 320/321) — all with grades of "C-" or better. 4 hours.

Biol 405 Immunology

A study of the mammalian immune system covering the molecules and mechanisms used to fight infection. The development of B and T cells and their role in the human immune response will be emphasized. The relationship of the immune system to human biology will

also be covered, for example, infectious disease, vaccines, allergies, and autoimmune disorders. Prerequisite: Biol 204 (with a grade of "C-" or better). Alternate years. 3 hours.

Biol 410 Invertebrate Zoology (F)
A study of invertebrate animals including their systematics, morphology and ecology. Laboratory experiences are integrated in the course. Some weekend field trips required. Additional fee required. Prerequisite: Biol 204 (with a grade of "C-" or better). 4 hours.

Biol 420 Vertebrate Zoology (F)
A study of vertebrate animals, including their systematics, life histories, morphological and physiological adaptations, behavior, and conservation. Includes field and laboratory experiences. Some weekend field trips may be required. Prerequisite: Biol 204 (with a grade of "C-" or better). 4 hours.

Biol 430 Plant Systematics (F)
Identification and classification of the vascular plants represented in the flora of the Pacific Northwest. Includes laboratory and field experiences. Some weekend field trips required. Additional fee required. Prerequisite: Biol 204 (with a grade of "C-" or better). 4 hours.

Biol 444 Evolution
An introduction to the history, methods, and current questions in evolutionary biology. This course will examine the evidence for evolution beginning with Darwin and ending with our current understanding of the human genome. The course will cover the theory of natural selection, the basis of heredity and variation, population structures and genetics, and the mechanisms of speciation. Special topics include human evolution, molecular evolution, and the relationship of evolution to society, philosophy and religion. Prerequisite: Biol 204 (with a grade of "C-" or better). 3 hours.

Biol 450 Tropical Rainforest Biology (F)
A study of tropical rainforest ecology and natural history, and current biological research in tropical rainforests. The course meets once a week during the fall semester, during which students gain the background required for the field component of the course held in Costa Rica during January. Course grades will be assigned at the end of January and will include work completed during both terms. Additional fee required. Prerequisite: Biol 204 (with a grade of "C-" or better) and consent of instructor. Alternate years. 4 hours.

Biol 470 Animal Physiology
The study of physiological function (molecular, cellular, and organ systems) in animals. The focus will be on the diversity of mechanisms used by animals for: water and solute regulation, gas exchange and transport, temperature regulation and tolerance, circulation, feeding and digestion, metabolism, excretion, neural control and integration, senses, and locomotion. Laboratory experiences are integrated in the course. Prerequisite: Biol 204 and organic chemistry (Chem 240/241 or Chem 320/321) – all with grades of "C-" or better. 4 hours.

Biol 480 Advanced Methods in Cell Biology
This course is a laboratory course designed to introduce the student to a variety of cellular and biochemical techniques for investigating the behavior and function of living cells. Students will be required to understand the concepts of the techniques used, as well as to demonstrate hands-on competence in the laboratory. This course is strongly recommended for those students interested in undergraduate research projects, graduate school, or employment as a laboratory technician. Prerequisite: grade of "C-" or better in Biol 308, Biol 320 or Biol 400. Junior standing recommended. 3 hours.

Biol 490 Senior Capstone Experience
This course is designed for senior Biology majors in which students develop a capstone paper and present a capstone seminar on an approved topic of their choice. The course requires that students integrate information from the primary and secondary biological literature as well as from their biological knowledge. The integrative paper and seminar will include information from each of the three group requirements for the Pacific University Biology major (Group I—cell/molecular/genetics; Group II—structure/function/systematics; and Group III—ecology/evolution/behavior). Prerequisite: senior standing in a major offered by the Biology Department. 2 hours.

Biol 495 Research
Faculty supervised, student-conducted, individual research project. Prerequisite: Biol 204 (with a grade of "C-" or better) and consent of instructor. 1-6 hours.

BUSINESS ADMINISTRATION

John Suroviak, *Chair, Associate Professor of Accounting*

Michelle Cowing, *Associate Professor of Business Administration*

Victor Kane, *Assistant Professor of Marketing*

Charles O'Connor, *Professor of Accounting*

Krishnan Ramaya, *Assistant Professor of Management*

A major within the Department of Business and Economics prepares students to enter a wide range of careers in business or in the public sector or to enter graduate programs. The degree develops broadly educated individuals who are flexible, skilled at solving problems, aware of a diversity of viewpoints and responsive to rapidly changing environments.

The department offers a major in business administration. Students majoring in business have the option of taking a concentration in accounting or marketing.

Students majoring in business plan core and elective courses in consultation with their faculty advisors in order to improve communication and analysis skills, develop the strongest possible background in their area of interest, and achieve a well-rounded liberal arts education. Off-campus internships are available for students who have identified or who wish to explore specific career options.

Internships are normally taken in the junior (second semester) or senior year. Students are required to obtain an overall grade point average of 3.0 or higher to be eligible for an internship.

MISSION STATEMENT FOR THE BUSINESS AND ECONOMICS DEPARTMENT

The mission of the business and economics department at Pacific University is to develop graduates with skills to manage organizations effectively and efficiently and to exercise responsible leadership. A broad business and liberal arts curriculum that emphasizes theoretical, applied and experiential learning is critical to this development. We offer a unique and a highly supportive learning environment, characterized by a relevant contemporary curriculum with innovative pedagogical methods.

GOALS AND COMMON SKILLS FOR BUSINESS MAJORS

A successful graduate of the department will be able to:

- read and understand standard textbooks and general publications covering topics in business and economics.
- write essays, short papers or major research papers in a clear and concise fashion with emphasis on content, style and analytical ability.
- organize and present ideas and information orally in small group settings and as a sole presenter.
- use data and statistics in order to understand and analyze relevant problems.
- use contemporary information technology effectively including the library, the Internet and computer software applications.
- design and carry out independent and collaborative projects.

The department has established guidelines to ensure that all of our business undergraduates will be proficient in the following common skills on successful completion of the program.

1. Critical thinking and problem solving
2. Effective writing
3. Technological competency
4. Effective oral communication
5. Quantitative reasoning
6. Library and information literacy
7. Ethical decision making

MAJOR IN BUSINESS ADMINISTRATION

The Business and Economics Department offers a major in Business Administration. Each student works with an academic advisor in the department to design a customized selection of elective courses that best fits the interests of the student. Students have the specific option of concentrating in accounting or marketing. Each major in Business Administration must complete 25-26 hours in core business administration courses, 9 hours in economics and 6 hours in statistics and computer science. Majors must also complete 12 elective credits in business administration or related areas, as approved by the departmental advisor.

A minimum 2.0 grade point average is required in all business and economics courses; only grades of "C-" or above may be used to satisfy department requirements, including Math 207 and CS 120. Normally, majors are required to complete satisfactorily Econ 101, Econ 102, BA 201, BA 202, Math 207, and CS 120 prior to taking any of the upper-division major requirements. Students who are planning to attend graduate school are encouraged to take a year of calculus. Students planning a career as a Certified Public Accountant must complete 150 semester hours of college course work, which is the equivalent of five years of college, prior to taking the CPA exam.

Business Administration Core

Requirements

| | | |
|-----------|--|-------------|
| Econ 101 | Principles of Macroeconomics | 3 |
| Econ 102 | Principles of Microeconomics | 3 |
| Econ 300+ | Upper-division economics elective | 3 |
| BA 201 | Financial Accounting Principles | 3 |
| BA 202 | Managerial Accounting Principles | 3 |
| BA 305 | Business Finance | 4 |
| BA 309 | Marketing | 4 |
| BA 340 | Management Science | |
| | OR | 4/3 |
| BA 350 | Operations Management | |
| BA 360 | Organizational Behavior & Management | 4 |
| BA 405 | Business Strategy (Senior Capstone) | 4 |
| Math 207 | General Elementary Statistics | 3 |
| CS 120 | The Information Era | 3 |
| Electives | Approved by the department | 12 |
| | | <hr/> 52/53 |

NOTE: One of the electives may be selected from outside the department with departmental approval.

Areas of Interest

Many career-oriented areas of focus within the business major are possible. Each student works with an academic advisor in the department to design the major that best fits the interests of the student. Each program can be tailored to prepare the student for careers in different functional areas of business. Students with a specific interest in accounting or marketing will likely pursue a concentration in this area.

The upper-division elective requirements of the major will generally be met by study within the business and economics department; however, a course from another area of the college may be included in the degree plan when such a course supports the student's major focus. An internship that is closely integrated with a student's major focus might satisfy some of the elective credit for the major in business.

Business Administration major with concentration in accounting

15

Required Courses:

| | | |
|-------------------|---------------------------------------|----|
| BA 313 | Intermediate Accounting ... | 3 |
| BA 316 | Cost Accounting | 3 |
| BA 357 | Income Tax Accounting | 3 |
| BA 435 | Accounting and Auditing Seminar | 3 |
| Two courses from: | | |
| BA 314 | Intermediate Accounting II . | 3 |
| BA 318 | Forensic Accounting | 3 |
| BA 425 | Advanced Accounting | 3 |
| BA 457 | Advanced Income Tax Accounting | 3 |
| | | 18 |

Business Administration major with concentration in marketing

Required courses:

| | | |
|---|-----------------------------------|---|
| BA 410 | Marketing Research | 3 |
| BA 440 | Advertising & Promotion .. | 3 |
| Two courses from the following of which one course must be a BA course: | | |
| BA 333 | Consumer Behavior | 3 |
| BA 337 | Fundamentals of Selling | 3 |
| BA 338 | Product Management | 3 |
| BA 443 | Special Topics in Marketing | 3 |
| Soc 355 | Consumer Society | 3 |
| Psy 160 | Culture & Behavior | 3 |
| Psy 308 | Social Psychology | 3 |

One course from:

| | | |
|----------|---|---|
| Art 217 | Computer Graphics Design | 3 |
| MedA 260 | Elements of Multimedia | 3 |
| MedA 265 | Web Design | 3 |
| MedA 305 | Designing for Electronic Media | 3 |
| MedA 360 | Integrated Media Project Management | 3 |

MINOR IN BUSINESS ADMINISTRATION

The Business and Economics Department offers a minor in Business Administration which requires completion of 22 hours of departmental courses. A minimum 2.0 grade point average is required. Any student interested in a Business Administration minor should consult with a faculty member in the Business and Economics Department.

Requirements

| | | |
|----------|--|----|
| Econ 101 | Principles of Macroeconomics | 3 |
| Econ 102 | Principles of Microeconomics | 3 |
| BA 201 | Financial Accounting Principles | 3 |
| BA 202 | Managerial Accounting Principles | 3 |
| BA 360 | Organizational Behavior & Management | 4 |
| BA 300+ | Business Administration Electives | 6 |
| | | 22 |

ACCOUNTING AND FINANCE

BA 201 Financial Accounting Principles

Introduction to accounting concepts and application of these concepts; financial statement preparation; accounting systems and controls; accounting for assets and liabilities; cash flow analysis and financial statement analysis; MS Excel is introduced and integrated into the course to solve accounting and finance problems. Prerequisite: Sophomore standing. 3 hours.

BA 202 Managerial Accounting Principles

Introduction to management accounting concepts and application of these concepts; cost terminology, behavior and systems design; the planning and control process; using cost data in decision making. Prerequisite: Sophomore standing. 3 hours.

BA 305 Business Finance

A study of the financial principles applicable to the business organization. Financial management of assets and the need for funds, sources and cost of obtaining short-term and long-term funds, capital budgeting. MS Excel and MS Access are integrated into this course. Prerequisite: BA 201 and BA 202. 4 hours.

BA 313-314 Intermediate Accounting

Financial accounting statement interpretation, presentation, and disclosure including coverage of functions and basic theory; asset recognition and measurement; liability recognition and measurement; stockholders' equity, dilutive securities, and investments; issues related to income measurement; and preparation and interpretation of financial statements. Prerequisites: BA201 and BA 202. BA 313 is a prerequisite to BA 314. 3 hours per semester.

BA 316 Cost Accounting

Discussion of the nature, objectives and procedures of cost accounting and cost control; job costing and process costing; theory and practice of accounting for manufacturing overhead; cost budgeting and control; cost reports, joint product and by-product costing; distribution costs; standard costs; differential cost analysis; profit volume relationships and break-even analysis. Prerequisite: BA 201 and BA 202. 3 hours.

BA 318 Fraud Examination

An introduction to forensic accounting. Students will learn how and why occupational fraud is committed, how fraudulent conduct can be deterred, and how allegations of fraud should be investigated and resolved. Students will also explore financial statement frauds. Prerequisite: BA 313 (or concurrently). 3 hours.

BA 325 Personal Financial Planning

This course covers concepts and techniques for managing personal financial affairs including the financial planning process, budgeting, taxes, credit, bank services, life, health and disability insurances, social security and retirement annuities, property and liability insurances, residential real estate, stock and bond markets, and estate planning and settlement. Prerequisite: Junior-standing. 3 hours.

BA 357 Income Tax Accounting

A study of the structure of federal tax laws and some of the motivating forces and policies shaping tax laws and concepts; determination of taxable income and the income tax liability as they relate to individuals; overview of the taxation of corporations and other entities; and an overview of Oregon income tax laws. Prerequisites: BA 201, BA 202, Junior standing. 3 hours.

BA 425 Advanced Accounting

Accounting for corporate business combinations using both the pooling of interests method and the purchase method, preparation of consolidated financial statements, and accounting for foreign operations. Prerequisites: BA 314. 3 hours.

BA 435 Accounting and Auditing Seminar

A discussion-based course that uses cases to explore realistic accounting and auditing issues. Students will be faced with unstructured problems and be required to provide analyses and recommendations. Prerequisite: BA 314 or concurrent enrollment and Senior standing. 3 hours.

BA 457 Advanced Income Tax Accounting

A study of federal income tax as it applies to C corporations, S corporations, partnerships, and limited liability companies (LLC), the gift tax, the estate tax, income taxation of trusts and estates, and internal revenue service administrative procedures. The primary focus of the course will be taxation of corporations. Prerequisites: BA 357. 3 hours.

MANAGEMENT AND ADMINISTRATION**BA 302 Small Business Management**

Development of the students' understanding of the economic and social environment in which small businesses function and the critical role of entrepreneurship in fostering business growth and development. The processes involved in initiating new ventures are discussed. The course focuses on the operations, marketing, financial, human resources and strategic management as well as the legal and governmental relations of the small firm. A detailed treatment of the problems involved in managing specific fields of small businesses in both service and manufacturing. Prerequisite: junior standing. 4 hours.

BA 306 Business Law

Introduction to the structure and functions of the American legal system followed by an overview of specific topics that are applicable to business. Topics include: contracts, sales, negotiable instruments, bankruptcy, suretyship, agency, partnerships, corporations, federal securities law, accountants, legal liability, employer and employee relationships, property, trusts and estates. Prerequisite: junior standing. 3 hours.

BA 312 International Business

Survey course covering recent and important issues in international business, trade and investment. Topics might include the International Business environment, the government and regulatory environment, international comparative environments, international monetary environment, international marketing, international finance, management strategies, and the future of international business. Prerequisites: junior standing. 3 hours.

BA 320 Human Resource Management

Functions of the personnel department in a business organization. Contributions of research in the social sciences to personnel administration. Operation and techniques of a personnel department including job evaluation, employee recruiting and selection, psychological testing, employment counseling, wage administration, labor management relations and other personnel programs. Prerequisite: junior standing. 3 hours.

BA 330 Technology Management

An introduction to the study of technology management. This course will introduce students to the phenomena of technology and the integral role it plays in the competitive development and growth of businesses. The primary focus will be on understanding the managerial aspects involved in managing technology in business organizations and how technology is critical in fostering competitive advantage. Prerequisite: junior standing. 3 hours.

BA 340 Management Science

An introduction to formalized methods used in managerial decision making and problem solving. The focus is on the development and use of decision models in a range of managerial applications. Techniques include decision analysis, linear programming, simulation, forecasting and project management. Development of computer-based decision models will be an integral part of the course. Prerequisite: Math 207 and junior standing. 4 hours.

**BA 342 Risk Management and
Decision Making**

Development, application, and integration of analysis tools and decision models to aid managerial decision making in the face of risk and uncertainty. Behavioral factors that influence judgment and decision making will also be considered. The course covers applications in environmental, technological, health/safety, and organizational risk management. Prerequisite: junior standing. 3 hours.

BA 350 Operations Management
Study of key concepts, quantitative techniques, and practices used in the management of the production of goods and services. Includes examination of product and process design, process analysis, total quality management, project management, materials management, capacity planning, work design, facility layout and operational scheduling. Prerequisites: Math 207 and junior standing. 3 hours.

**BA 360 Organizational Behavior
and Management**
An introduction to the functions of management and to the theory of human behavior in organizations. Management history, attitudes, skills, and managerial processes as well as an investigation of the theories of human behavior, motivation, communication, decision making, group and social processes, organizational culture, power, and leadership are addressed. Prerequisite: junior standing. 4 hours.

BA 405 Business Strategy
This course serves as the senior capstone course for students of business administration. It demands the integration of knowledge from all functional area business disciplines to make effective strategic decisions from an organization-wide perspective. The case study method of teaching combined with the dynamic application of course tools to real and simulated business situations are used. Prerequisite: BA 305, BA 309, BA 340 or 350, BA 360 and senior standing. 4 hours.

MARKETING

BA 309 Marketing
Introduction to marketing concepts and application of these concepts to the marketing of products, services, ideas, organizations, and people in both profit-oriented and nonprofit business environments. Topics include: marketing's role in society and within the firm; environmental evaluation; consumer buying behavior; market segmentation and target market selection; management of marketing mix variables (product, price, placement, promotion). Students gain experience in problem solving and communication through case analyses and presentations. Prerequisites: Econ 101 and 102 and junior standing. 4 hours.

BA 333 Consumer Behavior
Identification and analysis of environmental and individual factors which influence behavior in the consumer market, emphasizing consumer decision processes and market responses. Course includes case analysis, presentation, and individual semester projects. Prerequisite: BA 309, Junior standing or above. 3 hours.

BA 337 Fundamentals of Selling
Covers the basic foundation for understanding all major aspects of selling, from prospecting through sales closure and follow-up. Emphasizes the career track and duties of the professional salesperson and covers the importance of the sales function to the organization's success. Strong emphasis on ethical selling, practical skills development, and role-playing. Mini-lectures, video cases, and role-playing exercises will comprise the primary methods of instruction. Students will also learn how to use ACT! Express Customer Contact software as a powerful sales tool. Prerequisite: BA 309, Junior standing or above. 3 hours.

BA 338 Product Management

Examines the role of product innovation as the core focus of marketing strategy. Encompasses the formulation of new product strategies, marketing's role in product design and development, product line management, and organizational considerations in product management. The product management process will be explored in-depth through lecture, case analyses, and individual projects. Prerequisites: BA 309, Junior standing or above. 3 hours.

BA 410 Marketing Research

Application of research techniques and statistical analysis to business and marketing problems. Topics include technology in the research process, secondary and primary marketing research methodologies, sampling methods, and data analysis and reporting. Course includes case analyses and use of statistical data sets. Students will design an original market research project, gather and analyze the data, and present the findings as part of their individual project. Prerequisites: Math 207, BA 309, Junior standing or above. 3 hours.

BA 440 Advertising and Promotion Management

Introduction to the concept of integrated marketing communications (IMC) and the specific components that make up the IMC program, including advertising, direct marketing, Internet/interactive media, public relations, sales promotion, and personal selling. Application of core concepts and techniques through case analyses, IMC exercises, and team development of advertising campaigns and presentations. Prerequisites: BA 309, Junior standing or above. 3 hours.

BA 443 Special Topics in Marketing

A course focusing on topics of special interest to students and faculty, such as Services Marketing, Internet Marketing, Public Policy and Marketing, and Sports Marketing. Prerequisites: BA 309, Junior standing or above. 3 hours.

CHEMISTRY

Jeannine M. Chan, *Assistant Professor*

James O. Currie Jr., *Distinguished University Professor*

Joel W. Gohdes, *Associate Professor*

Kevin E. Johnson, *Professor, Chair*

Richard V. Whiteley Jr., *Professor*

Chemistry plays a central role in the sciences because the goal of chemical study is understanding natural processes on an atomic and molecular level. Thus, chemistry majors should experience the excitement of relating molecular properties to the order they observe in nature. Our challenge is to emphasize the connections between molecular level structure and properties and behavior of macroscopic matter. Majors will be prepared for immediate industrial employment; for entry into programs of professional study such as medicine, teaching and engineering; or for graduate study in chemistry or a related field. This mission implies the following outcomes for our educational process; at the end of their studies, graduating majors should:

- have a working knowledge of the basic areas of chemistry (inorganic, organic, biochemical, physical and analytical chemistry). A working knowledge is demonstrated by understanding the language of chemistry and the ability to apply formal knowledge in a problem-solving environment.
- understand the relationships between microscopic structure and macroscopic properties, energy relationships, chemical and physical transformations, acid-base theory, and solution chemistry and be proficient in basic laboratory skills (e.g., preparing solutions, chemical and instrumental analysis, laboratory safety).
- have an understanding of principles and applications of modern instrumentation, computation, experimental design and data analysis.

- have the ability to formulate and carry out strategies for solving scientific problems.
- develop experience working with others as part of a team to solve scientific problems.
- develop good scientific communication including writing, oral communication and presentation skills and the ability to access, read, understand and use scientific literature.
- have had the opportunity to gain experience with an individual research project within the university or in another appropriate setting.

MAJOR IN CHEMISTRY

Chemistry Core Requirements

| | | |
|---|------------------------------------|-----|
| Chem 220-230 | General Chemistry I-II ... | 8 |
| Chem 310-311 | Organic Chemistry I | 4 |
| Chem 320-321 | Organic Chemistry II | 4 |
| Chem 340-341 | Quantitative Analysis ... | 4 |
| Chem 410-411 | Thermodynamics and Kinetics | 4 |
| Chem 430 | Advanced Inorganic Chemistry | 3 |
| Two upper-division chemistry electives (with lab if available, except Chem 385) | | 6-8 |

Capstone

| | | |
|--------------|----------------|-------------|
| Chem 485 | Seminar | 1 |
| Chem 490 | Senior Project | |
| OR | | |
| Chem 498-499 | Thesis | 2-4 |
| | | <hr/> 36-40 |

Ancillary Requirements

| | | |
|---|---------------------|-------------|
| Math 226-227 | Calculus I-II | 8 |
| Physics - One year with laboratory (Phys 232-242 recommended) | | 8 |
| | | <hr/> 52-56 |

Students may complete one of two emphases in chemistry by fulfilling the elective requirement of the chemistry major listed above in the following manner.

Chemical Physics

| | | |
|--|--|-------------|
| Chem 420-421 | Quantum Chemistry and Spectroscopy | 4 |
| Phys 322 | Modern Physics | |
| OR | | |
| Phys 332 | Waves and Optics | 4 |
| One additional upper-division Physics course from the following (Phys 322, 332, 364, 376, 380, 420, 460) | | |
| | | 3-4 |
| One additional upper-division course in Chem, Physics, or Math | | |
| | | 3-4 |
| | | <hr/> 60-64 |

Biochemistry

| | | |
|---|------------------------------|-------------|
| Biol 202, 204 | General Biology I and II ... | 8 |
| Chem 380 | Biochemistry I | 3 |
| Chem 480 | Biochemistry II | 3 |
| Chem 481 | Biochemistry Lab | 1 |
| One upper-division biology course from the following (Biol 320, 330, 400) | | |
| | | 4 |
| | | <hr/> 65-67 |

At least six credits of upper-division chemistry, including at least one credit of chemistry laboratory must be taken at Pacific University. A course in computer science (CS 150 or 230) is also recommended.

Note: For students planning to work as chemists or attend graduate school in chemistry, the following courses should be included among the electives:

| | | |
|--------------|--|---|
| Chem 350-351 | Instrumental Analysis ... | 4 |
| Chem 420-421 | Quantum Chemistry and Spectroscopy | 4 |

MINOR IN CHEMISTRY**Requirements**

| | | |
|--------------|-------------------------------------|---|
| Chem 220-230 | General Chemistry I-II .. | 8 |
| Chem 310-311 | Organic Chemistry I | 4 |
| Chem 320-321 | Organic Chemistry II | 4 |
| Chem 340 | Quantitative Analysis Lecture | 2 |

| | | |
|---|--|-----|
| Chem 341 or 343 | Quantitative Analysis Laboratory | 1-2 |
| Chem 385 | Seminar | 1 |
| Elective: Choose one of the following . | | |
| Chem 350-351 | Instrumental Analysis | 3-4 |
| Chem 360 | Environmental Chemistry | |
| Chem 380 | Biochemistry | |
| Chem 410-411 | Thermodynamics and Kinetics | |
| Chem 420-421 | Quantum Chemistry and Spectroscopy | |
| Chem 430 | Advanced Inorganic Chemistry | |

23-25

At least one upper-division chemistry course with laboratory must be taken at Pacific University. Any student interested in a Chemistry minor should consult with a faculty member in the Chemistry Department.

ENVIRONMENTAL CHEMISTRY

A degree in Environmental science with and emphasis in chemistry is offered through the environmental studies program. The program couples a core study in chemistry with appropriate courses in environmental science and policy. The program emphasizes an understanding of atmospheric, groundwater and aquatic chemistry and includes the analytical and statistical methods to study them. Field activities in a variety of nearby study areas are included. Students graduating with this major are well qualified to directly enter the job market and will have excellent credentials for entry into various related graduate programs. Full details of this program can be found under the environmental science major.

Requirements for Environmental Science Major, Chemistry Emphasis

| | | |
|--------------|---|---|
| Env 100 | Environmental Studies Seminar | 1 |
| Env 200 | Introduction to Environmental Science ... | 4 |
| Biol 202-204 | General Biology I and II .. | 8 |

| | | |
|---------------------------|--|----|
| Chem 220-230 | General Chemistry I and II | 8 |
| Chem 310-311 / 320-321 | Organic Chemistry I and II | 8 |
| Chem 340-341 | Quantitative Analysis ... | 4 |
| Chem 350-351 | Instrumental Analysis ... | 4 |
| Chem 360 | Environmental Chemistry | 4 |
| Env 224 | Environmental Politics . | 3 |
| Econ 102 | Principles of Microeconomics | 3 |
| Env 333 | Environmental Economics | 3 |
| Math 226 | Calculus I | 4 |
| Phy202-204 or Phy 232-242 | Physics | 8 |
| Env 490 | Environmental Science Capstone | 2 |
| | | 64 |

COURSE DESCRIPTIONS

Chemistry (Chem)

Chem 110 Chemistry and Your Environment

An introductory chemistry course for students who do not plan to take additional chemistry courses. Basic principles of chemistry are developed and used to explain phenomena of significance to our lives. Topics include environmental issues such as atmospheric and water chemistry, nuclear power, and fuels. 3 hours.

Chem 220 General Chemistry I

The first of a two semester sequence which introduces the basic concepts of chemistry by addressing: atomic and molecular structure, properties of materials, nomenclature, equilibrium, kinetics, thermodynamics, and electrochemistry. These topics are studied in the context of inorganic and organic chemistry. In addition to three lectures per week, the class meets three hours weekly for a laboratory or activity session. Prerequisite: Math 122 or equivalent. 4 hours.

Chem 230 General Chemistry II

The second of a two semester sequence continuing from Chem 220. In addition to three lectures per week, the class meets three hours weekly for a laboratory or activity session. Prerequisite: Chem 220 with a C- or better and Math 125 or equivalent with a C- or better. 4 hours.

Chem 240 Survey of Organic Chemistry

An introduction to the chemistry of the hydrocarbons and their principal derivatives. Meets physical therapy, optometry and nursing requirements. Prerequisite: Chem 230 with a C- or better. 3 hours. Alternate years. Spring 2007.

Chem 241 Survey of Organic Chemistry Laboratory

Laboratory experience in the preparation and properties of organic molecules. Prerequisite: Chem 230 with a C- or better. Co-requisite: Chem 240. 1 hour. Alternate years. Spring 2007.

Chem 295 Independent Project

Work in chemistry and introduction to chemistry research on a topic of mutual interest to the student and a faculty member. This course may be repeated for credit or continued as Chem 495. Consent of instructor required. 1-3 hours.

Chem 310 Organic Chemistry I

An integrated study of aliphatic and aromatic chemistry. Emphasis is placed on the mechanistic approach to understanding organic reactions. Prerequisite: Chem 230 with a C- or better. 3 hours.

Chem 311 Organic Chemistry Laboratory I

A laboratory course in organic chemistry concerned with the synthesis, isolation and purification of characteristic organic compounds including an introduction to the qualitative identification of unknown compounds. Prerequisite: Chem 230 with a C- or better. Co-requisite: Chem 310. 1 hour.

Chem 320 Organic Chemistry II

A continuation of Chem 310, which is a prerequisite with a C- or better. 3 hours.

Chem 321 Organic Chemistry Laboratory II

A continuation of Chem 311, which is a prerequisite. Co-requisite: Chem 320. 1 hour.

Chem 340 Quantitative Analysis

An introduction to the theory and principles of volumetric, gravimetric, and colorimetric methods of analysis. Prerequisite: Chem 230 with a C- or better. 2 hours.

Chem 341 Quantitative Analysis Laboratory

A laboratory course to accompany and give practical illustration to the principles covered in Chem 340, which is a co-requisite. 2 hours.

Chem 343 Quantitative Analysis Basic Laboratory

A laboratory course to accompany and give basic, practical illustration to the principles covered in Chem 340, which is a co-requisite. This is a more elementary complement to Quantitative Analysis Lecture than what is provided by Chem 341. Students cannot receive credit for both Chem 343 and 341. 1 hour.

Chem 350 Instrumental Analysis

An introduction to the theory and principles of instrumental methods of chemical analysis. Included are spectrophotometric, electrometric, and chromatographic methods. Prerequisite: Chem 340 and Phys 204 or 242 with a C- or better. 3 hours. Alternate years. Spring 2007.

Chem 351 Instrumental Analysis Laboratory

Laboratory experiences to augment and illustrate Chem 350, which is a co-requisite. Prerequisite: Chem 341 with a C- or better. 1 hour. Alternate years. Spring 2007.

Chem 360 Environmental Chemistry

Changes in the environment are ultimately the result of chemical processes. This course examines our understanding of chemical change in the atmosphere, groundwater, and various aquatic environments from both a theoretical and practical perspective. Methodology for monitoring and modeling these systems will be included. Prerequisites: Chem 240 or Chem 310, Bio 204, with a C- or better. 4 hours. Alternate years. Spring 2008. (Cross listed as Env 310)

Chem 380 Biochemistry I

An introduction to the chemistry of biological molecules with investigation of the structure and function of biological molecules in enzyme action, metabolism, energetics, and the flow of genetic information. Prerequisites: Biol 204 and either Chem 240 or Chem 320 with a C- or better. 3 hours.

Chem 385 Seminar

Participation in discussions about recent advances in the field of chemistry. May be taken twice for credit. P/NP. 1 hour.

Chem 410 Thermodynamics and Kinetics

Presentation, discussion, and application of the laws of thermodynamics, including gas behavior, equations of state, phase transformations, chemical equilibria and kinetics. Prerequisite: Chem 230, Math 227 and Physics 204 or 242 all with C- or better. 3 hours.

Chem 411 Thermodynamics and Kinetics Laboratory

A laboratory course to accompany Chem 410, which is a co-requisite. 1 hour.

Chem 420 Quantum Chemistry and Spectroscopy

An introduction to quantum mechanics and its applications to chemistry including atomic structure, the chemical bond and spectroscopy. Prerequisite: Chem 230, Math 227 and Physics 204 or 242 all with a C- or better. 3 hours. Alternate years. Spring 2008.

Chem 421 Quantum Chemistry and Spectroscopy Laboratory

A laboratory course designed to accompany Chem 420, which is a co-requisite. 1 hour. Alternate years. Spring 2008.

Chem 430 Advanced Inorganic Chemistry

An introduction to inorganic chemistry at an advanced level. Topics include atomic and molecular structure, symmetry, bonding theory, periodic correlations, acid-base theory, and the theory of metal-ligand interactions. Prerequisite: Chem 230 with a C- or better. 3 hours. Alternate years. Fall 2006.

Chem 450 Advanced Topics

A lecture or laboratory course concentrating on a specific topic in chemistry at the advanced level. For example mass spectrometry, high field nuclear magnetic resonance, or pharmacology. Prerequisites depend on the topic. 1-2 hours.

Chem 480 Biochemistry II

This course is designed to further explore the structure and function of biological molecules through topics in medical biochemistry such as cancer, metabolic diseases, cystic fibrosis, muscular dystrophy and HIV/AIDS. Prerequisite: Chem 380 with a C- or better. 3 hours. Alternate years. Spring 2007.

Chem 481 Biochemistry Laboratory

This course will emphasize experimental design, development of biochemical laboratory techniques, data acquisition and interpretation and development of theoretical models. Important biochemical techniques that students may develop proficiencies include protein purification, execution of enzyme assays, development of spectroscopic and chromatographic methods, and cell culture methods. Prerequisite: Chem 380 with a C- or better. 1 hour. Winter 2007.

Chem 485 Seminar

Designed to acquaint the science major with recent advances in chemistry and related fields as well as to provide experience in the preparation and oral presentation of science topics. May be taken twice for credit. Prerequisite: Chem 490 or Chem 498. 1 hour.

Chem 490 Senior Project

A project that includes independent study and analysis of experimental and/or chemical literature information. Examples of acceptable projects include:

- A focused review of the literature that results in an original interpretation or novel application.
- A pedagogical project for students interested in pursuing a career in teaching.
- An internship at an industrial or government laboratory.
- A community service project which uses innovative application of chemical principles and technology.

The work will culminate in a paper and oral presentation. Consent of faculty required. 2 hours.

Chem 495 Research

Independent laboratory studies or theoretical studies on projects of mutual interest to the student and faculty. This may be repeated for continuing or new projects. Consent of faculty required. 1-3 hours.

Chem 498/499 Thesis

Students electing to do a thesis will engage in a substantial research project that will involve an investigation of the scientific literature and original research on a current topic in chemistry. The work will culminate in a written thesis and oral presentation. Consent of faculty required. 2 hours each semester.

COMPUTER SCIENCE

Shereen Khoja, *Assistant Professor*

Douglas J. Ryan, *Chair, Professor*

Chadd C. Williams, *Assistant Professor*

The Department of Mathematics and Computer Science offers majors and minors in both Computer Science and Mathematics. The Computer Science program at Pacific University is characterized by small classes, close interaction with the faculty and a deep yet broad curriculum rarely encountered at a small university. To prepare students for a discipline that is constantly changing, the curriculum integrates a wide variety of programming languages in a manner that emphasizes a thorough understanding of language structure. By virtue of both a devoted faculty and a strategic location next to Oregon's acclaimed Silicon Forest, an internship program has been established with local businesses that allows students to further practice these skills in the context in which they will ultimately be applied. The student experience culminates with a disciplined two semester Software Engineering Capstone sequence that results in a substantial piece of original software. The confidence and knowledge gained from the program at Pacific allows each student to pursue either a graduate education in Computer Science or immediate employment with such industry leaders as Intel, Microsoft and Hewlett Packard.

DEPARTMENT GOALS

The department maintains common goals for all of its students (majors, minors and others). Students in our courses will learn strategies for abstract problem solving, gain a basic understanding of computers and the broad implications of their use, be exposed to mathematics as a liberal art and be given the opportunity to hone their computational skills. For students majoring in Computer Science, we provide, within the context of the liberal arts, excellent preparation for high-tech careers or graduate study in Computer Science.

MAJOR IN COMPUTER SCIENCE

Requirements

| | | |
|---|--|----------|
| Math 206 | Computational Linear Algebra* | 3 |
| Math 226 | Calculus I | 4 |
| Math 240 | Discrete Mathematics | 3 |
| CS 150 | Introduction to Computer Science I | 4 |
| CS 250 | Introduction to Computer Science II | 3 |
| CS 300 | Data Structures | 3 |
| CS 310 | Theoretical Computer Science | 3 |
| CS 380 | Algorithm Design and Analysis | 3 |
| CS 430 | Computer Architecture | 4 |
| CS 460 | Operating Systems | 3 |
| CS 480 | Principles of Compiler Design | 3 |
| CS 481 | Compiler Laboratory I | 1 |
| CS 490 | Senior Capstone I | 3 |
| CS 492 | Senior Capstone II | 3 |
| Six credits selected from the following courses | | 6 |
| CS 315 | Introduction to Human Computer Interaction | 3 |
| CS 360 | Special Topics** | 3 |
| CS 445 | Introduction to Database Systems | 3 |
| Phy 364 | Electronics | 4 |
| | | <hr/> 49 |

**Note: Math 306 may be substituted for Math 206 by students double majoring in mathematics and computer science.*

*** Note: CS 360 may be counted twice as an elective as long as the topics are different.*

Restrictions

1. At least 18 hours of upper-division Computer Science courses must be taken from Pacific University (credit by examination not acceptable).
2. At most, 1 course passed with a grade below "C-" may count towards the Computer Science major.
3. All courses in the Capstone sequence (CS 490, CS 492) must be passed with a grade of "C" or better.

MINOR IN COMPUTER SCIENCE

| | | |
|--|---|---|
| CS 150 | Introduction to Computer Science I | 4 |
| CS 250 | Introduction to Computer Science II | 3 |
| Electives | ..... | 9 |
| Electives are selected from: CS 205, CS 230, CS 300, CS 310, CS 315, CS 360, CS 380, CS 430, CS 445, CS 460, CS 480/481, Math 206, Math 240, Math 324, Phys 364. | | |
| At least one of the following: | | 4 |
| Math 125 | Precalculus | |
| Math 226 | Calculus | |

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20

Restriction: Six of the elective credit hours must be upper-division Computer Science courses taken at Pacific University.

COURSE DESCRIPTIONS

Computer Science (CS)

CS 120 The Information Era

An exploration of how information technology is playing an ever increasing role in society. Students will explore a host of topics for using and accessing information such as: searching and navigating the Internet, the world wide web (www), interactive multimedia, communications, and ethics. Students will learn to produce web pages using HTML and web authoring software. This is not a programming class and is intended to give students the ability to access and manipulate information in a variety of ways. Class includes lab projects. 3 hours.

CS 130 Introduction to Software Tools

Many disciplines are finding the need to gather, manipulate, analyze, and graph data. This course will introduce students to software tools that aid in this process. Software that is widely used at Pacific includes: Excel, PowerPoint, and various statistical packages. Class includes lab projects. Prerequisite: Math 125 with a grade of "C" or better. 2 hours (10 weeks). Students may not receive credit for both CS130 and 230.

CS 150 Introduction to Computer Science I

A first course in computer programming fundamentals: no previous programming experience is required. This course will be

taught in C++ and include programming projects in a variety of areas. Course content includes data types, selection structures, repetition structures, functions, arrays, structures and I/O. In addition to three lectures per week, the class meets weekly for a laboratory session. Corequisite: Math 125. 4 hours.

CS 205 Introduction to Programming for Multimedia

This course introduces students with little or no programming experience to the design and creation of software applications using Flash ActionScript, a high-level, object-oriented programming language. Prerequisite: CS 120 with a grade of "C" or better or equivalent. 3 hours. Alternate Years 2006-2007.

CS 230 Introduction to Advanced Software Tools

This course covers the same topics as CS130 in the first ten weeks. The last four weeks offer an in-depth exposure to spreadsheet and database software. Some programming in a language such as Visual Basic will be required. Prerequisite: Math 226 with a grade of "C" or better. 3 hours. Students may not receive credit for both CS 130 and 230.

CS 250 Introduction to Computer Science II

A second course in programming that is a continuation of CS 150. The focus of this course is object-oriented programming. Concepts taught include classes, function and operation overloading and inheritance. These concepts will be reinforced with more advanced programming projects and some elementary data structures. Prerequisite: CS 150 with a grade of "C" or better. 3 hours.

CS 300 Data Structures

Data structures are fundamental to advanced, efficient programming. Topics including stacks, queues, linked lists, trees, graphs, hash tables, searching and sorting will be covered in discussions centering around more sophisticated programming concepts and problem solving techniques. Prerequisite: CS 250 with a grade of "C" or better. 3 hours.

CS 310 Theoretical Computer Science

This course introduces the foundations of formal language theory, computability, and complexity, shows the relationship between automata and various classes of languages, addresses the issue of which problems can be solved by computational means and studies the complexity of their solutions. It also studies

Turing machines and equivalent models of computation, the Chomsky hierarchy, context free grammars, push-down automata, and computability. Prerequisite: CS 250 with a grade of "C" or better. 3 hours. Alternate years 2006-2007.

CS 315 Introduction to Human Computer Interaction

Humans interact with computers through user interfaces; designing useful and effective interfaces involves many challenges for both designers and programmers. This course will cover the basics of the field of human computer interaction including the human factors of interactive software, methods to develop and assess interfaces, interaction styles and design considerations. The class will include research and design projects as well as a programming project. Prerequisite: Either CS250 or MedA260 either with a grade of "C" or better. 3 hours.

CS 380 Algorithm Design and Analysis

An introduction to the formal techniques that support the design and analysis of algorithms, focusing on both the underlying mathematical theory and practical considerations of efficiency. Topics include asymptotic complexity bounds, techniques of analysis, algorithmic strategies, advanced data structures, graph theory, and other selected topics. Prerequisite: CS 300 with a grade of "C" or better, Math 240 with a grade of "C" or better, or instructor consent. 3 hours. Alternate years 2007-2008.

CS 360 Special Topics

The topic of this course changes from year to year depending on the latest developments in computer science and the research interests of the faculty. Current and future topics include Windows programming, interactive computer graphics, event-driven programming for PDAs, artificial intelligence and robotics, client/server web development and parallel processing. Prerequisite: CS250 with a grade of "C" or better or instructor consent. 3 hours.

CS 430 Computer Architecture

An introduction to the hardware design aspects of all major components of a computer system. Topics include computer arithmetic, Boolean algebra and gate networks, logic design, IA-32/64 & MIPS assembly language programming, memory (virtual and cache), I/O devices, pipelined instruction execution, bus structures, microprogramming and RISC/CISC philosophies. Prerequisite: CS 300 with a grade of "C" or better. 4 hours. Alternate years 2006-2007.

CS 445 Introduction to Database Systems

An introduction to both the theory and application of Database Management Systems (DBMS). Topics covered will include database planning and architecture, ER diagrams and relational models, normalization, security, transaction management, optimization, and SQL. All topics in the course will be implemented concretely using a modern DBMS. Prerequisite: CS 300 with a grade of "C" or better. 3 hours. Alternate years 2007-2008.

CS 460 Operating Systems

This course focuses on resource management by operating systems. Topics include processes and threads, CPU scheduling, memory management, I/O systems, distributed file systems, multiprocessor operating systems, and case studies. Prerequisite: CS 300 with a grade of "C" or better. 3 hours. Alternate years 2007-2008.

CS 480 Principles of Compiler Design

An introduction to compilers. Topics to include: symbol tables, lexical analysis, parsing, attribute grammars, syntax-directed translations, semantic analysis, code generation, and runtime environments. Prerequisite: CS310 with a grade of "C" or better. 3 hours. Alternate years. 2006-2007.

CS 481 Compiler Laboratory

A laboratory course that must be taken concurrently with CS 480. Involves coding, verification, and validation of a compiler. (Class project is implemented on a Linux machine using C). 1 hour. Alternate years 2006-2007.

CS 490 Senior Capstone I

Students will learn the process of developing a large software project. This process includes user requirements analysis, a project proposal, a project design specification, implementation and testing. Students will choose a project and complete the analysis and design for the project. Students will begin the implementation and testing of their projects. Pre-requisites: CS major with Senior standing and at least one 400 level CS class with a grade of "C" or better taken at Pacific. 3 hours.

CS 492 Senior Capstone II

During this course, students will complete the implementation, testing, and presentation of the project that was designed during CS 490. Prerequisite: CS 490 with a grade of "C" or better. 3 hours.

DANCE

See Theatre and Dance Department

DENTAL HEALTH SCIENCE

The mission of the School of Dental Health Science at Pacific University is to provide an outstanding education for our students, high-quality care for our patients and exemplary service to the community and the profession.

Pacific University offers two bachelor's degree options within the School of Dental Health Science – a dental hygiene entry-level program and a degree completion program – both leading to a Bachelor of Science in Dental Health. A Master of Science in Dental Health will be offered at Pacific University starting in Fall 2008.

The dental hygiene entry-level program includes two years of dental health courses completed at Pacific University, following completion of required prerequisite coursework. Students must complete all prerequisite courses prior to beginning the dental hygiene program. Admission to this program is selective and enrollment is limited to 32 students.

The Dental Hygiene Admissions Committee will consider the following factors in the selection process:

- Strength and breadth of academic record
- Prior dental or health care experience
- Letters of evaluation

- Content of application forms and care with which they have been completed
- Quality of writing ability as demonstrated by personal narrative
- Understanding of the dental hygiene profession
- Type of community activities
- Strength of on-campus personal interview

Based on the review of the application by the Dental Hygiene Admissions Committee, applicants will be invited for on-campus personal interviews. The interview is required and is a strong contributing factor in the admissions decision. It allows the Admissions Committee to assess essential skills and factors which may not be reflected in the application. In the interview, consideration is given to knowledge of the profession, motivation toward a career as a dental hygienist, ability to think clearly and logically, self-confidence and verbal expression of ideas.

The dental hygiene entry-level program is offered at Pacific University's new, state-of-the-art Health Professions Campus in Hillsboro, Oregon. Students receive their basic clinical education in the university's 16 chair dental health clinic and complete clinical enrichment experiences at local facilities including the Oregon Health & Science University School of Dentistry and the Virginia Garcia Memorial Health Clinic.

TRANSFER GUIDE FOR: PACIFIC UNIVERSITY PRE-DENTAL HYGIENE

Natural Sciences

- **Biol 224** Human Anatomy with lab
- **Biol 240** Human Physiology with lab
- **Biol 308** Microbiology
- **Chem 220** General Chemistry

Communication

- **MedA 101** Fundamentals of Speaking
- or-
- **MedA 110** Introduction to Communication
- **Engw 201** Expository Writing
- or-
- **Engw 202** Expository Writing

Social Sciences

- **Psy elective** – 3 semester cr.
- **Soc elective** – 3 semester cr.

Statistics

- **Math 207** General Elementary Statistics

Art

- **Artst, Arthi, Mus OR Thea elective**
– 3 semester cr.

Humanities

- Ethics, History, Language, Literature,
Media Arts, Philosophy **AND/OR**
Religion electives – 10 semester cr.

Students will need to have completed a minimum of **48 semester credits of coursework prior to starting** the dental hygiene program. Courses must be completed with a grade of **“C” or higher**. Science courses should be taken within the last **seven years**.

Preferred Application

Deadline November 15

Final Application Deadline ... February 15

If you are unsure whether a class will count toward a specific prerequisite area, please contact Pacific University Admissions.

Please Note: The School of Dental Health Science dental hygiene program is a professional program within the College of Health Professions. All Pacific University Arts & Sciences students interested in this program will need to complete an application for the dental hygiene program.

DENTAL STUDIES

Dr. Jon Schnorr, *Assistant Professor of Biology; Pre-Dental Studies Advisor*

Most dental schools require courses in Biology, Chemistry, Organic Chemistry, English, Mathematics, and Physics, but dental schools do not require a particular major for admission. A list of courses that will satisfy the admission requirements of many programs is given below; however, there is enough variation in programs that students are urged to consult the Guide to Dental Schools published by the American Dental Education Association about specific requirements for schools of interest.

All U.S. dental schools require the DAT exam for admission. For those students who wish to enter dental school in the year following graduation, it is necessary to complete all of the listed courses by the end of the junior year to ensure adequate background for the DAT exam. Note that the Biological Sciences portion of the DAT includes significant amounts of material that are not covered in introductory Biology courses. For this reason, pre-dental students are encouraged to take additional courses such as genetics, developmental biology, and physiology. For those considering a major outside of the field of science, it is important to seek the advice of a faculty member within the major of interest, as well as the advice of the pre-dental studies advisor, Dr. Jon Schnorr, to plan a schedule that will enable all requirements to be met.

Applications to take the DAT and applications for dental school (through AADSAS) are available on the Web or through the Career Development Center. Most schools require evidence of clinical experience prior to applying to dental school. Pre-dental students should begin obtaining clinical experience during their first year. The Career Development Center can assist students in finding an internship or field experience in the dental field.

Required courses:

| | |
|----------|--------------------|
| Biol 202 | General Biology I |
| Biol 204 | General Biology II |

| | |
|---|-------------------------------|
| Chem 220 | General Chemistry I |
| Chem 230 | General Chemistry II |
| Chem 310/311 | Organic Chemistry I |
| Chem 320/321 | Organic Chemistry II |
| Engw 201 | Expository Writing |
| Math 226 | Calculus I |
| Physics 202 | Introductory Physics I OR |
| Physics 232 | General Physics I |
| Physics 204 | Introductory Physics II OR |
| Physics 242 | General Physics II |
| Strongly recommended courses that may be required by some schools: | |
| Biol 224 | Human Anatomy |
| Biol 240 | Human Physiology |
| Biol 308 | Microbiology |
| Biol 330 | Genetics |
| Biol 350 | Principles of Development |
| Chem 380 | Biochemistry |

DISABILITY STUDIES

Co-Directors:

Tim Thompson, Humanities

Nancy Cicirello, Physical Therapy

Associated Faculty:

Brad Bafaro, Exercise Science

David Boersema, Philosophy

Patricia Cheyne, Art

Ellen Hastay, Peace and Conflict Studies

Marc Marengo, Philosophy

Christine MacFarland, Education

Martha Rampton, History

Todd Schultz, Psychology

Byron Steiger, Sociology

Scott Tuomi, Music

Robert Van Dyk, Political Science

THE DISABILITY STUDIES MINOR

Not one of us is completely “normal”; and all of us, if we live past fifty, will experience some degree, whether mild or profound, of physical and mental disability.

Yet despite the normality of the abnormal, despite that disability is a natural part of the human experience, societies past and present have treated it as something shameful if not horrific. (The Nazi gas chambers, for example, were first constructed to eradicate persons with mental disabilities.)

Disability Studies from the perspective of the Social Sciences and Humanities tries to understand why physical and cognitive differences have been treated as they have in the past and the present, how they should be treated in a twenty-first century democracy, and why.

This minor is designed for students majoring in *any* of the liberal arts and sciences. For those interested in health care, Disability Studies complements their science courses by focusing on the social, cultural, and political issues in their future careers; and by concentrating on a population of people that many professions—physical therapy, education, medicine, and psychology, for example—are established to serve.

Students majoring in the social sciences or humanities will be interested in Disability Studies' analysis of the most fundamental ideas of our culture: body and mind, normality and difference, freedom and rights, beauty and wholeness—all of these “abstractions” and their profound importance may become clearer in classes devoted to exploring their impact on our laws, schools, hospitals, beliefs, and day-to-day lives.

Required Courses:

One of the following two courses:

DS 200: Introduction to Disability Studies 2
OR

Engw 202: Writing About Disability .. 4
(fulfills Core Writing Requirement)

One of the following two courses:

Art/Mus 205: Creativity and Disability in Art and Music 3

OR

Engl 221: Literature and Disability 3

Both of the following two courses:

Phil 307: Ethics, Medicine, and Health Care 4

DS 400: Disability Studies, in Theory and Practice 2

11-13 hrs.

Elective Credit (11-13 hours, 6 of which must be in upper-division courses):

Art/Mus 205: Creativity and Disability in Art and Music 3

Engl 221: Literature and Disability 3

Hist 305: History of Magic and Witchcraft 3

Hper 315: Adaptive Physical Education 3

Pacs 105: Peace & Conflict Studies: Field Experience 1-3

Pacs 430: Human Rights 4

Pols 325: Constitutional Law 4

Pols 225: Politics of Health Care .. 3

Psy 311: Abnormal Psychology .. 3

Soc 319: Sociology of Medicine... 3

SpEd 300: Foundations of Special Education 2

SpEd 305: Exceptionalities 2

SpEd 340: Technology in Special Education 2

22-24 total hours

COURSE DESCRIPTIONS

DS 200 Introduction to Disability Studies

Disability Studies understands disability as referring not only to a biological or medical condition, but as also referring to a community of people (the largest minority in the U.S.); to a civil rights movement; to a complex set of social and ethical issues; to a universal human experience; and to the ways cultures respond to different bodies, minds, and behaviors. The class, taught with the help of two faculty from Pacific's School of Physical Therapy, will help students understand disability in its social, cultural, and ethical dimensions. 2 hrs.

Engw 202: Writing About Disability

This is both a writing intensive course (satisfying Core Writing Requirements) and an introduction to Disability Studies. Disability Studies understands disability as referring not only to a biological or medical condition, but as also referring to a community of people (the largest minority in the U.S.); to a civil rights movement; to a complex set of social and ethical issues; to a universal human experience; and to the ways cultures respond to different bodies, minds, and behaviors. The class, taught with the help of two faculty from Pacific's School of Physical Therapy, will help students understand disability in its social, cultural, and ethical dimensions. It will also develop critical thinking skills, understanding of rhetorical methods, and the shaping of effective prose styles through writing expository essays and a research paper. 4 hrs.

Art 285: Creativity and Disability in Art and Music

This course is an inquiry into the nature of creativity. Within that inquiry, we will focus on the effects of physical and cognitive impairment upon perception, imagination, artistic expression and the creative process. By examining the lives, works, and cultural contexts of selective musicians and artists with disabilities, from the medieval to the postmodern periods, and by making some music and art ourselves, we will better understand the creative processes of particular artists, the creative process in general, and the creative potentials that we all possess. 3 hrs.

Engl 221: Literature and Disability

The historian Sander Gilman calls literature "the art of writing down a culture's dreams." It is intriguing to note, then, how many of Western cultures' literary "dreams" are about the physically or mentally different, about the monstrous (so-perceived) and the maimed, the crippled and the crazed. From Sophocles' Philoctetes to Dunn's Geek Love, this course traces how and explores why authors of various periods have imagined and dramatized physical and cognitive difference. The issues that arise—literary, aesthetic, social, and philosophical—will be considered in their own, and our own, historical and cultural contexts. 3 hrs.

Phil 307: Ethics, Medicine, and Health Care

A study of ethical issues that arise in the health care professions. After working through the

processes of moral reasoning and learning about some of the major moral theories, this course will focus on major topics in health care today. Typically this course deals with such issues as abortion, physician-assisted suicide, genetic manipulation and cloning, and comparative health delivery systems. Students will be able to do some independent research on a topic of their choice. Prerequisite: Sophomore standing. 4 hrs.

DS 400: Disability Studies, in Theory and Practice

This course, a capstone for students in the Disability Studies minor, is a combination of seminar and field work. (The field work may be in the form of internships or service-learning.) In this course, students will review major concepts covered in prior Disability Studies classes. This review will be conducted in light of experiences and knowledge acquired working at appropriate sites in the local community. 2 hrs.

EARTH SCIENCES

ASTRONOMY COURSES**Sci 170 Astronomy**

A survey of astronomy, including the solar system, stars and stellar evolution, galaxies, cosmology, astronomical instruments, and space science. Evening observing sessions. 3 hours.

GEOLOGY COURSES**Sci 140 Physical Geology**

An introduction to the structure of the earth and dynamic earth-shaping processes including plate tectonics, rocks and minerals and the origin and evolution of landforms through volcanic activity, folding, faulting and erosion. Co- or prerequisite: Sci 141. 3 hours.

Sci 141 Geology Laboratory

Laboratory experience to accompany Sci 140 and Sci 150, one of which must be taken concurrently. 1 hour.

Sci 150 Physical Geology

An introduction to the history of the earth beginning with the origin of the solar system and including the evolution of the continents, the evolution of life, geologic time and stratigraphy. Co- or prerequisite: Sci 141. 3 hours.

ECONOMICS

Jamie R. Haag, *Associate Professor of Economics*

Philip J. Ruder, *Professor of Economics*

The economics major prepares students to enter a wide range of careers in business, research, or the public sector. The economics major also prepares students for graduate study in economics, business, law, or public administration. The degree develops broadly educated individuals who are flexible, skilled at solving problems, aware of a diversity of viewpoints, and responsive to rapidly changing economic environments.

During the course of the major, students develop excellent skills in written and verbal communication, quantitative analysis, application of technology, independent research, and critical thinking. The academic requirements of the economics major allow students to study abroad during one semester or during an entire year. Off-campus internships are available for advanced students who wish to gain relevant work experience in applied economics while exploring specific career options.

GOALS FOR ECONOMICS MAJORS

A successful graduate with an economics major will be able to:

- read and understand standard textbooks and general publications covering economic topics.
- write essays, short papers or major research papers in a clear and concise fashion with emphasis on content, style, and analytical rigor.

- organize and present ideas and information orally as part of a team and as a sole presenter.
- use data and statistics to understand and analyze relevant problems.
- use contemporary information technology effectively including the library, the Internet and computer software applications.
- design and carry out independent and collaborative projects.

MAJOR IN ECONOMICS

The major in economics requires completion of 34 hours in economics courses, 3 hours in accounting, 4 hours in pre-calculus, and 3 hours in statistics. Principles of Microeconomics and Macroeconomics are the basic prerequisites for all department courses. Elementary Statistics (Math 207) must be completed prior to enrolling in Econometrics (Econ 321). Pre-Calculus (Math 125) is a prerequisite for Microeconomic Theory (Econ 327) and Macroeconomic Theory (Econ 328). A minimum 2.0 grade point average is required in all major courses; only grades of "C-" or above may be used to satisfy department requirements, including Math 207.

The department advises that students intending to do graduate work in economics should complete the calculus sequence and other selected math courses.

Requirements

| | | |
|-----------|--|----|
| Econ 101 | Principles of Macroeconomics | 3 |
| Econ 102 | Principles of Microeconomics | 3 |
| BA 201 | Financial Accounting Principles | 3 |
| Math 125 | Pre-calculus | 4 |
| Math 207 | General Elementary Statistics | 3 |
| Econ 321 | Introduction to Econometrics | 4 |
| Econ 327 | Microeconomic Theory | 4 |
| Econ 328 | Macroeconomic Theory | 4 |
| Econ 300+ | Economics Electives | 12 |
| Econ 490 | Senior Seminar | 2 |
| Econ 495 | Senior Thesis | 2 |
| | | — |
| | | 44 |

Note: One of the electives may be selected from outside economics, with departmental approval.

MINOR IN ECONOMICS

The Business and Economics Department offers a minor in Economics which requires completion of 23 hours of departmental courses, including 9 hours of electives. A minimum 2.0 grade point average is required. Any student interested in an Economics minor should consult with a faculty member in the Business and Economics Department.

Requirements

| | | |
|-----------|---------------------------------------|----|
| Econ 101 | Principles of Macroeconomics | 3 |
| Econ 102 | Principles of Microeconomics | 3 |
| Econ 327 | Microeconomic Theory | 4 |
| Econ 328 | Macroeconomic Theory | 4 |
| Econ 300+ | Economics Electives | 9 |
| | | — |
| | | 23 |

COURSE DESCRIPTIONS

Economics

Econ 101 Principles of Macroeconomics

An introduction to the U.S. economic system with emphasis on understanding the forces that cause economic problems and the policies that can be used to solve them. The causes and effects of inflation and unemployment, the role of money and banks in the economy and the causes and consequences of economic growth. No prerequisites. 3 hours.

Econ 102 Principles of Microeconomics

An introduction to the economics of choice in a private enterprise economy. How individuals and firms make decisions in a world of scarce resources. The limitations of the market in dealing with problems such as pollution, monopoly power, and income distribution. The role of government in correcting market failure. An examination of the international economy including balance of payments and exchange rates. No prerequisites. 3 hours.

Econ 180 Contemporary Economic Problems

Seminar in current economic conditions and problems, analysis of economic policies and practices affecting such problems; contribution of the social sciences toward understanding and providing solutions to such problems. Prerequisites: Econ 101, or 102. 1-3 hours. This course may be graded Pass/No Pass at the discretion of the instructor.

Econ 321 Introduction to Econometrics

This course is concerned with the use of statistical methods for estimating and testing economic relationships. The course will emphasize the application of classical statistical techniques of estimation, hypothesis testing, and regression analysis to economic models. Exploration of problems arising from violations of the classical assumptions. The course incorporates extensive use of statistical software to perform data analysis, regression, and forecasting. Prerequisites: Econ 101, 102, and Math 207. 4 hours.

Econ 327 Microeconomic Theory

Price and resource allocation theory in a decentralized economy; theory of consumer choice; price determination under different market situations; effects of market structure and government policy on economic efficiency. Emphasis on applying the tools of mathematics to the study of economic outcomes. Prerequisites: Econ 101, 102, and Math 125. 4 hours.

Econ 328 Macroeconomic Theory

Students will gain an understanding of the origins and distinguishing characteristics of alternative schools of thought in macroeconomics. Development of closed and open economy macroeconomic models used to characterize long-term trends and short-term fluctuations in gross domestic product, unemployment, inflation, and government and international deficits. Application of quantitative methods to analyze relationships among key economic indicators, examination of current economic policy challenges, and prediction of policy outcomes based on competing macroeconomic theories. Prerequisites: Econ 101, 102, and Math 125. 4 hours.

Econ 330 Industry Studies

An applied field of economics that deals with the problems of explaining the behavior of markets for goods and services. The emphasis is upon the market structure, conduct, and performance of selected industries, the problems of ownership and control, competitive behavior and pricing policy, technology and obsolescence, entry and size; the implications of trade practices for public policy. Prerequisites: Econ 102. 3 hours.

Econ 331 Money and Banking

Analysis of the nature and functions of money and effects of changes in the money supply; operation of commercial banks, the Federal Reserve System, and the Treasury that affect the United States' monetary system; monetary theory; critique of various monetary policies. Prerequisites: Econ 101. 3 hours.

Econ 333 Environmental Economics

Environmental economics studies the role in the economic system of environmental amenities such as clean air and clear water. The course analyzes the problems of market outcomes when such amenities are not priced. The problems associated with estimating economic costs and benefits are also carefully examined. The course emphasizes the connection between economic understanding and improved public policy. Prerequisite: Economics 102. 3 hours.

Econ 341 International Trade and Development

The economic analysis of globalization. International trade topics include the determinants of trade in goods and services and the effect of trade policy on national income level and distribution. Special attention will be paid to examples relevant to U.S.-Europe, U.S.-Japan, and North-South economic relations. Topics in international development include determinants of growth and the effect of industrial and trade policy on national income levels and distribution.

Econ 342 International Finance

The analysis of international monetary and financial economics. Topics in international finance include the determinants of cross-border trade flows of goods and services and financial assets, supply and demand for foreign currency, and national balance of payment accounts. Emphasis will be on the application of these topics to issues related to debt relief for less developed countries, national savings and economic growth, and Latin American and South-East Asian currency crises. International monetary topics will include monetary and portfolio approaches to balance of payments, open economy policy analysis, and international policy coordination. Prerequisites: Econ 101.3 hours.

Econ 490 Senior Seminar

Students in this fall seminar apply the concepts and tools of economic analysis to develop a research plan to explore a current policy issue. Research projects consist of a careful review of economic theory relevant for the policy analysis as well as an empirical analysis of policy outcomes. Emphasis will be placed on student-led discussion, with active participation of faculty members. Prerequisites: Senior standing in Economics. 2 hours.

Econ 495 Senior Thesis

Students work in consultation with their primary advisor to carry out the research plan developed in the fall. Students present the results of their research to peers and faculty then revise their theses to address the critical feedback they receive. Prerequisite: Econ 490. 2 hours.

EDUCATION

See the Graduate and Professional Programs Catalog for listing of faculty and complete description of programs.

The undergraduate program allows a student to complete a bachelor's degree while simultaneously completing the requirements for an Oregon Teaching License. Students are provided solid foundations in theory and content, as well as field experiences. They are prepared to nurture young peoples' intellectual, social, and moral growth and to appreciate diversity of cultures.

The program prepares students for an Oregon Initial Teaching License with authorizations at any of four levels: Early Childhood Education (age 3 to grade 4), Elementary Education (grades 3-8), Middle School Education (grades 5-9), and High School Education (grades 7-12). Students are strongly encouraged to qualify for two adjacent authorization levels. Students who wish to qualify for the Early Childhood and Elementary authorizations complete the Education and Learning major. Those who plan to teach at the Middle School or High School level major in the subject area in which they wish to teach and complete the professional sequence of courses in the College of Education.

EARLY CHILDHOOD & ELEMENTARY EDUCATION

Education & Learning Major

The Education and Learning major is a joint offering of the College of Arts and Sciences and the College of Education. It is designed to provide students with a deep understanding of the psychological, developmental and curricular foundations of education. This major builds a strong foundation for careers working with children and in various educational programs, including classroom teaching. The Education and Learning major is recommended for students interested in pursuing a license for teaching in early

childhood or elementary classrooms as a part of their undergraduate education at Pacific University. This major (as well as many other majors at Pacific) is also a good choice for those who want to complete a liberal arts degree as an undergraduate and then secure an Oregon Initial Teaching License as part of a Master's program (see our MAT Fifth-Year program for an example). If you choose this route, a minor in a complementary subject area is strongly recommended.

To obtain the Oregon Initial Teaching License as an undergraduate a student must apply for admission to the College of Education. Students who wish to enter a teaching career should consult with the Coordinator of the Undergraduate Education Program early in the freshman year and should take the introductory education course, Educ 260 Foundations of Education, by fall of the sophomore year. Application to the College of Education may be accomplished as a part of the Educ 260 class.

Licensure requires an additional 30-34 credits of professional coursework beyond the requirements of the major. Students interested in licensure should complete the recommended subject area coursework in writing, literature, science, mathematics, social science, and the arts as part of the core requirements or electives.

For those who do not want to obtain a teaching license as a part of their undergraduate education, a minor in a complementary subject area is recommended.

Education and Learning Major

Psy 150 Introduction to Psychology . 3

Philosophical Foundations

Phil 101 Knowledge and Reality 3
OR
Psy 248 Mind, Theory, and
Method 3

Social Foundations

one of the following 3
Anth 101 Introduction to Anthropology
Soc 102 Social Problems
PoLS 101 Power & Community
Development

Cognition and Development

| | | |
|---------------------------------|--|---|
| Psy 340 | Child Development | 3 |
| plus one of the following | | 3 |
| Psy 214 | Cognitive Science | |
| Psy 225 | Learning | |
| Psy 314 | Memory & Mind | |
| Educ 320 | Brain-Based Learning (offered in Eugene only) | |

Education: all of the following

| | | |
|----------|---|---|
| Educ 260 | Foundations of Education . | 2 |
| Educ 300 | Introduction to Early Childhood Education | 4 |
| Educ 305 | Learning Communities | 3 |
| Educ 361 | Foundations of Human Development & Psychology .. | 3 |
| Educ 370 | School and Society | 2 |
| Educ 420 | Normal Language Development in Children .. | 2 |
| Educ 427 | Psychology of Reading Instruction | 2 |

Required capstone experience: one of the following

| | | |
|----------|---------------------------|----|
| Educ 490 | Integrating Seminar | 6 |
| Educ 475 | Student Teaching | 15 |

Required Professional Courses for Early Childhood & Elementary School Authorizations

The following courses are required to qualify for the Oregon Initial Teaching License with authorizations for Early Childhood Education or Elementary Education. Some of these courses also fulfill requirements for the Education and Learning major.

| | | |
|----------|---|---|
| Educ 305 | Learning Communities: Personal Awareness and Diversity | 3 |
| Educ 370 | School and Society | 2 |
| Educ 361 | Foundations of Human Development and Psychology | 3 |
| Educ 436 | Technology across the Curriculum | 2 |
| Educ 431 | Integrated Methods I: General Methods | 2 |
| Educ 408 | Integrated Methods II: Reading and Language Arts in Early Childhood | |

Education

OR

| | | |
|----------|--|----|
| Educ 444 | Integrated Methods II: Reading and Language Arts in the Elementary School ... | 4 |
| Educ 343 | Integrated Methods III: Teaching Mathematics, Science and Health in Early Childhood and Elementary Education | 4 |
| Educ 410 | Integrated Methods IV: The Expressive Arts in Early Childhood Education | 2 |
| Educ 397 | Field Experience | 1 |
| Educ 459 | Preparing the Work Sample2 | |
| Educ 476 | Learning Communities: Reflection and Practice | 2 |
| Educ 475 | Student Teaching | 15 |

MIDDLE SCHOOL AND HIGH SCHOOL LICENSURE

Students who plan to complete the requirements for the Middle School and High School authorizations must major in the content area in which they wish to teach, complete the required coursework in professional education, and successfully meet the requirements of student teaching.

Because of the number of hours required in some majors, many students find it advantageous to complete a subject area major as an undergraduate and then complete the requirements for licensure as part of a graduate program.

The College of Education at Pacific University offers excellent programs that offer licensure as part of a graduate degree; students who are interested in these programs are encouraged to consult with College of Education faculty or the College of Education Admissions Office.

Students have the opportunity to qualify for both Middle School and High School authorizations. While qualification for both is not required, students are encouraged to do so. To obtain the Oregon Initial Teaching License as an undergraduate, a student must apply for admission to the College of Education. Students should consult with the Coordinator of the Undergraduate Education Program early in the freshman year and should take the

introductory education course, Foundations of Education (Educ 260), by fall of the sophomore year. Application to the College of Education may be accomplished as a part of the Educ 260 class.

Programs are available to enable students to meet the requirements for the following subject area teaching endorsements: Art, Foreign Languages (French, German, Japanese and Spanish), Language Arts, Mathematics (Middle School and Advanced), Music, Physical Education, Science (Biology, Chemistry, Integrated Science and Physics) and Social Studies.

The following are the requirements that students seeking a subject area endorsement in the Middle School and High School authorizations must meet outside of the education sequence offered by the College of Education:

- Art: A major in art. A Computer Graphics or Illustration course is recommended.
- Biology: A major in Biology, including Human Anatomy, Human Physiology and Invertebrate Zoology.
- Chemistry: A major in Chemistry.
- Foreign Languages: A major in Foreign Language. Primary language must be selected from French, German, Japanese or Spanish.
- Integrated Science: Students complete a major from the Natural Science Division and work with their advisor in Education to develop a program that includes broad basic coursework in Biology, Chemistry and Physics as well as Geology, Astronomy and Meteorology.
- Language Arts: A major in Literature or Creative Writing including a Shakespeare course, a course on the theory of literature, a course in Linguistics and two courses in Oral Expression.
- Mathematics, Middle School: Mathematics sequence through Calculus I, including Statistics and a computer programming course. Sufficient course work to pass the appropriate PRAXIS test.
- Mathematics, Advanced: A major in Mathematics including courses in Probability, Higher Geometry and Abstract Algebra.
- Music: A major in Music Education.

- Physical Education: A major in Exercise Science with an emphasis in Human Performance.
- Physics: A major in Physics, including courses in Thermodynamics and Geometric Optics.
- Social Studies: A major in a social science, including history. Students work with their Education advisor to develop a program that provides the breadth of knowledge necessary to teach social studies at the secondary level. This includes at least 3 courses of non-U.S. history, political science, sociology, psychology or anthropology; 3 courses in U.S. History; 2 courses in Politics and Government; 2 courses in Economics; Cultural Geography; and one course in contemporary issues.

Required Professional Courses for Middle School & High School Authorizations

| | | |
|---|--|---|
| Educ 305 | Learning Communities: Personal Awareness and Diversity | 3 |
| Educ 370 | School and Society | 2 |
| Educ 361 | Foundations of Human Development and Psychology | 3 |
| Educ 436 | Technology across the Curriculum | 2 |
| Educ 327 | Teaching and Assessment in the Middle School | 3 |
| | OR | |
| Educ 326 | Teaching and Assessment in the High School | 3 |
| Educ 314 | Reading and Writing across the Curriculum | 2 |
| Special Methods (in appropriate content area) | | 3 |
| Educ 302 | Teaching Art in the Middle and High School | |
| Educ 303 | Teaching Music in the Middle and High School | |
| | OR | |
| | Mus 302 Music in the Secondary School (Choral) | |
| | OR | |
| | Mus 303 Music in the Secondary School (Instrumental) | |

| | | |
|----------|---|----|
| Educ 338 | Teaching Science in the Middle and High School | |
| Educ 339 | Teaching Physical Education in the Middle and High School | |
| Educ 349 | Teaching Mathematics in the Middle and High School | |
| Educ 447 | Teaching a Foreign Language in the Middle and High School | |
| Educ 451 | Teaching Social Studies in the Middle and High School | |
| Educ 452 | Teaching Language Arts in the Middle and High School | |
| Educ 397 | Field Experience | 1 |
| Educ 459 | Preparing the Work Sample | 2 |
| Educ 476 | Learning Communities: Reflection and Practice | 2 |
| Educ 475 | Student Teaching | 15 |

Minor in Spanish for Elementary Teachers

Prerequisite: Proficiency level of Spanish 202

| | | |
|-----------|--|---|
| Ed/Sp 465 | Spanish in the Elementary School | 4 |
| Ed/Sp 466 | Mexico: A Cultural Mosaic . | 4 |
| Hum 306 | Latino Fiction | 3 |
| OR | | |
| Hum 325 | Hispanics in the United States | 3 |
| Ed/Sp 467 | Practicum in Tapalpa, Mexico | 3 |

ADMISSION

Prior to taking the coursework necessary for teacher licensure, students must be admitted to the College of Education. Students who wish to enter a teaching career should consult with the Coordinator of the Undergraduate Education Program early in the freshman year and should take the introductory education course, Foundations of Education (Educ 260), by fall of the sophomore year. Application to the College of Education may be accomplished as a part of the Educ 260 class. Transfer students who have already satisfied Pacific University's core requirements and are applying for admission to the College of Arts and Sciences may simultaneously apply to the undergraduate

Teacher Education program in the College of Education. Separate applications must be completed for each, and acceptance into the College of Arts and Sciences does not guarantee admission to the College of Education. Transfer students who have satisfied Pacific's core requirements and are interested in attending the Eugene campus should apply directly to the College of Education and are not required to apply separately to the University.

Admission requirements include:

- 2.75 minimum GPA (cumulative and endorsement)
- Passing score on one of the following: California Basic Educational Skills Test (CBEST), or PRAXIS Pre-Professional Skills Test (PPST)
- Academic and pre-professional recommendations
- Personal interview and writing sample to be completed at time of interview

CONTINUATION IN THE PROGRAM

Students must maintain a 2.75 minimum GPA in all professional education and endorsement area coursework with no grade lower than a "C"; a "C-" is not acceptable.

Students must complete all required coursework before student teaching.

Students must take all tests required for licensure before student teaching.

Students must meet all of the above requirements in order to register for student teaching.

REQUIREMENTS FOR PROGRAM COMPLETION

Students must complete all coursework with satisfactory grades.

Students must complete field experience, required practica and student teaching with a grade of Pass.

Students must complete requirements for two work samples. Requirements include preparation, teaching and a satisfactory evaluation.

Students must pass all applicable tests required for licensure.

COURSE DESCRIPTIONS

Educ 260 Foundations of Education

Introduces the foundations of American education and schooling. Examines schooling and the teaching profession from an interdisciplinary approach that includes a variety of perspectives. 2 hours.

Educ 300 Introduction to Early Childhood Education

Introduces the field of early childhood education. Examines the history and foundation of programs; mission and ethics; legislation and public policy; educational reform; appropriate goals for normative and special developmental needs within varied social and cultural contexts; and observational methodology. Requires 2 hours of weekly service learning in an early childhood classroom. Utilizes problem-based learning. Prerequisite: Educ 260, Psy 150 Introduction to Psychology, and sophomore standing. 4 hours.

Educ 302 Special Methods: Teaching Art in Middle and High School

Introduces the basic methods of art instruction for the middle and high school classroom. Discusses creativity, developmental levels, discipline-based art education, and state and national standards. Includes hands-on experiences with art media and lesson plans. Prerequisite: Admission into Teacher Education or permission of instructor. Corequisite: Educ 397. 3 hours.

Educ 303 Special Methods: Teaching Music in Middle and High School

Surveys the fundamental principles, techniques, and procedures for teaching music in the middle and high school. Prerequisite: Admission into Teacher Education or permission of instructor. Corequisite: Educ 397. 3 hours.

Educ 305 Learning Communities: Personal Awareness and Diversity

Explores the personal, relational, and community aspects of communication, collaboration, congruency, cooperation, and competition. Discusses learning communities, personal history and culture, communication skills, creativity, diversity, special needs students, and classroom management. 3 hours.

Educ 314 Reading and Writing across the Curriculum

Introduces middle school and high school educators to the application of reading and writing theories in individual content areas. Develops and expands knowledge of the nature and scope of middle school and high school reading and writing, and of the application of methods, materials, assessments, remedial strategies and motivation for reading, writing, and study skills. Prerequisite: Admission into Teacher Education or permission of instructor. Corequisite: Educ 397. 2 hours.

Educ 317 Special Methods: Teaching Art in the Elementary School

Introduces the basic methods of art instruction for the elementary school classroom. Discusses creativity, developmental levels, discipline-based art education, and state and national standards. Includes hands-on experiences with art media and lesson plans. Prerequisite: Admission into Teacher Education or permission of instructor. Corequisite: Educ 397. 3 hours.

Educ 318 Special Methods: Teaching Music in the Elementary School

Examines the fundamental principles, techniques, and procedures for teaching music in the elementary school. Prerequisite: Admission into Teacher Education or permission of instructor. Corequisite: Educ 397. 3 hours.

Educ 319 Special Methods: Teaching Physical Education in Elementary Schools

Prepares preservice teachers to teach early childhood/elementary school physical education. Emphasizes curriculum, developmental levels, teaching strategies, and classroom management. Prerequisite: Admission into Teacher Education or permission of instructor. Corequisite: Educ 397. 3 hours.

Educ 326 Teaching and Assessment in the High School

Develops skills in designing, organizing, and assessing lessons and units for high schools that involve students in appropriate learning activities, require higher level thinking skills, and use a variety of assessment methods. Includes a variety of instructional skills and strategies, assessment, current trends in education, and classroom management as well as adolescent characteristics and development. Prerequisite: Admission into Teacher Education or permission of instructor. Corequisite: Educ 397. 3 hours.

Educ 327 Teaching and Assessment in the Middle School

Develops skills in designing and organizing lessons and units for middle schools that involve students in appropriate learning activities, require higher level thinking skills, and use a variety of assessment methods. Includes a variety of instructional skills and strategies, assessment, current trends in education, and classroom management as well as adolescent characteristics and development. Prerequisite: Admission into Teacher Education or permission of instructor. Corequisite: Educ 397. 3 hours.

Educ 336 Special Methods: Teaching Health in the Middle and High School

Guides students in the investigation of the three faces of a comprehensive school health program: school health services, school environment, and health instruction. Emphasis on the content of a health curriculum, developmental levels, teaching strategies, assessment, and class management. Prerequisite: Admission into Teacher Education or permission of instructor. Corequisite: Educ 397. 3 hours.

Educ 338 Special Methods: Teaching Science in the Middle and High School

Introduces aspiring educators to the theories, strategies, resources, and technology applications appropriate to science curriculum and instruction at the middle and high school level. Emphasizes research-based teaching and evaluation methods as well as an in-depth analysis of national and state science standards. Prerequisite: Admission into Teacher Education or permission of instructor. Corequisite: Educ 397. 3 hours.

Educ 339 Special Methods: Teaching Physical Education in the Middle and High School

Prepares preservice teachers to teach middle school/high school physical education. Emphasizes curriculum, developmental levels, teaching strategies, and classroom management. Prerequisite: Admission into Teacher Education or permission of instructor. Corequisite: Educ 397. 3 hours.

Educ 340 Curriculum: Early Childhood Education

Examines the development, implementation, and evaluation of appropriate curriculum for children of diverse cultures from birth to age

eight. Discusses assessment of children's diverse individual developmental, family, and group/community needs and values; creation, implementation and evaluation of teaching materials and learning experiences in the areas of language, mathematics, science, social studies, health, safety, nutrition, art, music, drama, and movement; the psychology of literacy and reading instruction; young children's literature; management of the classroom. Requires 2 hours of weekly field experience and observations of children. Prerequisites: Ed 300 or consent of the instructor. 4 hours.

Educ 343 Integrated Methods III: Teaching Mathematics, Science and Health in Early Childhood and Elementary Education

Introduces early childhood and elementary educators to the theories, strategies, resources, and technology applications appropriate to mathematics, science and health methodology. Emphasizes the linkage to state and national standards, integrated curriculum design, and developmentally appropriate pedagogy. Prerequisite: Admission into Teacher Education or permission of instructor. Corequisite: Educ 397. 4 hours.

Educ 349 Special Methods: Teaching Mathematics in the Middle and High School

Introduces aspiring educators to the theories, strategies, resources, and technology applications appropriate to mathematics curriculum and instruction at the middle and high school level. Emphasizes research-based teaching and evaluation methods as well as an in-depth analysis of national and state mathematics standards. Prerequisite: Admission into Teacher Education or permission of instructor. Corequisite: Educ 397. 3 hours.

Educ 361 Foundations of Human Development and Psychology

Introduces future teachers to developmental issues of students in their classrooms: behavioral, physical, personal, social, and cognitive. Relates psychology to teaching and learning including the role of the teacher, learning theory, motivation and reinforcement, individual differences, classroom management, teaching goals and objectives, and evaluation. Overviews the available resources and practices intended to support students with special needs in the regular school setting. 3 hours.

Educ 370 School and Society

Explores the relationship between schools and society. Develops in aspiring teachers an understanding of the philosophical, historical, socio-cultural, and legal foundations of education. 2 hours.

Educ 397 Field Experience

Offers participation in a professional experience in public schools. Prerequisite: Admission into Teacher Education or permission of instructor. 1 hour. P/NP.

Educ 408 Integrated Methods II: Reading and Language Arts in Early Childhood Education

Introduces preservice educators to the survey and implementation of specific curricular methods for early childhood educators. Helps educators understand specific content, survey and critically analyze current issues and trends, and apply methods and their integration and assessment across the following areas: language arts, reading, literature, and drama. Fosters integration and synthesis of all previous and concurrent course work. Prerequisite: Admission into Teacher Education or permission of instructor. Corequisite: Educ 397. 4 hours.

Educ 410 Integrated Methods IV: The Expressive Arts in Early Childhood Education

Assists aspiring early childhood teachers to become knowledgeable about methods for teaching art, music, and physical movement, and become skillful in integrating art, music, and physical movement activities into the curriculum. Examines models of teaching and methods that are specific to each of the three areas, as well as models for appropriately integrating these expressive arts throughout the curriculum. Prerequisite: Admission into Teacher Education or permission of instructor. Corequisite: Educ 397. 2 hours.

Educ 420 Normal Language Development in Children

Examines the nature of language as a system of human communication; language development as a basis for understanding the reading process; and language readiness for reading. Prerequisite: Sophomore standing. 2 hours.

Educ 427 Psychology of Reading Instruction

Examines the nature of the reading process and principles of development and learning related to reading achievement; psychological

foundations of methods and materials utilized in reading instruction; the learner with reading difficulties. Prerequisite: Junior standing or permission of instructor. 2 hours.

Educ 431 Integrated Methods I: General Methods

Guides aspiring teachers of early childhood and elementary age learners in developing skills in designing and organizing lessons and units that involve students in appropriate learning activities, require thinking at a range of levels, and use a variety of assessment methods. Examines curriculum foundations, a variety of specific curricular models, instructional skills and strategies, assessment methods, and classroom management systems. Prerequisite: Admission into Teacher Education or permission of instructor. Corequisite: Educ 397. 2 hours.

Educ 436 Technology Across the Curriculum

Introduces educators to some of the applications for technology in education, and familiarizes them with issues associated with technology use. Develops and expands students' skills and knowledge of educational technology through a series of readings, presentations, lab work, small group work, projects and independent exploration. 2 hours.

Educ 444 Integrated Methods II: Reading and Language Arts in the Elementary School

Introduces preservice educators to the survey and implementation of specific curricular methods for elementary educators. Helps educators to understand specific content, survey and critically analyze current issues and trends, and apply methods and their integration and assessment across the following areas: language arts, reading, literature, and drama. Fosters integration and synthesis of all previous and concurrent course work. Prerequisite: Admission into Teacher Education or permission of instructor. Corequisite: Educ 397. 4 hours.

Educ 445 Integrated Methods IV: Thematic Teaching through Social Studies and the Arts

Assists students in developing thematic curricula which are based on broad concepts drawn from social studies. Integrates the arts, sciences, humanities, and social sciences. Emphasizes identifying appropriate social studies themes, relating curriculum to national and state content standards, and finding and analyzing resources. Prerequisite: Admission

into Teacher Education or permission of instructor. Corequisite: Educ 397. 2 hours.

Educ 447 Special Methods: Teaching a Foreign Language in the Middle and High School

Develops a wide range of teaching tools designed to enhance proficiency oriented teaching in the five skills of speaking, writing, listening, reading, and culture. Prerequisite: Admission into Teacher Education or permission of instructor. Corequisite: Educ 397. 3 hours.

Educ 451 Special Methods: Teaching Social Studies in the Middle and High School

Introduces students to theories, strategies, resources, technologies, and state standards related to social studies curriculum and instruction at the middle and high school level. Reviews the development of social studies. Examines the planning, presenting, and assessing of social studies units and lessons. Includes interactive instructional activities and debates on current issues in the field. Prerequisite: Admission into Teacher Education or permission of instructor. Corequisite: Educ 397. 3 hours.

Educ 452 Special Methods: Teaching Language Arts in the Middle and High School

Acquaints middle and high school educators with a wide range of skills and concepts specifically helpful in teaching language arts. Expands students' knowledge of methods, materials, assessment strategies, remediation techniques, and motivational tools that will enrich their ability to teach language arts. Helps students identify and design lessons, which develop Oregon's Standard and Benchmark abilities for middle and high school students. Prerequisite: Admission into Teacher Education or permission of instructor. Corequisite: Educ 397. 3 hours.

Educ 455 Supervised Practicum

Offers practicum credit while participating in a school setting under the guidance of a classroom teacher and university supervisor. 2 hours.

Educ 459 Preparing the Work Sample

Assists students in designing and preparing a work sample to be taught during student teaching. Includes field experience. Required the semester prior to student teaching. Prerequisite: Admission into Teacher Education or permission of instructor. 2 hours.

Educ 465 Spanish in the Elementary School

Introduces the principles of second language acquisition as they apply to bilingual education and second-language instruction in elementary schools. Acquaints students with dual language materials, bicultural perspectives, and strategies for achieving biliteracy. Includes an observation component in a bilingual classroom. Prerequisite: Spanish 202 or equivalent. Taught in English and Spanish. 4 hours.

Educ 466 Mexico: A Cultural Mosaic

Focuses on Mexican history, folklore, culture, music, and visual arts as they relate to an elementary classroom. Taught bilingually and includes the historical and cultural basis for the Mexican aesthetic. Provides opportunities for participation in musical experiences and art projects suitable for the elementary classroom. Includes design and implementation of a Festival day that will include community participation. Includes observation in bilingual classroom. Prerequisite: Spanish 202 or equivalent. 4 hours.

Educ 467 Practicum in Tapalpa, Mexico

Offers a teaching practicum in an elementary/middle school in Tapalpa, Mexico. Includes a weekly seminar and weekend cultural excursions. Prerequisite: Educ 465 or consent of instructors. 3 hours.

Educ 475 Student Teaching

Offers full-time participation in a school setting under guidance of a classroom teacher and a university supervisor. Prerequisite: Completion of professional sequence and admission into student teaching program. Corequisite: Educ 476. 15 hours. P/NP.

Educ 476 Learning Communities: Reflection and Practice

Serves as both a support and knowledge base for student teachers. Corequisite: Educ 475. 2 hours. P/NP.

Educ 490 Integrating Seminar

Synthesizes the learnings from major course work in education, psychology, and subject area content for a fuller understanding of the education and learning process. Includes completion and presentation of a senior research project focused on a specific aspect of schooling or the learning process. Prerequisite: Senior standing. 6 hours.

ENGINEERING

3-2 ENGINEERING, COOPERATIVE PROGRAM

Contact Dr. Hall

Pacific currently has a formal cooperative program with Washington University in St. Louis and informal programs with other schools including Oregon State University, Washington State University and Portland State University. A complete range of engineering specialties is available through these schools, including aeronautical, chemical, civil, electrical, mechanical and nuclear engineering. Requirements for admission to these programs are unique to each school, but admission is likely for those students who maintain a "B" average and who are recommended by the Division of Natural Sciences. Program details for the various engineering schools are available from Dr. Hall.

The program is designed as a 3-2 transfer program in which the student spends three years at Pacific obtaining the necessary background in science and mathematics and then transfers to the engineering school for the final two years of professional training. In addition, the program provides for an appropriate breadth in humanities and social sciences, which is desirable for scientists in industry. Upon completion, the student receives a B.S. from Pacific and a B.S. in engineering from the engineering school. Engineering schools perceive that students who come into engineering from a liberal arts background frequently have a broader perspective than the average engineering student.

Requirements

In addition to Pacific's core requirements, students planning on a cooperative program are advised to complete the courses listed below. However, specific requirements may depend upon the particular institution to which the student

transfers. They must also complete all other requirements for a B.S. degree with a major of their choice. Normally, this major will be Applied Science because of its obvious overlap with a professional engineering program. However, with careful planning, other majors are possible, particularly physics or mathematics. With prior approval, select professional courses may be used to meet some major requirements.

| | |
|--------------|--|
| Chem 220-230 | General Chemistry I-II .. 8 |
| C.S. 150 | Introduction to Computer Science I 4 |
| Math 226-228 | Calculus I-III 12 |
| Math 240 | Discrete Math 3 |
| Math 311 | Differential Equations ... 3 |
| Phy 232-242 | General (Workshop) Physics I-II 8 |
| Phy 322 | Modern Physics with Health Applications 4 |
| Phy 332 | Waves and Optics 4 |
| Phy 380 | Classical Mechanics in Dynamics 4 |
| Phy 376 | Engineering Mechanics: Statics 3 |
| Phy 364 | Electronics 3/4 |
| 56 or 57 | |

The student must also successfully complete 30 semester credits in engineering courses taken in an accredited engineering program, which may be transferred back to Pacific University. At least 20 of these credits must be at the upper-division level.

COURSE DESCRIPTIONS

Sci 190 Engineering Passport
An introduction to the fields of engineering, with an emphasis on the methods of problems solving and the nature of employment in these fields. Course activities include presentations, discussions, guest lectures, field trips, and problem-solving exercises. 1 hour.

ENGLISH

Tim Thompson, *Chair, Associate Professor*

Pauline Beard, *Associate Professor*

Lorelle Browning, *Professor*

Brently Johnson, *Assistant Professor,
Director of the Writing Center*

Darlene Pagán, *Assistant Professor*

Kathlene Postma, *Associate Professor*

Steve R. Smith, *Assistant Professor;
Assistant Dean, College of Arts and Sciences*

Michael R. Steele, *Distinguished
University Professor*

Doyle W. Walls, *Professor*

The English Department offers the general student guidance in acquiring and developing the skills of interpretation, critical thinking, and clear writing. For students choosing to specialize in Literature or Creative Writing, the curriculum offers the opportunity to engage the literary tradition of British and American writing, as well as world literatures, and to enter into the theory and practice of literature itself. The general student is also welcome to explore the world of letters in any courses the department offers, provided he or she has fulfilled departmental prerequisites.

In particular, the English Department seeks to teach students the following:

- to develop skills that allow them to engage in reflective critical reading;
- to understand and engage the principles of literary analysis and the evolving tradition of literature and writing in English;
- to articulate their responses, ideas, and analyses clearly and powerfully;
- to cultivate speaking skills in both formal and informal settings;
- to recognize the various contexts that shape texts and our responses to them;
- to examine how meaning is constructed in various genres, traditions, periods, and cultures;

- to consider the ethical questions that confront the writer and reader as creators and consumers of texts and as members of society.

The faculty of the English Department brings to its teaching a wide range of experience, training, and perspectives; students benefit from exposure to a variety of teaching styles and approaches to the reading, writing, and enjoyment of literature. Each member of the department brings his or her passions into the classroom: we are all active writers – and remain active in the larger community of writers and scholars – presenting or publishing scholarship, poetry, fiction, drama, or essays.

Students may choose to major or minor in Creative Writing or Literature. Both emphases encourage students to do interdisciplinary work, to recognize the connections between the study of literature and the work they do in other fields as they seek a liberal arts education. Creative Writing majors and minors are required to take part in editing and publishing the *Pacific Review*, the University literary magazine, and *Silk Road*, the international journal edited by our undergraduate and graduate writing students. Literature majors and minors, as well as general students, are encouraged to take advantage of this opportunity to produce literature. (In addition to offering the community the work of resident writers, the department also presents readings and lectures by noted visiting poets, essayists, and novelists.) Our majors go on to graduate school; teach in high schools and colleges; and use their thinking and writing skills in law, medicine, television, publications, technical writing, library science, special education, and social work. They also go on to give readings of their own.

MAJOR IN CREATIVE WRITING REQUIREMENTS

At least one course (3-4 hours) from the following requirements must be in American literature.

Two courses from: 6

| | |
|----------|---|
| Engw 206 | Introduction to Creative Writing, Poetry |
| Engw 207 | Introduction to Creative Writing, Mixed Genre |
| Engw 208 | Introduction to Creative Writing, Fiction |
| Engw 209 | Introduction to Creative Writing, Creative Nonfiction |

One course from: 3

| | |
|----------|---|
| Engl 200 | Introduction to Literature |
| Engl 220 | Literature and Human Concerns (Topics Vary) |
| Engl 221 | Literature and Disability |
| Engl 227 | Introduction to World Literature |
| Engl 229 | Introduction to American Literature |
| Engl 232 | Introduction to British Literature |
| Engl 255 | (Topics Vary) |

Two courses from: 8

| | |
|----------|--------------------------------------|
| Engw 306 | Advanced Poetry Writing |
| Engw 308 | Advanced Fiction Writing |
| Engw 309 | Advanced Creative Nonfiction Writing |

One additional writing course from: 3-4

| | |
|----------|--|
| Engw 206 | Intro Creative Writing: Poetry |
| Engw 208 | Intro to Creative Writing: Fiction |
| Engw 209 | Intro to Creative Writing: Creative Nonfiction |
| Engw 301 | Advanced Expository Writing |
| Engw 306 | Advanced Poetry Writing |
| Engw 307 | Advanced Fiction Writing |
| Engw 309 | Advanced Creative Nonfiction Writing |

Two courses from: 6-8

| | |
|----------|--------------------|
| Engl 340 | Studies in Drama |
| Engl 341 | Studies in Poetry |
| Engl 342 | Studies in Fiction |

Two courses from: 6-8

| | |
|----------|-------------------------------------|
| Engl 323 | Shakespeare |
| Engl 416 | British Literature, Beowulf to 1660 |
| Engl 418 | British Literature: 1660-1790 |
| Engl 421 | The Romantic Period |
| Engl 422 | The Victorian Period |

| | |
|----------|--|
| Engl 423 | Nineteenth-Century American Literature |
| Engl 425 | Twentieth-Century Literature |
| Engl 430 | Major Writers (Specific Authors Vary) |
| Engl 455 | (Topics Vary) |
| WorL | World Languages & Literatures (Upper-division course in a world language; only one course can be used for this requirement)* |

All of the following courses are required:

| | |
|--------------|--|
| Engw 497/498 | Senior Seminar in Creative Writing 4 |
| Engw 465 | Editing <i>Pacific Review</i> (Pass/No Pass) 2 |
| Engw 466 | Literary Magazine Production 1-2 |
| | <hr/> 38-43 |

*Requires world language proficiency; must be a literature course

Recommended courses for Major in Creative Writing:

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|--------------|--|
| Art 218/318 | Computer Graphics 3 |
| Art 235 | Illustration 3 |
| Engl 343 | Studies in Criticism and Theory 3 |
| Hist. 300+ | An upper-division history course 3 |
| Phil 101 | Knowledge and Reality 3 |
| or Phil 110 | Religion and the Quest for Meaning 3 |
| OR Phil 214 | Philosophy of Art 3 |
| WorL 101-202 | World Languages Study3-12 |
| | <hr/> 18-27 |

Admission Procedures for the Creative Writing Major and Minor:

To Major or Minor in Creative Writing, students will need to

- take Engw 201 or 202 or their equivalent (for transfer students);
- take two courses from Engw 206, 207, 208, and 209;
- fill out the Creative Writing Major/Minor Application available in the English Department Office;

- submit a ten-page (maximum) creative manuscript, including writing in two different genres, accompanied by a 250-word Statement of Purpose.

The manuscript will be evaluated for quality and potential by the Creative Writing faculty, and admission to the Major or Minor will be based on their assessment.

Students are encouraged to apply for admission to the Major between the second half of their sophomore year and the first half of their junior year. Students interested in Creative Writing should consult Professors Pagán, Postma, and/or Walls.

MAJOR IN LITERATURE REQUIREMENTS

(At least one course, 3-4 credit hours, from the following requirements must be in American literature.)

One course from: 3-4
Phil 101, 110, 205, 206, 207,
208, 214, 303, 309**, or 403**

Two courses from: 6-7

| | |
|----------|---|
| Engl 200 | Introduction to Literature |
| Engl 220 | Literature and Human Concerns (Topics Vary) |
| Engl 221 | Literature and Disability |
| Engl 227 | Introduction to World Literature |
| Engl 229 | Introduction to American Literature |
| Engl 232 | Introduction to British Literature |
| Engl 255 | (Topics Vary) |

One course from: 3

| | |
|----------|---|
| Engw 206 | Introduction to Creative Writing, Poetry |
| Engw 207 | Introduction to Creative Writing, Mixed Genres |
| Engw 208 | Introduction to Creative Writing, Fiction |
| Engw 209 | Introduction to Creative Writing, Creative Nonfiction |

Two courses from: 6-8

| | |
|----------|-------------------|
| Engl 340 | Studies in Drama |
| Engl 341 | Studies in Poetry |

| | |
|----------|---|
| Engl 342 | Studies in Fiction |
| Engl 343 | Studies in Criticism and Theory |
| WorL | Upper-division course in a world language (only one course can be used for this requirement)* |
| PACS 411 | Literature About War |

Three courses from: 9-12

| | |
|----------|--|
| Engl 416 | British Literature, Beowulf to 1660 |
| Engl 418 | British Literature: 1660-1790 |
| Engl 421 | The Romantic Period |
| Engl 422 | The Victorian Period |
| Engl 423 | Nineteenth Century American Literature |
| Engl 425 | Twentieth Century Literature |
| Engl 430 | Major Writers (specific authors vary) |
| Engl 455 | (topics vary) |

All of the following courses are required:

| | |
|--|---|
| Engl 323 | Shakespeare:..... 3-4 |
| Engl 495 | Senior Seminar in Literature:.....2 |
| Engl 496 | Senior Seminar in Literature .....2 |
| One upper-division History course:.....3-4 | |
| Engl 305 | Research Methods in the Humanities:.....2 |

42-52

** requires world language proficiency; must be a literature course*

***check prerequisites*

MINOR IN CREATIVE WRITING REQUIREMENTS

Two courses from: 6

| | |
|----------|---|
| Engw 206 | Introduction to Creative Writing, Poetry |
| Engw 207 | Introduction to Creative Writing, Mixed Genres |
| Engw 208 | Introduction to Creative Writing, Fiction |
| Engw 209 | Introduction to Creative Writing, Creative Nonfiction |

One course from:..... 3-4

| | |
|----------|---|
| Engl 200 | Introduction to Literature |
| Engl 220 | Literature and Human Concerns (Topics Vary) |
| Engl 221 | Literature and Disability |
| Engl 227 | Introduction to World Literature |
| Engl 229 | Introduction to American Literature |
| Engl 232 | Introduction to British Literature |
| Engl 255 | (Topics Vary) |
| Engl 323 | Shakespeare |

One course from:..... 4

| | |
|----------|-------------------------------|
| Engw 306 | Advanced Poetry Writing |
| Engw 308 | Advanced Fiction Writing |
| Engw 309 | Advanced Creative Non Fiction |
| Engw 310 | Advanced Drama Writing |

One course from:..... 3-4

| | |
|----------|--------------------|
| Engl 340 | Studies in Drama |
| Engl 341 | Studies in Poetry |
| Engl 342 | Studies in Fiction |

The following courses are required:

| | | |
|----------|---|-------|
| Engw 465 | Editing <i>Pacific Review</i> (Pass/No Pass) | 1 |
| Engw 466 | Literary Magazine Production | 1-2 |
| | | 20-23 |

Students interested in Creative Writing should consult Professors Pagán, Postma, and/or Walls.

MINOR IN LITERATURE REQUIREMENTS

Two courses from:..... 6

| | |
|----------|---|
| Engl 200 | Introduction to Literature |
| Engl 220 | Literature and Human Concerns (Topics Vary) |
| Engl 221 | Literature and Disability |
| Engl 227 | Introduction to World Literature |
| Engl 229 | Introduction to American Literature |
| Engl 232 | Introduction to British Literature |
| Engl 255 | (Topics Vary) |

Four courses from:.....12-16

| | |
|----------|--|
| Engl 323 | Shakespeare |
| Engl 340 | Studies in Drama |
| Engl 341 | Studies in Poetry |
| Engl 342 | Studies in Fiction |
| Engl 343 | Studies in Criticism and Theory |
| Engl 416 | British Literature, Beowulf to 1660 |
| Engl 418 | British Literature: 1660-1790 |
| Engl 421 | The Romantic Period |
| Engl 422 | The Victorian Period |
| Engl 423 | Nineteenth-Century American Literature |
| Engl 425 | Twentieth-Century Literature |
| Engl 430 | Major Writers (Specific Authors Vary) |
| Engl 455 | (Topics Vary) |
| PACS 411 | Literature About War |

18-22

COURSE DESCRIPTIONS

Writing (Engw)

Only Engw 201 and Engw 202 satisfy the Art & Sciences writing skills Core Requirement.

Engw 101 Basic Expository Writing

A course devoted to basic writing skills and principles – punctuation, sentence structure, and grammar – and to developing short essays. Graded P/NP. 3 hours.

Engw 150 Basic Expository Writing II

A course designed to refine basic writing skills and develop organizational skills for longer essays. 3 hours.

Engw 201 Expository Writing

An expository writing course in which various topics and genres are used to help students develop and evidence critical thinking skills, understand rhetorical methods, and shape effective prose styles. Students will be writing expository essays and a research paper. Some sections focus on a particular theme. Sophomore standing required. 3 hours.

Engw 202 Writing About Disability

As an expository writing course and an introduction to Disability Studies, this class will address the various topics and genres used

to help students develop and evidence critical thinking skills, understand rhetorical methods, and shape effective prose styles. It will also introduce students to the social, cultural, and ethical issues surrounding the experience of disability. The class fulfills the core requirement for writing. It is co-taught by faculty from the English Department and the School of Physical Therapy. Sophomore standing required. 4 hours.

Engw 206 Introduction to Creative Writing, Poetry

An introduction to writing poetry. Prerequisite: Engw 201 or 202. 3 hours.

Engw 207 Introduction to Creative Writing, Mixed Genres

An introduction to writing in two or more of the following genres: short fiction, drama, poetry, and the personal essay. Prerequisite: Engw 201 or 202. 3 hours.

Engw 208 Introduction to Creative Writing, Fiction

An introduction to writing fiction. Prerequisite: Engw 201 or 202. 3 hours.

Engw 209 Introduction to Creative Writing, Creative Nonfiction

An introduction to multiple forms of literary self-expression in the vein of creative nonfiction, which may include the personal essay, memoir, literary nonfiction, literary journalism. Prerequisite: Engw 201 or 202. 3 hours.

Engw 301 Advanced Expository Writing

Focusing on the nonfiction essay, this class gives students the opportunity to articulate their own mature ideas and to refine their higher-level writing and thinking skills. May be repeated once for credit with permission of the department. Prerequisite: Engw 201 or 202. 3 or 4 hours. (G)

Engw 305 Research Methods in the Humanities

This required class for English Literature Majors will concentrate not only on the up-to-date methods of research used for writing in the Humanities, but also the traditional methods of pursuing a topic, note-taking, assimilation of materials and the presentation, written and oral, of completed research. The class is also open to non-English majors in the Humanities. Junior standing. 2 hours.

Note: 300-level advanced creative writing workshops require demonstrated experience and ability in creative writing and are designed for Creative Writing majors and minors, though non-Majors/Minors may be admitted to advanced workshops if the following prerequisites are fulfilled:

- completion of Engw 201 or 202 or their equivalent for transfers;
- satisfactory completion of two courses from Engw 206, 207, 208, and 209, one of which must be in the same genre as the advanced course to which the student is seeking admittance;
- instructor's consent.

Students interested in taking advanced creative writing workshops should consult the individual instructor. Admission to the course cannot be guaranteed.

Engw 306 Advanced Poetry Writing

A workshop for writing and discussing poetry. May be repeated. Prerequisites for Majors/Minors: Engw 201 or 202 or their equivalent for transfers; two courses from Engw 206, 207, 208, and 209; manuscript approval; instructor's consent. Prerequisites for non-Majors/Minors: Same as above with these exceptions: non-Majors need not submit a manuscript and must complete Engw 206 prior to taking this course. 4 hours. (G)

Engw 308 Advanced Fiction Writing

A workshop for writing and discussing fiction. May be repeated. Prerequisites for Majors: Engw 201 or 202 or their equivalent for transfers; two courses from Engw 206, 207, 208, and 209; manuscript approval; instructor's consent. Prerequisites for non-Majors/Minors: Same as above with these exceptions: non-Majors need not submit a manuscript and must complete Engw 208 prior to taking this course. 4 hours. (G)

Engw 309 Advanced Creative Nonfiction

A workshop for writing and discussing creative nonfiction. May be repeated. Prerequisites for Majors: Engw 201 or 202 or their equivalent for transfers; two courses from Engw 206, 207, 208, and 209; manuscript approval; instructor's consent. Prerequisites for non-Majors/Minors: Same as above with these exceptions: non-Majors need not submit a manuscript and must complete Engw 209 prior to taking this course.

Engw 465 Editing Pacific Review

A course in which students assist the student editor-in-chief in selecting, editing, and laying out examples of community writing. Graded P/NP. May be repeated. 1 hour.

Engw 466 Literary Magazine Production

A course in literary magazine production. Students work with graduate students in Pacific's MFA in Writing program to produce a nationally distributed literary review. Prerequisite: None. Students may enroll for one or two hours.

Engw 497/498 Senior Seminar: Creative Writing

Students in this capstone experience for creative writing majors will discuss the historical experience of the creative writer, and the condition, role, and production of literature in contemporary society as they prepare and revise a reflective essay on the creative process and finally compose a significant manuscript of original work in poetry, fiction, personal essay, or drama; all students will present their manuscripts in a public reading. Prerequisite: Senior standing and one upper-division course from 306, 308, or 309. 2 hours per semester.

Literature (Engl)**Engl 200 Introduction to Literature**

An introduction to the study of literature by examining fiction, poetry, drama, and essays from various periods and countries. 3 hours.

Engl 220 Literature and Human Concerns

A study of important ideas and problems as they are reflected in the world's literature. War, racism, death, censorship, film, civil disobedience, minority literature, and the Holocaust are examples of characteristic topics. May be repeated more than once when content varies. 3 hours.

Engl 221: Literature and Disability

The historian Sander Gilman calls literature "the art of writing down a culture's dreams." It is intriguing to note, then, how many of Western cultures' literary "dreams" are about the physically or mentally different, about the monstrous (so-perceived) and the maimed, the crippled and the crazed. From Sophocles' *Philoctetes* to Dunn's *Geek Love*, this course traces how and explores why authors of various periods have imagined and dramatized physical and cognitive difference. The issues

that arise – literary, aesthetic, social, and philosophical – will be considered in their own, and our own, historical and cultural contexts. 3 hrs.

Engl 227 Introduction to World Literature

An introduction to literature drawn from Western and non-Western cultures, organized around a theme, a literary problem, or the examination of a political condition. Ordinarily, the reading lists will include several genres. Meets cross-cultural requirement. 3 hours.

Engl 229 Introduction to American Literature

An introduction to selected American authors and themes from Puritanism to multicultural Postmodernism. 3 hours.

Engl 232 Introduction to British Literature

An introduction to selected British writers and themes. 3 hours.

Note: 300-level courses demand that students have familiarity with the close analysis of literature; one lower-division literature course is prerequisite, and we recommend that students be of Junior standing when they enroll for these courses. All upper-division literature courses are offered at 3 or 4 hours of credit, depending upon instructor's choice; note minimum course and hour requirements for majors and minors within the department.

Engl 323 Shakespeare

An analysis of Shakespeare's major plays with emphasis on both literary and theatrical qualities. Prerequisite: one lower-division literature course. 3 or 4 hours. (G)

Engl 332 Introduction to Linguistics

An introduction to the principles, methods, and basic vocabulary of modern linguistic theory, with emphasis on the elements of phonology, morphology, and modern grammatical theory. Provides a basic introduction to the history and structure of English, but examples are drawn from a variety of languages. No previous language training necessary. 3 hours. Offered every year.

Engl 340 Studies in Drama

The reading and analysis of chief European and American playwrights from the authors of the morality plays to the present, with some consideration of the dramaturgy involved in

the production of the plays. Prerequisite: one lower-division literature course. 3 or 4 hours. (G)

Engl 341 Studies in Poetry

An upper level introduction to reading poetry, with an emphasis on structure, traditional models, periods, and interpretation. Prerequisite: one lower-division literature course. 3 or 4 hours. (G)

Engl 342 Studies in Fiction

A study of the development of the short story and novel, with an emphasis on exploring interpretive models. Prerequisite: one lower division literature course. 3 or 4 hours. (G)

Engl 343 Studies in Criticism and Theory

A study and application of some of the critical and theoretical approaches used in the study of literature. Prerequisite: one lower-division literature course. 3 or 4 hours. (G)

Note: 400-level courses are the most advanced courses offered by the Department: they are designed for juniors and seniors. Two literature courses are prerequisite, and we recommend that students have completed at least one 300-level literature course. All upper-division literature courses are offered at 3 or 4 hours of credit, depending upon instructor's choice; note minimum course and hour requirements for majors and minors within the department.

Engl 416 British Literature: Beowulf to 1660

Intensive studies in the period to include such figures as the author of Beowulf, Chaucer, Shakespeare, Spenser, Milton, Donne, Marvell, Congreve. The focus changes from time to time to include drama or prose or lyric poetry. Prerequisite: two literature courses and Junior standing. 3 or 4 hours. Offered alternate years. (G)

Engl 418 British Literature: 1660-1790

Investigates major works of the Restoration and eighteenth century and is focused to explore central philosophical, intellectual, or cultural themes of the period. Prerequisite: two literature courses and Junior standing. 3 or 4 hours. Offered alternate years. (G)

Engl 421 The Romantic Period

An advanced study of the poetry and poetics and prose of the Romantic Period of British Literature, with special emphasis on the affects on a variety of poets of the emerging Industrial

Revolution, the French Revolution and its aftermath, and new paradigms of thought in the way people perceived nature and gender roles, among other topics. 3 hours. Offered alternate years.

Engl 422 The Victorian Period

An advanced study of several literary genres during the Victorian Period of British Literature (1837-1901), with special emphasis on the affects on authors of the triumph of the Industrial Revolution, the rise of Darwin's theories, the challenges to religious and social orthodoxies, and changes in aesthetics, among other topics. Authors to be studied could include such figures as Austen, Dickens, Eliot, Tennyson, the Rossettis, Arnold, Swinburne, Hopkins, Ruskin, Shaw, Gissing, the Brownings, Mill, and others. 3 hours. Offered alternate years.

Engl 423 Nineteenth-Century American Literature

Intensive study in the period to include such writers as Melville, Hawthorne, Emerson, Thoreau, Dickinson, Whitman, and the literature of slavery and abolition. Prerequisite: two literature courses and Junior standing. 3 or 4 hours. (G)

Engl 425 Studies in Twentieth-Century Literature

Intensive studies in major writers of the period. Prerequisite: two literature courses and Junior standing. 3 or 4 hours. (G)

Engl 430 Major Writers

A detailed study of the works of selected writers: for example, Chaucer, Milton, Dickens, Blake, Yeats, Thoreau, Woolf. Prerequisite: two literature courses and Junior standing. May be repeated once for credit when content varies. 3 or 4 hours. Offered intermittently.

Engl 495/496 Senior Seminar: Literature

Students in this capstone experience for literature majors will discuss the state of literature, criticism, and writers in contemporary society, reflecting on the tradition of literature and literary study, and develop, present, and analyze original critical work. Students will produce a 20-30 page thesis, with annotated bibliography, and present their work publicly. Prerequisite: Senior standing. 2 hours per semester.

Note: In addition, PACS 411 may be counted toward the major and minor in Literature.

ENVIRONMENTAL STUDIES PROGRAM

Deke Gundersen, *Director, Associate Professor of Environmental Science*

Richard Van Buskirk, *Assistant Professor of Environmental Science*

John W. Hayes, *Professor of Environmental Science*

Edmond Alkaslassy, *Assistant Professor of Biology*

Mark D. Bodamer, *Assistant Professor of Psychology*

Joel W. Gohdes, *Assistant Professor of Chemistry*

Stacey L. Halpern, *Assistant Professor of Biology*

Ellen Hastay, *Director of Humanitarian Center*

Lawrence M. Lipin, *Professor of History*

Pamela Lopez, *Professor of Biology*

Terry O'Day, *Associate Professor of Art*

Philip J. Ruder, *Professor of Economics*

Lisa Sardinia, *Associate Professor of Biology*

Robert Van Dyk, *Professor of Politics and Government*

The Environmental Studies Program in the College of Arts and Sciences provides students with modern environmental science degrees in the context of a liberal arts and sciences curriculum. In these programs, students and faculty have an opportunity to pursue varied interests in this broad and multidisciplinary field. The faculty guiding the program are in the traditional disciplines of biology, chemistry and environmental science but who choose to apply their knowledge to environmental problems that cross disciplinary boundaries.

The Environmental Studies Program offers a degree in Environmental Science with an emphasis in either Biology or Chemistry and a degree in Environmental Studies. The Environmental Biology emphasis focuses on field and laboratory

approaches to understanding environmental and ecological problems. The principal uniqueness of the Environmental Biology emphasis can be found in the integration of interdisciplinary core courses with a mission-oriented, problem-solving methodology. Pacific University students majoring in Environmental Science with an emphasis in Biology study in the unique surroundings of the Tualatin River Basin, Pacific's John Blodgett Arboretum, the Columbia River and Tillamook Estuaries, and Fernhill Wetlands (300 acres), which is located in Forest Grove. Students completing this major have the analytical skills and technical background necessary to compete in the job market for environmental biology positions or to continue with advanced studies in a graduate program.

The Environmental Chemistry emphasis couples a core study in Chemistry with specific environmental science and policy courses. The core courses provide a theoretical background for understanding the chemical processes that control the distribution of contaminants in the environment. The program emphasizes an understanding of atmospheric, groundwater and aquatic chemistry and includes the analytical and statistical methods to study them. Field activities in a variety of nearby study areas are included. Students graduating with this major are well qualified to directly enter the job market and will have excellent credentials for entry into various related graduate programs.

The Environmental Studies curriculum is designed to provide students with the skills they will need to work for environmental organizations who are looking for graduates broadly trained in Environmental Studies. The Environmental Studies curriculum is an interdisciplinary program with students taking courses from a broad array of disciplines including political science, business and economics, psychology, philosophy, history, biology, chemistry, geology, computer science, and environmental science. This program also requires student internships in environmental education, outreach, and

volunteerism. Students completing this program would also be qualified to apply for over 17 graduate programs in Environmental Studies.

Visit the Environmental Studies web site at <http://www.pacificu.edu/as/enviro/> or through the main web site at <http://www.pacificu.edu/>.

GOALS FOR THE MAJOR

By successfully completing a major in Environmental Science, students will be able to:

- Demonstrate conceptual understanding of fundamental environmental principles.
- Communicate effectively in the discipline in oral and in written form.
- Be able to think critically and synthesize information from a variety of different sources.
- Consider social, political and economic views when dealing with environmental problem solving.
- Conduct independent research or work successfully in a technical position.

MAJOR IN ENVIRONMENTAL SCIENCE

Biology emphasis

Requirements

| | | |
|----------|---|---|
| Env 100 | Environmental Studies Seminar | 1 |
| Env 200 | Introduction to Environmental Science | 4 |
| Env 301 | Environmental Toxicology | 4 |
| Env 490 | Environmental Science Capstone | 2 |
| Env 224 | Environmental Politics | 3 |
| Econ 102 | Principles of Microeconomics | 3 |
| Env 333 | Environmental Economics ... | 3 |
| Biol 202 | General Biology I | 4 |
| Biol 204 | General Biology II | 4 |
| Biol 305 | Ecology | 4 |
| Chem 220 | General Chemistry I | 4 |
| Chem 230 | General Chemistry II | 4 |

Organic Chemistry

Either Chem 310-311, 320-321

OR Chem 240-241 4-8

Students must also take two courses from each of the following two groups (I and II):

| | | |
|----------|--------------------------------|---|
| Group I | ..... | 8 |
| Env 310 | Environmental Chemistry | |
| Biol 308 | Microbiology | |
| Biol 320 | Cell Biology | |
| Biol 330 | Genetics | |
| Biol 400 | Molecular Biology | |
| Biol 470 | Animal Physiology | |
| Chem 380 | Biochemistry | |
| Group II | ..... | 8 |
| Env 320 | Tropical Environmental Biology | |
| Biol 316 | General Botany | |
| Biol 340 | Animal Behavior | |
| Biol 345 | Marine Biology | |
| Biol 420 | Vertebrate Zoology | |
| Biol 450 | Tropical Rainforest Biology | |
| Biol 410 | Invertebrate Zoology | |
| Biol 430 | Plant Systematics | |

60-64

Restrictions: In order to receive an Environmental Science degree with an emphasis in Biology from Pacific University, a student must complete Env 490 Capstone Experience, and at least 3 upper division courses. Students cannot receive a degree in both Environmental Science (biology emphasis) and Biology.

It is strongly recommended that students include the following courses as part of their curriculum in order to have a solid environmental biology foundation:

- Genetics
- Evolution
- Plant Systematics or Botany
- Vertebrate Zoology
- Microbiology, Cell Biology, Molecular Biology, Animal Physiology, or Biochemistry

Recommended:

Introductory Physics or General Physics
 An introductory statistics course
 Calculus I and II

Chemistry Emphasis**Requirements:**

| | | |
|------------------------|---|----|
| Env 100 | Environmental Studies Seminar | 1 |
| Env 200 | Introduction to Environmental Science | 4 |
| Env 310 | Environmental Chemistry | 4 |
| Env 490 | Environmental Science Capstone | 2 |
| Env 224 | Environmental Politics | 3 |
| Econ 102 | Principles of Microeconomics | 3 |
| Env 333 | Environmental Economics | 3 |
| Chem 220-230 | General Chemistry I-II | 8 |
| Chem 310-311 | | |
| Chem 320-321 | Organic Chemistry I-II | 8 |
| Chem 340-341 | Quantitative Analysis | 4 |
| Chem 350-351 | Instrumental Analysis | 4 |
| Either Physics 202-204 | | |
| OR | | |
| Physics 232-242 | ..... | 8 |
| Math 226 | Calculus I | 4 |
| Biol 202-204 | General Biology I-II | 8 |
| | | 64 |

Restrictions: In order to receive an Environmental Science degree with an emphasis in Chemistry from Pacific University a student must complete Env 490 Capstone Experience, Env 310 Environmental Chemistry and at least 3 upper division courses.

Recommended:

Environmental Toxicology
 Thermodynamics and Kinetics
 Advanced Inorganic Chemistry
 Biochemistry
 Calculus II
 Molecular Biology

MAJOR IN ENVIRONMENTAL STUDIES**Requirements:**

| | | |
|--|--|---------|
| Science | ..... | 14 – 15 |
| Env 200 | Introduction to Environmental Science | 4 |
| Biol 202 | General Biology I | 4 |
| Chem 110 | Chemistry and Your Environment | 3 |
| OR | | |
| Chem 220 | General Chemistry I | 4 |
| Env 140 | Energy and the Environment | 3 |
| Math and Computer Science | ..... | 8 |
| CS 130 | Introduction to software Tools | 2 |
| Math 207 | Elementary Statistics | 3 |
| OR | | |
| Soc 3017 | Social Statistics | 3 |
| Env 155 | Introduction to geographic information systems | 3 |
| Environmental Studies | ..... | 23 |
| Env 100 | Environmental Studies Passport | 1 |
| Env 441 | Environmental History | 3 |
| OR | | |
| Env 313 | Ecological Psychology | 3 |
| Env 255 | Oregon Natural History | 4 |
| Env 255 | Environmental Restoration .. | 4 |
| OR | | |
| Env 355 | Conservation Biology | 4 |
| Env 475 | Environmental Studies internship | 6 |
| Env 490 | Environmental Studies Capstone | 2 |
| Selected topics in Environmental Studies (Env 200 – 300 level) | | |
| Economics | ..... | 6 |
| Econ 102 | Principles of Microeconomics | 3 |
| Env 333 | Environmental Economics | 3 |
| Business | ..... | 4 |
| BA 204 | Accounting Principles | 4 |

| | |
|---|-------|
| Politics and Government | 7 |
| PolS 325 Constitutional Law | 4 |
| Env 224 Environmental Politics | 3 |
| Peace and Conflict Studies | 3 |
| PACS 215 Conflict Resolution | 3 |
| OR | |
| PACS 230 Navajo Service Learning | 3 |
| Human Performance | 1 |
| Hyper 105 First Aid | 1 |
| | 62-63 |

Restrictions: Students can not receive a degree in Environmental Studies and a minor in Environmental Science or Environmental Policy.

MINOR IN ENVIRONMENTAL SCIENCE

The minor in environmental science is designed to expose students to the interdisciplinary nature of environmental issues, with emphasis on the current scientific methods used to study these issues. This minor is intended to provide students with a firm foundation in the language, concepts and methods of Environmental Science as well as perspectives on current issues concerning the environment. While this minor emphasizes the fundamentals of natural and applied environmental science, this minor also incorporates 3-7 credit hours outside of these areas to help students gain a better appreciation for the interdependent nature of human behavior and environmental health.

Any student who is interested in the relationship between humans and their environment is encouraged to participate. Students from a wide-range of primary disciplines, from the sciences to the social science, humanities, business and arts may benefit from this minor area of specialization.

Requirements:

| | | |
|---------|---|---|
| Env 100 | Environmental Science Seminar | 1 |
| Env 200 | Introduction to Environmental Science | 4 |

Electives:

Choose one course from the electives in environmental policy and two courses from the electives in environmental science. Note: two of these courses must be at the 300 level or above.

Environmental Policy

| | | |
|---------|------------------------------|---|
| Env 224 | Environmental Politics | 3 |
| Env 333 | Environmental Economics . | 3 |
| | (Prerequisite: Econ 102; | |
| | 3 credits) | |

Environmental Science

| | | |
|---------|---|---|
| Env 310 | Environmental Chemistry ... | 4 |
| | (Prerequisites: Chem 220/221, Chem 230/231, Chem 240/241 or Chem 320/321; | |
| | 12 credits) | |
| Env 301 | Environmental Toxicology | 4 |
| | (Prerequisites: Chem 220/221, Chem 230/231, Bio 202; | |
| | 12 credits) | |
| Env 210 | Tropical Environmental Biology | 4 |
| Phy 322 | Modern Physics with Health Applications | 4 |
| | (Prerequisites: Phy 202 or 232, Phy 204 or 242, Math 226 & 227; 16 credits) | |

32-40

MINOR IN ENVIRONMENTAL POLICY

The rapid development of industrial economies has often occurred at the expense of the natural environment. Citizens of rich countries increasingly demand healthy environmental conditions. Governmental authorities, private businesses and non-profits face the challenge of mitigating past damage and creating new modes of production that entail smaller environmental costs. The environmental policy minor seeks to educate students to effectively participate in decisions that affect scarce environmental resources.

The consideration of environmental issues requires knowledge drawn from a variety of disciplines spanning the natural and social sciences and the humanities as well. Students with minors in environmental policy will possess basic knowledge of environmental science, economics, politics, history and ethics. In addition to the understanding of environmental issues, students will gain expertise in the practical skills employed by environmental policymakers. Such skills include proficiency in spreadsheet analysis, GIS mapping and lab sciences.

Requirements:

| | | |
|----------|---|---|
| Env 100 | Environmental Studies Seminar | 1 |
| Env 200 | Introduction to Environmental Science | 4 |
| Biol 202 | General Biology I | 4 |
| Econ 102 | Principles of Microeconomics | 3 |
| Env 333 | Environmental Economics | 3 |
| Env 224 | Environmental Politics | 3 |
| PolS 325 | Constitutional Law | 4 |

Students must also take one of the following courses:

| | | |
|---------|---|---|
| Env 313 | Ecological Psychology | 3 |
| Env 342 | Risk Management and Decision Making. | 3 |
| Env 441 | Environmental History | 3 |

26-27

COURSE DESCRIPTIONS**Environmental Science (Env)****Env 100 Environmental Studies Seminar**

The study of the environment encompasses a broad field that links theory from many disciplines to applications in human society. This course provides a survey of both the major issues in environmental science and the environmental professions that address these issues. Faculty and outside speakers from government and private industry will make presentations and lead discussions. The structure of environmental regulation and management in the U.S. will be described. 1 hour.

Env 140 Energy and the Environment

In order to live humans require energy, and methods of energy production significantly affect the environment in which humans live. This course examines fundamental thermodynamic concepts such as energy and power and then explores the comparative environmental costs and benefits, including potential long term consequences, of producing energy from various sources such as fossil fuels, nuclear reactors, wood burning, solar panels, wind turbines, etc. Methods of estimation and risk assessment are emphasized so that meaningful comparisons between energy sources and their environmental consequences can be made. 3 hours.

Env 200 Introduction to Environmental Science

The systemic study of the environment, and human impacts on environmental systems. Human activities have changed the types and rates of processes occurring throughout the planet. Understanding the near-term and long-term effects of these actions on the quality of the environment requires a broad view of the science on how earth functions without human intervention, and how society has changed these functions to support itself. Includes laboratory and field experiences. Consent of instructor. 4 hours.

Env 210 Tropical Environmental Biology

A study of the effects of human activity on natural environments associated with Third World, developing countries (ie. Belize and Guatemala, Central America). A variety of ecosystems and areas will be studied, including lowland savannas, tropical seasonal forests, limestone caves, coastal lagoons, mangrove swamps, sea-grass flats, coral reefs and urban and rural societies. The course meets during the spring, in order to present lectures and background materials, which will prepare students for activities in Belize and Guatemala in May. Additional fee required. Prerequisite: consent of instructor and sophomore standing. 4 hours.

Env 214 Outdoor Leadership

This course is designed to offer students an outdoor context for their leadership development. Applied decision making skills, group dynamics, trip planning, first aid and navigation will be addressed in three activity areas; winter camping with snow shoes, Sea Kayaking, and Backpacking. Prerequisite: Outdoor Recreation 150 or consent of instructor. 2 hours.

Env 224 Environmental Politics

This course introduces students to environmental disputes and the forces that affect environmental policy. Topics include the history and evolution of environmentalism and environmental policy and an extensive case study of a local environmental issue. Students will attend the Environmental Law Conference in Eugene in March, and they will go on several shorter field trips. 3 hours.

Env 301 Environmental Toxicology

Pollutants impact the structure and function of ecological systems at all levels of biological organization. This course will focus on the effects of toxicants on ecological structures, from the molecular to the individual organism to the community and the ecosystem. Field and laboratory experiences are integrated into the course and will involve standard toxicity testing, use of biomarkers, tissue, water and soil analyses, and molecular techniques. Prerequisite: Biology 204, and one semester of organic chemistry, both with a "C-" or better, and consent of instructor. 4 hours.

Env 310 Environmental Chemistry

Changes in the environment are ultimately the result of chemical processes. This course examines our understanding of chemical change in the atmosphere, groundwater, and various aquatic environments from both a theoretical and practical perspective. Methodology for monitoring and modeling these systems will be included. Prerequisites: Chem 240 or Chem 310, Bio 204 with a "C-" or better. Alternate years.

Env 313 Ecological Psychology

This course examines research on the impact of the environment on humans and well as the impact of humans on the environment and the consequences of these interactions. Research and viewpoints from various perspectives covering a variety of topics will be read and discussed. Students will also learn from first hand experience through participation in field trips to a variety of diverse local environments, as well as through participation in a service learning project. Prerequisite: Psy 150 or permission of instructor. 3 hours.

Env 320 Advanced Tropical Environmental Biology

An in depth study of the effects of human activity on tropical ecosystems associated with developing countries, and current environmental science research in tropical ecosystems. A variety of tropical ecosystems will be studied with an emphasis on tropical seasonal forests and marine ecosystems. The course meets once a week during the spring semester, in order to present lectures and background materials, which will prepare students for activities in Belize and Guatemala in May. Students will be assigned outside readings from peer-reviewed scientific research articles and text books dealing with environmental impacts on tropical ecosystems. Students will be required to demonstrate their knowledge of this material in addition to the material that is required for students taking Env 210 (Tropical Environmental Biology for Nonscience majors). Students will participate in hands-on field research, design research proposals, and learn environmental problem solving through a case study approach. This will be in addition to the daily requirements for students in Env 210. Additional fee required. Prerequisite: Env 200 Biol 202, and Math 207. 4 hours

Env 333 Environmental Economics

Environmental economics studies the role of environmental amenities such as clean air and clean water in the economic system. This course analyzes the problems of market outcomes when such amenities are not priced. The problems associated with estimating economic costs and benefits are also carefully examined. Through-out the course, the connection between economic understanding and improved public policy is emphasized. The course will include a lab section which will be devoted in large measure to experiences in the field. Prerequisite: Economics 102. 3 hours.

Env 342 Risk Management and Decision Making

The focus of this course is on the development, application, and integration of analysis tools and decision models to aid managerial decision making in the face of risk and uncertainty. The course presents ways of structuring such problems to provide a systematic, reasoned analysis of the situation. Behavioral factors that influence decisions will also be considered. Specific topics include normative and descriptive theories of decision making, judgmental heuristics and biases, risk assessment techniques, risk management frameworks and strategies, value tradeoffs and multi-criteria decision analysis. We will explore applications in environmental, technological, health, safety, and organizational risk management. Prerequisites Junior standing. 3 hours.

Env 441 Environmental History

This course focuses on historical scholarship that has addressed the changing relationship between human societies and "nature". The course explores the development of ecological science and environmental politics; it also explores the ways in which Americans of European and indigenous background impose their understandings on the landscape, and the consequences of these impositions. Other subjects include National Park Service policy, game conservation and class conflict, and the development of governmental agencies dedicated to protecting or controlling the environment. Prerequisite: Junior standing or consent of instructor. 3 hours.

Env 490 Capstone Experience

Designed to allow students to expand on research projects or internships by more thoroughly examining the primary literature, reanalyzing data, writing an annotated bibliography, and presenting in a public forum. Prerequisite: Senior standing and approved project. 2 hours.

Env 495 Research

Faculty supervised, student-conducted, individual research project. Prerequisite: consent of instructor. 1-6 hours.

EXERCISE SCIENCE

Shawn Henry, *Chair, Associate Professor of Exercise Science*

Brian Jackson, *Assistant Professor of Exercise Science*

Philip Schot, *Associate Professor of Exercise Science*

Sheryl Sanders, *Associate Professor of Physical Therapy*

Joe Boyd, *Instructor*

Scott Miller, *Instructor*

Gary Saxton, *Instructor & Athletic Trainer*

Ken Schumann, *Instructor*

The mission of the Exercise Science program is to contribute to the generation, dissemination and application of knowledge related to human movement in multiple contexts. Students and faculty are actively engaged in each area. While a health-science context is emphasized, the curriculum enables students to understand movement by integrating multiple scientific perspectives so as to be successful in a variety of arenas (e.g., employment in the fitness/exercise field, graduate study in professional or academic disciplines). Toward these ends, students majoring in Exercise Science will pursue an emphasis in either Motor Behavior or Integrative Physiology.

A student completing a major in Exercise Science shall demonstrate the ability to:

- Understand and apply fundamental principles for the various sub-disciplines in Exercise Science to a variety of contexts (e.g., health, fitness, rehabilitation, education);
- Use qualitative and quantitative reasoning and evidence, synthesizing information from a variety of origins to methodically and systematically solve problems and develop interventions in the human movement domain;

- Communicate effectively, both orally and in writing, in accordance with disciplinary standards;
- Design, conduct, interpret, and evaluate human movement science research

All Exercise Science majors will complete the following coursework:

| | | |
|--------------|--|---|
| BIOL 202 | General Biology I & Lab | 4 |
| BIOL 224 | Human Anatomy | 4 |
| BIOL 240 | Human Physiology | 4 |
| MATH 207 | Statistics (or PSY 350 or SOC 301) | 3 |
| EXMB 105 | First Aid | 1 |
| EXMB 205 | Care & Prevention of Athletic Injuries | 2 |
| EXMB 200 | Empirical Techniques in Exercise Science | 2 |
| EXIP 281/381 | Nutrition / Principles of Nutrition | 3 |
| EXIP 345 | Biomechanics | 4 |
| EXIP 365 | Perceptual Motor Learning .. | 3 |
| EXIP 385 | Exercise Physiology | 4 |

Plus one of the following:

| | | |
|----------|--|---|
| EXIP 445 | Advanced Biomechanics ... | 4 |
| EXIP 465 | Advanced Perceptual Motor Learning | 4 |
| EXIP 485 | Advanced Exercise Physiology | 4 |

(This results in 38 total credits, 24 from the department, and 15 or 18 upper division credits)

All students will complete one of the two emphasis areas. The **Integrative Physiology** path incorporates additional coursework from the parent disciplines in the natural / physical sciences whereas the **Motor Behavior** track accentuates behavioral and applied considerations related to a variety of aspects of movement. Courses with the EXIP prefix satisfy natural science core requirements. Both routes, in combination with strategic

selection of elective / core courses that satisfy prerequisites for specific graduate programs, can serve students with aspirations of pursuing graduate studies in health professions (PT, OT, PA, AT, DC, MD, OD), education (MAT) or academics (MS, PhD).

The clusters of coursework unique to each emphasis are listed below. There is not necessarily a specified order for the courses. The Capstone requirement will be satisfied by successfully (grade of C or better) completing EXIP 445, 465, or 485 (these courses may not be repeated for credit). Only courses marked with asterisks may be repeated for credit with a change of topic and in only in consultation with the advisor. The 8 elective credits in the Motor Behavior emphasis must include a variety of academic activities (e.g., cannot use 8 credits of Internship).

INTEGRATIVE PHYSIOLOGY EMPHASIS

| | | |
|----------|---|---|
| BIOL 204 | General Biology II & Lab ... | 4 |
| CHEM 220 | General Chemistry I & Lab ... | 4 |
| CHEM 230 | General Chemistry II & Lab .. | 4 |
| PHY 202 | Introductory Physics I & Lab (or PHY 232) | 4 |

An additional selection from one of the following courses:

| | | |
|----------|--|----|
| EXIP 440 | Advanced Human Anatomy | 4 |
| EXIP 445 | Advanced Biomechanics ... | 4 |
| EXIP 465 | Advanced Perceptual Motor Learning | 4 |
| EXIP 485 | Advanced Physiology of Exercise | 4 |
| EXMB 475 | Internship | 3* |
| EXIP 495 | Research | 3* |

(57-58 total credits, 27-28 from the department, and 17-21 upper division credits)

MOTOR BEHAVIOR EMPHASIS

| | | |
|----------|-------------------------------|---|
| EXMB 315 | Adapted PE | 3 |
| EXMB 333 | Sport Psychology | 3 |
| EXMB 336 | Sport in Society | 3 |
| EXMB 366 | Human Motor Development | 3 |

Select 8 additional credits from the following:

| | | |
|----------|--|----|
| EXMB 214 | Outdoor Leadership | 2 |
| EXMB 318 | Teaching Physical Activity I ... | 3 |
| EXMB 319 | Teaching Physical Activity II | 2 |
| EXMB 311 | Coaching Methods | 2* |
| EXMB 312 | Coaching Principles | 3 |
| EXMB 325 | Medical Kinesiology I | 3 |
| EXMB 475 | Internship | 3* |
| EXIP 440 | Advanced Human Anatomy | 4 |
| EXIP 445 | Advanced Biomechanics ... | 4 |
| EXIP 465 | Advanced Perceptual Motor Learning | 4 |
| EXIP 485 | Advanced Physiology of Exercise | 4 |
| EXIP 495 | Research | 3* |
| OT 465 | Medical Terminology | 1 |

Recommended selections for Motor Behavior students aspiring to become physical educators: Teaching Physical Activity I and II (junior year), plus a mix of Coaching Methods, and/or Internship.

Recommended selections for Motor Behavior students considering Athletic Training or Occupational Therapy: Advanced Human Anatomy, Medical Terminology, Medical Kinesiology, and/or Internship.

(58 total credits, 43-44 from department, and 35-38 upper division credits)

Students with an interest in coaching may earn a minor to enhance their knowledge to facilitate that pursuit. Exercise Science majors (either emphasis) may not earn a Coaching minor; however, they are free to take courses as electives, subject to institutional limitations.

EXERCISE SCIENCE MINOR (24-25 CREDITS)

| | | |
|----------|--|---|
| BIOL 202 | General Biology I & Lab | 4 |
| BIOL 224 | Human Anatomy | 4 |
| BIOL 240 | Human Physiology | 4 |
| EXMB 200 | Empirical Techniques in ExSci | 2 |

Take 3 of the following:

| | | |
|--------------|--|---|
| EXIP 345 | Biomechanics | 4 |
| EXIP 365 | Perceptual Motor Learning .. | 3 |
| EXIP 385 | Physiology of Exercise | 4 |
| EXIP 281/381 | Nutrition / Principles of Nutrition | 3 |

COACHING MINOR (17 CREDITS)

| | | |
|----------|---|---|
| EXMB 105 | First Aid | 1 |
| EXMB 205 | Care & Prevention of Athletic Injuries | 2 |
| EXIP 365 | Perceptual Motor Learning .. | 3 |
| EXMB 336 | Sport in Society | 3 |
| EXMB 333 | Sport Psychology | 3 |
| EXMB 312 | Coaching Principles | 3 |
| EXMB 311 | Coaching Methods | 2 |

COURSE DESCRIPTIONS

All prerequisite courses must be completed with a grade of 'C-' or better.

EXIP 281 Nutrition

In-depth study of the relationship between nutrition and total individual health across the life-span. Emphasis will be placed on the essential nutrient chemical conversions during digestion, absorption and metabolism and their contribution to optimal health. Individual nutritional analysis and a personalized diet plan will be required. 3 hours.

EXIP 345 Biomechanics & Lab

Study of the structure and functioning of the human body via the methods of classical mechanics. Prerequisite: BIOL 224 & MATH 125 & EXMB 200 (or concurrent), each with a minimum grade of C-. 4 hours.

EXIP 365 Perceptual Motor Learning

Study of issues related to the understanding, teaching, and learning of motor skills. Examination of factors (individual, task, environment) and interactions that influence skill acquisition and performance in daily, recreational, clinical and scientific contexts. Prerequisite: EXMB 200 (or concurrent) or (MATH 207 or PSY 350 or SOC 301), each with a minimum grade of C-. 3 hours.

EXIP 381 Principles of Nutrition

Advanced study of nutrition including physiological function and metabolic fate of carbohydrates, lipids, proteins, vitamins, minerals and water. Individual nutritional analysis and a personalized diet plan will be required. Prerequisite (or concurrent): BIOL 240 or Organic Chemistry, each with a minimum grade of C-. 3 hours.

EXIP 382 Applied Physiology of Exercise & Lab

The study and application of principles to the development of efficient human movement as it applies to human performance and educational settings. Prerequisite: BIOL 202 & 240 & EXMB 200 (or concurrent), each with a minimum grade of C-. 4 hours.

EXIP 385 Physiology of Exercise & Lab

The branch of physiology that deals with the function of the body during exercise and the adaptations that occur in response. Knowledge and application of scientific principles are necessary to develop peak performance in athletes and maintain health and fitness in the general population – quantitatively and qualitatively improving life. Prerequisite: BIOL 204 & 240 & EXMB 200 (or concurrent), each with a minimum grade of C-. 4 hours.

EXIP 440 Advanced Human Anatomy & Lab

Advanced study of gross and histological structure of the human body. Introduction into musculoskeletal, nervous and cardiovascular systems. Prerequisite: BIOL 224, with a minimum grade of C-. 4 hours.

EXIP 445 Advanced Biomechanics & Lab

Advanced study and application of biomechanics principles and techniques in a research context. Students will engage in activities to enhance their skills and knowledge in the conceptual development and planning; data collection, management and analysis; and dissemination of research in biomechanics. Prerequisite: EXIP 345 & (PHY 202 or 232) & (MATH 207 or PSY 350 or SOC 301), each with a minimum grade of C-. 4 hours.

EXIP 465 Advanced Perceptual Motor Learning & Lab

Advanced study and application of principles and techniques governing the acquisition and performance of motor skills. Emphasis is on current research, instrument design and application, as well as research methodologies in motor acquisition. Students will engage in activities to enhance their skills and knowledge in the conceptual development and planning; data collection, management and analysis; and dissemination of research in motor learning. Prerequisite: EXIP 365 & (MATH 207 or PSY 350 or SOC 301), each with a minimum grade of C-. 4 hours.

EXIP 485 Advanced Physiology of Exercise and Lab

Advanced study and application of principles of exercise physiology. Emphasis is on exercise testing and prescription, current topics in exercise science and research projects. Students develop original research questions and methods, collect data, engage in discovery and participate in peer teaching. Prerequisite: EXIP 385 & (MATH 207 or PSY 350 or SOC 301), each with a minimum grade of C-.

EXIP 495 Exercise Science Research

Faculty supervised, student-conducted research activities. May be repeated for new/continuing projects. Prerequisite: Instructor consent. 1-3 hours.

EXMB 100 Exercise and Health Science Passport

An introductory course for students interested in an Exercise Science major or minor as well as those considering careers in biomedical/health professions. Activities and guest speakers will introduce students to the broad array of pursuits and careers in these areas. 1 hour.

EXMB 105 First Aid

Basic anatomy and physiology of body systems as related to the care and prevention of injury and safety. More advanced than standard American Red Cross 1st aid / CPR class. 1 hour.

EXMB 123 Personal Health

Study of physical, mental, intellectual and social well-being for effective functioning, both within the individual and for the individual within the environment. 3 hours

EXMB 200 Empirical Techniques in Exercise Science

Doing "science" requires logic, clarity and precision, but also original and creative thinking. This course presents fundamental verbal and technical skills common to all sciences and facilitates blending these diverse qualities coherently. Prerequisite: MATH 125 (minimum grade of C-) and Sophomore standing. 2 hours.

EXMB 205 Care & Prevention of Athletic Injuries

Students will learn to prevent, evaluate, and care for injuries and other health concerns common to athletic participation. The basics of emergency care and preventive taping will also be addressed. 2 hours. Prerequisite: EXMB 105. Lab fee: \$5.

EXMB 214 Outdoor Leadership

This course is designed to offer students an outdoor context for their leadership development. Applied decision making skills, group dynamics, trip planning, first aid and navigation will be addressed in three activity areas; winter camping with snow shoes, sea kayaking, and backpacking. Prerequisite: HPER 150 Outdoor Recreation or instructor consent. 2 hours.

EXMB 311 Coaching Methods

Series of individual courses designed to give students insight and direction in leading or assisting in the coaching of athletics. Sports represented include: baseball, softball, basketball, soccer, volleyball, and wrestling. May be repeated for different sports. Prerequisite: EXMB 105, with a minimum grade of C-. 2 hours.

EXMB 312 Coaching Principles

General principles applicable to the coaching of sports including strategy and tactics, motivation, ethics, liability, budgeting, and development of organizational, interpersonal, and communication skills. Prerequisites: EXMB 105 & EXMB 311, each with a minimum grade of C-. 3 hours.

EXMB 315 Adapted PE

Introduction to adapted, corrective and developmental physical education. Emphasis is placed on instruction of physical activities for the exceptional child. 3 hours.

EXMB 318 Teaching Physical Activity I

Content will focus on generally applicable instructional and class management strategies for physical activity settings such as; design of instructional materials, techniques and planning for implementation; evaluation; approaches for working with a variety of learners. Prerequisite: EXIP 365, with a minimum grade of C-. 3 hours.

EXMB 319 Teaching Physical Activity II

On site lab/application opportunity for students to design and deliver physical education instruction to elementary school children. Prerequisite: EXMB 318, with a minimum grade of C-. 2 hours.

EXMB 325 Medical Kinesiology I

Study of the behavioral aspects of injury care and rehabilitation. Topics will include the influence of personality, likelihood of emotional responses, motivation and psychological interventions. Prerequisite: Junior standing. 3 hours. Taught Winter III.

EXMB 326 Medical Kinesiology II

Focus on multidisciplinary issues merging human movement science and health / biomedical sciences such as: drugs in sport, the female athlete, communicable diseases and chronic illness. Prerequisite: Instructor consent. 3 hours.

EXMB 333 Sport Psychology

Course examines the psychological dimensions of athletic performance and participation. Topics will include research and application in the areas of motivation, confidence, psychological skills training, stress management, communication, burnout, youth sport and exercise adherence. Prerequisite: Junior standing. 3 hours.

EXMB 336 Sport and Society

Investigation of sport as a social phenomenon in small groups, organizations, sub-culture, and institutions. Emphasis is on interscholastic and intercollegiate sport programs. Prerequisite: Junior standing. 3 hours.

EXMB 366 Human Motor Development

This course is designed to use a lecture/discussion/activity structure to study issues related to the development of human motor behavior over the lifespan. Current theory and research will be discussed related to motor and behavioral changes that are commonly experienced in humans from early childhood to late adulthood. Prerequisites: Completion of 6 credits in Exercise Science (EXIP or EXMB), each with a minimum grade of C-, and Junior standing. 3 hours.

EXMB 475 Internship

Internship is an off-campus educational field experience, tailored to academic/career goals, where students carefully and thoughtfully apply content from coursework to the situation in which they are engaged. All arrangements must be completed by the student 2 weeks prior to the term in which Internship work will occur. Prerequisites: 12 credits of Exercise Science coursework (EXIP & EXMB), each with a minimum grade of C-, & instructor consent. 1-14 hours.

FEMINIST STUDIES

Director

Darlene Pagán, *Humanities Division*

Associated Faculty

Vernon Bates, *Sociology*

Jeffrey Barlow, *History*

Pauline Beard, *English*

Alyson Burns-Glover, *Psychology*

Patricia Cheyne, *Art*

David DeMoss, *Philosophy*

Lorely French, *German*

Johanna Hibbard, *Media Arts*

Lawrence Lipin, *History*

Cheleen Mahar, *Anthropology*

Marc Marengo, *Philosophy*

Darlene Pagán, *English*

Kathleen Postma, *English*

Sarah Phillips, *Sociology*

Martha Rampton, *History*

Jeff Seward, *Political Science*

Feminist Studies is an interdisciplinary minor that investigates the significance of sex and gender in all areas of human life. Feminist analysis is based on the assumption that sex and gender are crucial factors in the organization of our personal and public lives and our social institutions. The Feminist Studies minor includes courses that use feminist perspectives to expand and reevaluate the assumptions at work in traditional disciplines in the study of individuals, cultures, social institutions, social policy and other areas of scholarly inquiry. The minor also encompasses courses that examine the roles of women and men in the community, the nature of work and the family, and the importance of race, ethnicity, class and culture to the study of sex and gender.

The Feminist Studies minor has as its basis the theoretical framework of the introductory course and two advanced 400 level courses, which emphasize the diversity of feminist literature and research. The introductory course lays the groundwork for the minor by introducing basic theory and exposure to field research. The advanced courses provide space for collaboration with beginning students, the practical application of theories and completion of the senior capstone project. Elective courses concentrate on substantive issues in the areas of feminist, women's and gender studies and offer a multidisciplinary approach to the program. Such courses address topics that relate directly to feminist theory or have become salient to the minor because of feminist theory.

Students who wish to declare the Feminist Studies Minor must consult with a Director of Feminist Studies or an FS core faculty member prior to submitting a declaration form. At that time, in consultation with the Director or core faculty member, the student will choose a Feminist Studies Minor advisor. Students should plan to take the first FS core course, Introduction to Feminist Studies 201, in the spring semester of either their freshman or sophomore year. Students should plan to take FS 450 in the fall of either their junior or senior year, and FS 451 in the spring of either their junior or senior year. FS 201 and FS 451 will be taught only in the spring, and FS 450 will be taught only in the fall. In addition to the core courses, students must take 3-4 elective courses (12 semester hours). No more than one elective course taken prior to FS 201 may be applied to the minor.

MINOR IN FEMINIST STUDIES

| | | |
|-------------------------------|---|----|
| FS 201 | Introduction to Feminist Studies | 4 |
| | (includes one credit for field work)* Counts toward Humanities core requirement | |
| FS 450 | Feminist Studies Capstone .. | 2 |
| FS 451 | Feminist Studies Mentoring .. | 2 |
| Three or four electives | | 12 |
| | | — |
| | | 20 |

At least one course must be from Social Sciences and at least one must be from either the Arts or Humanities.

Courses Approved for FS Elective Credit:

All the 300 and 400 level courses listed below when taken for Feminist Studies credit have a prerequisite of FS 201.

| | |
|----------|---|
| Anth 330 | Gender in Cross-Cultural Perspective |
| Art 280 | Women in Art |
| Engl 220 | Literature and Human Concerns: Special Topics |
| Engl 430 | Major Writers: Special Topics |
| Fren 401 | Gender, Culture & Society: Women's Writing |
| FS 300 | Special Topics in Feminist Studies |
| Hist 346 | Gender and Sexuality in Victorian America |
| Hist 400 | Medieval Women |
| FS 301 | Gender and Film |
| MedA 401 | Women Directors and Feminist Strategies |
| Phil 329 | Feminism and Philosophy |
| PolS 224 | Women in Politics |
| Psy 260 | Psychology of Women |

| | |
|----------|--------------------------------|
| Soc 209 | Sociology of the Family |
| Soc 217 | Gender and Sexuality |
| Span 485 | Women Writers in Latin America |
| HPER 150 | Women's Self Defense |

Check individual departments for course descriptions and course schedules for semesters offered. Additional courses are approved annually and may be applied to the minor.

COURSE DESCRIPTIONS**FS 201 Introduction to Feminist Studies**

This introductory level course explores the various foundations of feminist theory, including perspectives from across the disciplines. Students review and critique readings from early feminist writers, second generation feminist writers and contemporary feminist and deconstructionist theorists. The course consists of two components: a classroom experience with an emphasis on the breadth of feminist literature and field work in the community. Spring only. 4 hours.

FS 210 Action Projects in Feminist Studies

This course is designed to promote student individual and collaborative work related to issues in feminism and gender studies. Students may participate in a one-time action project centered around an event, a service learning placement, or a collaborative project that promotes the goals of the minor. Projects may include, but are not limited to, serving at sites approved by the FS faculty, working on events connected to Women's History Month, carrying out their FS 201 action projects, and projects designed to promote education in our community. Graded P/NP. Prerequisite: FS 201.

FS 300 Special Topics in Feminist Studies

This is a special topics course focusing on the specific interests of the faculty and students in the Feminist Studies Minor program. Topics addressed in the course will be derived from a variety of disciplinary standpoints, and may involve interdisciplinary collaboration. Some examples of topics that may be offered through this course are: "The Development of Gender," "Women and Film," and "Feminist Epistemology" to name a few. Offered for 3-4 hours. Prerequisites: FS 201 (or permission of the instructor).

FS 450 Feminist Studies Capstone

Feminist Studies 450 is designed to allow students an opportunity to complete the capstone project required for the minor. The project will be developed in consultation with one of the FS faculty members. Prerequisite: FS 201, two FS electives, Junior or Senior standing. Fall only. 2 hours.

FS 451 Feminist Studies Mentoring

In this seminar course, students read and analyze advanced works in Feminist Studies and review the material they have encountered in their electives and FS 201 in light of advanced theory. It also gives the students the opportunity to fulfill the mentoring requirement of the Feminist Studies minor. FS 451 students will meet with FS 201 students from time to time. During this semester the students present the findings of the project they completed in FS 450 to the Pacific Community in a public forum during Women's History Month. Prerequisites: FS 201 and 450, two FS electives, Junior or Senior standing. Spring only. 2 hours.

HISTORY

Lawrence M. Lipin, *Chair, Professor*

Jeffrey G. Barlow, *Professor*

Richard I. Jobs, *Assistant Professor*

Martha Rampton, *Professor*

The discipline of history is central to the liberal arts; it draws on and contributes to neighboring fields, such as political science, literature, philosophy and the arts, to name but a few. History is essential to an understanding of the evolutionary nature of the institutions and values that have not only shaped the past but inform the present. The study of history prepares students for a wide range of professions, including law, government, archival and museum work, professions in travel and teaching.

Goals

The major in History is designed to provide the student with a broad range of offerings in various fields of history. Through these studies, the department seeks to teach its majors to conduct creative and comprehensive research projects, to read historical materials with understanding, to engage in critical analysis from an historian's perspective and to write polished communicative prose.

The curriculum established by the History major leads the student from broad-based survey classes that cover the U.S., Europe, Mexico, South America, Islamic Middle East and Asia to more narrowly defined upper-division classes in the specialty of the student's choice. Students encounter the scholarly methodology employed by historians that contributes to the development of verbal, analytical and reading skills. More specifically, throughout the curriculum, history courses require students to produce written work that emphasizes focused analysis supported by historical evidence. In addition, at the

lower-division level, students become familiar with basic historical narratives. At the upper-division level, students use primary sources in pursuit of questions of an increasingly thematic nature. Their research capitalizes on the electronic resources currently available. As seniors, History majors participate in a seminar emphasizing historical perspectives, methodological techniques, and a variety of interpretive historical models. History majors complete a thesis in the last semester of their senior year that demonstrates competence with historical theory and methods.

The department also hosts the Journal of the Association of History and Computing, <http://mcel.pacificu.edu/JAHC/> and upper-division students have an opportunity to work as assistant editors in producing it.

MAJOR IN HISTORY

Requirements

At least three courses must be from the following: 9

| | | |
|--------------|-----------------------------|--|
| Hist 101-102 | Western Civilization I & II | |
| Hist 111 112 | East Asia | |
| Hist 141-142 | American History I & II | |

At least six additional courses. If as one of these courses you count a 100-level class, then you may count no more than one 200-level class. If none of these six courses is a 100-level course, you may count two 200-level classes. Of the six additional classes, at least one must be a 400-level seminar-style class or an approved internship 18-24

27-33

| | | |
|----------|-------------------------|---|
| Hist 490 | Senior Research Seminar | 3 |
| Hist 495 | Senior Thesis | 3 |

33-39

Plus the following breadth requirements:

| | |
|--|-----|
| 2 courses at the 300 level or above in English literature, 300 level or above in world languages and literature, or the 200 level or above in philosophy | 6-8 |
| 2 courses in political science or anthropology | 6-8 |
| 1 300-level course in sociology or any course in economics | 3-4 |

48-59

MINOR IN HISTORY

Requirements

For a minor in History, a student must complete seven courses in the History Department, at least three of which must be at the 300 level or above 21-28

Any student interested in a History minor should consult with a faculty member in the History Department.

For additional information as to staff, program, and student work, see the department's web site at: <http://mcel.pacificu.edu/history/index.html>.

COURSE DESCRIPTIONS

History (Hist)

Hist 101 Western Civilization I

This course covers the development of western culture and institutions from the ancient world to the high Middle Ages. 3 hours.

Hist 102 Western Civilization II

This course covers the development of western culture and institutions from the Renaissance to the modern age. 3 hours.

Hist 111 Foundations of East Asia
This course deals with the intellectual, social, political, and religious foundations of three East Asian Societies: China, Japan, and Vietnam. The focus of the class is upon classical Asian notions of proper values and institutions, with a concentration on intellectual (both philosophical and religious) foundations considered in a historical perspective. The course also considers issues relative to modern Asia, and to Asian-American family life and culture. The approach will be primarily through original Asian texts in translation. Although it is not required, concurrent registration in History 214, History in an Electronic Environment (2 hours credit), is recommended. In that lab, students will learn to develop electronic materials for the World Wide Web which will both teach them to create web pages and will illuminate the contents of the course. Meets cross-cultural requirement. 3 hours.

Hist 112 East Asia
This course surveys the modern histories of China, Japan, Tibet, and Vietnam from the 17th century to the recent past. Topics covered include the classical cultures of the countries, economic and political foundations, and the consequences of Western impact and modern nationalism. The cultures, covered as independent entities, are compared both to each other and to European or Western patterns of development. There will be an opportunity in this course for students to learn how to prepare "pages" for the World Wide Web. Those who are interested should also enroll for one hour of credit in one of the two sections of History 214, History in an Electronic Environment. Although concurrent enrollment in 214 is voluntary, all students are strongly urged to enroll as the lab will not only teach web page production, but will also enhance student understanding of materials covered in the class itself. Meets cross-cultural requirement. 3 hours.

Hist 141-142 American History I-II
This is a two-part survey of American history from European settlement to the Civil War, and from Reconstruction to the present. The parts may be taken separately. 3 hours per semester.

Hist 200 The Islamic Middle East: 570-1300
This is a survey of the history of the Middle East from the birth of Muhammed in 570 to the rise of the Ottoman Turks in 1300. The course concentrates on political developments and institutions as well as the growth and evolution of Islam and Islamic cultures. Meets cross-cultural requirement. 3 hours.

Hist 206 France from Caesar to Napoleon
This course covers the history and culture of France from the Roman period until the end of the Napoleonic Wars in 1815. Equal attention is given to political and social/cultural aspects of French history. Through reading of primary sources, discussions, and lecture, the course deals with the distinctiveness of France as well as placing the nation within a broad European historical context. 3 hours.

Hist 207 Spain from Rome to Revolution
This course covers the history and culture of Spain from the Roman era through the Moorish period and touches lightly on the dissolution of the Spanish Empire beginning in the seventeenth century. Equal attention is given to political and social/cultural aspects of Spanish history. Through reading of primary sources, discussions and lecture, the course deals with the distinctiveness of Spain, as well as placing the nation within a broad European historical context. 3 hours.

Hist 208 England from Rome to Revolution
This course covers the history and culture of England from the Roman period through the Glorious Revolution of 1688. Equal attention is given to political and social/cultural aspects of English history. Through reading of primary sources, discussions and lecture, the course deals with the distinctiveness of England, as well as placing the nation within a broad European historical context. 3 hours.

Hist 210 Ancient Kingdoms of Indochina: Vietnam, Cambodia, and Laos

This course covers the pre-modern kingdoms of Vietnam, Cambodia, and Laos, with some reference to contiguous areas of Southeast Asia. These kingdoms, such as those of the Vietnamese, the Cham, the Lao, and the Khmer, will be considered within a historical perspective with regard to such topics as political, social, religious, and economic institutions. The Vietnamese will be used as the unifying element around which to understand the other peoples and their kingdoms. Although it is not required concurrent registration in History 214, History in an Electronic Environment (2 hours credit), is recommended. In that lab, students will learn to develop electronic materials for the World Wide Web which will both teach them to create web pages and will illuminate the contents of the course. Meets cross-cultural requirements. 3 hours.

Hist 211 Japan Past & Present with Film

This class surveys Japanese history and culture using classical Japanese films as a primary text, supplemented with assigned readings. The goals of the class are to acquaint students with an overview of Japanese history and culture, and to learn to read films, particularly Japanese classical films, as text. There will be an opportunity in this course for students to learn how to prepare "pages" for the World Wide Web. Those who are interested should also enroll for two hours of credit in a section of History 214, History in an Electronic Environment. Although concurrent enrollment in 214 is voluntary, all students are strongly urged to enroll as the lab will not only teach web page production, but will also enhance student understanding of the materials covered in the class itself. Meets cross-cultural requirement. 3 hours.

Hist 212 China Past & Present with Film

This course provides a survey of the basic institutions and values of China, considered both within the past, or classical, and the present, or modern, forms. It will cover such topics as political systems and values (Confucianism and Communism), family and gender, poetry and literature, arts, war and diplomacy, economic values and institutions, rebellion and protest, reform movements, etc. Chinese film will be heavily used as a text to illustrate modern Chinese values and Chinese interpretations of traditional values and institutions. There will be an opportunity in this course for students to learn how to prepare "pages" for the World Wide Web. Those who are interested should also enroll for two hours of credit in a section of History 214, History in an Electronic Environment. Although concurrent enrollment in 214 is voluntary, all students are strongly urged to enroll as the lab will not only teach web page production, but will also enhance student understanding of the materials covered in the class itself. Meets cross-cultural requirement. 3 hours.

Hist 213 Vietnam & the U.S.

This is a survey of the origins, development and results of the American war with Vietnam. This course, however, will be taught more within the context of Vietnamese history and culture than within that of American history and culture. Consequently, more emphasis will be given to the roots of the war in Vietnam than to its origins in U.S. foreign policy. There will be an opportunity in this course for students to learn how to prepare "pages" for the World Wide Web. Those who are interested should also enroll for two hours of credit in a section of History 214, History in an Electronic Environment. Although concurrent enrollment in 214 is voluntary, all students are strongly urged to enroll as the lab will not only teach web page production, but will also enhance student understanding of the materials covered in the class itself. Meets cross-cultural requirement. 3 hours.

Hist 214 History in an Electronic Environment

This course offers, in both lecture and discussion, introductions to the problems of researching, writing and citing historical materials in electronic environments, and in addition will give hands-on introductions to the analysis, criticism and creation of these materials as well as more advanced multi-media materials such as web pages. 2 hours.

Hist 232 The Holocaust

This is a team-taught interdisciplinary course on the Nazi persecution and ultimate extermination of the Jews of Europe, Gypsies, political enemies of the National Socialist Dictatorship, and those considered undesirable by the NS State. It is cross-listed with Engl. 220, Literature and Human Concerns: The Holocaust. 3 hours.

Hist 235 Europe Since World War II

This course examines the history of Europe and its relation to the world at large from the close of World War II to the current examining questions of the continent's future in the global community. Since 1945, Europe has struggled to redefine itself in the context of the war's problematic legacy, the cold war's competing ideologies, nationalist struggles of independence, discrepancies of affluence and poverty, and the difficulties of global market competition. It is a process that continues today as the continent moves slowly toward economic and political integration. 3 hours.

Hist 237 European Socialism Through Film

This course is designed as an introduction to the history of European Socialism in the nineteenth and twentieth centuries from the onset of industrialization to the collapse of the Soviet system in 1991. It focuses on the origins of socialism, its development and appeal as an ideology, its revolutionary variant of communism and its implementation as a state system. This course makes extensive use of film, both documentary and feature, to humanize these abstract conceptualizations. 3 hours. Cross listed with Pols 221

Hist 239 The Conquest of the Americas

This is a survey of Latin American history from 200 C.E. to 1650 C.E. with a focus on the pre-Columbian Mayan, Aztec, and Inca civilizations; the conquest and settlement of Mexico, Central America, and South America by the Spanish and Portuguese; and the establishment of early colonial institutions in Spanish America and Brazil. Special emphasis will be given to the clash of indigenous and European religious/spiritual outlooks, political economy, and the interaction of issues of race, class, and gender in the emergence of syncretic New World societies. 3 hours. Crosslisted with Pols 239

Hist 240 Colonial and Neocolonial Latin America

This course is a survey of Latin American history from 1650 to 1914 with a focus on the mature period of Spanish and Portuguese colonialism in Latin America, the independence struggles of the early nineteenth century, and the first century of independence for Latin America. Special emphasis will be given to the evolution of indigenous/European and African/European relations and the tension between formal political independence and continuing cultural and economic dependence on European societies even after independence. 3 hours. Crosslisted with Pols 240

Hist 243 American West: History, Memory and Film

This course is an historical investigation into the reality and remembered realities that go into the historical reconstruction of the past, using primary documents, motion pictures, and recent historical scholarship as they pertain to the development of the American west, with an emphasis on Native Americans, the westward movement of Americans (both black and white), the eastward movement of immigrants from Asia, and early efforts to conquer and preserve nature. 3 hours.

Hist 245 Race and Culture in American History

This course examines the historical roots and development of race as a category in American political and social thought, and the historical experience and cultural adaptations of specific minority groups (those originally from Africa, Mexico or the American southwest, Asia, and Eastern and Southern Europe) in the United States. 3 hours. Meets cross-cultural core requirement.

Hist 300 The Ancient World to AD 400

This class treats the ancient world from the first civilizations in the fertile Crescent through ancient Egypt, to the early fifth century AD. The course stresses both broad political, and social/cultural issues. The class is largely run as a seminar with some lecture. Class discussions are based on reading of primary texts. Prerequisite: Junior standing or consent of instructor. 4 hours.

Hist 301 The Medieval World: 400-1500

This class treats the medieval world from the development of medieval institutions in the first century AD through the mid-fifteenth century. The class stresses social/cultural issues, but also provides an understanding of political and constitutional developments of the period. The class is run as a seminar with some lecture. Class discussions are based on reading of primary texts. Prerequisite: Junior standing or consent of the instructor. 4 hours.

Hist 302 Renaissance, Reformation, Revolt: 1500-1800

This is a history of early modern Europe from the Reformation to the French Revolution. The course treats the spiritual, intellectual, social, political and economic foundations of modern Europe. Prerequisite: Junior standing or consent of the instructor. 4 hours.

Hist 305 The History of Magic and Witchcraft

This course deals with medieval and early European conceptions of and reactions to magic, sorcery, and witchcraft from pre-Christian Late Antiquity through the early modern period. The major themes of the course are (1) the development of ecclesiastical/intellectual notions of magic and heresy, (2) popular beliefs and practices regarding magic and witchcraft, (3) placing the great witch trials of the late medieval/early modern periods in an historical context of contemporary persecutions of various minorities, (4) explication of the "mature witchcraft theory" and the process of the witch trials. Junior standing or consent of instructor. 4 hours.

Hist 315 Modern Japan

This course covers Japanese history from the Meiji Restoration to the present, with an emphasis upon the 20th century. The primary focus of the course is upon the internal

dynamics of Japanese culture. Topics will include political and economic modernization, relations with East Asia and the United States, changes in family and gender roles, the development of fine arts, poetry and literature, the development of Japanese expansionism and the Pacific War, the Japanese Economic Miracle and the place of Japan in the contemporary world. There will be an opportunity in this course for students to learn how to prepare "pages" for the World Wide Web. Those who are interested should also enroll for two hours of credit in a section of History 214, History in an Electronic Environment. Although concurrent enrollment in 214 is voluntary, all students are strongly urged to enroll as the lab will not only teach web page production, but will also enhance student understanding of the materials covered in the class itself. Prerequisite: Hist 112 or 211 or consent of instructor. Meets cross-cultural requirement. 3 hours.

Hist 316 China from Mao to Tiananmen

This course surveys Chinese history and culture in the period from 1949 to the present, with an emphasis on the mass campaigns, from the Great Leap Forward of 1957-58 through the Great Proletarian Culture Revolution, 1965-69. Topics will also include the Reform Movement of Deng Xiaoping and the student protests culminating in the Tiananmen Incident of 1989. An unusual feature of this course is weekly role-playing in which students will be asked to assume Chinese role-types such as peasant, soldier, female cadre, etc., and to play out actual political problems drawn from the mass political campaigns. There will be an opportunity in this course for students to learn how to prepare "pages" for the World Wide Web. Those who are interested should also enroll for two hours of credit in a section of History 214, History in an Electronic Environment. Although concurrent enrollment in 214 is voluntary, all students are urged to enroll as the lab will not only teach web page production, but will also enhance student understanding of the materials covered in class itself. Prerequisite: Hist 112 or 212, or consent of instructor. Meets cross-cultural requirements. 3 hours.

**Hist 333 History of the
 British Empire**

This course examines the history of the modern British Empire from the nineteenth century race for empire to the post-colonial world. Using the lens of the British Empire, the largest of all European empires, the course examines the political and economic impulses for imperialism, the nature of various imperial systems, the impact of imperialism on both the colonizer and the colonized, the turmoil of national independence and decolonization, and the lasting legacies of imperialism in the post-colonial world. Prerequisite: Junior standing or consent of instructor. 4 hour.

Hist 334 Twentieth Century Russia

This course treats Russia's development in late Tsarist times, the Bolshevik revolution; Soviet communism under Lenin, Stalin, Khrushchev, and Brezhnev; nationalism and the non-Russian republics; the Gorbachev reforms and the collapse of the USSR; the current situation. 3 hours.

**Hist 335 The Era of the First
 World War**

This course explores the historical period of the First World War in Europe. It focuses on the causes, course and effects of the war within a European perspective in terms of the political, social, cultural and intellectual contexts. It is designed to consider the impact of WWI on European society as the formative event of the 20th century. Prerequisite: Junior standing or consent of instructor. 4 hours.

**Hist 338 The Era of the
 French Revolution**

This course explores the historical period of the French Revolution from the Enlightenment through the defeat of Napoleon. It focuses on the causes, course and effects of the Revolution in terms of the political, social, cultural and intellectual contexts. It is designed to consider the impact of the French Revolution as the defining event of the modern period. Prerequisite: Junior standing or consent of instructor. 4 hours.

Hist 339 History of Science

This is a study of the development of science as doctrine, process and social institution from early Greek science to the present. Emphasis is on western science, including Arab and Islamic contributions. It examines the impact of culture on science and science on culture. Prerequisite: Sophomore standing. 4 hours.

**Hist 341 American Revolution
 & Constitution**

This course covers the ideological, social, economic, and political causes of the American break with the British Empire, the democratizing influence of the revolution on the new state government, and the relationship between this tendency and the construction of the Constitution. The course incorporates research regarding women, African-Americans, and common people into the broader movement. Prerequisite: History 141 or Junior standing. 4 hours.

Hist 342 Civil War & Reconstruction

This course treats the Civil War and its aftermath in context of a broader Western move away from bonded servitude and restrictions on human liberty toward free labor and democracy and will measure successes and failures, particularly with regard to the legacy of racial division that the war was unable to eradicate. The course will cover the causes of sectional conflict, the military problems of the war, the political, social, and economic conditions within both North and South, and the cultural and political sources of support and opposition to Reconstruction. Prerequisite: History 141 or 142, or Junior standing. 4 hours.

**Hist 343 Industrialization, Labor
 and the State in America:
 1877-1939**

This course covers the rise of modern industry in the United States, the problem of labor conflict associated with it, and the steps taken by government, both at the state and the federal level, to regulate the new economy, beginning with laissez-faire governance of the late nineteenth century and concluding with the full elaboration of FDR's New Deal. The course focuses on social, economic and political forces. Prerequisite: History 142 or Junior Standing. 4 hours.

Hist 345 Gender and Sexuality in Victorian America

This course treats the development and spread of Victorian culture in the United States during the nineteenth century, particularly as it defined ideas about gender and sexuality. Focus is on the creation of “women’s sphere” and ways in which women accommodated themselves to domesticity, rebelled against it, or used it themselves to discipline their husbands and sons. Pre-requisite: History 141 or 142, or Junior Standing. 4 hours. Crosslisted with FS 345.

Hist 400 Medieval Women

This course is a seminar on the attitudes towards, roles, work, and responsibilities of women in the period from the first century to the fifteenth century. Women in their roles as nuns, witches, prostitutes, brewers, mothers, queens, and consorts are discussed. The course is thematic as well as chronological, and investigates anthropological, feminist, and political theories and paradigms associated with the study of women generally. Assigned reading consists of primary sources, secondary monographs, and journals. Prerequisite: Junior standing or consent of instructor. 4 hours. Crosslisted with FS 400.

Hist 401 The World of Charlemagne

This course is a seminar on the age of Charlemagne and the European empire he forged in the early Middle Ages. The course material starts in the early sixth century as the Roman West was mutating, and ends with the fragmentation of the Carolingian Empire in the face of Viking attacks and fratricidal warfare. The class concentrates on political and social/cultural developments in this very important period which formed a bridge from the Classical world to the beginnings of the modern age. The class uses anthropological paradigms as one type of historical methodology. Assigned reading consists of primary sources, secondary monographs and journal articles. Prerequisite: Junior standing or consent of instructor. 4 hours.

Hist 435 1968: Youth and Social Change in the World

This colloquium explores the historical scholarship surrounding the tumultuous events of 1968 in global perspective. It explores the events of 1968 as transnational phenomena with a particular emphasis placed upon the significant role played by youth in the various movements and uprisings worldwide. It will consider the emergence of youth as a social, political, and cultural force within the larger ferment of the late-sixties and early-seventies. Importantly, this is a rigorous readings course akin to a graduate colloquium. Prerequisite: Junior standing or consent of instructor. 3 hours.

Hist 441 Environmental History

This course focuses on historical scholarship that has addressed the changing relationship between human societies and “nature.” The course explores the development of ecological science and environmental politics; it also explores the ways in which Americans of European and indigenous background imposed their understandings on the landscape, and the consequences of these impositions. Other subjects include National Park Service policy, game conservation and class conflict, and the development of governmental agencies dedicated to protecting or controlling the environment. Prerequisite: Junior or senior standing or consent of instructor. 3 hours.

Hist 450 Special Topics in History

This is a seminar or tutorial course focusing on topics of special interest to students and faculty. Prerequisite: Junior standing. Specific courses taught in this series will be noted in more detail in annual course schedule. Prerequisite: Junior standing. 3 hours.

Hist 490 Senior Research Seminar

This course combines a variety of historical methods with major historical themes and controversies. It is required of all senior History majors prior to embarking on the thesis. Prerequisite: Senior standing in History. Annually in the fall. 3 hours.

Hist 491 Independent Research

This is student-conducted individual research leading to a senior thesis. It is required of all History majors. Prerequisite: Senior standing in History and Hist 490. Annually in the spring. 3 hours.

HUMANITIES

David DeMoss, *Division Chair, Professor of Philosophy*

The Humanities are composed of the courses in English, History, Media Arts and Communication, Philosophy, and World Languages and Literatures. While these departments have their own goals and specialized programs, they are united in a common endeavor to discover and make relevant the historical direction and essence of humans' cultural endeavors and to help students prepare for a life of quality and meaning. In this sense, the Humanities are at the heart of liberal arts education.

COORDINATED STUDIES IN HUMANITIES MAJOR

By special arrangement, students may pursue a self-designed course of study in the Humanities. Interested students should submit, no later than the beginning of their junior year, a written proposal with an identifiable academic focus to the Humanities Division Chair. Admission is selective and requires a 3.0 GPA. Coordinated Studies in Humanities (CSH) majors must maintain a GPA of at least 3.0 each semester to remain in the program.

Prior to submitting a written proposal, a prospective CSH major must consult with a professor in the Humanities Division to discuss his or her academic plan and prepare the proposal with the professor's guidance. This professor should become the student's advisor of record. The proposal should (i) articulate a vision of the student's own education, (ii) explain how the elements of the proposal work together to realize that vision, and (iii) prepare a complete plan of courses that s/he intends to take to fulfill the requirements of the major.

A list of proposed courses must comply with the following guidelines. A concise justification statement should be provided for each course or sequence of courses proposed.

1. 18 hours in one department in the division (English, Media Arts and Communication, Philosophy, or World Languages and Literatures) 18
2. 24 hours of coordinated courses from three of the following departments at Pacific (English, Media Arts, Philosophy, World Languages and Literatures, History, Art, Music, Theatre, and selected Peace and Conflict Studies and Feminist Studies courses) 24
3. Senior Thesis in the Humanities (two hours per semester of Hum 494) 4

Minimum Total Hours 46

Interested students should consult with Professor David DeMoss, Humanities Division Chair.

COURSE DESCRIPTIONS

Humanities (Hum)

Hum 100 Origins, Identity, and Meaning

A required seminar for first-semester first-year students that introduces students to college academic life and the skills needed for success in that life. It is a humanities-based course in its content, intended to engage students in the task of personal and cultural critique, and designed to provide a common learning experience for the entire first-year class. Students will also experience the educational advantages of having a diversity of teaching methods and approaches both within and among the various sections of the seminar; although cross-sectional themes, texts, and events may be adopted by current Hum 100 faculty, the course will be designed and taught in a manner thought most appropriate by the individual instructor. 4 hours. Fall semester.

Hum 205 Japanese Culture

This course is a general introduction to Japanese people, society, and culture. Its major emphasis is on Japanese cultural values, patterns of behaviors, and ways of thinking manifested in their everyday life. Meets cross-cultural core requirement. 3 hours. Offered yearly.

Hum 206 Latin America

A general introduction to the geography, peoples, and cultures of Latin America, and to their major social and political issues. Meets cross-cultural core requirement. 3 hours. Offered intermittently.

Hum 207 German Culture

A general introduction to the literature, film, art and music of people in the German-speaking countries, focusing on the time period from the early 19th century to the present. Special emphasis on the intersection of culture with historical, social, and political events. 3 hours. Offered intermittently.

Hum 208 Francophone Africa and the Caribbean

A general introduction to the literature, culture, peoples, and politics of Francophone Africa and the French-speaking Caribbean, focusing in particular on the 20th century. Special emphasis on the Maghreb, Senegal, and Haiti. Meets cross-cultural requirement. 3 hours. Offered intermittently.

Hum 300 Mentoring in the Humanities

Each student serves as a mentor in one section of Humanities 100, the required First-Year Seminar course. Mentors attend all Hum 100 classes and co-curricular events and complete all of the readings. They do not take exams, write papers, or participate in the evaluation of students in Hum 100. The mentor is to act as a peer in helping first-year students make the transition from high school to college. They hold study sessions and help students with note taking, writing assignments, and the development of proper study skills. They work

closely with faculty in developing the means to good mentoring in their section of Hum 100.

They meet with the First-Year Seminar Coordinator one hour each week to review their work and to discuss pedagogical issues associated with teaching the humanities. Mentors are selected by an application process in the spring. 4 hours. Fall semester. Graded P/N.

Hum 306 Latino Fiction

A study of the fiction of Latino writers representing the diverse Hispanic cultures of the U.S. with emphasis on the themes of immigration, culture adaptation, and the unique characteristics of the author's Hispanic heritage. Meets cross-cultural core requirement. 3 hours. Offered intermittently.

Hum 325 Hispanics in the United States

A study of the history, literature, culture, and demographics of Hispanic groups in the U.S. An interdisciplinary approach will be taken toward placing in perspective the major political, social, and educational issues facing these groups. Students will simultaneously be engaged in a field internship in the Hispanic community. Prerequisite: Spanish 102. Meets cross-cultural requirement. 4 hours.

Hum 494 Senior Thesis in the Humanities

A four-credit capstone project for the CSH major. The Senior Thesis should be approved by the Humanities Division Chair in consultation with the faculty adviser in the student's area of emphasis before the end of the student's junior year. The student must give a formal presentation of her or his thesis (for example, on Senior Presentation Day). The thesis and presentation may in some cases be incorporated with another senior project, with permission of the student's faculty adviser and the Humanities Division chair. Prerequisite: CSH major. 2 hours, repeatable once for credit.

INTERNATIONAL PROGRAMS

Stephen J. Prag, *Director*

The Office of International Programs provides services to international students and scholars and to students participating in study-abroad programs. International Programs provides immigration and cross-cultural services to Pacific University's community of international students, scholars and faculty. International Programs also coordinates and administers semester and year-long study-abroad programs (see Study Abroad section), working with faculty to ensure academic integrity.

International Programs staff are active members of NAISA: Association of International Educators, as well as other international education professional organizations, and represent Pacific University locally, regionally and nationally in professional conferences, workshops, meetings and other symposia.

International Student and Scholar Advising

International Programs staff are knowledgeable in the areas of F & J visa regulations and provide assistance to international students and scholars in complying with the complex and ever-changing immigration regulations. International Programs also provides services designed specifically to assist students with adjusting to the challenges of a new academic and cultural environment. These services include the provision of pre-departure information, airport pick-up, accommodation assistance, an orientation program and social programming.

English Language Institute

Pacific's English Language Institute offers an intensive language study program for foreign students learning English. The ELI has in residence students from Asia, the

Middle East, Europe and Latin America. ELI students live with American roommates in the residence halls or in homestays and may take regular university classes as soon as their English skills allow. The ELI also provides special short-term study programs. The ELI is part of International Programs.

THE ENGLISH LANGUAGE TRANSITION PROGRAM FOR INTERNATIONAL STUDENTS

Scot Dobberfuhl, *ELI Program Coordinator*

Monique Grindell, *ELI Academic Coordinator*

The English Language Transition Program allows international students to earn credits toward graduation from the College of Arts and Sciences once they have achieved a minimum TOEFL equivalent of 475. Transition classes carry Arts and Sciences credit and in some instances may satisfy core requirements. In other instances, they will be considered elective credits.

GOALS

The Transition Program seeks to provide the carefully sequenced entry of international students into the College of Arts and Sciences. It facilitates their becoming regular Arts and Sciences students while they are still refining their skills in the English language. This program accelerates progress toward graduation at the same time that it provides a greater opportunity for international students to receive the full benefit of a liberal arts education at Pacific University.

ADMISSION

- A. Students may enter ELI classes at any time but must have a TOEFL score of 475 PBT/ 153 CBT/ 53 IBT to participate in the Transition Program.
- B. Students admitted to the Transition Program have also been conditionally admitted to the College of Arts and Sciences.

- C. Normally, students should possess the equivalent of a high school diploma with a minimum of a "B" average.
- D. Students will meet all other standards for student visas, including adequate financial support.
- E. Certified alternatives to the TOEFL test, such as the IELTS or ELPT, will be accepted when determining initial language proficiency.
- F. A rolling admissions policy will be followed. Students are welcome to apply for the Transition Program at any time and may begin their ELI classes every eight weeks. However, students may begin credit-bearing transition classes only in August and January.
- G. Students will pay full tuition, room and board, and all other costs, just as do current regularly admitted students in the College of Arts and Sciences, and will have the same privileges and access to University resources.

FEES

English Language Transition classes will reflect the current Arts and Sciences rate for the part-time student.

CURRICULUM

Students who have achieved a minimum TOEFL score of 475 PBT/ 153 CBT/ 53 IBT are eligible to begin taking Transition Program classes. As each student moves at a different pace in the language learning process, the quantity of time enrolled in the ELI Transition Program will vary. Students are normally able to accumulate from 18 – 20 undergraduate credits before entering the undergraduate program full-time:

- 6 ELI Language credits
- 6 ELI Transition credits
- 6-8 A&S Transition Credits

ENGLISH AS A SECOND LANGUAGE (ESL)

ESL classes are available only to students enrolled in the English Language Institute

ESL 101 Advanced Vocabulary Development

This class offers students the opportunity to broaden their vocabulary base in order to express themselves more clearly and appropriately in their writing and during class discussion. The course also prepares students for the vocabulary they are likely to encounter in university lectures and textbooks.

Prerequisites: Completion of intermediate ELI courses. 1.5 credit hours.

ESL 102 Advanced Reading and American Culture

Students develop reading comprehension skills and the ability to summarize, outline, paraphrase and respond to academic readings. Students expand their active and passive vocabulary use through readings and discussions. Readings focus on the history and culture of the United States. Prerequisites: Completion of intermediate ELI courses. 1.5 hours.

Completion of intermediate ELI courses. 1.5 hours.

ESL 102 Advanced Speaking and Listening

Students develop communicative competence with emphasis on both academic and conversational idiom. Cassette tapes, videos, oral interviews and classroom presentations are a few of the activities used to promote new vocabulary, foster grammatically correct speech, develop both comprehension and production skills. Prerequisites: Completion of intermediate ELI courses. 1.5 credit hours.

ESL 104 Advanced Grammar and Composition

This class offers extensive practice in academic writing modes and review of grammatical concepts. Emphasis will be placed on academic writing conventions and pedagogical approaches students are likely to encounter in their further university studies. Students will also review basic principles of punctuation, sentence structure and grammar while working toward the ability to express complex ideas in grammatically correct English.

Prerequisites: Completion of intermediate ELI courses. 1.5 credit hours.

ENGLISH AS A SECOND LANGUAGE TRANSITION (ESLT)

ESLT 201 Academic Culture and Communication

This course helps students acquire the oral skills competencies required to succeed in American academic settings. Students will learn efficient listening and note-taking strategies for lectures and consider the appropriate register for interactions with professors and peers in formal as well as informal situations. Students will practice formal oral presentations and through self and peer critique, become more capable and confident in their speaking and listening abilities. Only available to students of English as a second language. Prerequisites: TOEFL score of 475. Co-requisites: Concurrent enrollment in ELI program courses. 3 credit hours.

ESLT 202 American Perspectives: Ethnically Speaking

This course will give international students an opportunity to view the diversity of culture found in the United States from a variety of perspectives. Through essays, films and lectures, students will discover lifestyles, traditions and customs practiced by different populations of Americans. Students will interview American students about their opinions and perspectives practicing ethnographical type research to observe these practices firsthand. This class will focus on different ethnic groups in the U.S.: Hispanic, African American, Native American, Asian American and European American. Prerequisites: TOEFL score of 475. 3 credit hours.

ESLT 203 Academic and Research Writing

Academic and Research Writing is the composition component of the ELI Transition Program. This course prepares students for the writing tasks, research methodologies, and documentation formats they are likely to encounter in their academic programs. Students will build upon their understanding of the basic rhetorical modes to develop their arguments in a fully documented research essay. Only available to students of English as a second language. Prerequisites: TOEFL score of 475. Co-requisites: Concurrent enrollment in ELI program courses. 3 credit hours.

ESLT 204 American Perspectives: Demographic Differences

This course will give international students an opportunity to view the diversity of culture found in the United States from a variety of perspective. Through essays, films and lectures, students will discover lifestyles, traditions and customs practiced by different populations of Americans. Students will interview American students about their opinions and perspectives practicing ethnographical type research to observe these practices firsthand. This course focuses on different groups in the U.S., including the elderly, lesbians and gays, people of different regions of southern United States, and others. Prerequisites: TOEFL score of 475. 3 credit hours.

Arts and Sciences Transition Classes

These are regular A&S classes that will be specified as official Transition courses each semester. They will be designated in the schedule by a "T" following the class number.

STUDY ABROAD

In accordance with the University's mission statement and goals, Pacific University study abroad programs provide students with a unique opportunity to develop skills and knowledge that will prepare them for the diverse community, nation, and world. Pacific University considers international study important and encourages all students to gain exposure to other cultures, languages, and ways of life.

Study abroad is required for a major in modern languages and international studies, but is open to all students who meet the selection criteria. Pacific University students who participate in a study abroad program can earn a maximum of 31 credits that will count toward their graduation. However, students should consult with their faculty advisor(s) to determine which courses taken abroad can and cannot be used toward their majors or to satisfy other specific University requirements.

Pacific has an agreement with the Oregon University System (OUS) that gives Pacific students access to all OUS study abroad programs. These programs now include

study abroad sites in China, Ecuador, France, Germany, Japan, Mexico, and Thailand.

Pacific also offers access to a wide array of other study abroad programs. European study in Austria, England, France, Spain, Wales, and The Netherlands is also available. In Japan, Pacific is affiliated with Kansai Gaidai in Hirakata, just outside of Osaka, and Nagoya Gakuin University in Nagoya. In Ecuador, Pacific has an affiliation with the Universidad Especialidades Espiritu Santo (UEES) in Guayaquil. Pacific University reserves the right to cancel programs or to make changes in affiliation at any time for reasons of safety, finances, or administrative concerns. Please consult the International Programs office for up-to-date information on all programs.

Eligibility

To be eligible for overseas study, students, typically sophomores or juniors, must demonstrate proper personal and academic preparation for the program, be in good academic standing, and have attended Pacific full-time for one semester. Applications from freshmen to study abroad during their sophomore year will normally not be approved unless there is a compelling academic reason for the request. In general, applicants are expected to have an overall GPA of 3.0. For language programs the completion or equivalent of 202 and a 3.0 GPA average in language classes are required. A personal essay, letters of recommendation, and a personal interview are also required of all applicants. Students with a GPA below 2.5 at the time of application will have their applications rescinded.

Cost

The cost for most Pacific University approved study abroad programs will be equal to Pacific tuition, room and board. The University will also provide up to \$750 for transportation to and from the study abroad site. For specific program cost information, please contact the International Programs Office.

The University does extend financial aid for approved study abroad programs taking into account both the total expenses associated with a particular program and

the demonstrated need of the individual student. The University may also facilitate student access to study abroad programs not affiliated with Pacific, but no financial aid from Pacific will be awarded for such unaffiliated programs.

Application Deadline

The deadline for application to all Pacific study abroad programs is normally at the beginning of second semester (late January-early February) preceding the academic year in which the study abroad program will be undertaken. Application forms, current cost data, and informational brochures about all study abroad programs are available in the International Programs Office.

CHINESE

OUS provides a semester-long program at the Central University for Nationalities in Beijing. This program focuses on intensive language training at the beginning, intermediate, and advanced levels and offers a course entitled Chinese Culture and Chinese National Minorities that includes a three-week study tour to two minority regions in China rarely visited by Westerners. International students are housed together in a University dormitory.

ENGLISH

Australia

A new program, launched in Fall 2006, allows students to study at Flinders University in the coastal city of Adelaide, the capital of South Australia. With a population of 1.1 million, Adelaide is a major Australian city with a multicultural population, outstanding natural environment and thriving arts scene. Flinders University is a comprehensive medium-sized university with a total enrollment of 15,000. The campus is one of Australia's most beautiful, set amidst natural bushland with spectacular views of Adelaide and the surrounding coastline. Course offerings at Flinders are spread across 4 faculties, and 20 schools and departments, thus assuring Pacific students a wide range of academic options. Students will integrate fully into

the campus, enrolling in 3-4 classes up to a maximum of 18 Flinders units. Housing will be provided in Deirdre Jordan Village, a new student apartment complex located only 5 minutes walk from the main campus.

Ireland

Pacific has offered study abroad opportunities in Ireland for several years, and will continue to do so. Currently, program options are under review and it is expected that a new program will be launched in Fall 2007. The International Programs Office will provide information about this program as soon as details are finalized.

Wales

A fall semester program is offered at the University of Wales in Swansea. UW-Swansea is a comprehensive and highly regarded university offering a wide range of coursework in the humanities, sciences, social sciences, and engineering. While Swansea offers a vibrant urban setting, it is also just minutes away from the spectacular Gower Peninsula, an area known for its fine beaches, and rugged coastal scenery. Participants will be able to integrate fully into the university, and will take classes from the regular University of Wales curriculum with British students. Students will be housed in self-catering accommodations at the University of Wales Student Village at Hendrefoilan. The program also provides an unpaid internship option.

England

A new program at St. Mary's College, in the West London suburb of Strawberry Hill, was launched in Fall 2005. St. Mary's has an enrollment of 2,500 students and offers classes in a variety of fields including media arts, exercise science, English literature, creative writing, sociology, business, drama and many more. St. Mary's picturesque 30-acre campus includes the 18th century estate and mansion of the British author Sir Horace Walpole. The College is a short walk from Twickenham High Street (a shopping district) and Richmond Park, while

London's museums, concert halls, theatres, galleries and nightlife are only 30 minutes away by train. Participants will integrate fully into the life of the college as they take classes with British students, and will be housed in homestays located a short distance from the campus.

The Netherlands

Less than 40 minutes away from Amsterdam, Leiden is home to the nation's oldest University, Leiden University. The Central College program in Leiden allows Pacific students to experience continental Europe while taking classes in English. While studying in Leiden, Pacific students can take courses in Art, Business, Economics, Management, Political Science, History, Psychology, Literature and Music. Students must take a beginning Dutch language course while participating in the program. All students live in Dutch residence halls and, whenever possible will be placed as the only American on the floor. All residence halls have single rooms with shared bathroom and kitchen facilities. Meals are not included in this program.

FRENCH

Four French programs are available to Pacific students in Paris, MontPELLIER, Lyon, and Poitiers through International Studies Abroad (ISA), University of Minnesota, and OUS, respectively. The ISA program in Paris provides students with the option of studying French language and culture with other international students at the Sorbonne or the Catholic University of Paris. Superior-level students at the Catholic University of Paris can choose to take up to two integrated courses with French students. Housing is provided in residence halls or homestays. The OUS yearlong program in Lyon offers students a chance to explore France's second largest city. The program begins with an intensive language program and then continues at the Centre International d'Etudes Françaises with the opportunity to take selected regular courses at four different universities in Lyon. Advanced students who pass a qualifying exam may

also opt to take all of their courses in the French universities that participate in the program. There is a wide variety of housing options, ranging from homestays with families, to sharing apartments with French students, to staying in university dormitories. This program is for the full academic year only.

The OUS yearlong program in Poitiers exposes students to life in a small French city of 100,000 residents. This program also begins with homestays with French families and an intensive language program. Most students then continue with courses in the Department of French for Foreign Students of the University of Poitiers as well as regular University courses if their language skills are sufficiently advanced. As at Lyon, a wide variety of living arrangements, including homestays with French families, boarding houses, and University dormitories, are available. This program is also for the full academic year only.

The University of Minnesota's program in Montpellier, France offers a comprehensive academic and cultural experience at the intermediate and advanced language levels at the Université Paul Valéry. Montpellier is located in southern France, ten miles away from the Mediterranean. Classes are held at the Université Paul Valéry and are taught by faculty from the University. Housing options vary and include homestays, dormitory or apartment living.

GERMAN

Pacific gives students of German the opportunity to pursue study abroad in either Germany or Austria through programs offered by OUS, Lewis and Clark College, and Central College.

Germany

The yearlong OUS program in the state of Baden-Württemberg, the German sister state to Oregon, begins with a four-week program of intensive German. This is followed by study in regular German university courses at any one of nine different universities, each with its own distinctive academic emphasis. These are

located in the cities of Stuttgart, Tübingen, Konstanz, Hohenheim, Ulm, Freiburg, Heidelberg, Mannheim, and Karlsruhe. In addition, students with special interests in education, music, and art may enroll at three more specialized institutions in Ludwigsburg and Stuttgart, although an audition and/or portfolio may be required for admission to the music and art schools.

Students may also study in Germany on the year-long program offered at the Ludwig-Maximilians-Universität in Munich through Lewis & Clark College. Outstanding features of the program include an intensive 4-week pre-semester, a wide range of courses offered by the Lewis & Clark center and the Ludwig-Maximilians-Universität, and the support of the resident director. Students also have the opportunity to participate in an internship during their spring holidays. For 2006-07, scholarships are available specifically for Pacific University students on this program.

Austria

The Central College German language program provides students with an opportunity to study in Austria for either a single semester or an entire year. The program begins with one or two month intensive German program at a Goethe Institute facility in one of several sites in southern Germany. Following the intensive German course, the remainder of the semester or year is spent at the 600-year-old University of Vienna in Austria. Students can take regular courses at the University in language and literature, fine arts, humanities, and the behavioral sciences. At the same time, students take three courses per semester on different aspects of art, music, and literature through Central College's Program in Vienna. Students are housed in residence halls scattered throughout the city which serve both international and Austrian students. Residence halls do not offer meal plans, and meal plans are not included in the Central program fee. Internships are also available at a number of organizations, including the United Nations.

JAPANESE

Pacific University enjoys a sister school relationship with two Japanese universities that allow Pacific students to enroll in their study abroad programs in Japan for either a semester or a full year.

Nagoya Gakuin is located in a scenic suburb of Nagoya and offers a comfortable campus atmosphere. Kansai Gaidai is located in Hirakata near Osaka and half an hour train ride from Kyoto and Nara, the cultural and religious centers of traditional Japan. Both programs offer Japanese language classes and courses, taught in English, on the history and culture of Japan. At both schools, students may live either in an international dormitory or enjoy a home stay with a Japanese family arranged by the school. In addition, under some circumstances, Pacific students may have access to the year-long OUS program in Tokyo at Aoyama Gakuin University. At Aoyama Gakuin intensive Japanese is offered as well as a variety of courses, taught in English, in Japanese history, literature, politics, economics, and culture. Course work, however, is especially focused on business, economics, and politics. Housing is provided in University dormitories with Japanese roommates.

SPANISH

Ecuador

Pacific has a special relationship with the Universidad Especialidades Espiritu Santo (UEES) in Guayaquil, Ecuador's largest city, principal port, and main commercial center. UEES offers semester-length programs in fall and spring for Pacific students. The program features homestays with carefully selected Ecuadorian families, a series of excursions in and out of Guayaquil, including trips to the Andean highlands, the Amazon basin and the Galapagos. The academic program includes service-learning with a local school or social service agency, intensive Spanish and course work in Latin American history, geography, economics, and literature.

Pacific students may also apply to the OUS program in Ecuador's capital city, Quito. Students may choose from one of two schools: Pontificia Universidad Católica del Ecuador (PUCE) and Universidad San Francisco de Quito (USFQ). PUCE is located in the center of Quito and is a private, independent institution with 7,000 students. Universidad San Francisco de Quito (USFQ) is located in Cumbaya, a suburb of Quito and has 2,000 students. The program in Quito is available as either a yearlong program, or as a one-semester program in the fall and/or spring semesters. All students are housed with families for one semester with an option to move to an apartment for second semester students.

Mexico

A unique fall program is offered in Oaxaca, through the Southwest Center for International Studies. Students can combine language study with specialized courses in the areas of archaeology, history, and health and society. A distinctive characteristic of the program is that it is community-based, and draws on the host community not only for faculty and learning experiences but also for concrete case materials. The program devotes approximately 20 percent of study time for travel to locations in Veracruz and Oaxaca. These field experiences, which are an integral part of the program, have included visits to a Veracruz museum to compare Olmec and Zapotec cultures, a trip to a coffee-producing community to understand its linkage with global markets, and assisting Mexican biologists at a sea turtle reserve. Students are accommodated in homestays.

Pacific also offers four study sites in Mexico through OUS. The participating universities are located in Cuernavaca, Guadalajara, Monterrey, and Queretaro. A wide range of courses in Spanish language, culture, and business are offered. Students with advanced Spanish skills can take mainstream university courses with Mexican nationals. The program also provides service-learning and internship opportunities. Students are housed on-campus or in homestays.

Spain

Yearlong or semester programs are available through Academic Programs International (API) at the University of Salamanca, University of Seville and the University of Cadiz. The programs in Salamanca and Seville allow students to combine language courses with other humanities and social science classes taught in Spanish to international students. Students at an advanced level of Spanish language proficiency also have the option of taking integrated classes with Spanish students. The program in Cadiz is fully integrative and is suitable only for advanced students. All programs begin with a week-long orientation program in Madrid. Students are housed with Spanish host families. A wide variety of local and in-country excursions are included in the program.

OTHER PROGRAMS

Pacific students also have access through the Oregon University System (OUS) to study abroad programs in South Korea and Thailand. However, Pacific does not offer language training in support of this study abroad option. More complete information about these, and other programs, is available in the International Programs Office.

OVERSEAS PROGRAMS

Winter III

Various exciting credit-earning overseas study programs are also available during Pacific's three-week winter term (Winter III). These programs are faculty-led and vary from year to year. Recent program destinations have included Belize, Costa Rica, Ecuador, France, India, Spain, Austria, England, Ghana, Italy, Mexico, Russia and Zambia. For a schedule of upcoming Winter III programs, contact the International Programs Office at 503-352-2913. Courses for 2006-07 include the following:

Env 210 Tropical Environmental Biology

A study of the effects of human activity on natural environments associated with Third World, developing countries (ie. Belize and Guatemala, Central America). A variety of ecosystems and areas will be studied, including lowland savannas, tropical seasonal forests, limestone caver, coastal lagoons, mangrove swamps, sea-grass flats, coral reefs and urban and rural societies. The course meets during the spring, in order to present lectures and background materials, which will prepare students for activities in Belize and Guatemala in May. Prerequisite: consent of instructor and sophomore standing. 4 hours

Psy 210, Nurturing Reverence for Life: Expanding Understanding of Chimpanzees at Chimfunshi Wildlife Orphanage Education Center; Zambia, Africa

Students will participate in data collection and development of educational materials to be used by the Chimfunshi Education Center. In addition, students will participate in group and individual educational activities with visiting Zambian children. Travel occurs during the summer.

Spanish/Education 467, "Practicum in Tapalpa, Mexico"

Students will complete a teaching practicum in an elementary/middle school in Tapalpa, Mexico. This will also include a weekly seminar and weekend cultural excursions and a two-day orientation prior to departure. Prerequisite: Span/Ed 465 Spanish in the Elementary School or consent of instructors. Additional fee required. 3 hours.

Thea 270/370 Theatre in London

An experiential two-week exploration of theatre in England, during which students attend and critique at least 9 professional plays, meet with British theatre professionals and tour theatre facilities in London and Stratford-upon-Avon. Additional fee required. 3 hours.

INTERNATIONAL STUDIES

Cheleen Mahar, (*Anthropology*) Chair

Jeffrey G. Barlow, (*History*) East Asian Studies Coordinator

Nancy Christoph, (*Spanish*) Latin American Studies Coordinator

Lorely French, (*German*) Western European Studies Coordinator

Phil Ruder, (*Economics*) International Policy Coordinator

Victor M. Rodríguez, *Spanish*

Deke Gunderson, *Environmental Studies*

Kazuko Ikeda, *Japanese*

Pam Lopez, *Biology*

Richard Jobs, *History*

Martha Rampton, *History*

Jeffrey G. Seward, *Political Science*

International Studies is designed for highly motivated students who plan careers in law, diplomacy, education, international research and the globalized marketplace of business and economics. National and state leaders have placed a high priority on International Studies in order to meet the critical need for college graduates who are competent in world languages and who are familiar with world cultures. The national and regional commitment to internationalism in the United States and the increasing interdependence of nations around the world are reflected in a wide range of job opportunities in both government and the private sector.

Within the International Studies major, students are able to focus upon one of four international areas: East Asia, Latin America, Western Europe and International Policy. A fifth area study option is American Studies, which is open to all international students who wish to major in IS. Each area focus provides majors with a multidisciplinary background in a language and culture area.

MAJOR IN INTERNATIONAL STUDIES

Students are encouraged to apply for the International Studies major in the first semester of their sophomore year. Applications are available from the Chair of International Studies. Students who apply later in their academic career may find it difficult to complete the requirements of the major and still graduate from Pacific in four years, especially if they choose to spend an entire year in a study-abroad program. Admission is selective and normally requires a 3.0 GPA. IS majors must maintain a GPA of at least 3.0 each semester to remain in the program.

Immediately after being accepted, students must consult with a member of the International Studies faculty (see list above), as well as the chair of International Studies, and prepare a complete plan of study that they intend to take in order to fulfill the requirements of the major. This plan should be updated and resubmitted upon return from the study-abroad experience. As part of that plan, each major must declare an area interest: East Asia, Latin America, Western Europe or International Policy.

International students (that is, foreign nationals studying at Pacific on a student visa) may select the American Studies option (see the separate requirements for this option set out below). In this case, the foreign language requirement and the study- abroad requirement are waived. International students may also complete the regular International Studies major but may not use their native language to fulfill the foreign language requirement. Further, they may not use study in their home country to satisfy the study- abroad requirement.

International Studies majors are strongly encouraged to complete a second major in a standard discipline. Students may also want to include a Humanitarian Center multicultural field experience or other relevant internship.

The goals and formal requirements for the major in each of the four area-studies options are listed below. Please note that these requirements are different from those for students who complete a major in American Studies.

Goals for the International Studies Major

In successfully completing a major in International Studies, a student will possess the following attributes:

- Strong written and oral communications skills.
- Proven research and analytical skills.
- Knowledge of the history and culture of a specific area of the world.
- The ability to build on that knowledge to produce a final written thesis and related oral presentation.
- Well-developed intercultural skills.
- The ability to work collaboratively.
- The ability to speak, read and write in a second language.
- Experience in living and studying abroad.

All IS majors are required to complete the following degree requirements:

1. At least one semester of study abroad in a country related to the student's chosen area interest and language competence. Study abroad in English-speaking countries may only be used to fulfill the International Policy focus.
2. Foreign language study to the 202 level and at least 6 hours of foreign language study at the 300 level or above, except for the International Policy focus, which requires 3 hours at the 300 level.
3. One of the following: IS 201 (Intercultural Communications), PSY 160 (Culture and Behavior); ECON 341 (International Trade and Development).
4. A base history course related to the student's chosen area interest.
5. One course in theory or research methods to be taken prior to enrollment for IS 401 Senior Thesis.

6. 21 Semester hours of electives in consultation with the student's IS advisor. No more than 12 semester hours from any single department or discipline and no more than 12 semester hours taken during study abroad may be applied to this requirement.

7. IS 401 and IS 402 Senior Thesis

Area Studies: Asian Studies, 40 credits

One of the following:

IS 201

ECON 341

PSY 160 3

Base History Course – one of the following:

HIST 111 Foundations of East Asia 3

HIST 112 East Asia 3

Research Methods – one of the following:

ANTH 301 Research Methods in

Anthropology 4

ECON 321 Introduction to Econometrics 4

ENGL 332 Introduction to Linguistics 3

PSY 350 Behavioral Statistics 3

SOC 300 Introduction to Social Research 4

SOC 301 Social Statistics 4

Electives coherently related to area interest 21

Electives may include the following:

Study Abroad Credits 12

HIST 210 Ancient Kingdoms of Indochina: Vietnam, Cambodia and Laos 3

HIST 211 Japan Past & Present with Film ... 3

HIST 212 China past & Present with Film 3

HIST 213 Vietnam & the U.S 3

HIST 315 Modern Japan 3

HIST 316 China from Mao to Tiananmen 3

HUM 205 Japanese Culture 3

PHIL 305 Asian Philosophy 3

WORLD – any appropriate culture / literature course

Foreign language study at 300 level

or above 6

IS 401 & IS 402 Senior Thesis 4

**Spanish and Latin American Studies,
40 credits**

One of the following:

| | |
|----------|---|
| IS 201 | |
| ECON 341 | |
| PSY 160 | 3 |

Base History Course – one of the following:

| | |
|----------------|---|
| HIST /POLS 255 | 3 |
| HUM 206 | 3 |

Research Methods – one of the following:

| | |
|---|---|
| ANTH 301 Research Methods in Anthropology | 4 |
| ECON 321 Introduction to Econometrics | 4 |
| ENGL 332 Introduction to Linguistics | 3 |
| PSY 350 Behavioral Statistics | 3 |
| SOC 300 Introduction to Social Research | 4 |
| SOC 301 Social Statistics | 4 |

Electives coherently related to area interest 21

Electives may include the following:

| | |
|--|----|
| Study Abroad Credits | 12 |
| ANTH 210 Mesoamerican Cultures | 3 |
| ANTH 320 South American Traditional Societies | 3 |
| BIOL 450 Tropical Rainforest Biology | 4 |
| ENV 210 Tropical Environmental Biology | 4 |
| HIST 207 Spain from Rome to Revolution | 3 |
| HUM 206 Latin America | 3 |
| HUM 208 Francophone Africa and the Caribbean | 3 |
| HUM 306 Latino Fiction | 3 |
| POLS 239 The Conquest of the Americas | 3 |
| POLS 240 Colonial and Neocolonial Latin America | 3 |
| POLS 241 Modern Latin America | 3 |
| WORL – any appropriate culture/literature course | |

Foreign language study at 300 level or above 6

| | |
|-------------------------------|---|
| IS 401 & IS 402 Senior Thesis | 4 |
|-------------------------------|---|

Western European Studies – 40 credits

One of the following:

| | |
|----------|---|
| IS 201 | |
| ECON 341 | |
| PSY 160 | 3 |

Base History Course – one of the following:

| | |
|----------|---|
| HIST 101 | 3 |
| HIST 102 | 3 |

Research Methods – one of the following:

| | |
|---|---|
| ANTH 301 Research Methods in Anthropology | 4 |
| ECON 321 Introduction to Econometrics | 4 |
| ENGL 332 Introduction to Linguistics | 3 |
| PSY 350 Behavioral Statistics | 3 |
| SOC 300 Introduction to Social Research | 4 |
| SOC 301 Social Statistics | 4 |

Electives coherently related to area interest 21

Electives may include the following:

| | |
|---|----|
| Study Abroad Credits | 12 |
| ECON 341 International Trade and Development | 3 |
| HIST 206 France from Caesar to Napoleon | 3 |
| HIST 207 Spain from Rome to Revolution | 3 |
| HIST 208 England from Rome to Revolution | 3 |
| HIST 232 The Holocaust | 3 |
| HIST 235 Europe Since World War II | 3 |
| HIST 237 European Socialism Through Film | 3 |
| HIST 301 The Medieval World: 400 – 1500 | 3 |
| HIST 302 Renaissance, Reformation, Revolt: 1500 –1800 | 3 |
| HIST 338 The Era of the French Revolution | 4 |
| HIST 401 The World of Charlemagne | 3 |
| HUM 207 German Culture | 3 |
| HUM 208 Francophone Africa and the Caribbean | 3 |
| POLS 309 Classics of Political Philosophy | 3 |
| POLS 330 National Systems | 3 |
| WORL – any appropriate culture/literature course | |

| | |
|--|---|
| Foreign language study at 300 level or above | 6 |
| IS 401 & IS 402 Senior Thesis | 4 |

International Policy Focus – 44-50 credits

| | |
|--|-----|
| Non- U.S. History Courses – at least two, with one at the 300+ level as approved by student's IS advisor | 7-8 |
| Study Abroad | 12 |
| Foreign language study at 300 level or above | 3-4 |

Research Methods –

One of the following courses

| | |
|---|---|
| Anth 301 Research Methods in Anthropology | 4 |
| Econ 321 Introduction to Econometrics ... | 4 |
| Engl 332 Introduction to Linguistics | 3 |
| Psy 350 Behavioral Statistics | 3 |
| Soc 300 Introduction to Social Research .. | 4 |
| IS 401 and IS 402 Senior Thesis | 4 |

Three courses in at least two different disciplines from the following:

| | |
|---|--|
| BA 312 International Business | |
| ECON 341 International Trade and Development | |
| ECON 342 International Finance | |
| POLS 330 National Systems and Global Challenges | |
| POLS 340 Security, rights and Globalization | |
| POLS 355 International Political Economy | |

One of the following courses

| | |
|---|---|
| ANTH 210 Mesoamerican Cultures | 3 |
| ANTH 320 South American Traditional Societies | 3 |
| ENGL 227 Introduction to World Literature | 3 |
| IS 201 Intercultural Communication | 3 |
| PACS 220 The Middle East | 3 |
| PHIL 305 Asian Philosophy | 3 |

REQUIREMENTS FOR AMERICAN STUDIES FOCUS (AVAILABLE ONLY TO INTERNATIONAL STUDENTS)

1. IS 201 Intercultural Communication
2. HIST 141-142 History of the United States.
3. Six hours of upper-division courses in American history.
4. Six hours of **courses in American literature**.
5. Twelve hours of electives chosen in consultation with the advisor to create a coherent program of study of the United States, with at least six hours of electives outside the Departments of History and English.
6. The same requirements for a methodology course, and senior thesis as all other IS majors.

International students for whom English is a second language and who elect the America concentration are exempt from the foreign language and study-abroad requirements and take instead **24 hours** in electives as **suggested above**.

COURSE DESCRIPTIONS

International Studies (IS)

IS 201 Intercultural Communication

This course develops awareness and skills for effective communication among people of different cultures. It explores problems related to value differences and examines perceptual relativity, cultural self-awareness, verbal and nonverbal behavior, value analysis, and communication strategies. For both United States and International students. 3 hours.

IS 401-402 Senior Seminar and Thesis

Sources, materials, and methods of research, writing, and critical analysis. Preparation and defense of major research project. Prerequisite: Senior Standing in IS. 2 hours per semester.

IS 450 Special Topics in International Studies

This seminar course is an elective which focuses on topics of special interest to students and IS faculty. The course allows students to explore possible topics for their thesis and the methods for approaching those topics. Students may take the course concurrently with IS 401. Prerequisite: Senior standing and study abroad. 3 hours.

MATHEMATICS

Michael Boardman, *Co-Chair,
Professor, Mathematics*

Christine Guenther, *Associate Professor,
Mathematics, and Thomas and Joyce Holce
Professorship in Science*

Christopher Lane, *Assistant Professor,
Mathematics and Computer Science*

Nancy Ann Neudauer, *Associate
Professor, Mathematics*

John August, *Visiting Associate Professor,
Mathematics*

The Department of Mathematics and Computer Science offers majors and minors in both Mathematics and Computer Science.

The Mathematics major provides students a strong mathematics foundation with emphases in several key areas including analysis, abstract structures and applied mathematics. Students completing this major are able to pursue careers in applied mathematics, enter graduate programs in mathematics and other fields, or complete certification requirements to teach mathematics in K-12 (see the Education section of this catalog for more details).

Department Goals

The department maintains common goals for all of its students (majors, minors and others). Students in our courses will learn strategies for abstract problem solving, gain a basic understanding of computers and the broad implications of their use, be exposed to mathematics as a liberal art, and be given the opportunity to hone their computational skills.

Students with a program of study in Mathematics will learn methods of mathematical modeling, abstraction, argumentation, and abstract mathematical constructs and paradigms; develop competence in carrying out algorithms, and learn to read and speak the language of mathematics. A mathematics degree from Pacific prepares students for a wide variety of post-graduate activities, including work in

mathematics and science- related fields or graduate study in mathematics or education.

MAJOR IN MATHEMATICS

Core

Mathematics Courses

| | | |
|------------------|--|----------|
| Math 226,227,228 | Calculus I-III | 12 |
| Math 240 | Discrete Mathematics | 3 |
| Math 306 | Linear Algebra | 3 |
| Math 311 | Ordinary Differential Equations | 3 |
| Math 402 | Abstract Algebra | 3 |
| Math 405 | Real Analysis | 3 |
| Math 490 | Senior Capstone | 2 |
| | | <hr/> 29 |

Supporting Courses

| | | |
|---------|---|---------|
| CS 150 | Introduction to Computer Science I | 4 |
| Phy 232 | General Physics I | 4 |
| | | <hr/> 8 |

Supporting Courses..... 3-4

| | | |
|----------|--|-------------|
| CS 250 | Introduction to Computer Science II | |
| Phys 242 | General Physics II | |
| Phys 380 | Classical Mechanics | |
| | | <hr/> 12-13 |

General Electives

| | |
|--|-------------|
| At least two other mathematics courses numbered 300 or higher | 6 |
| | <hr/> 49-50 |

Restriction: At most, one course passed with a grade below "C-" can count towards the mathematics major.

Note: Math 360 may be counted twice as an elective requirement for the major as long as the topics are different.

MINOR IN MATHEMATICS

Core

| | | |
|---------------|---|---|
| Math 226, 227 | Calculus I & II | 8 |
| Math 240 | Discrete Mathematics | 3 |
| CS 150 | Introduction to Computer Science I | 4 |
| Electives | ..... | 9 |

At least nine additional credits of mathematics courses numbered 200 or higher, excluding Math 221 or Math 223. At least two of these courses must be numbered 300 or higher.

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24

Restriction: At most one course passed with a grade below "C-" can count towards the mathematics minor.

Note: Math 360 may be counted twice as an elective requirement for the major as long as the topics are different.

COURSE DESCRIPTIONS

Mathematics courses of at least three credits numbered 165 and above satisfy the mathematics core requirement.

Mathematics (Math)

Math 122 College Algebra

This course offers students the opportunity to polish their general algebra skills in preparation for precalculus, statistics and other courses where a working knowledge of algebra without trigonometry is a prerequisite. Throughout the course, students are asked to translate information back and forth between grammatical and mathematical forms. Topics include modeling, graphing and analysis with linear, quadratic and general polynomial expressions, solving linear, quadratic and general polynomial equations and inequalities and functions. Hands-on projects from social and natural sciences are included. 4 hours.

Math 125 Precalculus

Most science and mathematics courses require that students be comfortable working with functions symbolically, graphically and numerically. Precalculus offers students the background they need to pursue these courses. An integral component of the course is translating information back and forth between

grammatical and mathematical forms. Concentrating on functions and their properties, the course includes the study of several classes of functions including polynomial, rational, exponential, logarithmic, and trigonometric functions. The conic sections are also studied. Prerequisite: Math 122 with a grade of "C" or better or placement. 4 hours.

Math 165 Modern Topics in Mathematics

This course exposes students to abstraction and problem solving with mathematical constructs. Elements of descriptive and inferential statistics give students the foundation to understand visual and numerical representations of data and to make informed judgments about survey and experimental study results. Various topics chosen from among management science, finance, voting theory, game theory, symmetry, proportionality, or other modern topics offer the opportunity to see connections of mathematics to business, political science, art and other fields. 3 hours.

Math 206 Computational Linear Algebra

This course is intended as an introduction to Linear Algebra with emphasis on the computational aspects of the material. Topics covered include matrices, determinants, Gaussian elimination, vector spaces, eigenvalues and eigenvectors, orthogonal matrices and least squares. This course will include programming assignments in Maple and/or other computer algebra systems. Corequisite: Math 226. 3 hours. Alternate years 2005-2006.

Math 207 General Elementary Statistics

A great deal of modern research in the social and natural sciences relies upon the mathematical theories of probability and statistics. This course will introduce students to the basic theory and practice of statistics. Emphasis is on the general ideas of hypothesis testing and estimation. Other topics include classification and presentation of data, descriptive statistics, basic probability distributions, and correlation and regression. Prerequisite: Math 122 with a grade of "C" or better or placement. 3 hours.

Phil/Math 212 Language and Logic

This course is a survey of formal syntactic and semantic features of language, including topics such as sentential logic, predicate logic, axiomatic systems and set theory, and nonclassical extensions such as multivalued logics. 3 hours.

Math 221 Foundations of Arithmetic

Designed for elementary education majors. Elements of logic, numeration, the number systems of arithmetic, elementary number theory, the algorithms of arithmetic. 3 hours. Alternate years 2004-2005.

Math 223 Foundations of Geometry

Designed for elementary education majors. Intuitive geometry in two and three dimensions, systems of measurement, estimation and approximation. 3 hours. Alternate years 2005-2006.

Math 226 Calculus I

The study of functions and their rates of change. Topics include the concept of derivative as rate of change, limits and continuity, differentiation and its applications, Intermediate, Extreme and Mean Value Theorems, introduction to integrals, and the Fundamental Theorem of Calculus. Prerequisite: Math 125 with a grade of "C" or better or placement. 4 hours.

Math 227 Calculus II

Investigation of single variable integration including techniques of symbolic integration, numerical integration and error analysis, applications of integration, and improper integrals. Infinite sequences, infinite series, and Taylor series will be introduced. Prerequisite: Math 226 with a grade of "C" or better or placement. 4 hours.

Math 228 Calculus III

The study of calculus of several variables. Topics include visualization techniques, vectors and solid analytic geometry, vector arithmetic, partial differentiation and its applications, gradients, optimization techniques, iterated integrals, line integrals, divergence, curl and related theorems. Prerequisite: Math 227 with a grade of "C" or better. 4 hours.

Math 240 Discrete Mathematics

This course introduces the fundamentals of number systems, sets, functions and relations, logic and proof, elementary combinatorics, Boolean algebra and graph theory. It plays the role of a transition course for mathematics majors, moving them from calculus to the higher level courses in mathematics, and as an important course in logic for computer science majors. Prerequisite: Math 226 with a grade of "C" or better or placement. 3 hours.

Math 301 Mathematical Modeling

A wide variety of physical and social systems can be described and analyzed using mathematics. In this course, students will learn about the mathematical modeling process through examination and analysis of frequently used models in physics, chemistry, biology and other sciences. Students will also experience generating and testing new models. Prerequisite: Math 226 with a grade of "C" or better. 3 hours. Alternate years 2004-2005.

Math 306 Linear Algebra

Geometrical vectors; their applications and basic properties; real vector spaces; dependence, basis, and dimension; systems of linear equations; linear transformations and matrices; determinants; quadratic forms. Emphasis on argumentation. Prerequisite: Math 226, Math 240 both with a grade of "C" or better. 3 hours.

Math 311 Ordinary Differential Equations

Ordinary differential equations and their applications. Topics include the theory of linear equations, investigations of non-linear equations, systems of equations, numerical methods, stability, long term behavior and Laplace transforms. Emphasis is placed on both quantitative and qualitative descriptions of solutions. Prerequisite: Math 227 with a grade of "C" or better. 3 hours. Alternate years 2005-2006.

Math 316 Mathematical Probability

Summary and display of data, properties of probability, discrete and continuous distributions, moment-generating functions, central limit theorem, and transformations of random variables. Prerequisite: Math 228, Math 240 both with a grade of "C" or better. 3 hours. Alternate years 2005-2006.

Math 321 Higher Geometry

A rigorous study of both Euclidean and non-Euclidean geometries. Prerequisite: Math 240 with a grade of "C" or better. 3 hours. Alternate years 2004-2005.

Math 324 Numerical Analysis

Linear difference equations, iteration, acceleration of convergence, interpolating polynomials, Fourier analysis, numerical differentiation and integration. Prerequisite: Math 227 with a grade of "C" or better. 3 hours. Alternate years 2006-2007.

Math 360 Special Topics

The topic of this course will change from year to year, and will depend on the interests and judgement of the math department faculty. Examples of topics may include the history of mathematics, dynamical systems, foundations and logic, mathematical biology, topology, graph theory, number theory, and differential geometry. Prerequisite: Math 240 with a grade of "C" or better, and others depending on the topic. 3 hours.

Math 385 Junior Seminar

Designed to acquaint the mathematics major with recent advances in mathematics, help synthesize the student's mathematical knowledge, and provide experience in the oral presentation of mathematical topics. Prerequisite: Mathematics major or minor with junior standing, and at least 6 hours of mathematics courses numbered 300 or higher with grades of "C" or better. Can not be taken after receiving credit for Math 490. 1 hour

Math 402 Abstract Algebra

A survey of fundamental concepts in abstract algebra. Topics may include Group theory, including quotient groups, fundamental results on group homomorphisms and the study of finite groups; Ring theory, including fundamental homomorphism theorems, quotient rings and Euclidean rings, vector spaces and modules; Field theory including field extensions, Galois theory and classical results concerning constructibility and solvability. Prerequisite: Math 240, Math 306 both with a grade of "C" or better. 3 hours. Alternate years 2004-2005.

Math 405 Real Analysis

A rigorous treatment of the limit concept, continuity, differentiation and integration. Sequence and series convergence, with some attention to regular methods of summability. Uniform and pointwise convergence of sequence and series of functions. Prerequisite: Math 228, Math 240 both with a grade of "C" or better. 3 hours. Alternate years 2005-2006.

Math 411 Partial Differential Equations

Addresses solution methods for the three basic partial differential equations of mathematical physics: the heat, wave and potential equations. Methods covered will include power series, Fourier series, Laplace transform methods, separation of variables, and the method of characteristics. Initial and boundary data will also be covered, as well as physical applications and numerical simulations of solutions. Special topics as time permits. Prerequisite: Math 228, Math 311 both with a grade of "C" or better. 3 hours. Alternate years 2005-2006.

Math 412 Complex Analysis

Complex numbers, analytic functions, elementary functions, mapping by elementary functions, integrals, series, residues and poles, conformal mapping. Prerequisite: Math 228, Math 240 both with a grade of "C" or better. 3 hours. Alternate years 2004-2005.

Math 440 Topics in Algebraic Structures

This course covers various important subjects in mathematics in which algebraic structures play a central role, introducing algebraic ideas by their applications to these fields. Topics may include number theory, matrix groups, topology, coding theory and algebraic geometry. Prerequisite: Math 240, Math 306 both with a grade of "C" or better. 3 hours. Alternate years 2005-2006.

Math 490 Senior Capstone

This course is intended as a senior capstone experience for mathematics majors. Students will have the opportunity to use their mathematical skills and knowledge to investigate projects of their choice under the supervision of faculty. Prerequisite: Mathematics major or minor, Senior standing, and at least 9 hours of mathematics courses numbered 300 or higher with grades of "C" or better. 2 credits.

MEDIA ARTS

Dave Cassady, *Associate Professor*

Michael Geraci, *Assistant Professor*

Johanna Hibbard, *Associate Professor*

Brian Hughes, *Assistant Professor*

Samuel Mathies, *Assistant Professor,
Director of Forensics*

A major in media arts prepares students for careers in a variety of media-related fields including journalism, broadcasting, video, film and multimedia production, public relations and advertising. The program emphasizes theoretical and social aspects of the media as well as the creative and technical components.

In addition to course work, students are able to gain further experience through work with student media outlets such as the student newspaper (*The Index*), video productions (Pacific Productions), and radio station (KPUR) and a variety of campus integrated media projects. All student publications are open to any Pacific student.

Qualified Media Arts students are also eligible for internships in professional media.

Students interested in a major in Media Arts or careers in the media and related fields should consult a member of the department in his/her area of interest.

Departmental Goals

The overall goal of the Media Arts Department curriculum is to produce graduates who are technically and aesthetically proficient in creating mass media and non-media communication and knowledgeable in the legal, ethical and social aspects of the media.

Specific goals include:

- Developing graduates who are capable of understanding communication in a media, organizational, interpersonal and social context.

- Providing students with an understanding of the history and social and cultural roles of mass media in society, both through courses specifically focused on these topics and by incorporating these themes into other, production-oriented courses.
- Developing in students an aesthetic understanding of media production and technical proficiency in media areas such as video and visual production, writing and digital media development.

MAJORS IN MEDIA ARTS

Students in media arts at Pacific may major in one of four areas: journalism, film/video production, integrated media or general media arts. Students may receive credit for more than one major (journalism, film & video or integrated media only) by completing the required courses in each major. In addition to the media arts major requirements, students must also complete a minor or second major in an area outside of Media Arts or may design, with the consent of the faculty, an 18-hour program of study outside the department. The 18-hour program must include at least nine upper-division hours.

GENERAL MEDIA ARTS MAJOR

Requirements

| | | |
|----------|---|---|
| MedA 111 | Cultural and Historical Foundations | 3 |
| MedA 112 | Modern Mass Media | 3 |
| MedA 225 | Black and White Photography | 3 |
| MedA 240 | Writing for Print Media | 3 |
| MedA 250 | Elements of Video Production | 3 |
| MedA 260 | Elements of Multimedia Design | 3 |
| MedA 311 | Writing for Electronic Media | 3 |
| MedA 422 | Media Criticism | 3 |

| | | |
|---|-------------------------------------|----------|
| MedA 434 | Mass Media Law and Regulation | 3 |
| MedA 495 | Senior Project | 2 |
| MedA 496 | Senior Project | 2 |
| Upper division Media Arts electives | | 6 |
| | | <hr/> 37 |

JOURNALISM MAJOR

Requirements

| | | |
|---|---|----------|
| MedA 111 | Cultural and Historical Foundations | 3 |
| MedA 112 | Modern Mass Media | 3 |
| MedA 225 | Black and White Photography | 3 |
| MedA 240 | Writing for Print Media | 3 |
| MedA 340 | Reporting | 3 |
| MedA 363 | Publication Design | 3 |
| MedA 370 | Advanced Reporting | 3 |
| MedA 422 | Media Criticism | 3 |
| MedA 434 | Mass Media Law and Regulation | 3 |
| MedA 495 | Senior Project | 2 |
| MedA 496 | Senior Project | 2 |
| Upper division Media Arts electives | | 6 |
| | | <hr/> 37 |

FILM AND VIDEO MAJOR

Requirements

| | | |
|----------|-------------------------------------|---|
| MedA 111 | Cultural and Historical Foundations | |
| | Or | |
| MedA 112 | Modern Mass Media | 3 |
| MedA 120 | Survey of Film | 3 |
| MedA 205 | Film Editing | 3 |
| MedA 250 | Elements of Video Production | 3 |
| MedA 301 | Special Topics: Film Theory | |

| | | |
|----------|-------------------------------------|----------|
| | OR | |
| MedA 401 | Special Topics: Topographies | 3 |
| MedA 302 | Documentary Film | 3 |
| MedA 312 | Screenwriting | 3 |
| MedA 320 | Studio Production | 3 |
| MedA 321 | Sound Design | 3 |
| MedA 330 | Field Production | 3 |
| MedA 422 | Media Criticism | 3 |
| MedA 434 | Mass Media Law and Regulation | 3 |
| MedA 495 | Senior Project | 2 |
| MedA 496 | Senior Project | 2 |
| | | <hr/> 40 |

INTEGRATED MEDIA MAJOR

Requirements

Core curriculum

| | | |
|-------------|--------------------------------------|---|
| MedA 111 | Cultural & Historical Foundations | |
| | OR | |
| MedA 112 | Modern Mass Media | 3 |
| ART 110 | Basic Design | 3 |
| ART 217 | Computer Graphics Design | |
| | OR | |
| ART 218 | Computer Graphics Illustration | 3 |
| ART 226 | Photography I | 3 |
| CS 120 | The Information Era | 3 |
| CS 205 | Programming for Multimedia | 3 |
| MedA 260 | Elements of Multimedia Design | 3 |
| MedA 265 | Web Design | 3 |
| MedA 305 | Designing for Electronic Media | 3 |
| MedA 311 | Broadcast Writing | |
| | OR | |
| ENG 207/208 | Creative Writing | 3 |
| MedA 350 | Integrated Media Production | 3 |

| | | |
|----------|--|----|
| MedA 360 | Integrated Media Project Design | 3 |
| MedA 434 | Mass Communication Law & Regulation | 3 |
| MedA 495 | Senior Project I | 2 |
| MedA 496 | Senior Project II | 2 |
| | | — |
| | | 43 |

MEDIA ARTS MINORS

Requirements

GENERAL MEDIA ARTS

| | | |
|----------|--|----|
| MedA 112 | Media in Modern Society .. | 3 |
| MedA 225 | Introduction to Black & White Photography | 3 |
| MedA 240 | Mass Media Writing | 3 |
| MedA 250 | Elements of Production | 3 |
| MedA 260 | Elements of Multimedia Design | 3 |
| MedA 311 | Writing for Electronic Media | 3 |
| MedA 434 | Mass Communication Law and Regulation | 3 |
| | | — |
| | | 21 |

JOURNALISM

| | | |
|----------|--|----|
| MedA 111 | Cultural and Historical Foundations | 3 |
| MedA 112 | Media in Modern Society .. | 3 |
| MedA 225 | Introduction to Black & White Photography | 3 |
| MedA 240 | Writing for the Print Media | 3 |
| MedA 340 | Reporting | 3 |
| MedA 363 | Publication Editing and Design | 3 |
| MedA 434 | Mass Communication Law and Regulation | 3 |
| | | — |
| | | 21 |

FILM STUDIES

| | | |
|--|--------------------------------------|----|
| MedA 120 | Survey of Film | 3 |
| MedA 301 | Special topics: Film Theory | 3 |
| At least 6 hours from MedA 401 | | 6 |
| An additional three courses to be chosen from MedA 401 (Film Topics), and film specific courses offered by other depart- ments including, but not limited to, English, Politics and World Languages. Course list must be approved by director of film studies, Johanna Hibbard | | 9 |
| | | — |
| | | 21 |

FILM & VIDEO PRODUCTION

| | | |
|------------------|---------------------------------|-----------|
| MEDA 120 | Survey of Film | 3 credits |
| MEDA 250 | Elements of production | 3 credits |
| MEDA 320 | Studio Production | 3 credits |
| MEDA 330 | Field Production | 3 credits |
| MEDA 205 Editing | | |
| OR | | |
| MEDA 321 | Sound Design | 3 credits |

Choose two from:

| | | |
|----------|---------------------------------------|-----------|
| MEDA 301 | Special Topics, film theory | 3 credits |
| MEDA 302 | Documentary | 3 credits |
| MEDA 401 | Special Topics, topographies | 3 credits |
| MEDA 422 | Media Criticism | 3 credits |
| MEDA 434 | Media Law | 3 credits |

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INTEGRATED MEDIA

| | | |
|-------------------------|--|---|
| CS 120 | The Information Era | 3 |
| MedA 260 | Elements of Multimedia Design | 3 |
| ART 217 or 218 | Computer Graphics | 3 |
| MedA 305 | Designing for Electronic Media | 3 |
| MedA 434 | Mass Media Law and Regulation | 3 |
| Choose two from: | | |
| MedA 250 | Elements of Production | 3 |
| MedA 265 | Web Design | 3 |
| MedA 360 | Integrated Media Project Design | 3 |
| MedA 350 | Integrated Media Project Development | 3 |
| MedA 422 | Media Criticism | 3 |
| ART 317 or 318 | Computer Graphics II | 3 |
| BA 309 | Marketing | 3 |
| CS 315 | Human Computer Interface Design | 3 |

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COURSE DESCRIPTIONS

Media Arts (MedA)

MedA 101 Fundamentals of Speaking

This course includes study of communication theory and the preparation and delivery of speeches. Students are expected to give a number of relatively short speeches before the class. Emphasis is on the development of speaking skills before an audience. 3 hours.

MedA 110 Introduction to Communication

An introduction to the study of human communication. Communication principles will be applied to interpersonal, small group, public, organizational and mass media contexts. 3 hours.

MedA 111 Cultural and Historical Foundations of Mass Communication

The historical and theoretical development of the American mass media. Emphasis placed on the integration of historical background, contemporary mass communication theory and modern mass communication institutions. 3 hours. Fall.

MedA 112 Media in Modern Society

A study of the mass media in modern America and the world. Focuses on the economic, technological, legal and social aspects of the media. 3 hours. Spring.

MedA 120 Survey of Film

Introduces the study of film by examining its history. Film movements, national cinemas, the development of technology, the evolution of the industry, and major directors are areas that are explored. The course is international in scope, and regular screenings are included. 3 hours. Fall.

MedA 150 Pacific Index

Working for the student newspaper in editorial, reporting, advertising, design and other capacities. P/NP. 1 hour. May be repeated for credit.

MedA 151 Intercollegiate Debate

Participating in intercollegiate forensics as part of the Pacific University team. P/NP. 1 hour. May be repeated for credit.

MedA 152 Pacific Productions: Crewing

Working with Pacific University student video production organization doing video productions. P/NP. 1 hour. May be repeated for credit.

MedA 205 Editing

Explores the relationship of image to image and image to sound, both in terms of aesthetics and hands on manipulation. Students will work on digital editing and traditional 16mm techniques. Editing outside class required. Prerequisite MedA 250. 3 hours.

MedA 225 Introduction to Black & White Photography

A course designed for Communication majors that consists of basic camera handling techniques and black and white darkroom techniques and procedures. The course has a photo-journalistic orientation and assignments are intended for students to photograph for the printed page. Students have an opportunity to have work selected for the University's student paper, the "Index". Students should have a 35mm camera and be prepared to purchase a reasonable amount of film and paper for the course. Non-majors must have consent of the Instructor. 3 hours. Fall.

MedA 240 Writing for the Print Media

An introduction to writing for the print media. Course focuses on the basics of writing for print publication in the form of news and feature stories. Major emphasis upon conciseness and adaptation to the writing situation and material. 3 hours. Spring.

MedA 241 Introduction to Animation

This course will introduce students to the art of animation from a historical, theoretical, and technical standpoint. Students will be introduced to different formats and techniques of animation and will get to experiment with various animation techniques as a part of the coursework. 3 hours. Spring. Alternate years.

MedA 250 Elements of Production

Study of the various elements which combine to create television and film products. Includes production planning, scriptwriting, camera-work, sound, editing, and directing. Some time spent in the studio for application of learned techniques. Prerequisite: MedA 111 or 112 or instructor consent. Not open to first semester freshman. 3 hours. Fall.

MedA 260 Elements of Multimedia Design

Introduces students to the fundamental tools and principles in the development of multimedia applications. Prerequisite: CS 120. 3 hours. Fall.

MedA 265 Web Design

A study and practice in the creation of World Wide Web sites and their underlying technologies. Students will approach web design from both an aesthetic and technical perspective. Advanced technologies will be introduced such as XHTML, XML, JavaScript and Cascading Style Sheets. Historical and theoretical perspectives on the Web will also be addressed. Prerequisite: CS 120. 3 hours. Spring. Alternate years.

MedA 301 Special topics: Film Theory

An intensive study focusing on a singular application of film theory with an emphasis on contemporary cultural and critical theories. Topics vary each term offered. Prerequisite: MedA 120, 250 or consent of instructor. 3 hours. May be repeated for credit. Offered alternate years.

MedA 302 Documentary

The history, philosophy and analysis of the documentary. Explores the documentary as personal essay, autobiography, journalism, political propaganda and social advocacy. Prerequisite: MedA 120 or permission of instructor. 3 hours. Offered alternating years.

MedA 305 Designing for Electronic Media

Introduces students to the advanced tools and techniques associated with the development of interactive media image, text and sound resources. Prerequisite: Art 110, MedA 260. 3 hours. Spring.

MedA 311 Writing for Electronic Media

Various forms of writing for radio and television. Includes extensive practice in preparing scripts for broadcast announcements, commercials, and narrative drama. Prerequisite: MedA 250 and Junior standing. 3 hours. Spring.

MedA 312 Screenwriting

Explores the art and business of screenwriting, acquainting students with various markets and techniques necessary to produce professional quality dramas for film and television. Emphasis will be on character development, story construction, dialogue, conflict and resolution. Prerequisite: Junior standing. 3 hours.

MedA 320 Studio Video

The study of facts and practices of techniques in studio production. Emphasis on writing, lighting and directing. Introduction to post-production techniques. Prerequisite: MedA 250. 3 hours. Spring.

MedA 321 Sound Design

Develops a filmmaker's aesthetic appreciation of the sound element in film/video production. Participants will develop a historical understanding of sound's use in film, see and hear clips from selected works and familiarize themselves with equipment in sound design firsthand through hands-on exercises. Editing outside class is required. Prerequisite MedA 250 3 hours. Spring.

MedA 330 Field Video

The study and practice of Electronic Field Production with an emphasis on non-fiction production and non-linear editing. Prerequisite: MedA 250. 3 hours. Spring. Alternate years.

MedA 340 Reporting

Development of news-gathering and reporting skills, and techniques for the mass media. Prerequisite: MedA 240. 3 hours. Fall Alternate years.

MedA 350 Integrated Media Production

Explores the use of advanced multimedia tools in the development of a significant multimedia project. Students combine the various fundamental principles of design and human-computer interface design to create a single interactive multimedia application for an external client. Prerequisite MedA 360 or consent of instructor. 3 hours. Spring.

MedA 352 Pacific Productions: Production Coordination

Management/production experience with Pacific Productions. Requires Organization/management with Pacific Productions. Prerequisite: MedA 250 and 320 or 330 and instructor consent. P/NP 1-3 hours (Maximum 6 hours). May be repeated for credit.

MedA 360 Integrated Media Project Design

Provides students the opportunity to apply their advanced knowledge of interactive media in the planning and design of a major project. Using industry-standard project management methodologies, Students develop a complete specification to define a interactive solution for an external client. Prerequisite: MedA 260 and consent of instructor. 3 hours. Spring.

MedA 363 Publication Editing and Design

Copy editing and print layout and design techniques with the emphasis on publication editing and design. 3 hours. Fall alternate years.

MedA 370 Advanced Reporting

Investigation of in-depth reporting techniques with specific attention paid to background and analysis and the production of multi-source, multi-part stories. Emphasis is in idea conception and development as well as information gathering and packaging. Prerequisite: MedA 240 and 340. 3 hours. Spring alternate years.

MedA 399 Independent Study

Individual study in Media Arts: The student meets with an advisor for reading and discussion. Prerequisite: Senior standing or consent of the instructor. 2-3 hours. Staff.

MedA 401 Special topics: Film Topographies

In-depth look at various film movements, genres and directors. Will focus on the question of "what is style?" by examining a wide range of formal conventions, filmic genres, narrative movements and industrial production techniques. Topic varies each term offered. May be repeated for credit. Prerequisite: MedA 120, 250 or consent of instructor. 3 hours.

MedA 422 Media Criticism

In-depth analysis of the relationship of the mass media and the political, social, philosophical and moral aspects of modern society. Includes historical and contemporary aspects of the modern mass media. Prerequisite: Senior standing, MedA 111, or 112 or consent of instructor. 3 hours. Spring.

MedA 425 Media Topics

In-depth study of specific areas in mass communication and mass media. May be repeated for credit. 3 hours. Offered intermittently.

MedA 434 Mass Communication Law and Regulation

The study of mass communication law and regulation including First Amendment theory, libel, slander, privacy, free press and fair trial, obscenity, FCC regulation and copyright. Prerequisite: Senior standing, and MedA 111 or 112 or consent of instructor. 3 hours. Fall.

MedA 475 Media Internship 1-3 hours. Requires Internship contract.

MedA 480 Internship Seminar

An intensive review of internship experiences with emphasis on the media work experience and the community in which the experience was gained. Prerequisite: Consent of instructor. Approved internship. 1-3 hours. (Student may not receive credit for MedA 475 and MedA 480 for the same internship experience.) P/NP.

MedA 495 Senior Project

The student creates a product of professional quality. 495 is offered in the Fall and is the planning and proposal stage. Prerequisite: Senior standing and consent of the instructor. 2 hours.

MedA 496 Senior Project

Second half of the year-long senior project. Prerequisite: MedA 495. 2 hours.

MEDICINE STUDIES

See Jon Schnorr, Assistant Professor of Biology, Pre Med Advisor

All medical schools require introductory courses in Biology, Chemistry, English, Mathematics and Physics, as well as a year of Organic Chemistry. Medical schools, however, do not require a particular major for admission. A list of courses that will satisfy the admission requirements of nearly all medical schools is given below. Students should consult the Guide to Medical Schools, published by the American Association of Medical Colleges, about specific requirements for schools of interest.

All U.S. medical schools require the MCAT exam for admission. For those students who wish to enter medical school in the year following graduation, it is necessary to complete all of the listed courses by the end of the junior year to ensure adequate background for the MCAT exam. Note that the Biological Sciences portion of the MCAT includes significant amounts of material that are not covered in introductory Biology courses. For this reason, pre-medical students are encouraged to take additional courses, such as biochemistry, cell and molecular biology, and physiology. For those considering a major outside of the field of science, it is important to seek the advice of a faculty member within the major of interest, as well as the advice of the pre-medical studies advisor, Dr. Jon Schnorr, to plan a schedule that will enable all requirements to be met.

Applications to take the MCAT and applications for medical school (through AMCAS) are available on the Web or through the Career Development Center. Most medical schools require evidence of clinical experience prior to applying to medical school. Pre-medical students should begin obtaining clinical experience during their first year. The Career Development Center can assist students in finding an internship or field experience in the medical field.

Required courses:

| | |
|--------------|----------------------------|
| Biol 202 | General Biology I |
| Biol 204 | General Biology II |
| Chem 220 | General Chemistry I |
| Chem 230 | General Chemistry II |
| Chem 310/311 | Organic Chemistry I |
| Chem 320/321 | Organic Chemistry II |
| Engw 201 | Expository Writing |
| Math 226 | Calculus I |
| Physics 202 | Introductory Physics I |
| | OR |
| Physics 232 | General Physics I |
| Physics 204 | Introductory Physics II |
| | OR |
| Physics 242 | General Physics II |

Strongly recommended courses:

| | |
|----------|-------------------------------|
| Biol 320 | Cell Biology |
| Biol 330 | Genetics |
| Biol 400 | Molecular Biology |
| Biol 470 | Animal Physiology |
| Chem 380 | Biochemistry |
| Math 207 | General Elementary Statistics |

MUSIC

Scott Tuomi, *Chair, Associate Professor*
Michael Burch-Pesses, *Professor*
George Harshbarger, *Professor*
Bryce Seliger, *Assistant Professor*
Tim Stephens, *Professor*
Heather Blackburn, *Instructor in Cello*
Brian Casey, *Instructor in Bass*
Janet Coleman, *Accompanist*
Steve Conrow, *Instructor in Trumpet*
Arlyn Curtis, *Instructor in Bass*
Cherise da Cuhna, *Instructor in Piano*
Alena Dubauskaya, *Accompanist*
Karen Gifford, *Instructor in Flute*
Vicki Gunn, *Instructor in Violin/Viola*
Alan Juza, *Instructor in Oboe*
Nicole Kim, *Accompanist*
Steve Kravitz, *Instructor in Woodwinds*
Bernd Kuehn, *Early Music Ensemble*
Konstantin Kvach, *Instructor in Voice*
Karen Mallory, *Instructor in Voice*
Doug McMickle, *Instructor in Guitar*
Lois Nelson, *Accompanist*
Angela Niederloh, *Instructor in Voice*
Jeff Peyton, *Instructor in Percussion & MIDI*
Anne Reed, *Instructor in Voice*
Rhonda Ringering, *Accompanist*
Kelli Brown Stephens, *Instructor in Piano*
John Stowell, *Instructor in Jazz Guitar*
Charlie Violet, *Instructor in Trombone/Tuba*
Kathy Walden, *Instructor in Strings*
Santha Zaik, *Instructor in Horn*

The Department of Music is accredited by the National Association of Schools of Music. It is also accredited by the Oregon Teacher Standards and Practices Commission and fulfills five major functions within the University:

1. provides access to courses in music for all students of the University regardless of their previous involvement or experience.
2. provides opportunities for active music-making in a variety of instrumental and vocal ensembles for all interested students, faculty, staff and members of the community.
3. prepares elementary and secondary teachers of music.
4. provides applied music instruction in voice, wind, percussion, string and keyboard instruments and offers degrees with performance emphasis in voice and piano.
5. prepares students for graduate study in music.

INTRODUCTORY COURSES & COURSES FOR GENERAL STUDENTS

The Music Department offers the following General Studies courses for students with little or no previous experience in music.

Note: All Music courses count toward satisfying the Arts requirement in the Academic Core:

| | | |
|--------------------------------|---------------------------------------|----------|
| Mus 101 | Introduction to Classical Music | 3 |
| Mus 102 | History of Jazz and Rock ... | 3 |
| Mus 110 | Music Notation & Songwriting | 3 |
| Mus 131 | Introduction to MIDI Lab .. | 1 |
| Mus 181 | Class Voice I | 1 |
| Mus 182 | Class Voice II | 1 |
| Mus 183 | Class Piano I | 1 |
| Mus 184 | Class Piano II | 1 |
| Mus 187 | Class Guitar I | 1 |
| Mus 188 | Class Guitar II | 1 |
| Mus 240 | Introduction to World Music | 3 |
| All performing ensembles | | 0 or 1 |
| Private instruction | | 0.5 or 1 |

Ensembles

Open to all students. See course descriptions.

| | |
|---------|--------------|
| Mus 150 | Choral Union |
| Mus 151 | Jazz Band |
| Mus 158 | Orchestra |

Mus 159 Chamber Ensembles
(various)

Mus 163 Chamber Singers

Mus 165 Symphonic Band

Mus 167 Jazz Choir

Ensembles may be counted as upper-division credits in the junior and senior years.

Ensembles are activity courses. 3 credits may count as satisfying the Arts requirement in the Academic Core; 8 more credits may be taken as activity courses toward the minimum total of 120 credits for graduation. Beyond that, except for Music majors, they are considered excess credits.

Music Department Mission Statement and Goals

The Music Department at Pacific University seeks to prepare students:

- for lifelong interest, participation and enjoyment in music;
- to become informed audience members (intelligent listeners and evaluators) of music and musical performances;
- to be functionally literate in the language of music-reading, writing, speaking and listening;
- to pursue active music-making, both vocally and instrumentally;
- to create their own music;
- to discover relationships between music, the other arts and disciplines other than the arts;
- to broaden and deepen their understanding of the music of our cultural heritage;
- to increase their appreciation of musical systems and traditions of cultures other than our own.
- to become more proficient in the music technologies appropriate to their areas of musical interest;
- to prepare for careers in elementary and secondary music education;
- to pursue rigorous and dedicated activity as performers specializing in voice or piano;
- to prepare for graduate study in music composition, music education or performance.

MUSIC PROGRAMS

The Music Department offers:

- Bachelor of Arts in Music
- Bachelor of Arts in Music: Performance Emphasis (voice or piano)
- Bachelor of Arts in Music Education
- Minor in Music

Music majors are allowed to apply a maximum of 60 credits in Music toward graduation. The remaining 60 credits must be from other academic disciplines. To conveniently facilitate compliance with this regulation, Music majors are encouraged to complete an academic minor in another discipline.

BACHELOR OF ARTS IN MUSIC

| | |
|---|-----------|
| Music Theory: Mus 111, 111L, 112, 112L, 211, 211L, 212, 212L | 16 |
| Music History: any three of Mus 321, 322, 323, 324 | 9 |
| Ensembles: Large ensemble appropriate to the student's instrument or voice (Mus 150, 163, 165) each semester in residence. | 8 |
| Applied Music: Private instruction with a Pacific University instructor (MUS 171, 172, 271, 272, 371, 372, 471, 472) every semester in residence. 1 cr. each | 8 |
| Piano: Mus 185* and 186*; or pass the Piano Proficiency Test | 2 |
| Recital Attendance: Mus 100 (0-credit) seven semesters | 0 |
| Electives in Music: | 9 |
| Music Capstone: Mus 495 | 2 |
| Total credit-hours | 54 |

At the end of the second year of music study, the progress of each Music major or minor will be assessed to evaluate the student's potential to complete upper-division music requirements. Music courses fulfilling requirements in the Music Major or music minor must be passed with a grade of "C-" or higher.

*Waived for students who pass the Piano Proficiency Test without enrolling in these courses.

BACHELOR OF ARTS IN MUSIC: PERFORMANCE EMPHASIS

(for students whose primary instrument is voice or piano)

Students choosing this degree option must complete all of the requirements for the Bachelor of Arts in Music except electives in Music and Mus 495 Music Capstone. The following additional requirements must be satisfied.

| | |
|--|--------|
| Music History (one additional course of Mus 321, 322, 323, 324, 326, 427, 428) | 3 |
| Pedagogy Mus 490 or 491, as appropriate | 2 |
| Recitals Mus 394 and 494 | 3 |
| Mus 351 Diction for Singers (voice majors only) | 1 |
| Conducting Mus 282 | 1 |
| Total additional credit-hours in Music | 9 (10) |

Vocal performance majors are also encouraged to take courses in European languages, including German, French and Italian, Theatre 110 Acting I: Fundamentals, and any introductory course in Dance.

BACHELOR OF ARTS IN MUSIC EDUCATION

Students choosing this degree option must complete all of the requirements for the Bachelor of Arts in Music except Electives in Music. The following additional requirements must be satisfied.

| | |
|--|----|
| Orchestration: Mus 310 | 3 |
| Non-western Music: Mus 240 | 3 |
| Techniques and Methods: The appropriate four of: * | |
| MUS 181, 233, 234, 235, 236 | 4 |
| Music Education: Mus 301; and 302 or 303, as appropriate | 6 |
| Conducting Mus 282; and 482 or 483, as appropriate | 3 |
| Total additional credit-hours in Music | 19 |

A Music education major is to take the methods courses not representing the family of his or her major instrument or voice.

A student is excused from one credit of the ensemble requirement if enrolled in Educ 475 Student Teaching.

Note: This curriculum does not include teaching licensure/certification. Students majoring in Music Education and seeking licensure to teach in public schools may elect one of two paths: 1) They may complete licensure courses through the College of Education concurrently with or following undergraduate study (34 credits), typically requiring an additional year beyond the baccalaureate degree, or degree and licensure in five years; or 2) pursue a Master in Arts in Teaching degree (twelve-month program) which includes licensure requirements. Licensure requirements can be found in the Pacific University College of Arts and Sciences Catalog under Education/Required Professional Courses for Early Childhood & Elementary School Authorizations or Middle School and High School Authorizations, as appropriate; and Master of Arts in Teaching requirements can be found in the College of Education section of the Pacific University Graduate and Professions Catalog.

MINOR IN MUSIC

Requirements

| | |
|--|---|
| Music Theory: Mus 111, 111L, 112, 112L .. | 8 |
| Music History: any two of Mus 321, 322, 323, 324 | 6 |
| Piano: Mus 185* and 186*, and pass Piano Proficiency Test | 2 |
| Recital Attendance: Mus 100 (0-credit) four semesters | 0 |
| Applied Music on student's primary instrument or voice: four semesters of 0.5 cr. each | 2 |
| Ensembles (large ensemble appropriate to instrument/voice, Mus 150, 158, 163, 165) | 4 |

*Waived for students who pass the Piano Proficiency Test without enrolling.

| | |
|--------------------|----|
| Total credit-hours | 22 |
|--------------------|----|

OTHER REQUIREMENTS

Students of piano at the 300-level or above are required to provide designated departmental accompanying, which substitutes for major ensemble participation. Pianists accompanying a departmental ensemble are to enroll for that ensemble. Those engaged in other departmental accompanying are to enroll in Mus 280 Accompanying.

Transfer students and students in study-abroad programs who major or minor in Music at Pacific University must complete Mus 100 Recital Attendance and enroll in the major ensemble appropriate for the student's instrument or voice each semester in residence or until these requirements are met. Applied Music requirements are met only by departmental examination.

COURSE DESCRIPTIONS

Music (Mus)

Mus 100 Recital Attendance

All Music majors must enroll in recital attendance for seven semesters and attend at least seven performances per semester. All Music minors must enroll in recital attendance for four semesters and attend at least five performances per semester. Students enrolled in Mus 111, 112, 211, or 212 (except non-music majors/minors) must also register for Mus 100. Prerequisite: Must be Music major or minor. 0 hours.

Mus 101 Introduction to Classical Music

This course pursues the development of listening skills, principally with respect to the traditions of Western Classical Music. Emphasis is placed on the development of an aural sense of historical, stylistic, and idiomatic contexts. Previous musical knowledge or experience is neither required nor assumed. 3 hours. Offered each year.

Mus 102 History of Jazz and Rock

Surveys the impact of jazz and rock music from both the social/historical and the musical points of view. Emphasis is placed on historical context and development of aural skills. The time frame will be 1900 to the present. 3 hours. Offered Winter III.

Mus 110 Music Notation and Songwriting

Introduction to the expressive elements of music and musical notation. Topics include intervals, scales, keys, melody, rhythm, harmony, texture, and form. Recommended as preparation for the music theory sequence, elementary teachers, and for aspiring songwriters. Projects will include students' original compositions. No previous musical background necessary. 3 hours. Offered each semester.

Mus 111 Music Theory I

Introductory studies in harmony and counterpoint. Emphasis placed on scales, intervals, triads, non-harmonic tones and seventh chords. Projects will include students' original compositions. Prerequisite: placement exam or consent. Corequisite: concurrent enrollment in Mus 111L and Mus 100. 3 hours. Offered fall semester.

Mus 111L Music Theory Lab I

Connecting sound and notation through analysis, aural dictation and sight singing. For music majors. Corequisite: concurrent enrollment in Mus 111. 1 hour. Offered fall semester.

Mus 112 Music Theory II

A continuation of Mus 111. Emphasis is on the harmonic, melodic, rhythmic and basic formal procedures of the common practice period. Primary topics will be secondary dominants, modulation, Neapolitan and Augmented sixth chords, modulation and analysis. Projects will include students' original compositions. Prerequisite: Mus 111 or consent. Corequisite: concurrent enrollment in Mus 112L and Mus 100. 3 hours. Offered spring semester.

Mus 112L Music Theory Lab II

Connecting sound and notation through analysis, aural dictation and sight singing. Corequisite: concurrent enrollment in Mus 112. 1 hour. Offered spring semester.

Mus 131 Introduction to MIDI Lab

Introduction to Musical Instrument Digital Interface (MIDI) fundamentals and its practical implications for music education and composition. Basic Macintosh computer skills required. Prerequisite: consent of instructor. 1 hour. Offered both semesters.

Mus 150 Choral Union

Rehearsals and performance of traditional choral literature for large, mixed choir. Open to all students, faculty, staff and members of the community. Fundamentals of vocal tone production and musicianship. Public performance required. No audition. 0 or 1 hour per semester. May be repeated for credit.

Mus 151 Jazz Band

A jazz band open to all University students. The band regularly performs with regionally and nationally-known soloists. Repertoire ranges from early Jazz and Big Band to Jazz/Rock fusion. May be repeated for credit. Prerequisite: audition. 0 or 1 hour.

Mus 158 Orchestra

An instrumental ensemble open to University students, faculty, staff, and other interested members in the community. The orchestra performs major concerts of standard orchestral literature each semester and for other various events. Prerequisite: high school level or better ability to play a string, wind or percussion instrument. 0 or 1 hour. May be repeated for credit.

Mus 159 Chamber Ensembles

Small ensembles of many different instrumentations and voices open to Pacific students, faculty, staff, and other interested members in the community. Works from all periods and of all styles are studied. It is the responsibility of the students to form an appropriate ensemble and arrange for the appropriate faculty member to provide coaching prior to enrolling in the course. Prerequisite: Music Department Chair consent. Mus 159-06, -07 and -08 require an audition. 0 or 1 hour. May be repeated for credit.

Mus 159-01 Chamber Ensemble – Brass**Mus 159-02 Chamber Ensemble – String****Mus 159-03 Chamber Ensemble – Woodwind****Mus 159-04 Chamber Ensemble – Percussion****Mus 159-05 Chamber Ensemble – Voice****Mus 159-06 Collegium Musicum – Vocal****Mus 159-07 Collegium Musicum – Instrumental****Mus 159-08 Stage Singers' Workshop****Mus 159-09 Combination (3 or more)****Mus 163 Chamber Singers**

A select mixed ensemble that performs regularly both on campus and off campus. Open to all students. Rehearsal and performance of choral literature from the Renaissance to the present. Three to five major performances per year, plus participation in choral festivals and tour on alternate years. Prerequisite: audition. 0 or 1 hour per semester. May be repeated for credit.

Mus 165 Symphonic Band

A large instrumental ensemble open to University students, faculty, staff, and other interested members in the community. The band performs major concerts of standard wind literature each semester and for other various events. Prerequisite: high school level or better ability to play a wind or percussion instrument. 0 or 1 hour. May be repeated for credit.

Mus 167 Jazz Choir

This ensemble is a performance outlet for singers, both majors and non-majors, who wish to explore jazz from a vocal perspective. Performances will be both on and off campus and participation in Northwest vocal jazz festivals is also planned. Prerequisite: Audition. 0 or 1 hour. May be repeated for credit.

Mus 171-2, 271-2, 371-2, 471-2 Applied Music: Private Lessons

Private instruction is available on all band and orchestral instruments, piano, organ, guitar and voice for all University students, whether they are Music majors or minors or not, for an additional fee. The fee is waived for Music majors and minors up to the number of credit-hours required for their course of study. The _71_72 sequence of courses is proficiency-based using nationally accepted criteria for advancement through the sequence of levels. Exact course requirements will be indicated on course syllabi and determined by the instructor to best serve the student's individual needs and experience. Music majors and minors taking private instruction are required to participate in the appropriate large ensemble for their

primary instrument, and individual daily practice is required. Lessons are letter graded. Applied Music jury exams are required of all Applied Music students at the end of each semester, except Mus 171. Music majors and minors enrolled in Applied Music courses 271 and higher are required to perform in a Student Performance forum (student recital) each semester. Full-hour weekly lessons, earning one credit-hour per semester, are the norm for Music majors and minors, but half-hour lessons, earning one-half credit hour, are available for a lower fee. Course credit for full-hour or half-hour lessons is based on twelve lessons per semester. See the Music Department Chair for course section assignment when enrolling for Applied Music. Prerequisites: none for 171; 271 and higher require recommendation of the faculty, based on progress demonstrated in the jury exam. 0.5 or 1.0 credit-hours per semester.

Mus 181 Class Voice I

A course designed for non-music majors to improve their singing skills. Emphasis is placed on improving the vocal technique, breath support, and tone quality of each member of the class in a no-pressure, supportive group situation. 1 hour. Offered Fall semester.

Mus 182 Class Voice II

A continuation of Mus 181, this course explores vocal technique for those with some previous knowledge of singing who seek improvement as soloists and/or choral singers. Students study both classical and contemporary (musical theatre) literature and perform selections in a supportive group environment. Prerequisite: Mus 181. 1 hour.

Mus 183 Class Piano I

Class piano for non-music majors/minors with little or no basic music or piano skills; scales, arpeggios, chords, and reading skills necessary for the playing of piano for personal enjoyment. 1 hour.

Mus 184 Class Piano II

A continuation of Mus 183. Prerequisite: Mus 183 or consent. 1 hour.

Mus 185 Functional Piano I

Class piano for music majors/minors with little or no basic piano skills; scales, arpeggios, chords, and reading skills necessary for the playing of simple accompaniments in the public school or private studio. Prerequisite: placement exam or consent. 1 hour.

Mus 186 Functional Piano II

A continuation of Mus 185. Prerequisite: Mus 185 or consent. 1 hour.

Mus 187 Class Guitar I

An examination of various techniques and styles of guitar playing including chord formations, positions, tuning and tone quality. 1 hour.

Mus 188 Class Guitar II

A continuation of Mus 187. 1 hour.

Mus 191 Beginning Jazz Improvisation I

Techniques and materials used in the performance of basic instrumental jazz styles such as the Blues and Standards. Studies will include jazz theory, keyboard harmony, solo transcription, and required listening. Prerequisite: Mus 112 or consent. 1 hour.

Mus 205 Creativity and Disability in Art and Music

This course will introduce the student to the topic of the artistic process and the impact of disability on that process. The course will investigate the intersection between creativity and disability, whether the disability is physical or psychological. By examining the lives and the art works of selected artists and musicians the class will discuss what happens to creative production when there is a challenge of disability in the artist's life and how disability may or may not affect an individual's artistic vision. 3 hours. Meets disability minor requirement. Does not fulfill Arts core requirement.

Mus 211 Music Theory III

A continuation of Mus 112. Emphasis is on the melodic, harmonic, rhythmic, and basic formal procedures of selected Medieval, Renaissance, Baroque, Classical and Romantic schools and styles. Projects will include students' original compositions. Prerequisite: Mus 112 or consent. Corequisite: concurrent enrollment in Mus 211L and Mus 100. 3 hours. Offered fall semester.

Mus 211L Music Theory Lab III

Connecting sound and notation through analysis, aural dictation and sight singing. Corequisite: concurrent enrollment in Mus 211. 1 hour. Offered fall semester.

Mus 212 Music Theory IV

A continuation of Mus 211. This course examines the basic harmonic, melodic,

rhythmic, and formal procedures of late 19th and 20th century music;. Primary topics will be the extension of tonality, chromaticism, impressionism, quartal harmony, atonality, serialism, electronic media, and minimalism. Projects will include students' original compositions. Prerequisite: Mus 211. Corequisite: concurrent enrollment in Mus 212L and Mus 100. 3 hours. Offered spring semester.

Mus 212L Music Theory Lab IV
Connecting sound and notation through analysis, aural dictation and sight singing. Corequisite: concurrent enrollment in Mus 212. Offered spring semester. 1 hour.

Mus 233 String Methods
Laboratory classes in playing and teaching the string instruments of the orchestra. Violin, viola, cello or bass are presented with members of the class playing the instrument. Particular emphasis is given to the techniques of strong class teaching. Offered alternate years. Prerequisite: Music Major or consent. 1 hour.

Mus 234 Woodwind Methods
Laboratory classes in playing and teaching the woodwind instruments. Flute, oboe, clarinet, saxophone, and bassoon are presented with emphasis on class teaching procedures, positions, and tone production, the care and minor repairs of the instruments. Prerequisite: Music Major or consent. Offered alternate years. 1 hour.

Mus 235 Brass Methods
Laboratory classes in playing and teaching trumpet, trombone, baritone, French horn and tuba. Emphasis is placed on class teaching procedures, positions, tone production, and embouchure. Offered alternate years. Prerequisite: Music Major or consent. 1 hour.

Mus 236 Percussion Methods
Laboratory classes in playing and techniques for teaching, tuning, and care of idiophones, and membranophones. Offered alternate years. Prerequisite: Music Major or consent. 1 hour.

Mus 240 Introduction to World Music
Through lecture, discussion, structured listening and participation, students will explore various music cultures throughout the world including those in Japan, Eastern Europe, Latin America, Africa, Indonesia and India. In addition, the course includes an examination of Afro-American and Native American music as well as other less com-

monly known North American forms and genres. Meets cross-cultural requirements. 3 hours.

Mus 280 Accompanying
A basic study of accompanying technique for both instrumental and vocal literature. The course addresses problems of balance, ensemble, texture, and interpretive style. Prerequisite: piano major or minor and consent. May be repeated for credit. 1 hour.

Mus 282 Basics of Conducting
Introduction to conducting gestures, movement and basic analysis of scores for both vocal and instrumental ensembles. Students will conduct other musicians with graded verbal and video feedback from the instructor. Prerequisite: Mus 112. This class is a prerequisite for Mus 482 and/or Mus 483. 1 hour. Offered alternate years.

Mus 301 Music in the Elementary School
An examination of techniques and materials for teaching classroom vocal and instrumental music in the elementary school for the prospective music specialist. Emphasis on lesson planning. Orff, Kodaly methods; the rote song, reading-readiness, the reading song, the rhythm program, the listening lesson, and creative music. Observation of music-making in the elementary school classroom and directed teaching. Prerequisite: Mus 112 or consent. 3 hours. Offered alternate years.

Mus 302 Music in the Secondary School (Choral)
Selection and presentation of vocal music for the high school and middle school; conducting skills; examination of typical problems encountered in high school music ensembles; methods and materials for classroom as well as individual teaching; introduction to basic vocal techniques; curriculum development, and organizational practices. Observation. Prerequisite: Mus 212 and 282 or consent. 3 hours. Offered alternate years.

Mus 303 Music in the Secondary School (Instrumental)
Selection and presentation of instrumental music for the high school; conducting skills; examination of typical problems encountered in high school music ensembles; methods and materials for classroom as well as individual teaching; introduction to basic instrumental techniques; curriculum development, and organizational practices. Observation.

Prerequisite: Mus 212 and 282 or consent. 3 hours. Offered alternate years.

Mus 310 Orchestration and Arranging

Techniques of scoring and transcribing for various combinations of orchestral and band instruments. Offered alternate years. Prerequisite: Mus 212 or consent. 3 hours.

Mus 311 Counterpoint

Intensive studies in contrapuntal techniques and styles, species and modal, as they developed in music history. Prerequisite: Mus 212 or consent. Offered on an arrangement basis. 3 hours.

Mus 321 Music History: Antiquity to 1585

A study of musical development beginning in Ancient Greece and including Medieval, Renaissance, and early Baroque periods. Attention will also be given to the relationships among music, the visual arts, and historical events. Prerequisite: Mus 112 or consent. 3 hours. Offered Fall semester alternate years.

Mus 322 Music History: 1585-1809

A study of works from the early Baroque to the late Classic. The approach will be similar to that described for Mus 321 above. Prerequisite: Mus 112 or consent. 3 hours. Offered Fall semester alternate years.

Mus 323 Music History: Classic/Romantic

A study of works from the late Classic, through the Romantic to the early 20th century. The approach will be similar to that described for Mus 321 above. Prerequisite: Mus 112 or consent. 3 hours. Offered alternate years.

Mus 324 Music History: The Twentieth Century

Surveys the major trends in twentieth-century compositional thought and practice: chromatic tonality, atonality, serialism, neo-classicism, nationalism, avant-gardism, etc. Emphasis will be on various composers, approaches to the problems of tonal language. Prerequisite: Mus 112 or consent. 3 hours. Offered alternate years.

Mus 326 Song Literature

Surveys the development of the art song, beginning with the troubadour and trouvère songs of the 13th century and extending through contemporary techniques in the genre. Score study and in-class performance required. An elective course for vocal performance

majors/minors. Prerequisite: Mus 272, and Mus 323, 324 or consent. 3 hours. Offered Fall semester alternate years.

Mus 351 Diction for Singers

An introduction to International Phonetic Alphabet and its application to the pronunciation of English, Italian, German, French, and Ecclesiastical Latin. A required course for vocal performance majors. Prerequisite: Mus 171 and 172 or consent. 1 hour. Offered Spring semester alternate years.

Mus 391 Piano Literature

A chronological study of standard and lesser known works for solo piano, from pre-Bach to the present. Consideration of editions and library techniques included along with regular short performances by class members. Prerequisite: piano major or minor and consent. 2 hours.

Mus 394 Junior Recital

Candidates for the degree Bachelor of Music in Performance Studies are required to research and perform one-half of a recital (one-half hour minimum). This course is also open to other majors and to qualified non-majors enrolled in Performance Studies. 1 hour per semester.

Mus 411 Composition

Techniques of composition and arranging for various combinations of instruments and voices. Prerequisite: Mus 212 or consent. May be repeated for no credit. 3 hours.

Mus 427 History of the Cantata and Oratorio

Examines the primary cantata and oratorio repertoire through in-depth analysis, listening, and concert attendance. Both sacred and secular works will be examined, beginning with examples from the 16th century and extending through 20th century works in the idiom. An elective class for music majors/minors. Offered by arrangement. Prerequisite: Mus 112, 323, 324, or consent. 3 hours.

Mus 428 History of Opera

A comprehensive study tracing the development of opera and music drama through analysis, listening, and performance attendance. The course will concentrate on works beginning with Claudio Monteverdi and continue through modern innovations in the genre. An elective class for music majors/minors. Offered Fall semester alternate years. Prerequisite: Mus 112, 323, 324, or consent. 3 hours.

Mus 482 Instrumental Conducting
A detailed study of conducting techniques and instrumental rehearsal procedures. The approach will be through music analysis, and will include beat patterns, body movements, and baton technique. Students will work with instrumental ensembles and conduct a work in concert. Prerequisite: Mus 212, Mus 282 or consent. 2 hours. Offered alternate years.

Mus 483 Choral Conducting
A study of conducting techniques and choral rehearsal procedures to include the teaching of vocal production, breathing, diction, basic musicianship, and performance. Choral literature for ensembles of various age groups and experience will also be examined. In-class conducting and observation of choral performances. Score study. Prerequisite: Mus 212, Mus 282 or consent. Concurrent enrollment in a Pacific University choral ensemble is required. 2 hours. Offered alternate years.

Mus 490 Introduction to Vocal Pedagogy
Laboratory classes in singing and teaching of voice. Emphasis is placed on class teaching procedures, tone production, and healthy singing techniques. Prerequisite: consent of instructor. Offered Spring semester alternate years. 2 hours.

Mus 491 Piano Pedagogy
Provides pianists with the skills to teach reading, techniques, and basic musical expression to beginning, intermediate, or advanced piano students. Prerequisite: piano major or minor. 2 hours.

Mus 494 Senior Recital
Candidates for the degree Bachelor of Music: Performance Emphasis are required to research and perform a full-length public recital of music (one hour minimum) from various periods during their senior year. Open to other students enrolled in Applied Music only with approval of the Music Department. Corequisite: Concurrent enrollment in Mus 471 or 472. 2 hours.

Mus 495 Music Capstone
The culminating event in undergraduate music study, Music Capstone is typically a half recital, meeting requirements similar to those of Mus 394. In consultation with the Music faculty, other formats such as lecture-recital, demonstrations, composition, or written thesis may be acceptable. Prerequisites: Senior standing and approval of the Music faculty. Corequisite: Concurrent enrollment in Mus 471 or 472. 2 hours.

OCCUPATIONAL THERAPY

Admission to the School of Occupational Therapy for qualified students most often occurs once the student has earned a bachelors degree. However, it is possible for qualified students (i.e., students who have completed admission prerequisites) who have completed three years of undergraduate study to be considered for admission in this 3/3 (3 undergraduate/3 graduate years) option. Students who enter without a bachelor's degree will receive a Bachelor of Science degree in Human Occupation following completion of their first year in the graduate curriculum.

Students with an interest in occupational therapy should obtain a current brochure from the Office of Admission for Professional Programs. The brochure is the most current document outlining requirements and prerequisites. Students with questions regarding admission to the School are encouraged to talk with the Office of Admissions for Professional Programs (Ext. 2900).

Pre-Occupational Therapy (Pre-OT) is not an undergraduate major, so students interested in becoming occupational therapists are free to choose any major, as long as they also complete the prerequisite courses listed below. Students who elect to major in a science will need to take more math and science courses in the first semesters. The following prerequisite courses are designed to promote the student's success in the professional program.

The school of Occupational Therapy offers a 30-month entry-level master's degree program. The curriculum consists of academic and laboratory experiences integrated with both part-time and full-time professional field work. Entrance to the program is in the fall semester only. Applications are usually due by December 1.

Prior to entrance, applicants must have:

- Acquired a bachelors degree and all specified School of Occupational Therapy prerequisite coursework; OR

- For the 3/3 option: Completed a minimum of three academic years of college coursework (90 semester hours) including a minimum of four (4) upper-division courses, the specified School of Occupational Therapy prerequisites coursework, and Pacific University bachelor core requirements.
- It is recommended that applicants have observed in occupational therapy practice settings for at least 40 hours and preferably in more than one setting to foster a more complete understanding of the profession.

Requirements

Natural Sciences 12 hours

Bio 202, General Biology I

Bio 224, Human Anatomy with Lab

Bio 240, Human Physiology with Lab

Physics 202/204 is strongly recommended, or Chem 220/230

Social Sciences 12 hours

Must include courses from minimally two (2) of the following areas: psychology, sociology, anthropology, politics, government, business and economics. In these areas, include a life-span development course and an abnormal psychology course.

Social Science courses must include:

- courses in human growth and development, preferably across the life-span (Psy 180 and/or Psy 311);
- courses which promote an understanding of both normal and abnormal adaptive development at both the individual and group level (Psy 150 and/or Psy 160 and/or Psy 308 and/or Psy 309 and/or Psy 311)

Writing 3 hours

Engw 201, Expository Writing

OR

Engw 301, Advanced Expository Writing

OR

Engw202, Writing about Disability
(strongly recommended)

Applied Arts 4 hours

Various hands-on courses such as design, ceramics, dance, photography or music.

Communication (debate or public speaking) 2 hours

Meda 110 or Meda 101, or IS 201

Research Design 2 hours

Psy 348 or Soc 300 or Anth 301

A research methodology course that includes a qualitative research component is strongly recommended. Statistics will be accepted as fulfilling the research requirement.

Humanities 6 hours

Must include courses from two (2) of the following areas: literature, religion, history, philosophy, ethics, and history or appreciation of art, music or theater.

Phil 307, Ethics, Medicine, and Health Care is strongly recommended

Comparative Cultural Studies 3 hours

Courses on the cultures of Asia, Africa, Latin America, or aspects of the American culture that draw upon these areas or the cultures of the indigenous peoples of North America.

Physical Fitness (may be taken "pass/no pass") 2 hours

Medical Terminology ... Credit/No Credit
(Obtainable through School of O.T./Independent Study)

First Aid — A course and certification in First Aid including CPR must be current at time of entrance. This need not be for credit.

Typical first year for Pre-OT students

Fall

HUM 100 First-Year Sem

Language core

Soc 101 or 102

Meda 201

Winter

Humanities Core

Spring

Soc course

Psy 180

Hper 150

Electives

Typical second year for Pre-OT students

Fall

Art

Math 207

Psych 150

Phil 307

Winter

Elective

Spring

Biol 202

Math 125

Hper 150

Engw 202

Medical Terminology

Typical third year for Pre-OT students

Fall

Phy 202

Biol 224

Psy 311

Art

Winter

Elective

Spring

Psy 348/349

Bio 240

HPER 105 (first aid)

Comparative Cultural

Comments: The 3 semester Biology sequence can be started the spring of either the freshman or sophomore year. Chem 220 can be taken instead of Phy 202; either can be taken any fall semester. A second year of a foreign language is encouraged.

OPTOMETRY AND VISUAL SCIENCE

Admission to the College of Optometry, for qualified students, usually occurs after completion of the bachelor's degree. Occasionally, some exceptionally well-qualified students are admissible after three years of undergraduate studies under what is known as the Bachelor's Degree Option. If admitted to the College of Optometry after three years of undergraduate study, those students may receive a Bachelor of Science degree in Visual Science as they are completing their Doctor of Optometry degree. The Visual Science degree is awarded after 90 semester hours of undergraduate study and completion of the first two years of study in the College of Optometry. Students should have a backup plan in place to complete their bachelor's degree in the College of Arts & Sciences in case they are not admitted to the College of Optometry under the Bachelor's Degree Option. Students are encouraged to contact Graduate Admissions early in their undergraduate career for more information and assistance in preparing for admission to the College of Optometry.

OPTOMETRY PREREQUISITES:

Biol 202 (Gen Biol I) and Biol 204 (Gen Biol II) are prerequisites for required Bio courses 8 hrs required
Biol 224 (Human Anatomy with lab)
Biol 240 (Human Physiology with lab)
Biol 308 (Microbiology)(total of 12 hours)
Chem 220; 230; and a complete Organic sequence, either 240 OR 310 and 320; 12 hours (or 16 hours with 2 semester Organic sequence)
Biochemistry (Chem 380) is strongly recommended, but is not required
Math 226 4 hours
Statistics (Math 207 suggested) 3 hours
Phy 202 and 204
OR
Phy 232 and 242 8 hours
Psy 150 3 hours

Engw 201 or 202 (Expository Writing) plus
1 more writing course
(at least 200 level) 6 hours

Engw 200+ (1 more English course, either
writing or literature) 3 hours

VISUAL SCIENCE DEGREE (IN COLLEGE OF OPTOMETRY)

Humanities: 12 hours from at least two
disciplines, including Art, English,
History, Humanities, Languages, Music,
Philosophy, Religion, Speech, Theater, and
First Year Seminar 12 hours
(Prerequisite coursework may fulfill part
of this requirement)

Social Sciences: 12 hours from at least two
disciplines including Anthropology,
Business & Economics, Geography,
History & Political Science,
Psychology, Sociology, but not First Year
Seminar 12 hours
(Prerequisite coursework may fulfill part
of this requirement)

First two years of study in the College
of Optometry.

*Pre-Optometry students are advised to
complete the Arts and Sciences core require-
ments.*

It is wise to begin immediately in Math-
ematics. In addition, strong students take
General Chemistry in their freshman year.
Biology, Chemistry, and Mathematics
together are a heavy freshman science and
math schedule, *to be taken with care*.
Students interested in this schedule for the
spring semester should discuss it first with
their advisors. Students interested in a
physics major should take physics their
freshman year if they have adequate math
background, and can delay their biology
until their sophomore year.

Sample of 4-Year Pre-Optometry Curriculum

Freshman

Fall

Math 125 4

First Year Seminar 4

Chem 220 4

Elective 3

—
15

Winter

Elective 3

—
3

Spring

Biol 202 4

Math 226 4

Chem 230 4

Elective 3

—
15

Sophomore

Fall

Biol 204 4

Phy 202 OR Phy 232 4

Engw 201 3

Foreign Language 3

—
14

Winter

Math 207 3

—
3

Spring

Phy 204 OR Phy 242 4

Engw 200+ 3

Foreign Language 3

Psych 150 3

—
13

Junior

Fall

Biol 224 (Anatomy) 4

Engw 301 3

Electives 9

—
16

Winter

Elective 3

—
3

Spring

| | |
|-----------------------------|-------|
| Biol 240 (Physiology) | 4 |
| Chem 240 (Organic) | 4 |
| Electives | 6 |
| | <hr/> |
| | 14 |

Senior**Fall**

| | |
|-------------------------------|-------|
| Biol 308 (Microbiology) | 4 |
| Electives | 9 |
| | <hr/> |
| | 13 |

Spring

| | |
|---------------------------|-------|
| Chem 380 (optional) | 3 |
| Electives | 9 |
| | <hr/> |
| | 12 |

***Note:**

Biol 202 is a prerequisite for Biol 204

Biol 204 is a prerequisite for Biol 308

Math 122 is a prerequisite for Math 207 and Chem 220

Math 125 is a prerequisite for Chem 230 and Phy 202

Math 226 is a co-requisite for Phy 232

Sample of 3-Year Pre-Optometry Curriculum**Freshman****Fall**

| | |
|--------------------------|-------|
| Arts/Soc Science | 3 |
| Math 125 | 4 |
| First Year Seminar | 4 |
| Chem 220 | 4 |
| | <hr/> |
| | 15 |

Winter

| | |
|----------------|-------|
| Elective | 3 |
| | <hr/> |
| | 3 |

Spring

| | |
|--|-------|
| Biol 202 | 4 |
| Math 226 | 4 |
| Chem 230 | 4 |
| Electives: Arts/Soc. Sci./Humanities | 3 |
| | <hr/> |
| | 15 |

Sophomore**Fall**

| | |
|--------------------------|-------|
| Biol 204 | 4 |
| Phy 202 OR Phy 232 | 4 |
| Engw 201 | 3 |
| Foreign Language | 3 |
| | <hr/> |
| | 14 |

Winter

| | |
|----------------|-------|
| Elective | 3 |
| | <hr/> |
| | 3 |

Spring

| | |
|-----------------------------|-------|
| Phy 204 OR Phy 242 | 4 |
| Math 207 (Statistics) | 3 |
| Foreign Lang | 3 |
| Engw 301 | 3 |
| | <hr/> |
| | 16 |

Junior**Fall**

| | |
|--------------------------------|-------|
| Biol 224 (Human Anatomy) | 4 |
| Biol 308 (Microbiology) | 4 |
| Electives | 6 |
| | <hr/> |
| | 14 |

Winter

| | |
|----------------|-------|
| Elective | 3 |
| | <hr/> |
| | 3 |

Spring

| | |
|-----------------------------------|-------|
| Biol 240 (Human Physiology) | 4 |
| Chem 240 (Organic) | 4 |
| Electives | 6 |
| | <hr/> |
| | 14 |

****Note:**

Biol 202 is a prerequisite for Biol 204

Biol 204 is a prerequisite for Biol 308

Math 122 is a prerequisite for Math 207 and Chem 220

Math 125 is a prerequisite for Chem 230 and Phy 202

Math 226 is a co-requisite for Phy 232

PEACE AND CONFLICT STUDIES

Ellen Hastay, *Director of Pacific Humanitarian Center, Chair*

David Boersema, *Philosophy*

Jeffrey Barlow, *History*

Vern Bates, *Sociology*

Jules Boykoff, *Politics and Government*

Lorelle Browning, *English*

Alyson Burns-Glover, *Psychology*

Michael R. Steele, *English, Distinguished University Professor*

Byron D. Steiger, *Sociology*

Robert Van Dyk, *Politics and Government*

The Peace and Conflict Studies (PACS) program and curriculum evolved from student and faculty interest and concern, and has drawn wide attention. Students may elect a minor in Peace and Conflict Studies. Courses are drawn from faculty in six departments. They investigate the causes and manifestations of violence in self, in society, and in the world of nations and explore alternatives to violent resolution of conflict. Students are encouraged to develop a closely reasoned philosophical position on peace and conflict that can have lifelong application.

MINOR IN PEACE AND CONFLICT STUDIES

| | |
|---|------|
| PACS 101 and 105 | 4-6 |
| Two courses chose from PACS 208, 211, 213, 214, 215, 220, 221, 222, 230 | 6 |
| Three courses chosen from PolS 340*, PACS 300, 305, 313, 321, 325, 411, 430 and 450 | 9-10 |

19-22

COURSE DESCRIPTIONS

Peace and Conflict Studies (PACS)

PACS 101 Introduction to Peace and Conflict Studies

An introduction to concepts, issues, and approaches relating peace and conflict studies, including forms and causes of peace and conflict, contexts of conflict and violence, and proposed solutions for reducing violence and promoting peace. 3 hours.

PACS 105 Peace and Conflict Studies: Field Experience

A course designed to introduce the student to service-learning, provided in a field site drawn from the Humanitarian Center's database and the consequent learning the student will experience with regard to building community, applying one's academic and own personal experience in the course of providing service. Graded P/NP. 1-3 hours. May be repeated once for credit.

PACS 208 Addictions and Society.

Addictions and Society takes a historical and interdisciplinary approach to the question of alcohol, substance abuse and the social costs of addiction and use. The course investigates human motives to alter consciousness using classic and modern research in the physiology of addiction, sociocultural risk factors and changing cultural representations of drug use. (Same as Psy 208.) Pre-requisite, Psy 150 passed with C or better. 4 hours.

PACS 211 Philosophical and Theological Bases of Peace

From the philosophical and theological perspective, what is peace and how is it to be defined? What are the conditions for its achievement? Do human nature and the structure of the universe promote or preclude its realization in history? What is the wisdom of human experience and the teaching of the great philosophers and religious leaders on these questions? 3 hours. Meets humanities core requirements.

PACS 213 Psychology of Altruism and Aggression

The Psychology of Altruism and Aggression examines historical and modern views of human and non-human primate behavior related to altruism, empathy, violence, competition and aggression from a social, biological, interspecies and cross-cultural perspective. Pre-requisite, Psy 150 passed with C or better. Co-requisite of PACS 105-02. (Same as Psy 213.) 3 hours.

PACS 214 Vietnam and the U.S.

This is a survey of the origins, development and results of the American war with Vietnam. This course, however, will be taught more within the context of Vietnamese history and culture than within that of American history and culture. Consequently, more emphasis will be given to the roots of the war in Vietnam than to its origins in U.S. foreign policy. There will be an opportunity in this course for students to learn how to prepare "pages" for the World Wide Web. Those who are interested should also enroll for two hours of credit in one of the two sections of History 214, History in an Electronic Environment. Although concurrent enrollment in History 214 is voluntary. All students are strongly urged to enroll as the lab will not only teach web page production, but will also enhance student understanding of the materials covered in the class itself. 3 hours.

PACS 215 Conflict Resolution

Theories, strategies, and skills in resolving conflicts are analyzed and applied. Emphasis is placed on practical application of learned skills through conflict simulations. 3 hours.

PACS 220 The Middle East

An introduction to the places, people and politics of the Middle East, including such concerns as the influence and importance of religion, the revival of Islam and Islamic fundamentalism, the impact and consequences of Western colonialism, the dream and possibility of panarabism, the Arab-Israeli conflict, and future relations with the West. 3 hours. Meets cross-cultural core requirement.

PACS 221 Community Psychology

The study of how psychology can be applied to social services such as community mental health centers to effect social change. Emphasis is on planning, prevention, early intervention, research and evaluation as well as how to strengthen existing social support networks and create new ones. Empowerment and primary prevention will be the focus of attention. Prerequisite: Psy 150 or Soc 101 or 102. 3 hours. Meets social science core requirement. (Same as Psy 220.)

PACS 222 The Civil Rights Movement

This course examines the causes, history, and tactics of the struggle to guarantee African-Americans equal treatment under the law in the United States. The primary focus of the course material is on the political movement for equality in the Southern United States from 1954-1968. 3 hours. Meets social science core requirement. (Same as POLS 222.) Meets cross-cultural core requirement.

PACS 230 Navajo Service Learning

This course permits selected students to engage in a cross-cultural immersion service-learning experience in the Navajo nation during the Winter Three term. 3 hours. Meets cross-culture core requirement.

PACS 300 Community Based Action Research

Students will be introduced to the methodology of action research, which is a combination of qualitative and quantitative data gathering used with groups, communities, or programs interested in the formulation and assessment of interventions, extant programs, or future needs. Students will work with the professor on specific community based and stakeholder-involved questions (e.g., school programs; campus-based programs; community services). They will acquire social policy knowledge, "real world" experience at sites and the methodological skills required to assist in the formulation of evaluations and proposals of programs. Pre-Requisites: Junior standing and permission of the instructor. Co-requisites: PACS 105. 4 hours

PACS 305 Advanced Service Learning

This seminar seeks to build on the mature work and insights of a variety of student placement sites, growing directly from their major course work and a well-considered personal inventory. The seminar is integrative of a wide variety of one's educational experiences at Pacific. Students will apply their academic and personal skills directly in a service-learning site placement, seeking to contribute both to the site and the people there as well as to augment their grasp of the applied knowledge from the chosen major. Prerequisite: PACS 105. 2 hours. May be repeated once for credit.

PACS 313 The Sociology of Violence

This course examines the social and structural causes, correlates, and consequences of violence. Topics included are social and political violence, subcultural violence, criminal violence, family violence, the media and violence, sports and violence, and racial violence. Prerequisite: PACS 101 or Soc 101. 3 hours. Meets social science core requirements.

PACS 321 Protest, Dissent, & Social Change

This course examines the causes and history of widespread movements that use protest to promote political change. Topics include theories of social movements, the civil rights movement, the women's movement, the environmental movement, and the recent rise of conservative Christian activism. 3 hours (Same as PolS 321)

PACS 325 The Vietnam War Era

This course explores the origins, events and consequences of American involvement in Indochina from historical, political, philosophical and personal perspectives. 3 hours. Meets humanities core requirements. Meets cross-cultural requirement.

PACS 355 Human Rights

This course offers an in-depth investigation of conceptual and political issues related to rights and human rights, including such issues as the source and extent of rights, the nature of rights-bearers, the justification of rights claims, the legitimacy and means of implementing universal human rights and critiques and evaluations of the social role of rights. 3 hours. Prerequisite: PACS 101 and Junior standing. Meets humanities core requirements.

PACS 411 Literature About War

A seminar on fiction and non-fiction writing about war, considering both text and the reality with which the author comes to grips. Readings may include works such as: The Great War, Meditations in Green, All Quiet on the Western Front, Testament of Youth, Johnny Got His Gun, Harp of Burma. 3 hours. Meets humanities core requirements.

PACS 450 Issues in Peace & Conflict Studies

A course wherein students examine important issues and ideas relative to peace and conflict studies, especially for the advanced student completing a minor in PACS. Prerequisite: Permission of instructor. 3 hours.

**Please see Social Sciences Division for PolS 340.*

PHARMACY

The pharmacist is an integral member of an interdisciplinary health care team focused on improving health care outcomes of patients. As the leading source for accurate and timely drug information, the pharmacist contributes to patient safety, alleviation of symptoms, prevention of disease, and reduced health care costs. Pharmacists can choose to work in a wide variety of professional settings. Although, the majority of pharmacists work in community pharmacies (independent or chain), many other opportunities exist in hospital, industry, nursing homes, managed care, home infusion, and academic settings.

The mission of the Pacific University School of Pharmacy is to provide an educational environment that values excellence in teaching, learning and research. It prepares students to provide competent, ethical, and compassionate patient-centered pharmacist-delivered care to a diverse population in a changing healthcare environment.

The School of Pharmacy offers a 3-year professional curriculum leading to the Doctor of Pharmacy degree. The program emphasizes teamwork, the development of critical thinking skills and integration of knowledge.

The curriculum is composed of two didactic years followed by one clinical clerkship year. During the first two academic years, students will spend one day every other week in a community pharmacy, gaining experience that supports the classroom material. The curriculum is based on a modified-block design that allows the sequential delivery of topics rather than the more traditional method of teaching multiple courses at the same time. Students are not assigned letter grades in the curriculum but are instead assigned either a "pass" or "no-pass" based on achievement of 90% of stated competencies. Students are assessed every two weeks during the first 2 years

of the curriculum. Students who do not achieve the necessary level of competence are given opportunities for Extended Learning. The Extended Learning opportunities follow each block assessment and during a dedicated period in the summer.

PREREQUISITES

To be eligible for admission to the Pharm.D. program, applicants must complete a minimum of 62 semester hours of pre-pharmacy study in an accredited college or university in the United States. Applicants must achieve a minimum GPA of 2.5 on a 4.0 scale, or its equivalent, and have received a grade of "C" or better in all prerequisite courses. While a bachelor's degree is not required in order to apply to the Pharm.D. program, it can make an application more competitive. It is recommended that all required coursework be completed within seven calendar years of the time of application to the program.

General Biology w/lab
8 semester hours (complete series)
Microbiology (lab not
required) 3 semester hours
Human Anatomy and Physiology w/lab
8 semester hours (complete series)
General Chemistry w/lab
8 semester hours (complete series)
Organic Chemistry w/lab
8 semester hours (complete series)
Physics w/lab (General or upper-level) ..3
semester hours or 4 quarter hours
Calculus 3 semester hours or
4 quarter hours
English Composition 3 semester hours
Other English 3 semester hours
Speech 3 semester hours or
4 quarter hours
Psychology (Intro or abnormal)
3 semester hours or 4 quarter hours
Economics (Micro or Macro) 3 semester
hours or 4 quarter hours
Social/Behavioral Sciences 3 semester
hours or 4 quarter hours
Humanities/Fine Arts 3 semester hours
or 4 quarter hours

PHILOSOPHY

David DeMoss, *Chair, Professor*

David B. Boersema, *Distinguished University Professor, Douglas C. Strain Chair of Natural Philosophy*

Ramona Ilea, *Assistant Professor*

The Department of Philosophy seeks to acquaint students with various philosophical traditions, to present the chief philosophic problems and types of philosophy, and to help students cultivate the intellectual, civic, and moral virtues of the discipline of philosophy as well as the art and skill of philosophical analysis.

The department seeks to serve those students who intend to pursue graduate studies, those pursuing interdisciplinary career programs, and those who simply desire to understand human reflective traditions in order to enlarge their own horizon of awareness.

Majors are educated in the liberal arts tradition and are carefully counseled to take courses in all areas of the College. Majors in the bioethics emphasis are educated in the liberal arts tradition, with a particular focus on the interface between philosophy and the health professions.

100- and 200-level courses are open to all students. 300-level courses are open to upper-division students, though prior lower-division coursework is recommended. 400-level courses generally require instructor approval. Courses in a foreign language are recommended.

Departmental Goals

As a department, our goal is to educate our students with respect to the history, interpretive frameworks, and analytical techniques of the discipline of philosophy; given this goal, graduating majors and minors should be able to:

- a. exhibit a general understanding of the history and development of philosophy and a specific understanding of some portion of that history,

- b. describe and critique several of the most important historical and contemporary interpretive frameworks used in the discipline of philosophy (for example, Plato's Theory of Forms, the deontological approach to ethics, and the existentialist analysis of the human condition),
- c. apply the analytical techniques of the discipline of philosophy (for example, by presenting orally and in writing succinct analyses of philosophical texts and coherently structured arguments in defense of their own philosophical claims).

In addition, the department strives to help students cultivate the intellectual, civic, and moral virtues of the discipline of philosophy (for example, intellectual integrity, objectivity, resilience in the face of obstacles and daunting problems, a commitment to consistency, a knack for seeing and articulating what issues are at stake, the courage to cross-examine opinions that one holds dear, respect for interlocutors and colleagues, a felt obligation to contribute to one's community, etc.).

We pride ourselves on preparing students who intend to pursue graduate studies and interdisciplinary career programs; graduating majors and minors should be able to seek and obtain admission to graduate school, if that is their realistic goal, or find a job that will begin their chosen career track; they should also be able to reflect on philosophically and express clearly their own goals and choices at this stage in their lives.

Policy on Independent Study (Learning Contract): Independent study courses should be rare, only to be contracted in special circumstances for advanced study in subjects not covered by regular courses. No more than six hours of independent study may be counted toward a major in philosophy, and no more than three hours toward a minor.

MAJOR IN PHILOSOPHY

Requirements

| | | |
|--|----------------------------------|-------|
| Phil 101 | Knowledge & Reality | |
| OR | | |
| Phil 102 | Ethics and Values | 3 |
| *Phil/Math 212 | Language and Logic | 3 |
| *Two courses from | | |
| Phil 205, 206, 207, 208 | | 6 |
| Phil 494/495 | Senior Seminar | 4 |
| Upper-division electives in Philosophy | | 12 |
| Additional philosophy course (200 or above) or one course from the following list: | | 3-4 |
| PACS 430 | Human Rights | |
| Hist 339 | History of Science | |
| Psy 214 | Cognitive Science | |
| Psy 226 | History & Systems of Psychology | |
| PolS 309 | Classics of Political Philosophy | |
| Psy 321 | Sensation & Perception | |
| Soc 414 | Sociological Theory | |
| Engl 332 | Introduction to Linguistics | |
| | | 31-32 |

**Majors must take Phil 212 and one course from Phil 205, 206, 207, 208 before the senior year; these courses are a prerequisite for Phil 494 Senior Seminar.*

MAJOR IN PHILOSOPHY (BIOETHICS EMPHASIS)

Majors in the bioethics emphasis are educated in the liberal arts tradition, with a particular focus on the interface between philosophy and the health professions.

Requirements

| | | |
|-------------------------------|--------------------------|---|
| Phil 102 | Ethics and Values | 3 |
| *Phil/Math 212 | Language and Logic | 3 |
| *Two courses from | | |
| Phil 205, 206, 207, 208 | | 6 |

| | | |
|---|--------------------------------------|-------|
| Phil 307 | Ethics, Medicine & Health Care | 4 |
| Phil 409 | Moral Philosophy | 4 |
| Phil 494/495 | Senior Seminar | 4 |
| One course in biology | | 3 |
| Two courses from the following list: | | 6-8 |
| Phil 310 | Philosophy of Science | |
| Phil 312 | Philosophy of Biology | |
| Psy 220 | Community Psychology | |
| Hist 339 | History of Science | |
| Soc 319 | Sociology of Medicine | |
| | | 33-35 |

**Majors must take Phil 212 and one course from Phil 205, 206, 207, 208 before the senior year; these courses are a prerequisite for Phil 494 Senior Seminar.*

MINOR IN PHILOSOPHY

Requirements

| | | |
|--|--------------------------|-------|
| Phil 101 | Knowledge & Reality | |
| OR | | |
| Phil 102 | Ethics and Values | 3 |
| Phil/Math 212 | Language and Logic | 3 |
| One course from Phil 205, 206, 207, 208 .. | | 3 |
| Upper-division electives in Philosophy | | 6-8 |
| | | 15-17 |

MINOR IN RELIGION

Requirements

| | | |
|---------------------------------------|---|-------|
| Phil/Math 212 | Language and Logic | 3 |
| Rel 110 | Religion and the Quest for Meaning | 3 |
| Phil 205 | | |
| OR 206 | Ancient Philosophy or Medieval Philosophy | 3 |
| Phil 309 | Philosophy of Religion | 4 |
| Upper-division elective in philosophy | | 3-4 |
| | | 16-17 |

COURSE DESCRIPTIONS

Philosophy (Phil)

Phil 101 Knowledge and Reality

An introduction to traditional issues in epistemology and metaphysics, including such topics as the nature and sources of knowledge, freedom and determinism, the relation of mind and body, personal identity, the relation of knowledge and values. 3 hours. Offered annually.

Phil 102 Ethics and Values

An introduction to basic moral theories (for example, utilitarianism, duty-based ethics, egoism, virtue ethics) and their application to a variety of moral problems and contemporary ethical issues. 3 hours. Offered annually.

Rel 110 Religion and the Quest for Meaning

An introduction to the academic study of religion. What are the most fundamental meta-narratives that supply people and their communities with self-understanding? Typically, this course explores the identity mythologies of a variety of religious traditions. Religions normally covered are: Buddhism, Hinduism, Christianity, Judaism and Islam. Meets cross-cultural requirement. 3 hours. Offered alternate years. Meets Humanities core requirement.

Phil 205 Ancient Philosophy

A study of the major issues and personalities that constituted and shaped early western thought, from the pre-socratics (sixth century BCE) through the Hellenistic and Roman era (fourth century CE). 3 hours. Offered alternate years.

Phil 206 Medieval Philosophy

A study of the major issues and personalities that constituted and shaped medieval western thought from the fourth century through the fifteenth century. 3 hours. Offered alternate years.

Phil 207 Early Modern Philosophy: 1500-1750

A study of the major issues and personalities that constituted and shaped modern western thought from the sixteenth century through the eighteenth century. 3 hours. Offered alternate years.

Phil 208 Late Modern Philosophy: 1750-1900

A study of the major issues and personalities that constituted and shaped modern western thought from the mid-eighteenth century through the nineteenth century. 3 hours. Offered alternate years.

Phil/Math 212 Language & Logic

A survey of formal syntactic and semantic features of language, including topics such as sentential logic, predicate logic, axiomatic systems and set theory, and nonclassical extensions such as multivalued logics. 3 hours. Offered annually.

Phil 303 American Philosophy

A survey of major themes, movements, and figures of American philosophical thought from the seventeenth century to the present. Prerequisite: Sophomore standing. 4 hours. Offered alternate years.

Phil 304 Philosophy of Art

An investigation of the arts, including such topics as the nature of art, the metaphysics of art (e.g., form, expression, art as process vs. art as object), the epistemology of art (e.g., the locus of meaning in art, what constitutes artistic understanding, can art be "true", and the axiology of art (e.g., art and morals, the social significance of art, how can art be evaluated). Besides general philosophical issues connected to art, particular arts will be considered (e.g., painting, dance, music, theatre, film, architecture). Prerequisite: Sophomore standing. 4 hours. Offered alternate years.

Phil 305 Asian Philosophy

A study of Asian philosophical texts both historical and contemporary from various cultures, focusing for example on the Hinduism of India, the Taoism of China, and the Zen Buddhism of Japan. Prerequisite: sophomore standing. Meets cross-cultural requirement. 4 hours. Offered alternate years.

Phil 307 Ethics, Medicine and Health Care

A study of ethical issues that arise in the health care professions. After working through the processes of moral reasoning and learning about some of the major moral theories this course will focus on major topics in health care today. Typically this course deals with such issues as abortion, physician assisted suicide, genetic manipulation and cloning, and comparative health delivery systems. Students will be able to do some independent research on a topic of their choice. Prerequisite: Sophomore standing. 4 hours.

Phil 309 Philosophy of Religion

An investigation of the structure and content of religious truth-claims. The various arguments for and against the existence of God will be considered along with a few of the more important theories about the nature of religious belief, the logical status of religious propositions and the notion of a "religious use" of language. Prerequisite: Sophomore standing. 4 hours. Offered alternate years.

Phil 310 Philosophy of Science

An investigation of issues and concepts within science and about science, including such topics as the nature of explanation, the nature of confirmation, the nature of scientific progress, the relations among science, technology, values and society. Prerequisite: Sophomore standing. 4 hours. Offered alternate years.

Phil 312 Philosophy of Biology

An introduction to philosophical issues within and about biology, including such topics as design, fitness, and adaptation; units of selection; the nature of species; taxonomy and classification; molecular biology and reductionism; sociobiology. Prerequisite: 8 hours in philosophy or biology. 4 hours. Offered alternate years.

Phil 314 Philosophy of Mind

An investigation of the nature of mind and consciousness as interpreted by contemporary philosophers of mind. What is consciousness? Who has it? How is it produced? Prerequisite: Sophomore standing. 4 hours. Offered alternate years.

Phil 315 Philosophy of Law

An introduction to philosophical issues within and about law, including such topics as the nature of law, legal reasoning, liberty/rights and the limits of law, the nature of legal responsibility, the nature and justification of legal punishment. Prerequisite: Sophomore standing. 4 hours. Offered alternate years.

Phil 329 Feminism and Philosophy

An investigation of the application of feminist categories to traditional areas of philosophical inquiry such as epistemology, logic, metaphysics and value theory. This course will also explore a variety of philosophical critiques of feminist categories and theory. Prerequisite: Sophomore standing. 4 hours. Offered intermittently.

Phil 403 Twentieth Century Philosophy

A study of the major issues and personalities in twentieth-century philosophy, in such movements and schools as pragmatism, existentialism, phenomenology, positivism, linguistic analysis, structuralism, poststructuralism, and critical theory. Prerequisite: Phil 208 plus one other course in the history of philosophy or instructor's approval. 4 hours. Offered alternate years.

Phil 409 Moral Philosophy

An intensive study in the field of moral philosophy, including such topics as the nature of moral epistemology, metaethics, and the metaphysics of morals. Prerequisite: nine hours in philosophy or instructor's approval. 4 hours. Offered alternate years.

Phil 420 Seminar in Philosophy

A concentrated study of various issues in philosophy, including such topics as philosophy of language, advanced logic, aesthetics, environmental ethics, moral philosophy, in-depth analysis of particular works or philosophers, etc. Prerequisite: Nine hours in philosophy or instructor's approval. 4 hours.

Phil 494 Senior Seminar I

Required of all philosophy majors in the fall of the senior year; in the spring majors are required to enroll in Phil 495. The purpose of this seminar is to prepare the student to product a philosophical essay of significant length and quality, a senior thesis. This project will require researching, writing, defending, and perhaps publishing the essay. In Phil 494 students will research and prepare a substantial prospectus for the senior thesis; students will also read, discuss and critique the work of other members of the seminar. Prerequisite: eighteen hours in philosophy, Phil 212, and one course in the history of philosophy. 2 hours. Offered fall annually.

Phil 495 Senior Seminar II

Required of all philosophy majors in the senior year; in the fall majors are required to enroll in Phil 494. The purpose of this seminar is for each student to produce a philosophical essay of significant length and quality, a senior thesis. This project will require researching, writing, defending, and perhaps publishing the essay. In Phil 495 students will write and defend the senior thesis; students will also read, discuss, and critique the work of other members of the seminar. Prerequisite: Phil 494 and instructor's approval. 2 hours. Offered spring annually.

PHYSICAL THERAPY

Admission to Physical Therapy School is highly competitive for Pacific students as well as others. Pre-physical therapy requirements, like pre-medical requirements, concentrate in the sciences. Pacific's Physical Therapy School has always valued proficiency in writing and a strong education in the humanities and social sciences. To facilitate entry into the School of Physical Therapy, the University has established a gateway program to connect prospective students with the School of Physical Therapy during their years of undergraduate study. This program is outlined below.

Students do not major in "pre-physical therapy". Students complete a bachelor's degree in a major of their choice before beginning the Physical Therapy program.

Physical Therapy Prerequisites

| | | |
|--|---------------------------|----|
| Biol 202 | General Biology I | 12 |
| Biol 224 | Human Anatomy with lab | |
| Biol 240 | Human Physiology with lab | |
| Chem 220 and 230 | | 8 |
| Statistics (Math 207 or Psy 350 or Soc 301) | | 3 |
| Phy 202/204 or Phy 232/242 | | 8 |
| Psych 150 (Intro) and one other psychology course | | 6 |
| English/Writing – must include one writing course beyond the introductory level (Engw 201 or higher) | | 8 |
| Humanities – This can be satisfied by carefully selected core requirements. (At least 3 hours must be outside of English) Fine Arts, humanities, history, philosophy, religion, English (in addition to English prerequisite), music, foreign language, speech/communication | | 6 |
| Social Sciences (at least 3 hours must be outside of psychology) | | 6 |
| Courses from two of the following disciplines: anthropology, sociology, psychology, political science, economics. | | |

Sample of 4-Year Pre-PT Curriculum

Physics can actually be moved to any year if Math prerequisites are met.

Freshman

Fall

| | |
|--------------------------|-------|
| Chem 220 | 4 |
| Math 125 | 4 |
| First Year Seminar | 4 |
| Language Core | 3 |
| | <hr/> |
| | 15 |

Winter

| | |
|--------------------|-------|
| HUM Elective | 3 |
| | <hr/> |
| | 3 |

Spring

| | |
|----------------------------|-------|
| Chem 230 | 4 |
| Math 226 or elective | 4 |
| Biol 202 | 4 |
| Language Core | 3 |
| | <hr/> |
| | 15 |

Sophomore

Fall

| | |
|-------------------------|-------|
| Phy 204 or 232 | 4 |
| Engw 201 | 3 |
| Humanities or Art | 3 |
| Psy 150 | 3 |
| | <hr/> |
| | 13 |

Winter

| | |
|---------------------|-------|
| Engl Elective | 3 |
| | <hr/> |
| | 3 |

Spring

| | |
|----------------------------|-------|
| Phy 204 or 242 | 4 |
| Social Sci (not Psy) | 3 |
| Cross-cultural | 3 |
| Art or Humanities | 3 |
| | <hr/> |
| | 13 |

Junior

Fall

| | |
|-----------------------------|-------|
| Biol-224 (Anatomy) | 4 |
| Soc Sci elective | 3 |
| Electives (for major) | 9 |
| | <hr/> |
| | 16 |

Winter

| | |
|----------------|-------|
| Elective | 3 |
| | <hr/> |
| | 3 |

Spring

| | |
|-----------------------------|-------|
| Biol 240 (Physiology) | 4 |
| Engw 301 | 3 |
| Electives (for major) | 8 |
| | <hr/> |
| | 15 |

Senior

Fall

| | |
|-----------------------------|-------|
| Psy elective | 3 |
| Math 207 | 3 |
| Electives (for major) | 9 |
| | <hr/> |
| | 15 |

Winter

| | |
|----------------|-------|
| Elective | 3 |
| | <hr/> |
| | 3 |

Spring

| | |
|-----------------------------|-------|
| Electives (for major) | 13 |
| | <hr/> |
| | 13 |

*Note:

Biol 202 is a prerequisite for Biol 204 and Bio 224

Biol 224 is a prerequisite for Biol 240

Math 122 is a prerequisite for Math 207 and Chem 220

Math 125 is a prerequisite for Chem 230 and Phy 202

Math 226 is a co-requisite for Phy 232

GATEWAY PROGRAM FROM THE COLLEGE OF ARTS AND SCIENCES TO THE SCHOOL OF PHYSICAL THERAPY

Objectives

To establish ties with prospective undergraduate students, early in their college education, who show an interest in physical therapy.

To guarantee to students who successfully complete the Gateway program an interview for admission to Pacific University's School of Physical Therapy.

Milestones

1. Students who indicate an interest in physical therapy at the end of their freshman year of college will be identified by their advisors and given information about participating in this program.
Students who transfer from another institution or who decide later than their freshman year that they are interested in physical therapy will also be able to enter this program.
2. Students should obtain a course prerequisite form from the Office of Admissions
3. During the undergraduate's sophomore year, the student will be given the opportunity to participate in a mentoring program with a second-year physical therapy student. A minimum number of meetings will need to take place between these two students during the school year. This is for support, for encouragement, and to provide the undergraduate student a contact person to ask questions.
4. By the end of the sophomore year in college, the student will have earned at least a 3.0 GPA, both overall GPA, as well as science GPA*.

**If the student is below a 3.0 GPA at that time, the student will meet with his or her academic advisor and be expected to develop a plan to improve his/her GPA. This should involve the student meeting with the counseling center/support services to obtain help with study skills. The plan should be reviewed by the student's academic advisor. Documentation of this process and improved GPA will be required.*

5. One hundred hours of time spent observing physical therapists is a requirement for admission to Physical Therapy School.
 - a. The 100 hours of observation should include 75 hours with a single physical therapist, allowing the student quality time with the therapist and developing a relationship which would lead to a letter of reference. The remaining 25 hours could be used by the student to allow him or her to observe other areas of physical therapy. This internship can be a part of an internship for another course. It is expected that the course would have either an Exercise Science or Biology internship number attached to it. Students in need of assistance in identifying sites appropriate for this internship should send a written request to the School of Physical Therapy.
 - b. During the observation time, the student will be expected to keep a journal. To assist the student in preparing the essays for the application process, this written work should reflect on the essay topics and related matters. The current essay questions are: "Why do you want to become a physical therapist?" "Write about a patient who stands out to you and explain why?" "Write about a situation in which you facilitated a change."
 - c. At the end of the observation/internship the student must rate himself or herself according to the evaluation form found as part of the application. The student can self-assess his or her strengths and weaknesses.
6. Another milestone that the student will need to complete is a community service activity, with a minimum of 10 hours. This could occur during the school year or during the summer. Hours provided during a service-learning course are applicable.

7. During the student's senior year, it is recommended that he or she enroll in the Understanding Disabilities course taught by Professors Nancy Cicirello, John Medeiros, and Tim Thompson.
8. The student would be expected to take part in a mock interview through Career Services to practice before interviewing for admission to the School of Physical Therapy.
9. Students interested in learning more about physical therapy and sharing information with peers should consider joining the pre-PT club.

Portfolio

The student will put together a portfolio during his or her time in the Gateway program. This must be completed before the application deadline of her or his senior year so that it could be submitted with the application for admission into the School of Physical Therapy

Contents of the portfolio:

- A. Journal of observation experience.
- B. Description of community service activity.
- C. Documentation of types of interactions with PT student mentor.
- D. If the cumulative and/or science GPA fell below 3.0 by the end of the sophomore year, a description of the steps taken to improve the GPA needs to be included.
- E. Rating of self during observation time.
- F. Work sheet for prerequisites.

PHYSICIAN ASSISTANT STUDIES

Admission to the School of Physician Assistant Studies is highly competitive. The applicant must complete a bachelor's degree in any discipline, the prerequisite courses listed below prior to enrollment in the professional program and have a minimum of 1000 hours of experience in direct patient care prior to application to the program. In addition, the PA program utilizes computer-based learning throughout the program; therefore, each student is required to have a laptop computer and possess basic word processing skills.

The Physician Assistant Program Admissions Committee considers the following factors in the selection process:

- Strength and breadth of academic record
- Type and depth of prior health- care experience
- Strength of letters of evaluation
- Content of application forms and care with which they have been completed
- Quality of writing ability as demonstrated by personal narrative
- Understanding of Physician Assistant profession
- Type of community activities
- Demonstration of cultural awareness
- Strength of on-campus personal interview

For additional information (other than prerequisites) about the Physician Assistant Program consult, the graduate catalog

Prerequisite Courses

All prerequisite course work and bachelor's degree must be completed prior to enrollment. The applicant must complete the following courses with a "C" or better.

- **Biological Sciences – 11 semester hours (3 courses*)**
Anatomy (one course with lab) – human preferred

Biol 224 Human Anatomy with lab

Physiology (one course with lab) – human preferred

Biol 240 Human Physiology with lab
Microbiology or Bacteriology

Biol 308 Microbiology with lab

• **Chemistry – 11 semester hours (3 courses*)**

Organic Chemistry or Biochemistry (one of the following courses, no lab)

Chem 310/311 Organic Chemistry I with lab

Chem 320/321 Organic Chemistry II with lab

Chem 380 Biochemistry

Two additional Chemistry courses with lab (may include additional Organic or Biochemistry Courses)

Chem 220 General Chemistry I

Chem 230 General Chemistry II

Chem 240-241 Survey of Organic Chemistry

Or any course listed above

• **Statistics – 3 semester hours (one course)**

Course must be taken in the department of psychology, sociology, statistics or math.

Math 207 General Elementary Statistics

Psy 350 Behavioral Statistics

Soc 301 Social Statistics

• **Psychology or Sociology – 3 semester hours (one course)**

Any course in psychology or sociology

Soc 101 Intro to Sociology

Psy 150 Intro to Psychology

• **English/writing – 6 semester hours (two courses taught at an English speaking university/college)**

Must include at least one writing course beyond the introductory level.

Courses must be taken in either the English or writing department.

Engw 201 Expository Writing or Engw 301

plus a second course in writing or literature

**Courses taken to fulfill the science prerequisites must be those for science majors.*

Clinical Experience

Minimum 6 months (1,000 hours, paid or volunteer)

At the time of application submission, the applicant must be able to provide documentation of a minimum of 1000 hours of experience with direct patient contact in a health-care setting. A wide range of types of experience will be considered such as: nurse RN/LPN, paramedic/EMT/corpsman, medical assistant/nurses' aide, medical technologist/technician, respiratory therapist, physical therapist/assistant, occupational therapist/assistant, speech therapist/assistant, psychologist/therapist/counselor, medical office manager, hospital/clinic/nursing home facility volunteer, home-health aide, outreach worker, social worker, acupuncturist, chiropractor, naturopath, massage therapist in health care setting, patient educator, dental assistant and others. Shadowing experience with a practicing physician assistant also qualifies.

In addition to the required courses, students are encouraged to learn Spanish and to take medical terminology. Students or advisors with questions about the School of Physician Assistant Studies should consult the Graduate Admissions office and the current PA program brochure.

Sample of 4-Year Curriculum of PA Prerequisites

Freshman

Fall

| | |
|--------------------------|-------|
| Math 125 | 4 |
| First Year Seminar | 4 |
| Chem 220 | 4 |
| Elective | 3 |
| | <hr/> |
| | 15 |

Winter

| | |
|----------------|-------|
| Elective | 3 |
| | <hr/> |
| | 3 |

Spring

| | |
|----------------|-------|
| Biol 202 | 4 |
| Chem 230 | 4 |
| Elective | 6 |
| | <hr/> |
| | 14 |

Sophomore

Fall

| | |
|------------------------|----|
| Biol 204 | 4 |
| Elective | 3 |
| Engw 201 | 3 |
| Foreign Language | 3 |
| Psych 150 | 3 |
| | — |
| | 16 |

Winter

| | |
|----------------|---|
| Elective | 3 |
| | — |
| | 3 |

Spring

| | |
|-----------------------------|----|
| Math 207 (Statistics) | 4 |
| Engw 301 | 3 |
| Foreign Language | 3 |
| Elective (optional) | 6 |
| | — |
| | 15 |

Junior

Fall

| | |
|--------------------------|----|
| Biol 308 | 4 |
| Biol 224 (Anatomy) | 4 |
| Electives | 6 |
| | — |
| | 14 |

Winter

| | |
|----------------|---|
| Elective | 3 |
| | — |
| | 3 |

Spring

| | |
|--|----|
| Chem 240/241 (Survey of Organic) | 4 |
| Biol 240 (Physiology) | 4 |
| Electives | 6 |
| | — |
| | 14 |

Senior

Fall

| | |
|-----------------|----|
| Electives | 16 |
| | — |
| | 16 |

Spring

| | |
|-----------------|----|
| Electives | 16 |
| | — |
| | 16 |

Note:

Biol 202 is a prerequisite for Biol 204

Biol 204 is a prerequisite for Biol 308

*Math 122 is a prerequisite for Math 207
and Chem 220*

Math 125 is a prerequisite for Chem 230

PHYSICS

Juliet W. Brosing, *Chair, Professor*

James J. Butler, *Associate Professor*

Stephen Hall, *Assistant Professor*

Richard Wiener, *Professor*

The program in physics is designed to prepare students for careers in applied physics and engineering and graduate study in physics, engineering and professional fields. Physics students gain practical experience through hands-on projects in classes, as well as a senior capstone research project or professional internship. Facilities are available for student research in optics, nuclear physics, astronomy, non-linear dynamics and condensed matter physics. The majority of our graduates go to graduate school in physics and related fields or take engineering-related positions in technical industry.

Goals for the Physics Major

Upon successful completion of a major in physics, students will be able to:

1. Demonstrate conceptual understanding of fundamental physics principles.
2. Communicate physics reasoning in oral and in written form.
3. Solve physics problems using qualitative and quantitative reasoning including sophisticated mathematical techniques.
4. Conduct independent research or work successfully in a technical position.

MAJOR IN PHYSICS

The student majoring in Physics must complete the following:

Physics Core Requirements

| | | |
|--------------------------------|---|-------------|
| Phy 232-242 | General (Workshop) Physics I-II | 8 |
| | OR | |
| Phy 202-204 | Introductory Physics I-II | 8 |
| Phy 322 | Modern Physics with Health Applications | 4 |
| Phy 332 | Waves and Optics | 4 |
| Phy 380 | Classical Mechanics: Dynamics | 4 |
| Phy 420 | Quantum Mechanics | 4 |
| Phy 460 | Electric and Magnetic Fields | 4 |
| Phy 490-492 | Physics Capstone (w/ research project) | 6 |
| | OR | |
| Phy 480-482 | Physics Capstone Seminar 2 AND an internship | 4 |
| Upper-division electives | | 6-8 |
| | | <hr/> 40-42 |

Other Requirements

| | | |
|--------------|------------------------------|-------------|
| Chem 220-230 | General Chemistry I-II | 8 |
| Math 226-228 | Calculus I-III | 12 |
| | | <hr/> 60-62 |

All physics majors are strongly encouraged to take Math 311 (Differential Equations) and CS 150 (Introduction to Computer Science). Students are also encouraged to take other courses in Math and CS depending on their interests.

Students who are planning a career teaching physical science at the high school level may, with prior department approval, substitute either Hist 339 (History of Science) or Phil 310 (Philosophy of Science) for four of the required upper-division elective hours. Students planning a teaching career also have the

opportunity to gain valuable teaching experience by serving as teaching assistants for lower division courses.

Because there are so many possible career paths for physics majors, we would like to offer some recommendations for upper - division electives (of which 6-8 hours are required for the major). Below are suggestions for electives that provide pathways for students to follow toward some common career goals. However, each student's interests are different; please discuss yours' with a member of the department to develop a personalized selection of courses.

Graduate School in Physical Science

Relativity
Thermodynamics and Statistical Mechanics
Modern Topics in Physics
Electronics

Optics/Optomety

Modern Topics in Physics
Electronics

**Engineering/Applied Science/
Health Science Careers**

Electronics
Engineering Mechanics: Statics
Thermodynamics and
Statistical Mechanics

Teaching Physical Science in High School

Relativity
Thermodynamics and
Statistical Mechanics
History of Science
Philosophy of Science

MINOR IN PHYSICS

The minor in Physics is designed to give students a deeper appreciation of physics than can be attained in a one-year sequence. The minor in Physics can enhance studies in other disciplines such as (but not limited to) chemistry, mathematics, computer science and philosophy.

Requirements

| | | |
|---|---|----------|
| Phy 232-242 | General (Workshop) Physics I-II OR | |
| Phy 202-204 | Introductory Physics I-II | 8 |
| Math 226-227 | Calculus I-II | 8 |
| Phy 322 | Modern Physics with Health Applications OR | |
| Phy 332 | Waves and Optics | 4 |
| Seven additional upper-division credits in physics | | 7 |
| | | <hr/> 27 |

MINOR IN APPLIED PHYSICS

The minor in Applied Physics is designed for students interested in employment in the high- tech industry or in engineering. The minor in Applied Physics can be used toward completion of the Applied Science major.

Requirements

| | | |
|--------------|--|---|
| Math 226-227 | Calculus I-II | 8 |
| Phy 232-242 | General (Workshop) Physics I-II OR | |
| Phy 202 -204 | Introductory Physics I-II | 8 |
| Phy 322 | Modern Physics with Health Applications OR | |
| Phy 332 | Waves and Optics | 4 |
| Phy 364 | Electronics | 4 |

One of the following
(if not counted above) 3-4

| | | |
|----------------------------|--|-------------|
| Phy 322 | Modern Physics with Health Applications | |
| Phy 332 | Waves and Optics | |
| Phy 376 | Engineering Mechanics: Statics | |
| Phy 384 | Thermodynamics and Mechanics | |
| Phy 325 | Modern Topics in Physics | |
| One of the following | | 4 |
| Phy 380 | Classical Mechanics: Dynamics | |
| Phy 420 | Quantum Mechanics | |
| Phy 460 | Electric & Magnetic Fields | |
| | | <hr/> 31-32 |

Any student interested in a Physics minor should consult with a faculty member in the Department of Physics.

All of our upper-division courses (except Physics Capstone) are taught on an alternate year basis. Below is a schedule of our courses for the next two years:

Upper-division Course Offerings 2006-2007

Fall

Waves and Optics
Classical Mechanics: Dynamics
Physics Capstone I
Physics Capstone Seminar I

Winter III

Engineering Mechanics: Statics

Spring

Thermodynamics and Statistical Mechanics
Electric and Magnetic Fields
Physics Capstone II
Physics Capstone Seminar II

Upper-division Course Offerings 2007-2008

Fall

Modern Physics with Health Applications
Electronics
Physics Capstone I
Physics Capstone Seminar I

Winter III

Relativity

Spring

Modern Topics in Physics
Quantum Mechanics
Physics Capstone II
Physics Capstone Seminar II

COURSE DESCRIPTIONS

All prerequisite courses must be completed with a grade of "C-" or better.

Physics (Phy)

Phy 110 Physics of Everyday Phenomena

Designed to develop an understanding of the phenomena of our everyday life via the laws of physics. The emphasis is not on problem solving but on encouraging students to understand and appreciate their environment from a new perspective. Includes topics in mechanics and other physics subfields such as thermal physics and electrical phenomena. Satisfies Natural Science Core requirement. 3 hours.

Phy 160 Energy & the Environment

In order to live humans require energy, and methods of energy production significantly affect the environment in which humans live. This course examines fundamental thermodynamic concepts such as energy and power and then explores the comparative environmental costs and benefits, including potential long

term consequences, of producing energy from various sources such as fossil fuels, nuclear reactors, wood burning, solar panels, wind turbines, etc. Methods of estimation and simple quantitative analysis are emphasized so that meaningful comparisons between energy sources and their environmental consequences can be made. Cross listed as Env 160. Satisfies Natural Science core requirement. 3 hours.

Phy 202 Introductory Physics I

The first semester of an algebra-based sequence in physics. Topics include Newtonian mechanics, work, momentum, and energy. The lab component includes computer based experiments in mechanics. Satisfies Natural Science core requirement. Prerequisite: Math 125. 4 hours.

Phy 204 Introductory Physics II

The second semester of an algebra-based sequence in physics. Topics include heat and thermodynamics; electricity and magnetism; sound and light waves. The laboratory component includes computer based experiments in heat and thermodynamics; electric circuits. Satisfies Natural Science core requirement. Prerequisite: Phy 202 or Phy 232. 4 hours.

Phy 232 General Physics I – Workshop Physics I

An introductory course in physics (calculus-based) for science and pre-engineering students. First term includes Newtonian mechanics. This course is an inquiry-based, laboratory-oriented course. Satisfies Natural Science core requirement. Co-requisite: Math 226. 4 hours.

Phy 242 General Physics II – Workshop Physics II

A continuation of Phy 232 including electricity and magnetism, thermodynamics, and nuclear physics. Satisfies Natural Science core requirement. Prerequisite: Math 226, Phy 232 or Phy 202. 4 hours.

Phy 310 Relativity

An introduction to Einstein's special and general theories of relativity, with emphasis on the special theory. Topics include the principle of relativity, space-time effects of the Lorentz transformations, relativistic energy and momentum, Minkowski diagrams, the equivalence principle, the geometry of space-time, and gravity. Prerequisite: Phy 202 or 232, Math 226. 3 hours. Alternate years. 2007-2008.

Phy 322 Modern Physics with Health Applications

A project-orientated course taught in a workshop environment that covers important topics in modern physics with applications to human health. Topics include the Bohr theory of the atom, wave/particle duality, atomic and nuclear physics, and an introduction to Schrodinger's equation. Projects may include nuclear medicine, radiation therapy, neutron activation analysis, and magnetic resonance imaging. Prerequisite: Phy 204 or 242, Co-requisite: Math 227. 4 hours. Alternate years. 2005-2006.

Phy 325 Modern Topics in Physics

A class on topics of current interest in physics. May be taken more than once for credit, as the topic will vary. Prerequisite: Phy 204 or 242, one upper division course in Physics, Math 227. 4 hours. Alternate years. 2007-2008.

Phy 332 Waves and Optics

A course on the mathematical description of waves with application to optics. Topics will include wave addition, an introduction to Fourier analysis, laws of geometric optics, image formation, optical systems, interference and diffraction, polarization, lasers, and an introduction to transform optics including holography. The laboratory component will include selected experiments in wave motion, geometric optics, and physical optics. Prerequisite: Phy 204 or 242, Co-requisite: Math 227. 4 hours. Alternate years. 2006-2007.

Phy 364 Electronics

The basic principles underlying circuit analysis and the operation of analog and digital electronic devices, including: diodes; transistors; op-amps; logic gates; multivibrators; counters; registers; memories; and A/D and D/A converters. Prerequisite: Math 125, Phy 204 or 242. 4 hours. Alternate years. 2007-2008.

Phy 376 Engineering Mechanics: Statics

Presentation, discussion, and application of the principles of static mechanics to problems in physics and engineering including: force analysis, equilibrium in two and three dimensions, trusses and frames, internal forces, centroids, and cables. Special emphasis is given to problem-solving techniques. Prerequisite: Phy 232 or Phy 202, Math 226. 3 hours. Alternate years. 2006-2007.

Phy 380 Classical Mechanics: Dynamics

Presentation and discussion of the kinematics and dynamics of single particles and systems of particles, both in inertial and non-inertial frames of reference. In addition to the standard analytical techniques, approximation techniques and a computer algebra system will be used for problem solving. Several mechanical systems will be studied experimentally and computationally. Prerequisite: Phy 204 or 242, Math 227. 4 hours. Alternate years. 2006-2007.

Phy 384 Thermodynamics and Statistical Mechanics

Presentation, discussion, and application of the laws of thermodynamics and statistical mechanics including gas behavior, equations of states, phase transformations, kinetic theory, probability distributions, ensembles, and the partition function. Prerequisite: Phy 204 or 242 and one upper division course in physics, Math 227. 4 hours. Alternate years. 2006-2007.

Phy 420 Quantum Mechanics

An introduction to quantum mechanics and its application to: free particles, barriers, the simple harmonic oscillator, the hydrogen atom, angular momentum, spin, and identical particle systems. A computer algebra system will be utilized for problem solving and visualization. Prerequisite: Phy 322 or Phy 332, Math 228 or Math 311. 4 hours. Alternate years. 2007-2008.

Phy 460 Electric & Magnetic Fields

Development of the nature and mathematical description of electric and magnetic fields in free space and material media, including: Maxwell's equations, electrostatics, magnetostatics, dielectrics, and solutions of Laplace's and Poisson's equations. Prerequisite: Phy 322 or Phy 332, Math 228. 4 hours. Alternate years. 2006-2007.

Phy 480 Physics Capstone Seminar I
The physics seminar portion of Phy 490. (See description of Phy 490). Co-requisite: Senior standing as a physics major, and research or an internship in physics. 1 hour.

Phy 482 Physics Capstone Seminar II
The physics seminar portion of Phy 492. (See description of Phy 492). Co-requisite: Senior standing as a physics major, and research or an internship in physics. 1 hour.

Phy 490 Physics Capstone I
The capstone course involves a weekly seminar and a year long research project. In the weekly seminar, students learn how to make presentations and how to do "on-the-spot" problem solving. Emphasis is on the integration of concepts learned throughout the undergraduate physics curriculum. There also will be outside speakers on current physics research. The other portion of the capstone experience is a year long research project, including weekly meetings in which students discuss their ongoing research projects. The research project will comprise 2 credits of the course. Co-requisite: Senior standing as a physics major. 3 hours.

Phy 492 Physics Capstone II
A continuation of Physics 490. At the end of Physics 492 students will give final oral presentations on their research project or their internship, and submit their research/ internship paper. Prerequisite: Physics 490. 3 hours.

Phy 495 Research
Student-conducted individual research project. 1-3 hours.

POLITICS AND GOVERNMENT

Bob Van Dyk, Chair, Professor

Jules Boykoff, Assistant Professor

Jim Moore, Instructor

Jeffrey G. Seward, Associate Professor

Politics and government is the process by which a community decides what common goals it wants to achieve, what its rules will be, and how those policies and rules will be carried out or enforced. Nothing is more important to a healthy society. We are fascinated by the political process in the United States and in the world and concerned about its outcome and we welcome all students who share that interest.

While our program provides an excellent foundation for graduate study in political science, the primary focus of the department is on providing skills and habits of mind useful in a wide range of professions. Recent graduates of the department have found jobs and careers in law, politics, business, teaching, journalism and government service. Some of our graduates continue their education in professional programs in law, business (MBA), international affairs, education, public administration and other fields. Many work directly after college (often as staff members for elected officials or government agencies) before going on to graduate school.

Goals

The goals of our curriculum emphasize broad knowledge of political phenomena, practical skills of analysis and communication, and an understanding of theoretical approaches to politics. Graduates will know how to analyze policy problems in a clear and logical way; how to make oral presentations; how to find information; how to write well in the form of a memorandum, short essay, a research report, and an academic paper; how to work in groups; and how to use electronic communication.

Program

The curriculum is focused on a variety of approaches to political analysis, practical hands-on experience and student research. An internship or study abroad is strongly recommended for all majors as a useful part of their study. The required senior thesis may take a variety of forms, ranging from a hands-on project based on field research to statistical analysis of quantitative data to an abstract theoretical treatment of a problem in political philosophy.

The Department's co-curricular program is highlighted by the annual Tom McCall Forum, an event that brings pairs of nationally prominent speakers to Pacific and Oregon. Recent pairings have included Ralph Reed and Alan Dershowitz (2001), Ralph Nader and Newt Gingrich (2002), David Gergen and Bill Bradley (2003), Bill Kristol and Molly Ivins (2004), Howard Dean and Richard Perle (2005), and Tom Daschle and Pat Buchanan.

Internships and Study Abroad

While it is not an absolute requirement, the department strongly encourages all majors to include in their program a semester-long, off-campus experience.

Over half of our majors find internships, most commonly in the Oregon Legislature or Congressional offices in Washington. Other possible internship sites include social-service agencies, government agencies, interest groups, or law firms. Internships for credit involve close

collaboration with a faculty advisor and are limited to one semester. Only six hours of internship credit is directly applicable to the requirements of the major.

Pacific offers many study-abroad possibilities in England, France, Germany, China, Japan, Ecuador, Mexico, and a number of other countries. These programs are described in detail in the International Programs section of the catalog. Students going abroad should include in their plan the language, history, culture and economy of their area of interest. No more than six hours of academic work taken abroad (nine hours in the case of those studying abroad for an entire academic year) may be directly applied to the requirements of the major.

Junior year is the best time for off-campus study. Seniors off campus in the fall semester may omit the fall term senior seminar but during that time must prepare a first draft of their senior project for completion and presentation in the spring.

MAJOR IN POLITICS and GOVERNMENT Introductory Courses

The department offers three introductory level courses, PolS 101, PolS 140 and PolS 180, described in more detail below. None of these courses is required for the major, but any of them may be counted for the major. Students interested in the possibility of majoring in Politics and Government are strongly encouraged to begin with one of these courses.

Required Complementary Course Work

The following complementary course work outside the department is a required part of the major. Prospective majors should try to complete these requirements as early as possible in their academic program.

Econ 101 OR 102 (one required, both recommended) 3-6
Soc 301 Social Statistics 4
Two semester courses in history approved by the department 6-8

PolS Requirements

| | | |
|-------------------|---|---|
| PolS 299 | Political Analysis | 4 |
| PolS 309 | Classics of Political Philosophy | 4 |
| PolS 401-402 | Senior Seminar and Thesis | 6 |

21 Semester hours of PolS electives 21

These 21 hours must include:

1. at least one course in American Politics or Law
2. at least one course in Comparative Politics/International Relations at the 200 OR 300 level.
3. at least two other upper-division PolS courses.

Up to six hours of PolS internship credit may be counted toward the major, but these six hours may not be counted toward any of the specific upper-division requirements listed above.

44-49

MINOR IN POLITICAL SCIENCE**Requirements**

18 semester hours of PolS electives, at least 12 hours of which must be at the upper-division level.

18

COURSE DESCRIPTIONS**Political Politics and Government (PolS)**

PolS 101 Power & Community
Exploration of such key concepts as power, authority, legitimacy, justice, law, democracy, social welfare, and human rights. Introduction to analysis of policy problems. 3 hours.

PolS 140 Conflict & Controversy in American Politics

The most enduring questions about politics are the who, the what, the when, and the how of politics. This course seeks to answer these questions as they pertain to the American political system. 3 hours.

PolS 180 The United States in World Affairs

A first course in international relations, focused on current problems and concerns in United States foreign policy. These include both "offshore" issues such as human rights and peacekeeping and "intermestic" issues such as trade and immigration. The course will begin with an overview of American foreign policy traditions and attitudes and of the 20th century background. 3 hours.

PolS 221 Politics in Literature & Film

Exploration of a single major theme of politics through the medium of literature and film. Possible course themes include Latin American film, revolution, war, utopia, propaganda, the Cold war and American political culture. May be repeated for credit when topics vary. Winter III only. 3 hours.

PolS 222 The Civil Rights Movement

This course examines the causes, history, and tactics of the struggle to guarantee African-Americans equal treatment under the law in the United States. The primary focus of course material is on the political movement for racial equality in the United States from 1954-1968. Winter III only. 3 hours. Fulfills Cross Cultural core requirement.

PolS 223 Women in Politics

This course surveys historical perspectives and contemporary realities about the role of women in political life. Major topics covered include the treatment of women in the classic texts of political philosophy and feminist reactions to that tradition, a survey of historical and contemporary women's political movements and political participation in the United States and a comparative view of women's political participation in non-U.S. settings (cross-listed in Feminist Studies). 3 hours.

PolS 224 Environmental Politics

This course introduces students to environmental disputes and the forces that affect environmental policy. Topics include the history and evolution of environmentalism and environmental policy and an extensive case study of a local environmental issue. 3 hours. Cross-listed in ENV

Pols/Hist 239 The Conquest of the Americas

Survey of Latin America history from 200 C.E. to 1650 C.E. with a focus on the pre-Columbian Mayan, Aztec, and Inca civilizations; the conquest and settlement of Mexico, Central America, and South America by the Spanish and Portuguese; and the establishment of early colonial institutions in Spanish America and Brazil. Special emphasis will be given to the clash of indigenous and European religious/spiritual outlooks, political economy, and the interaction of issues of race, class, and gender in the emergence of syncretic New World societies. May be counted toward the Cross-Cultural core requirement. 3 hours.

Pols/Hist 240 Colonial and NeoColonial Latin America

Survey of Latin American history from 1650 to 1914 with a focus on the mature

period of Spanish and Portuguese colonialism in Latin America, the independence struggles of the early 19th century, and the first century of independence for Latin America. Special emphasis will be given to the evolution of indigenous/European and African/European relations and the tension between formal political independence and continuing cultural and economic dependence on European societies even after independence. May be counted toward the Cross-Cultural core requirement. 3 hours.

Pols/Hist 241 Modern Latin America

Survey of Latin American history from 1914 to the present with a focus on the rise of populism, socialism, and economic nationalism; the collapse of populist democracies and the rise of bureaucratic authoritarian military regimes;

and recent transitions to democracy combined with economic liberalization. Course will also include attention to issues of class, race and gender over the course of these political and economic transformations and the history of US-Latin American relations in the 20th century. May be counted toward the Cross-Cultural core requirement. 3 hours.

PolS 299 Political Analysis Seminar

This course introduces students to some of the basic forms of political analysis including scholarly research, policy analysis, and political strategy. The course is organized as a seminar in which students will be required to present their own projects to the class and actively participate in class discussion. Required for majors (should be taken sophomore year). Prerequisite: PolS 101 strongly recommended. 4 hours.

PolS 301 Politics and the Media

Examines the impact of the media upon the political process; the relationship between the press and politicians; and whether the press is a "neutral" force in American politics. Biennially. 4 hours.

PolS 302 Parties and Elections

The development of political parties and their organization, function and campaign methods. Analysis of interest groups and their effect on government and political parties. Public opinion and propaganda. Involvement in a political campaign encouraged. Biennially. 4 hours.

PolS 303 Congressional Politics

Course focuses on the organizational dynamics of the Congress as the primary legislative body in our national government. The external environment will also be examined to understand how the lobby, the media, the other branches of government influence the legislative agenda. Biennially. 3 hours.

PolS 304 Grassroots Politics

Course examines how citizens and interest groups shape "grassroots" politics, state and local government in the United States. 3 hours.

PolS 305 The Presidency

An examination of the evolution of the American presidency as the dominant office within our political system. Biennially. 3 hours.

PolS 309 Classics of Political Philosophy: From Plato to Postmodernism

Examines the evolution of ancient, modern and contemporary political thought from the ancient Greeks to the 20th century. Major political theorists who may be studied include: Plato, Aristotle, Augustine, Machiavelli, Hobbes, Locke, Rousseau, Hegel, Mills, Marx, Arendt, Rawls, Nozick as well as feminist and postmodernist critics of traditional political thought. Required for majors. Prerequisite: Junior standing or sophomore PolS major. 4 hours.

PolS 310 Markets, Politics, and Justice

An examination of political economy (the interaction of politics and economics) with respect to topics such as macroeconomic policy-making, industrial policy, income distribution, development strategies, and the welfare state plus the political dimensions of economic ideologies including classical liberal, Marxist, and social democratic perspectives. Prerequisite: Economics 101 or 102 strongly recommended. 3 hours.

PolS 320 Law and Society

An introduction to the role of law in structuring social relations. The course examines the various ways we encounter the law as it is made by legislatures, as it is made by judges, and as it is practically applied. The course requires an extensive case study of the law as written and applied in a business or political organization. Biennially. 3 credits.

PolS 321 Protest, Dissent, & Social Change

This course examines the causes and history of widespread movements that use protest to promote political change. Topics include theories of social movements and case studies that may include the labor movement, the civil rights movement, the women's movement, the environmental movement, and the recent rise of conservative Christian activism. 3 hours.

PolS 325 Constitutional Law

An introduction to the judicial process, legal reasoning and interpretation of the Constitution through analysis of court cases. Subjects include federalism, property, race, gender, and privacy. Biennially. 4 hours.

PolS 326 Civil Liberties

This course examines the development of civil liberties in the United States by focusing on the role of the Supreme Court. Subjects include freedom of speech, freedom of press, freedom of religion, and the rights of the accused. Biennially. 4 hours.

PolS 330 National Systems and Global Challenges

Survey of national political systems in the context of the challenge of globalization. Countries studied and compared will include most or all of the following: United States, Britain, France, Germany, Russia, China, Japan, Mexico, Brazil, India, Nigeria, Egypt, Iran, and the European Union (as an emerging or quasi-state). Issues analyzed will include competing theories of the origins and consequences of different political institutions, the relationship between domestic political arrangements and the ability to cope with globalization, transitions to democracy and the consolidation of democracy, and the future of the nation-state. Prerequisite: Junior standing and one other POLS course or consent of instructor. Biennially. 4 hours

PolS 340 Security, Rights, and Globalization

Nationalism and cultural identity; the international system and world organization; problems of conflict and war; issues of human rights and democracy; economic globalization and development; and security issues such as the spread of weapons of mass destruction. Prerequisite: upper-division standing. 4 hours.

PolS 350 Special Topics in Political Science

Courses of varying formats on specific topics not included in the regular curriculum. Recent examples include Conservative Political Thought, Contemporary Mexico, and the Salmon Crisis. May be repeated for credit when the topics vary. 3 hours.

PolS 399 Independent Study
Student-conducted individual research/theoretical project. Faculty supervised. 1-3 hours.

PolS 401-402 Senior Seminar and Thesis
In the first semester, students will define their research project, gather necessary information, and write the first draft of their thesis. The seminar will also meet weekly or bi-weekly to discuss selected readings in political issues and ideas. In the second semester, along with further group meetings and discussions, students will revise and complete their project and formally present it to the seminar. Both semesters required of all majors in their final year. Prerequisite: PolS 299 and two 300-level PolS classes. 3 hours each semester.

PolS 475 Internship.
Off-campus placements in political settings can be undertaken for credit. Requirements vary. See Department Chair for more information.

PSYCHOLOGY

Alyson Burns-Glover, Chair,
(Fall, 2006) Professor

Mark Bodamer, Chair (Spring, 2007)
Associate Professor

Heide Deditius-Island, Assistant Professor

Erica Kleinknecht, Assistant Professor

Todd Schultz, Associate Professor

Psychology can be defined as the empirical analysis of mind and behavior. The department members believe that reliable knowledge of psychological processes represents a necessary condition for meaningful action in the world. History, culture, art, economics, sociology, international affairs, health and biological sciences—virtually any field of study profits from attention to psychological variables. Psychology is a versatile, inherently interdisciplinary, and multi-methodological enterprise. We concur with one of the founders of modern psychology, William James, who wrote, “The union of the mathematician with the poet, fervor with measure, passion with correctness; that surely is the ideal.”

Goals of the Major

The goals of the Psychology Department are to:

- introduce students to the scientific approach and methods of critical analysis in the interpretation and evaluation of research and theory;
- expose students to a selection of courses that typify the breadth of the discipline and the expertise of departmental faculty;
- instill cooperative learning strategies that enable students to participate effectively in group projects and in circumstances surrounding employment;

- perfect students' abilities to write clearly, succinctly and with authority, and to orally present theory and data;
- mentor and guide students' career choices by providing opportunity and instruction in basic and applied psychology, as well as allied health and service professions.

MAJOR IN PSYCHOLOGY

All courses to be used for credit towards the major or minor must be passed with a C grade or better. In addition, all courses with co-requisites must also be passed simultaneously with a C or better for credit toward the Psychology major and minor.

Core Courses

Introduction to the area

| | | |
|---------|-------------------------------|-----------------|
| Psy 150 | Introductory Psychology | 3 credits |
| Psy 248 | Mind, Theory & Method | 3 credits |
| | | 6 credits total |

Research Methods

| | | |
|---------|-----------------------------|-----------------|
| Psy 348 | Research Methods .. | 3 credits |
| Psy 349 | Research Methods Lab | 2 credits |
| Psy 350 | Behavioral Statistics | 3 credits |
| | | 8 credits total |

Required General Courses

Select one: Psy 240 or Psy 318 3 credits each

Select one: .. Psy 214 or Psy 225 or Psy 314 3 credits each

Select one: Psy 208 or Psy 308 4 credits; 3 credits

Select one: Psy 211 or Psy 309 3 credits each

Select one: Psy 252 or Psy 321 4 credits; 3 credits

15-17 credits total

Additional Elective Courses

Select any three courses from Psychology or approved electives from other programs [see below] one must be 300-level and one must be 400-levels Exclusions: Psy 351, and Psy 499 9 credits

Senior Capstone course

Psy 490 Senior Capstone Seminar 3 credits

The Psychology program accepts the following courses as substitutions for our elective courses in our major and minor. Students must consult the catalog for pre-requisites for these courses prior to enrolling.

- Biol 330: Genetics
- Phil 310: Philosophy of science
- Phil 314: Philosophy of mind
- PACS 300: Community based action research

- Soc 217: Gender and sexuality
- SocWk425: Counseling and interviewing techniques

Total credits for a Bachelor of Arts 41

Students pursuing a Bachelor of Science degree with a major in Psychology must also complete two natural science division approved laboratory courses ..4 credits each.

Total credits for a Bachelor of Science49

Students should be aware of the **48 Hour Rule** in this catalog. Only 48 credits of Psychology Credit (PSY PREFIX) can be used towards the 120 credits total.

MINOR IN PSYCHOLOGY

The Psychology minor must complete the following required courses with a grade of "C" or better. Students intending to minor in Psychology should consult with a department member prior to choosing electives.

Minor required courses

Psy 150 Introductory Psychology

Psy 248 Mind, Theory & Method

Plus five electives (Two must have a Psy prefix. Two must be upper-division courses.)

The Psychology program accepts the following course as a substitution for our elective courses in the minor only. Students must consult the catalog for pre-requisites for these courses prior to enrolling.

EXIP 365 Perceptual motor learning

Total credits for a Minor in Psychology 21

COURSE DESCRIPTIONS

Psychology (Psy)

Psy 150 Introduction to Psychology
Psychology is the science of human and animal behavior and mental processes. As a survey course, Introduction to Psychology provides an overview of the methods, terms, theories, and research findings in the field. By understanding principles of psychology, students learn more about themselves, other human and non-human animals, historic and contemporary issues within the discipline and how to think about those issues critically. 3 hours.

Psy 160 Culture & Behavior
The goal of this course is to provide a cross-cultural review of general principles of human psychology. Emphasis is on the organizing syndromes of particular cultures and how these world-views affect an individual's emotions, cognitions and behaviors. This course fulfills the cross-cultural core requirement. 3 hours.

Psy 180 Lifespan Human Development
This course offers a survey of human development and developmental theories from conception until death focusing on physical, cognitive, and social changes that occur across the lifespan. Recommended for non-majors.

Psy 208 Addictions and Society
Addictions and Society takes an historical and interdisciplinary approach to the question of alcohol, substance abuse and the social costs of addiction and use. The course investigates human motives to alter consciousness using classic and modern research in the physiology of addiction, sociocultural risk factors and changing cultural representations of drug use. (Same as PACS 208.) Pre-requisite, Psy 150 passed with C or better. 4 hours.

Psy 210 Current Issues in Psychology

This is a seminar-style course that varies from one semester to the next. Course themes are selected based on the contemporary issues in the field and the faculty member's area of expertise, interest, and background. Examples of "Current Issues" include: Peoples and Cultures of Hawai'i; The Nature of Self-Concept; Aging; Life-Story Models of Identity; Evolutionary Psychology, and Psychology of Mindfulness. This course may be repeated for credit as topics vary. Pre-requisite, Psy 150 passed with C or better; other pre-requisites vary by topic. 3 hours.

Psy 211 Abnormal Psychology

Students critically explore major categories of disorders, with special emphasis on dissociative identity disorder, depression, schizophrenia, and borderline personality. Questions are raised about the use of psychiatric drugs, and attention is paid to the history of insanity. This course includes both textbook and original readings. Prerequisite: Psy 150 passed with C or better. 3 hours.

Psy 212 Introduction to Chimpanzee Behavior

This course utilizes a variety of teaching and learning modalities. Students read research, listen to recordings, and view films related to studies involving chimpanzees in captive and wild populations. Additionally, students study the behavior of chimpanzees at the Oregon Zoo. Research methods is an implicit component of this course, students collect and present a summary of their data from zoo observations. Implications of the discoveries

made through studying sibling species are discussed. Further, students examine current projects from around the world to improve conditions for chimpanzees. Pre-requisite, Psy 150 passed with C or better. Cross-listed as SCI 252, 3 hours.

Psy 213 Psychology of Altruism and Aggression

This course examines historical and modern views of human and non-human primate behavior related to altruism, empathy, violence, competition and aggression from a social, biological, interspecies and cross-cultural perspective. Pre-requisite, Psy 150 passed with C or better. Co-requisite of PACS 105-02. (Same as PACS 213.) 3 hours.

Psy 214 Cognitive Science

Cognitive Science serves as an interdisciplinary introduction to the study of Cognition. Broadly, this class focuses on description and explanation of the nature of mind and mental processes. To this end, topics surveyed include Philosophy of Mind, Mental Representation and Categorization, Memory, Cognitive Neuroscience, Linguistics, and Artificial Intelligence. Through writing and class discussion, students come to understand the complexity of the human mind and the diverse ways in which the mind is studied. Pre-requisite, Psy 150 with C or better. 3 hours.

Psy 220 Community Psychology

Community Psychology is the study of how psychology can be applied to social services such as community mental health centers to effect social change. Emphasis is on planning, prevention, early intervention, research and evaluation as well as how to strengthen existing social support networks and create new ones. Empowerment and primary prevention is the focus of attention. Prerequisite: Psy 150 or Soc 101 or Soc 102 passed with C or better. Cross-listed as PACS 221. 3 hours.

Psy 225 Learning

The discipline of 'learning' stemmed from the Behaviorist and Gestalt Psychological camps during the early development of Psychology. Today, learning includes a broader swath of specialties including: Cognitive, Biological, Educational, Social, and Abnormal Psychology. The systematic study of learning is a comparative branch of Psychology, wherein human and nonhuman animal behavior is investigated. Students complete this course with a more expansive understanding of semi-permanent changes in human and nonhuman animal behavior and the wide applicability and limited generalizability of those behaviors across species and contexts. Pre-requisite: Psy 150 passed with C or better. 3 hours.

**Psy 226 History and Systems
of Psychology**

Psychology is often discussed as having a long past but a short history. This course investigates the past (early philosophy relevant to the 'psyche') and the history (the formal establishment and research within the discipline) through the social, political, and historic, influences on the science of behavior. The goals of this course are to provide students with a more holistic appreciation and understanding of contemporary psychological theories, and the early foundations of modern psychology. Students consider major theories, emerging research directions and controversies within the specialty disciplines of psychology. Pre-requisite: Psy 150 passed with C or better. 3 hours.

Psy 240 Child Development

This course is an introduction to human development with an emphasis on early and middle childhood. Initial discussion focuses on how to best characterize behavioral change over time and the interactive roles of nature and nurture as facilitators of change. Through detailed discussion of theory and research outcomes, students attain a comprehensive understanding of normative trends in physical, cognitive, social, emotional, and personality development coupled with an understanding of the cause of such change. Pre-requisite: Psy 150 with C or better. 3 hours.

Psy 248 Mind, Theory, and Method

This course serves as an introduction to the Philosophy of Science with an emphasis on how psychologists employ the scientific method to answer questions about the nature of mind and behavior. Methodological topics covered may include some or all of the following: the dialectic between philosophical inquiry and empirical methodology, the principles of falsifiability and parsimony, the need for converging evidence in theory building, and the role of case studies in illustrating generalities of behavior. A secondary goal of the course is to introduce students to writing and format expectations set by the American Psychological Association. Content topics used to illustrate these issues vary per instructor, though each section is writing intensive. Pre-requisite, Psy 150 passed with C or better. EngW 101 or 201 highly recommended. 3 hours.

Psy 252 Physiological Psychology

This lab-based course seeks to explain and identify the biological structures of behavior, relating to actions, experience, genetics and phylogeny of the organism. Students learn physiological function and injury through case studies, discussion, video, dissection and lecture. The goals of this course are to provide students with a strong background in neuroscience, neuroanatomy, assessment, and the ability to apply their knowledge to individual trauma case examples. Prerequisite: Psy 150 passed with C or better. Bio 110 or 224 or 240 strongly recommended. 4 hours.

Psy 260 Psychology of Women

This course is a survey of the physiological, emotional, and cognitive aspects of the female experience. Students examine both the similarities and differences between women and men, with an emphasis on experiences unique to women. Cultural expectations are examined particularly those which either overemphasize sex differences or underestimate their psychological and sociocultural value. Prerequisite: Psy 150 or FS 201 passed with C or better. 3 hours.

Psy 308 Social Psychology

This course addresses social behavior from the perspective of humans as social agents, how they affect and are affected by others, topics include: perception of persons, affiliation, communication and attitude change, group processes, leadership, intergroup tension, cultural syndromes, and social roles. Prerequisite: Psy 150, 248, 348, 349, passed with C or better and junior standing. Psy 350 or Soc 301 are strongly recommended as pre-requisites. 3 hours.

Psy 309 Personality Psychology

Students study the grand theories of personality through detailed examination of original writings by Freud, Skinner, R.D. Laing, and Maslow, among others. Students explore the assumptions, logic, and ramifications of psychological theory, and its place in modern experimental psychology. Some critique of psychology as a discipline is included. Prerequisite: Psy 150, 248, 348, 349 passed with C or better and junior standing. 3 hours

Psy 313 Ecological Psychology

This course investigates the reciprocal relationship between the human-environment interaction and the consequences of these interactions. Research from various perspectives are read and discussed. Student discovery occurs through discussion and participation in field trips and through a service learning project. Prerequisite: Psy 150 passed with C or better. 3 hours. [Cross Listed with ENV 313]

Psy 314 Memory and Mind

This course serves to describe and explain Cognition with an emphasis placed on memory processing. Topics covered include the historical precedence of current theory and research, basic versus applied research perspectives, memory processing, mental representation/categorization, the purpose and development of autobiographical memory, interactions between memory and emotion, and memory malleability. Through writing and class discussion, students achieve a deep understanding of the nature of Cognition and key role that memory plays. Prerequisite: Psy 150, 248, 348, 349 passed with C or better and junior standing. 3 hours

Psy 318 Applied Human Development

In this class, human development is considered from a theoretical and an applied perspective. Broadly, course goals are to understand the complex factors influencing human development and normative expectations of how behaviors change over time. Traditional theory and recent research on topics related to cognitive, linguistic, social-emotional, and motivational development are covered. Through writing and class discussion, students come to appreciate the complexity involved in making sound policy decisions on issues such as school readiness, school safety and violence prevention, educational reform, and/or child welfare. 3 hours. Prerequisite: Psy 150, 248, 348, 349 passed with C or better and junior standing. 3 hours

Psy 321 Sensation & Perception

Sensation-Perception is the study of how our sensory experience (e.g. vision, taste, smell, hearing, and touch) is translated into a perceptual experience via the central nervous system. Virtually all knowledge of the sensory system is the result of investigation into our nonhuman relatives physiological functioning; therefore this course investigates both human and nonhuman animal physiology and sensory function in conjunction with human perceptual experience. Prerequisite: Psy 150, 248, 252, passed with C or better and junior standing. Bio 110 or 224 or 240 strongly recommended. 3 hours.

Psy 348 Research Methods in Psychology

This course examines the principles of research design, methodology, and data analysis in psychology. Method and design issues relevant to a wide range of substantive areas in psychology are covered, such as experimental designs, survey research, observational research, and qualitative content analysis. Further, students receive an introduction to data management and analysis, research ethics and the Institutional Review Board (IRB) process. Prerequisite: Psy 150, Psy 248 passed with C or better. Co-requisite: Psy 349 must be taken concurrently with this course; both must be passed in the same semester with a "C" or better. Sophomore standing required. 3 hours.

**Psy 349 Research Methods in
Psychology Laboratory**

This course is graded separately, but is a required component of Psy 348 and must be taken concurrently. In this course students work in groups to design studies, collect data, analyze it and present it. This course also focuses on the writing standards in scientific publication and presentation of results. Prerequisite: Psy 150, Psy 248 passed with C or better. Co-requisite: Psy 348. 2 hours.

Psy 350 Behavioral Statistics

Behavioral statistics provides an introduction to experimental design, descriptive and inferential statistics as well as computer statistical analysis. Math 165 122 strongly recommended. Prerequisite: 248 passed with C or better and sophomore standing. Math 122 or equivalent is strongly recommended. 3 hours.

Psy 351 Directed Research in Psychology

Directed Research provides students with the opportunity to participate in an ongoing research project with a psychology faculty member. This opportunity provides practical research experience for business, career development, and graduate school. Research experience at the undergraduate level facilitates a more competitive application for graduate programs and jobs. Students must have instructor permission and enrollment is limited. May not be used as elective credit in Psychology; can be taken for up to 6 credits total, up to 2 credits per semester.

**Psy 420 Special Topics in
Psychology**

Special Topics is a seminar course focusing on topics of special interest to students and faculty, examples include: Behavioral Endocrinology, Cognition, Evolutionary Psychology, Personality, Sociocultural Psychology, Prerequisite: Psy 150, 248, 348, 349, 350 passed with C or better and junior standing. Instructor permission required. May be repeated for credit as topic varies. 3 or 4 hours.

Psy 444 Psychobiography

Psychobiography attempts to understand the form and content of artistic work from the vantage point of the artist's life history. Previous classes have included analyses of artists Diane Arbus, Kathryn Harrison, Sylvia Plath, Picasso, Oscar Wilde, Jackson Pollack, Vladimir Nabokov, Roald Dahl, Jack Kerouac, James Agee, Kurt Cobain, and Truman Capote, among others. Significant use is made of psychological theory as a means of tracing meaningful connections between the life and creative products. Prerequisite: Psy 150, Psy 248 passed with C or better and junior standing. 3 hours.

Psy 448 Mentoring in Psychology

Advanced psychology students will serve as facilitators and laboratory assistants in psychology courses in which they have previously demonstrated excellence. Mentors attend all classes and co-curricular events and complete of the readings. Mentors will assist in classroom management, study sessions, and laboratory activities. They will work closely with faculty in developing the means to good mentoring during independent meetings with the professor outside of class. Pre-requisites: 15 credits in Psychology and permission of the instructor. May be repeated for elective credit in the major.

Psy 490 Senior Capstone Seminar

The Senior Capstone Seminar is a writing-intensive course. Topics vary as a result of the faculty member's specialty area(s). Students engage in an analysis and discussion of the research and theories in the area. They prepare original works reflecting critical reviews of theories or they design original research as their final products. Pre-requisites: Psy 150, Psy 248, 348, 349, 350 passed with C or better; permission of the instructor to enroll in specific sections. 3 hours.

Psy 499 Advanced Senior Research

This course is for select senior students who wish to engage in research based on their Psy 490 seminar projects or their Psy 351 research experience. Students prepare their results in APA style for required professional presentations at academic conferences and at Senior Projects Day. Pre-requisites: Psy 150, Psy 248, 348, 349, 350 passed with C or better. Minimum 3.25 GPA in the major and 3.00 GPA overall. Students must obtain permission of the instructor to enroll in this course. 3 hours. Spring only.

SOCIOLOGY, ANTHROPOLOGY AND SOCIAL WORK

Sarah R. Phillips, *Chair, Associate Professor of Sociology*

Vernon L. Bates, *Professor of Sociology*

Andrea Doerfler, *Assistant Professor of Social Work*

Cheleen Mahar, *Professor of Anthropology*

Adam Rafalovich, *Assistant Professor of Sociology*

Byron D. Steiger, *Professor of Sociology*

Christopher Wilkes, *Professor of Sociology*

The Department of Sociology and Anthropology offers the following programs: a major in Anthropology and Sociology; a major in Sociology; and an interdisciplinary major in Social Work. In addition to the majors, the Department offers a minor in Sociology and in Anthropology.

The major in Anthropology and Sociology recognizes that both fields share a common philosophical and theoretical history.

As well, both share a concern for the social and cultural conditions of human life. The fundamental aims of the major are to provide students with the analytical perspectives for the systematic understanding of human social and cultural existence and to prepare students for graduate education and professional employment in which cultural diversity and cross-cultural understanding are essential.

The major in Sociology is designed to provide basic knowledge about the development, structure and function of human groups and societies, and relationships among these groups and societies. The program contributes to a liberal arts education, prepares students for graduate training in sociology, and is preparatory for social services and other careers.

The major in Social Work provides general knowledge about human needs and resources and elementary skills in building counseling relationships. The major is intended to either provide sufficient skills to function at an entry-level position, such as a Public Assistance Case-worker, or to provide the background necessary for entry into graduate study. Students who major in Social Work will undertake an internship to apply and develop their skills.

Goals for the Majors

Students who successfully complete majors in Sociology or Anthropology should have the ability to carry out an independent senior research project and to present that project in a coherent oral and written form to be evaluated by peers and by faculty. Students should also have the ability to carry out similar collaborative projects. It is presumed that these abilities are a foundation for one's life and career. In order to do this students must possess the following:

- an ability to exercise sociological/ anthropological imagination — observing the relationship between individuals and historical, cultural and social forces;
- an ability to perceive the general in the particular — how one's particular life experiences are shaped by the general categories of class, age, race, ethnicity, gender, religion and subculture;
- a fundamental understanding of the important theoretical constructs of each discipline;
- a fundamental understanding of the basic scientific methods of the disciplines, both quantitative and qualitative, and an ability to choose the appropriate methodologies for one's work;
- an ability to understand and use data and statistics.

MAJOR IN ANTHROPOLOGY AND SOCIOLOGY

A major in Anthropology and Sociology must complete the following core courses with a grade of "C-" or better and maintain a 2.0 average in the major. These same standards apply to the minor in Anthropology.

Requirements

| | | |
|----------|--------------------------------------|---|
| Anth 101 | Introduction to Anthropology | 3 |
| Anth 301 | Research Methods in Anthropology, OR | |
| Soc. 300 | Methods of Social Research .. | 4 |
| Soc. 301 | Social Statistics | 4 |
| Anth 494 | Senior Research Seminar ... | 1 |
| Anth 495 | Independent Research | 3 |
| Soc. 414 | Sociological Theory | 4 |

Three of the following courses in Anthropology: 202, 210, 320, 330, 340 9-10
and three of the following courses in Sociology: 208, 266, 312, 313, 325

37 or 38

MINOR IN ANTHROPOLOGY

Requirements

| | | |
|-----------|--|---|
| Anth 101 | Introduction to Anthropology | 3 |
| Anth 301 | Research Methods in Anthropology | 4 |
| Electives | ..... | 9 |

Choose three courses in Anthropology (at least two must be upper-division courses.)

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MAJOR IN SOCIOLOGY

The Sociology major must complete the following core courses with a grade of "C-" or better and maintain a 2.0 average in the major. These same standards apply to the minor in Sociology and Anthropology.

Requirements

| | | |
|---|--|----|
| Soc 101 | Introduction to Sociology .. | 3 |
| Soc 102 | Social Problems | 3 |
| Soc 300 | Introduction to Social Research | 4 |
| Soc 301 | Social Statistics | 4 |
| Soc 414 | Sociological Theory | 4 |
| Soc 494 | Senior Research Seminar ... | 1 |
| Soc 495 | Independent Research | 3 |
| Additional courses in sociology which must include at least three 300-level courses | | 18 |

Note: Soc.Wk 201, 300, 301, 494, and 475 cannot be used for the Sociology major.

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Strongly recommended for a Sociology major: Hist 101, 102; Phil 101; Econ 101, 102.

MINOR IN SOCIOLOGY

Requirements

| | | |
|---|------------------------------|----|
| Soc 101 | Introduction to Sociology .. | 3 |
| Soc 102 | Social Problems | 3 |
| Electives | ..... | 15 |
| Choose five or more 3-hour courses in sociology (at least two of which must be upper-division.) | | |

Note: SocWk 201, 300, 301, 494, and 475 can not be used for the Sociology minor.

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Any student interested in a Sociology minor should consult with a faculty member in the Sociology Department before the end of the sophomore year.

MAJOR IN SOCIAL WORK

The Social Work major must complete the following core courses with a grade of "C-" or better and maintain a 2.0 average in the major.

Requirements

| | | |
|---|---|------|
| Psy 150 | Introduction to Psychology | 3 |
| Psy 318 or Psy 240 (a Developmental Psychology course) | | 3 |
| Psy 211 | Abnormal Psychology | 3 |
| Either Soc 101 or Soc 102 | | 3 |
| Soc 101 | Introduction to Sociology | |
| Soc 102 | Social Problems | |
| SocWk 201 | Principles of Social Work ... | 3 |
| Either Anth 300 or Soc 300 | | 4 |
| Anth 301 | Research Methods in Anthropology | |
| Soc 300 | Intro to Social Research | |
| Soc 301 | Social Statistics | 4 |
| SocWk 300 | Micro Social Work Practice ... | 4 |
| SocWk 301 | Macro Social Work Practice .. | 4 |
| SocWk 320 | Human Behavior in the Social Environment | 3 |
| SocWk 425 | Counseling and Interviewing Techniques | 3 |
| SocWk 494 | Internship Seminar | 1 |
| SocWk 495 | Social Work Internship ... | 4-14 |

Two of the following courses

| | | |
|----------|-------------------------|--|
| Soc 204 | Criminology | |
| Soc 208 | Race Relations | |
| Soc 209 | Sociology of the Family | |
| Soc 211 | Delinquency | |
| Soc 217 | Gender and Sexuality | |
| Soc 266 | Deviance | |
| Soc. 321 | Sociology of the City | |
| Soc. 325 | Hispanics in the U.S. | |

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COURSE DESCRIPTIONS

Anthropology (Anth)

Anth 101 Introduction to Anthropology

The character of culture and the nature of social behavior as developed through the anthropological study of contemporary peoples. 3 hours. Annually.

Anth 202 Film, Text and Culture

This course examines the use of film, photography and text as data collection methods and representations for ethnographic research. Methodological and epistemological issues are explored in a comparison of ethnographic documentaries. As part of the course requirement students are expected to complete short observational and photographic projects. Prerequisite: Anth 101 or Soc 101 or 102. 3 hours.

Anth 210 Mesoamerican Cultures

A survey of early Mayan and Aztec societies, how they fared under Spanish Colonial rule and their contemporary lives. The course focuses upon indigenous peoples, examining their articulation in contemporary states in relation to ethnic consciousness and cultural processes. Prerequisite: Anth 101 or Soc 101 or 102 or consent of instructor 3 hours. Biennially. Meets cross-cultural requirement.

Anth. 299 Field Experience

A course for students who wish to combine anthropology and their service learning experiences through the Humanitarian Center. 1-2 hours.

Anth 301 Research Methods in Anthropology

Helps students critically evaluate anthropological methods and their own fieldwork strategies. Explores ethnographic fieldwork and methods through an analysis of the nature of social practice as it is reflected in the anthropological literature. Ethnographic methods include participant observation, survey skills, interviewing skills, careful attention to language and the ethical dimensions of research. Students have the opportunity to apply these methods in research projects in the local community. Prerequisite: 6 hours of Anthropology or Sociology or consent of instructor. 4 hours. Biennially.

Anth 320 South American Traditional Societies

Ethnographic studies of the social, economic and political forms of small-scale non industrial societies. This class looks at a variety of cultural systems from the Amazon Basin to the Andes, during historical and contemporary times. Prerequisite: 6 hours of Anthropology or Sociology or consent of instructor. 3 hours. Biennially. Meets cross-cultural requirements.

Anth 330 Gender in Cross-Cultural Perspective

This class investigates the notion of gender as it has been constituted in different times and places. The course examines theoretical developments in the anthropology of gender and explores gender cross-culturally, using examples from a wide range of societies, past and present. Prerequisite: Anth 101 or Soc 101 or 102 or consent of instructor. Prerequisite: 6 hours of Anthropology or Sociology or consent of instructor. 3 hours. Biennially. Meets cross-cultural requirement.

Anth 340 Symbolism, Myth and Ritual

Anthropological approaches to the study of myth, ritual and symbols which focus upon cultural meaning. Examines the nature of myth and ritual in a variety of cultures. Prerequisite: Anth 201 or 202 or Soc 313 or consent of instructor. 3 hours. Biennially. Meets cross-cultural requirement.

Anth 356 Culture, Class and Cuisine

Explores people's relationship to food with regard to the environment, gender, class structure and the increasing globalization and homogenization of food. Of particular importance are the cultural influences on cuisine as food plays a social, symbolic and political-economic role across cultures. Prerequisite: Junior Standing. 4 hours. Biennially.

Anth 494 Senior Research Seminar

The focus is to assist students in selecting an area of interest from which to draw an independent research project, to do an initial literature review, to develop a theoretical framework, and to develop a research methodology for the senior research project. Prerequisite: 19 hrs. of Anthropology or Sociology including Anth 301 or Soc 300. 1 hour. Annually in the Fall. Pass/No Pass.

Anth 495 Independent Research

Student-conducted individual research/theoretical project. Prerequisite: 20 hours of Anthropology or Sociology including Anth 494. 3 hours. Faculty supervised.

Sociology (Soc)**Soc 101 Introduction to Sociology**

Provides an intensive introduction to human behavior in groups including a study of family, education, religion, government, ecology, deviancy. Basic concepts and terminology are emphasized. 3 hours.

Soc 102 Social Problems

Study of the nature, scope, causes, effects alternatives and solutions to the major problems in society, such as poverty, crime, and health. 3 hours.

Soc 204 Criminology

An analysis of criminal behavior from theft to homicide, and society's reaction to it. Specific areas covered include: the defining of criminal behavior, the varieties of crime, the causes of crime, and the criminal justice system from arrest to imprisonment. Prerequisite: Soc 101 or 102 or consent of instructor. 3 hours.

Soc 208 Race Relations

The primary emphasis is on the relationships between dominant (majority) and subordinate (minority) racial and ethnic groups in the United States. Designed to enable the student to understand the principles and processes which shape the patterns of relations among racial, ethnic, and other groups in society. Meets cross-cultural requirement. Prerequisite: Soc 101 or 102 or by consent of instructor. 3 hours.

Soc 209 Sociology of the Family

The primary emphasis is on the relationship between the familial institution and the society in which it is being studied. Attention is given to trans-historical and cross-cultural data, social change, definitions of the family, socialization, courtship, marriage, divorce, sex roles, sexuality, socio-economic forces, alternative forms, and the future. Prerequisite: Soc 101 or 102 or consent of instructor. 3 hours.

Soc 211 Juvenile Delinquency

An analysis of the definition of delinquency, its history, causes, societal reaction, and treatment and prevention. Prerequisite: Soc 101 or 102 or consent of instructor. 3 hours..

Soc 217 Gender and Sexuality

An introduction to the theories and methods used by sociologists to study masculinity and femininity, the social and historical construction of sexuality, love, and romance. Discussion includes the sociology of homosexuality, bisexuality, and heterosexuality, as well as issues of HIV/AIDS, teen pregnancy, prostitution, pornography, sexual harassment and rape in the United States. Prerequisite: Soc 101 or 102 or consent of instructor. Must be 18 years of age. 3 hours. Biennially.

Soc 266 Deviance

An analysis of definitions of deviance, causes of deviance, and societal reaction to deviance. The relationship between deviant behavior and social justice will be explored. Topics include drug use, mental disorder, the sex industry, suicide, sexual preference, crime and corporate crime. Prerequisite: Soc 101 or 102 or consent of instructor. 3 hours.

Soc 300 Introduction to Social Research

Analysis and application of the logic and methods of science in sociology is studied. The student learns by doing a research project that goes through all stages: theory, hypothesis, operationalization, research design, population/sampling, data collection, and analysis. Prerequisite: Soc 101 or 102. 4 hours. Biennially.

Soc 301 Social Statistics

Introductory statistics course for students in the social sciences. The emphasis of the course will be on understanding how social scientists use numerical data to understand social phenomena, and how to use and interpret statistical measures and techniques commonly reported in the social sciences literature. Prerequisite: Math 122 or consent of instructor. 4 hours.

Soc 307 Collective Behavior and Social Movements

Description and analysis of human behavior in collectives. Concentration focuses on the dynamics of rumor, panics, crowds, mass behavior, mass communication, fashions, fads, public opinion, and social movements. Prerequisite: 9 hours of Sociology. Junior standing 4 hours. Biennially.

Soc 312 Social Interaction

A study of the interaction process as the central element in human social life, the primary occasion for communication, and the origin of both social structure and the individual human identity. Attention is given to symbolic communication, interaction, socialization, role theory, self-concept, deviance. Prerequisite: 9 hours of Sociology. 3 of the 9 may be taken in Anthropology. Junior standing. 3 hours. Biennially.

Soc 313 Sociology of Religion

A sociological analysis of religious belief, ritual, experience, and organization. Issues to be considered include the social origins of religion, its significance as a social force and as a form of social control, and the relation between religious institutions and the larger society of which they are a part. Prerequisite: 9 semester hours of Sociology. 3 of the 9 may be taken in Anthropology. Junior Standing. 3 hours. Biennially.

PACS 313 The Sociology of Violence

(See PACS in section on Special Academic programs.) Counts toward the major in Sociology. 3 hours. Biennially.

Soc 315 Equality and Inequality

The course analyzes inequalities of wealth, power, and prestige in societies. The sources and consequence of inequality as well as the moral issues involved are emphasized. Implications for social mobility for the individual or for social groups are analyzed. Prerequisite: Soc 101 or 102. 3 hours. Biennially.

Soc 319 Sociology of Medicine

The course analyzes the social and demographic variables affecting health, morbidity, and mortality rates. It also examines the social roles in illness (e.g., doctor and patient): their definitions and consequences. Attention is given to the study of medical care institutions and their systems and structures. The relations between social policy and health are debated. Prerequisite: Soc 101. 3 hours. Biennially.

Soc 321 Sociology of the City

An exploration of the modern United States city. We will use Portland as a "laboratory" for understanding the evolution of cities, how modern cities "work," the problems and successes of urban areas. Prerequisite: Soc 101 or 102. 3 hours.

Soc 325 Hispanics in the U.S.

A study of the history, literature, culture, and demographics of Hispanic groups in the U.S. An interdisciplinary approach will be taken toward placing in perspective the major political, social, and educational issues facing these groups. Students will simultaneously be engaged in a field experience in the Hispanic community. Prerequisite: Spanish 102. Meets cross-cultural requirement. 4 hours.

Soc 356 Culture, Class and Cuisine

Explores people's relationship to food with regard to the environment, gender, class structure and the increasing globalization and homogenization of food. Of particular importance are the cultural influences on cuisine as food plays a social, symbolic and political-economic role across cultures. Prerequisite: Junior Standing. 4 hours. Biennially.

Soc 357 Social Change

Review and critique of theories of social change. Analysis of factors causing change and the mechanisms by which social change comes about. Emphasis is placed on understanding the 20th century. Prerequisite: 9 hours of Sociology. 3 of the 9 maybe taken in Anthropology. Junior standing. 3 hours. Biennially.

Soc 350 Special Topics in Sociology

Seminar or tutorial course focusing on topics of interest to students and faculty. This course may be repeated for credit when topics vary. 3 hours. Prerequisite: Sociology 101 or 102 and Junior Standing.

Soc 414 Sociological Theory

The origin and development of sociology are analyzed through the examination of major historical theorists and of contemporary schools of sociological thought. Prerequisite: 9 hours of Sociology. Junior Standing 4 hours. Biennially.

Soc 494 Senior Research Seminar

The focus is to assist students in selecting an area of interest from which to draw an independent research project, to do an initial literature review, to develop a theoretical

framework, and to develop a research methodology for the senior research project. Prerequisite: 19 hrs of Sociology, including Soc 300 and Soc 301. 1 hour. Annually in the Fall. Pass/No Pass.

Soc 495 Independent Research

Student-conducted individual research/theoretical project. Prerequisite: 20 hours of Sociology including Soc 494. 3 hours. Faculty supervised.

Special topics in sociology taught periodically at faculty discretion:

Social Work (Socwk)

SocWk 201 Principles of Social Work

Provides an introduction to the field of social work practice with an emphasis on the historical development of social work as well as the values and ethics that guide social work practice. Students will explore possible career opportunities in the field of social work and will be required to complete 40 hours of field experience in a social service agency. 3 hours.

SocWk 300 Micro Social Work Practice

This course focuses on the change process at the three levels of micro social work practice (individual, family and group). Students will acquire specific skills which will assist them in assessing, contracting, working with and terminating with clients. Students are required to complete 40 hours of field experience in a social service agency. Prerequisite: SocWk 201 and Junior standing. 4 hours.

SocWk 301 Macro Social Work Practice

This course provides an overview of the major influences on the service delivery system, including social work values and ethics. The student will trace the evolution of social welfare and American social policy in a multicultural context. Macro intervention and the change process at three levels of social work practice (organizations, community, and state and federal public policy) will be the focus of the course. Students are required to complete 40 hours of field experience in a social service agency. Prerequisite: SocWk 201 and Junior standing 4 hours.

SocWk 320 Human Behavior in the Social Environment

This course provides an introduction to the various theories related to human behavior in the social environment in the context of a life span developmental perspective. The relation-

ship between social, biological, psychological, environmental and cultural systems will be analyzed as they relate to the "person-in-environment" foundation of professional social work practice. Prerequisite SocWk 201. 3 hours

SocWk 425 Counseling and Interviewing Techniques

The purpose of this course is to familiarize students with fundamental counseling and interviewing techniques according to the major psychosocial theories. Students will also examine the impact of diversity, self-awareness, and use of self on the counseling process. Prerequisite: Psy 311 (or permission of the instructor). 3 hours.

SocWk 470 Social Work Seminar

The focus of this course is to assist students in preparing for the social work internship experience. Students will select a population of interest and will conduct a literature review in order to develop a theoretical framework for intervention with that population. Students will also complete the tasks necessary for obtaining an internship site including resume preparation, interviewing and developing a learning agreement. Prerequisites: 19 hours in required social work courses. 1 hour.

SocWk 475 Internship

This course will provide students with an opportunity to integrate theoretical and clinical learning in an agency setting. Students will work as interns in an approved agency throughout the semester under the supervision of an agency staff member in consultation with a social work faculty member. Students will complete a signed learning agreement prior to beginning the internship which will guide their individualized learning experiences.

Interns will be required to meet with the instructor and other social work interns in a weekly seminar setting to discuss their work in the field placement. In addition to hours spent working in the field, students will be expected to complete assignments and readings intended to enhance the internship experience. Prerequisites: 2.75 GPA, 19 hours in required Social Work courses including SocWk 470. 4-14 hours.

THEATRE AND DANCE

Ellen Margolis, *Chair, Assistant Professor of Theatre*

Jennifer Camp, *Director of Dance*

Joel Hobson, *Scenic and Lighting Designer, Instructor of Design, and Technical Director*

Greta Christensen, *Costume Designer, Costume and Make-up Instructor*

Barbara Stalick, *Instructor of Dance*

At Pacific, the theatre experience is offered to all students regardless of major. The most collaborative of the arts, theatre blends performance with literature, history and the visual arts and provides practical, technical and organizational training.

For those interested in professional theatre or teaching, the curriculum provides a well-rounded foundation for graduate school or the professional world. At Pacific, students are encouraged to become involved. Acting, directing, scenic and costume construction, design, playwriting, lighting, and make-up are but a few of the activities available. We invite you to participate.

Theatre Major Goals

Through theatrical production and academic study, the Pacific Theatre Department strives to provide students with:

1. Appreciation for the functions of the arts in society, specifically for the importance of story-telling, plays, dance and musical theatre.
2. Practical experience in theatre production, including scenic, lighting, costume, sound and make-up design; acting; stage management; dance; theatre technology; playwriting; and directing.
3. Critical thinking, writing, speech and organizational skills common to a degree in the humanities.
4. Practical skills applicable to a wide range of careers, including collaboration, problem-solving, project organization, communication and time management.
5. Preparation for careers in theatre, television, film, advertising, arts management, public relations and teaching.
6. Preparation for graduate study in performance, design and scholarly disciplines.

MAJOR IN THEATRE:

Requirements

Core courses

| | | |
|--|---|---|
| Thea 110 | Acting I: Fundamentals | 3 |
| Thea 120 | Technical Theatre | 3 |
| Thea 150-151-152-153-154-155-156: 3 credits from these practical courses, with no more than 1 credit in any area | | |
| Thea 215 | Intro to Scene Design | 3 |
| Thea 330 | Directing I: Fundamentals .. | 3 |
| Thea 350 | Theatre History and Dramatic Literature I | 3 |
| Thea 360 | Theatre History and Dramatic Literature II | 3 |
| Thea 495 | Thesis (Directing, research playwriting, choreography, design or performance – Learning Contract required) .. | 3 |

9 elective credits in Theatre & Dance, chosen from the following:

Theatre 225, 253, 310, 312, 320, 323, 355, 270/370, 395, 455

Dance 355, 400

AND 9 elective credits in related disciplines, chosen from the following, in consultation with advisor:

Art courses at 200-level or above

Media Arts courses in Television, film, or audio production

Dance 105, 121, 126, 205, 221

English 310, 323, 340

French 304

German 304

Music 101, 102, 110, 111, 112, 211, 212, 321-324

Spanish 304

Total credit-hours: 42

MINOR IN THEATRE:**Requirements**

Thea 110 Acting I 3

Thea 150-151-152-153-154-155-156: 2 credits from these practical courses, with no more than 1 credit in any are a 2

Thea 120 Technical Theatre 3

Thea 330 Directing I: Fundamentals . 3

Thea 350 or 360 History and Dramatic Literature I or II 3

Electives: Six upper-division hours in Theatre in consultation with the Director of Theatre 6

Total credit-hours: 20

MINOR IN DANCE

The Dance minor is available to all undergraduate students. Dance studies complement majors in theatre, music, visual arts, media arts, exercise science, education and psychology. The Dance minor offers strong emphasis on creativity through performance and choreography.

All dance classes count toward core requirements in Arts and may be repeated for credit. Most are graded P/NP.

Requirements:

Dance Technique (one from each area: 5
Danc 105, 121, 126, 205, 221, 226 including at least one each in Jazz, Modern, and Ballet)

Thea 110 Acting I 3

Thea 152 Costume 1

Thea 153 Lighting 1

Thea 151, 154, 155, or 156 1

Thea 225 Makeup 1

Dance 226 Modern Dance II 2

Thea 330 Directing 3

Danc 400 Dance Composition & Performance 2

Danc 495 3

in consultation with the Dance Instructor and Director of Theatre

Total credit-hours: 20

COURSE DESCRIPTIONS

THEATRE (Thea)

Thea 101 The Theatre Experience
An introductory course for the curious – those with little or no background in theatre. Students may attend and critique 4-5 plays during term. Not required for theatre majors. 3 hours.

Thea 110 Acting I: Fundamentals
Introduction to voice, movement, and acting for the stage, with techniques drawn from Stanislavsky-based method, Viewpoints, and Linklater. Students who hope to act in plays are encouraged to take course freshman or sophomore years. 3 hours.

Thea 120 Technical Theatre
An introductory practicum to technical Theatre: scenic construction, painting, lighting, costume and audio production. A minimum of 35 lab hours will include assignments on construction and running crews for department productions. 3 hours.

Thea 150 Theatre Company Performance
Active participation in a dramatic production as an actor or performer. 1-2 credit hours. Offered each semester. May be taken 4 times. Must audition and be cast in a play to enroll.

The following are categories of practice in theatre production. In most circumstance, freshman or new Theatre students should sign up for the Thea 151, General Technical Theatre, as their introduction to this sequence.

Thea 151 Theatre Company (General technical theatre)
1-2 credit hours.

Thea 152 Theatre Company: Costume & Makeup
1-2 credit hours. Instructor consent required.

Thea 153 Theatre Company: Lighting
1-2 credit hours. Instructor consent required.

Thea 154 Theatre Company: Organizational & Management
1-2 credit hours. Instructor consent required.

Thea 155 Theatre Company: Publicity
1-2 credit hours. Instructor consent required.

Thea 156 Theatre Company: Running crew or board operators.
1 credit hour. Instructor consent required.

Thea 210 Acting II: Intermediate
Intensive scene work, script analysis, and development of a methodical approach to acting. Intermediate work in voice and movement; introduction to dialects. Prerequisite: Theatre 110.

Thea 215 Intro to Scene Design
Introduction to scenic design for the stage, with emphasis on concepts of design, script analysis, lighting, drawing, mechanical and computer design and model building. 3 hours. Prerequisite: Theatre 120.

Thea 225 Makeup
Practice in design and application of theatrical makeup. Students are expected to purchase their own makeup supplies. 1 hour.

Thea 253 Traditional Japanese Drama
This course focuses on three major Japanese theatrical forms, Noh, Bunraku, and Kabuki, from the 13th to the 18th century, with emphasis on how each traditional form has developed within a certain historical and social background. Readings are in English. Course may have special appeal for students interested in theatre, Japanese, philosophy, religion (especially Zen Buddhism), aesthetics, or comparative literature. 3 hours. Prerequisite: Sophomore standing.

Thea 270/370 Theatre in London
An experiential two-week exploration of theatre in England, during which students attend and critique at least 9 professional plays, meet with British theatre professionals and tour theatre facilities in London and Stratford-upon-Avon. Extra cost for air-fare, tickets and lodging. (Approximately \$2,275. See schedule for current rate) Offered Winter III. 3 hours.

Thea 310 Acting III: Style
Introduction to period acting with emphasis on Shakespeare, classical Greek drama, and verse. Prerequisite: Thea 210.

Theatre 312 Phonetics and Dialects

Introduction to the International Phonetic Alphabet and study of eight or more dialects of spoken English for the stage. 3 hours.
Prerequisite: Thea 210.

Thea 320 Drawing for the Theatre

Studio course encompassing multiple kinds of drawing used in theatrical design, including sketching, mechanical perspective, rendering, drafting, and computer-aided design. 3 hours.
Prerequisite: Thea 120.

Thea 323 Lighting Design

An introduction to lighting design for the stage with an emphasis on analysis and practical experiment. Exploration of the dramatic effects of light and the place of design in theatrical productions, as well as hands-on experience with the tools, conventions, and process of lighting design. 3 hours. Prerequisite: Thea 120.

Thea 330 Directing I, Fundamentals

Laboratory course in script analysis, conceptualization, preparation, working with production staff, casting, and rehearsal. Prerequisite: Theatre 110 and 210.

Thea 350 Theatre History and Dramatic Literature I: Classical through Romantic

Study of European and Asian performance traditions, production conditions, and dramatic literature from 500 BC to the 19th century, taught through lecture, research, performance critiques, creative projects, and discussion. Offered in odd-numbered years.

Thea 360 Theatre History and Dramatic Literature II: Modern and Contemporary

Development of theatre from 1875 to the present with special emphasis on the influential practitioners and styles of the period. 3 hours.

Thea 495 Senior Thesis

Intensive practicum or research, which may be a substantive project in performance, design, directing, scholarship, choreography, or playwriting. Must be arranged with Director of Theatre through a proposal process, to be completed prior to beginning work on the thesis. 3 hours.

Dance (Danc)**Danc 105 Ballet I**

Classical ballet technique beginning at basic level. Graded P/NP. May be repeated for credit. 1 hour.

Danc 121 Jazz Dance I

Basic Jazz dance for beginners. Graded P/NP. May be repeated for credit. 1 hour.

Danc 126 Modern Dance I

Exploration of basic concepts of dance movement – space, time, design, expression – and appropriate techniques. Graded P/NP. May be repeated for credit. 1 hour.

Danc 129 Dance Ensemble

Rehearsal and performance of new dance repertory and historical choreography. Continue development and refinement of skills acquired in Danc 121, 221 or 126. Occasional work with guest dance artists and choreographers. Meets twice weekly. May be repeated for credit. 1 credit camp, offered each semester.

Danc 205 Intermediate Ballet

Continuation of ballet technique introduced in Danc 105. Prerequisite: Danc 105 or consent of instructor. Graded P/NP. May be repeated for credit. 1 hour.

Danc 221 Jazz Dance II

Continuation development of techniques learned in Danc 121. Prerequisite: Danc 121 or consent of instructor. Graded P/NP. May be repeated for credit. 1 hour.

Danc 226 Modern Dance II

Through training at an intermediate level in Modern Dance technique and viewing of professional dance performances, students will gain strength, flexibility, and endurance; build awareness of musicality; develop appreciation and critiquing skills; learn pertinent anatomical vocabulary; and develop technique. 2 hours. Prerequisite: Danc 126 or consent of instructor.

Danc 400 Dance Composition and Performance

Choreographic and composition skills. Exploration of dance technique and choreography in preparation for performance. Prerequisite: Danc 121, 126, and 221; or consent of instructor. May be repeated for credit. 2 hours.

WORLD LANGUAGES & LITERATURES

Nancy Christoph, *Chair, Associate Professor of Spanish*

Lorely French, *Professor of German*

Sandra Garcia, *Instructor of Japanese*

Kazuko Ikeda, *Associate Professor of Japanese*

Emily Knudson-Vilaseca, *Instructor of Spanish*

Atsuko Kurogi, *Instructor of Japanese*

Yasutaka Maruki, *Assistant Professor of Japanese*

Katya Monge-Hall, *Instructor of Spanish*

Jann Purdy, *Instructor of French*

Gabriella Ricciardi, *Assistant Professor of French*

Victor Rodriguez, *Associate Professor of Spanish*

Mariana Valenzuela, *Instructor of Spanish*

Stephen Vilaseca, *Assistant Professor of Spanish*

Marcus Welsh, *Instructor of Spanish*

Jingzhu Wu, *Instructor of Chinese*

The Department of World Languages and Literatures seeks to provide the general student with awareness of and sensitivity toward the cultural and linguistic diversity of an increasingly interconnected world. For students specializing in language study, the Modern Languages curriculum teaches proficiency in speaking, writing and comprehending a modern language. Majors spend a semester or a year in study abroad. The curriculum is designed to ensure mastery of the languages studied through intensive conversational training.

The faculty of the department is diverse and international. There are twelve full-time faculty members and one part-time member. Three languages are represented in the curriculum: Chinese, French, German, Italian, Japanese and Spanish. All the members of the faculty carry out research or creative writing projects, publish regularly, and participate actively in professional organizations.

The Modern Languages major may concentrate in Chinese, French, German, Japanese or Spanish as a primary language. Majors are required to complete 12 semester hours in an accredited program outside the United States, offered in the language in which the student is specializing. Students may also select a major in Japanese or Spanish or a major in French or German Studies. Pacific students may apply their financial aid awards to foreign study undertaken through the Study Abroad program of the department. (For more information on studying abroad, see International Programs.)

All courses in the department are open to non-majors who have the appropriate prerequisites. Students are invited to pursue their area of interest within the framework of departmental offerings.

For information about language courses, the major, or the Study Abroad program, contact Professor Nancy Christoph.

Goals for Majors in the Department of World Languages and Literatures

The department seeks to graduate majors who:

- embody the essence of liberal arts values;
- have a high level of proficiency in all four skill areas of the language of concentration: listening, speaking, reading and writing;

- have participated in at least a semester of study abroad and are sensitive to cultural differences;
- have some knowledge of the major literary and intellectual trends of the culture of concentration;
- are acquainted with the different modes of research within their field;
- have conducted original research and written a senior thesis in the language of specialization or have completed a capstone project;
- are prepared to pursue graduate/professional studies or immediately enter the job market able to seek employment in a broad spectrum of career possibilities.

MAJOR IN MODERN LANGUAGES

Requirements

| | |
|---|-----|
| Primary language (French, German, Japanese, Spanish) | 30 |
| Lower division | 12 |
| 2 300-level classes (at Pacific) | 6 |
| Upper-division (overseas) | 12 |
| 400-level class in primary language (capstone) | 3-4 |
| Secondary language(s) | 12 |
| May include two full years of one language or one full year of two different languages. | |

One course from the list of the following:

| | |
|--|-------|
| Engl 332, Engl 343, Span 320, Worl 301, Worl 302, Worl 430 | 3 |
| <hr/> | |
| | 48-49 |

A student majoring in Modern Languages must complete all courses with a grade of C- or better.

Students will enter the sequence at a level appropriate to their previous preparation. Students who enter with previous foreign language training may be exempt from a maximum of 6 hours of the major requirement. Students entering the sequence at the 300 level will complete a minimum of 12 hours selected from upper-division offerings.

International students, who have taken ESL classes at the university level and who want to major in Modern Languages, may be exempted from the 12 credits of a secondary foreign language.

MAJOR IN JAPANESE

Requirements

| | |
|---|-------|
| Japn 101-102 | 6 |
| Japn 201-202 | 6 |
| Upper-division hours earned overseas | 12-16 |
| 4 Upper-division classes at Pacific, at least two of which must be numbered 400 | 12 |
| Japn 490 Senior Capstone | 3 |
| One course from the following list: Art 274, Hist 111, Hist 112, Hist 211, Hist 315, Hum 205, Phil 305, Pols 344 | |
| | 3-4 |
| <hr/> | |
| | 42-47 |

A student majoring in Japanese must complete all courses with a grade of C- or better.

Students will enter the sequence at a level appropriate to their previous preparation and may be exempt from up to 12 hours of lower-division credit.

MAJOR IN SPANISH

Requirements

| | |
|--|-------|
| Span 101-102 | 6 |
| Span 201-202 | 6 |
| 3 300-level classes in Spanish (including at least one of the following courses: Sp 302, 303, 304, 305, 308) | 9 |
| (one of these classes may be waived, if student studies abroad for the whole year) | |
| Upper-division hours earned overseas | 12-16 |
| <i>*Span/Educ 465, 466, 467 do not count toward the major</i> | |
| 2 classes numbered 400 at Pacific | 6 |
| Span 485 Seminar in Hispanic Studies | 4 |
| | 43-47 |

A student majoring in Spanish must complete all courses with a grade of C- or better.

Students will enter the sequence at a level appropriate to their previous preparation and may be exempt from up to 12 hours of lower-division credit.

MAJOR IN FRENCH STUDIES

Rationale: To provide a viable major that emphasizes France and the French-speaking world.

Requirements

| | |
|---|-------|
| Fren 101-102 | 6 |
| Fren 201-202 | 6 |
| Upper-division hours earned overseas in a French-speaking country | 12-16 |
| 2 French classes numbered 300 at Pacific | 6 |
| 1 French class numbered 400 at Pacific ... | 3 |
| 3 classes from the following list of related classes (Must include at least 6 credit hours taken at Pacific): | 9-12 |

Anthropology:

| | | |
|----------|--|---|
| Anth 340 | Symbolism, Myth and Ritual | 3 |
| Anth 400 | Transnationalism in a Postmodern World | 3 |

Art:

| | | |
|---------|---|---|
| Art 271 | History of Western Art II: Renaissance through Impressionism | 3 |
| Art 272 | History of Western Art III: Post Impressionism Through 20th Century | 3 |

English/International Studies:

| | | |
|----------|---------------------------------------|---|
| Engl 332 | Introduction to Linguistics | 3 |
| OR | | |
| Engl 343 | Studies in Criticism and Theory | 3 |
| OR | | |
| IS 201 | Intercultural Communications | 3 |

History:

| | | |
|----------|--|---|
| Hist 206 | France from Caesar to Napoleon | 3 |
| Hist 235 | Europe Since 1945 | 3 |
| Hist 301 | The Medieval World: 400-1500 | 3 |
| Hist 333 | Imperialism and Decolonization | 4 |
| Hist 335 | Era of World War I | 4 |
| Hist 338 | The Era of the French Revolution | 4 |
| Hist 401 | Charlemagne and his Era .. | 3 |

Media Arts:

| | | |
|----------|--------------------|---|
| MedA 401 | Film Topics* | 3 |
|----------|--------------------|---|

Philosophy:

| | | |
|-------------------------|------------------------------|---|
| Phil 412 | Major Philosophers* | 4 |
| Phil 420 | Seminar in Philosophy* | 4 |
| (*will depend on topic) | | |

Note: Check individual departments for course descriptions and course schedules for semesters offered.

| | |
|--|-------|
| Fren 494/495 Thesis, normally written in French (2 credits/semester) | 4 |
| | 46-53 |

A student majoring in French Studies must complete all courses with a grade of C- or better.

MAJOR IN GERMAN STUDIES

Rationale: To provide a viable major that emphasizes Germany and the German-speaking world.

Requirements

| | |
|---|-------|
| Ger 101-102 | 6 |
| Ger 201-202 | 6 |
| Upper-division hours earned overseas in a German-speaking country | 12-16 |
| 2 German classes numbered 300 at Pacific | 6 |
| 1 German class numbered 400 at Pacific | 3 |
| 3 classes from the following list of related classes: | 9-12 |
| (Must include at least 6 credit hours taken at Pacific) | |

English/International Studies:

| | | |
|-------------|---|---|
| Engl 332 | Introduction to Linguistics | 3 |
| OR Engl 343 | Studies in Criticism and Theory | 3 |
| IS 201 | Intercultural Communications | 3 |
| Engl 220 | Literature and Human Concerns: The Holocaust ... | 3 |

History:

| | | |
|----------|---|---|
| Hist 232 | The Holocaust | 3 |
| Hist 235 | Europe Since 1945 | 3 |
| Hist 301 | The Medieval World: 400-1500 | 3 |
| Hist 302 | Renaissance, Reformation, Revolt: 1500-1800 | 3 |
| Hist 335 | Era of World War I | 4 |
| Hist 401 | Charlemagne and his Era .. | 3 |

Media Arts:

| | | |
|----------|--|---|
| MedA 401 | Film Topics* | 3 |
| Music: | | |
| Mus 322 | Music History: 1585-1809 .. | 3 |
| Mus 323 | Music History: 1809-1918 .. | 3 |
| Mus 324 | Music History: The Twentieth Century | 3 |

Philosophy:

| | | |
|-------------------------|--|---|
| Phil 208 | Late Modern Philosophy 1750-1900 | 3 |
| Phil 403 | Twentieth Century Philosophy | |
| Phil 412 | Major Philosophers* | 4 |
| Phil 420 | Seminar in Philosophy* | 4 |
| (*will depend on topic) | | |

Note: Check individual departments for course descriptions, prerequisites, and course schedules for semesters offered.

| | |
|---|-------|
| Ger 494/495 Thesis, normally written in German (2 credits/semester) | 4 |
| | 46-53 |

A student majoring in German Studies must complete all courses with a grade of C- or better.

MINORS IN MODERN LANGUAGES

Students interested in a minor are urged to consult with the professor of the language they wish to pursue.

Students who enter with previous foreign language training may be exempt from a maximum of 6 hours of the minor requirement. Students entering the sequence at the 300-level in Chinese, French, German or Japanese will complete a minimum of 12 hours selected from upper-division offerings. (See below for specific Spanish requirements). A student minoring in any language taught at Pacific must complete all courses with a grade of C- or better.

Requirements**Chinese:**

| | | |
|--------------------------------------|--|----|
| Chin 101-102 | Introduction to Chinese Language and Culture | 6 |
| Chin 201-202 | Intermediate Chinese | 6 |
| Upper-division work in Chinese | | 6 |
| | | 18 |

French:

| | |
|---|----------|
| Fren 101-102 Introduction to French Language and Culture | 6 |
| Fren 201-202 Intermediate French | 6 |
| Upper-division work in French | 6 |
| | <hr/> 18 |

German:

| | |
|--|----------|
| Ger 101-102 Introduction to German Language and Culture | 6 |
| Ger 201-202 German Conversation and Grammar Review | 6 |
| Upper-division work in German | 6 |
| | <hr/> 18 |

Japanese:

| | |
|---|----------|
| Japn 101-102 Introduction to Japanese Language and Culture | 6 |
| Japn 201-202 Intermediate Japanese | 6 |
| Upper-division work in Japanese | 6 |
| | <hr/> 18 |

Spanish:

| | |
|---|----------|
| Span 101-102 Introduction to Spanish Language and Culture | 6 |
| Span 201-202 Intermediate Spanish | 6 |
| 3 Upper-division classes in Spanish (including at least one of the following courses: Sp 302, 303, 304, 305, 308) | 9 |
| | <hr/> 21 |

Students who wish to minor in Spanish and enter the sequence at the 300 level will complete a minimum of 15 hours from upper-division offerings.

**MINOR IN SPANISH FOR
ELEMENTARY TEACHERS**

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|--|-------------|
| Proficiency level of Spanish 202 required | 6 |
| Span/Ed 465 Spanish in the Elementary School | 4 |
| Span/Ed 466 Mexico: A Cultural Mosaic | 4 |
| Hum 306 OR 325 (Latino Fiction or Hispanic in U.S.) | 3/4 |
| Span/Ed 467 Practicum in Tapalpa, Mexico | 3 |
| | <hr/> 20-21 |

5th year/MAT students may student teach in Mexico for 3 of their 18 weeks in the schools.

(The above Spanish courses may not replace Spanish 401, 402, 411, 412 in the Spanish major.)

COURSE DESCRIPTIONS**Teaching Languages****World Languages (WorL)****WorL 301-302 Mentoring in
Language Teaching**

Each student serves as a mentor in one section of a beginning language class (101 and 102 classes in Chinese, French, German, Japanese, Latin and Spanish). Mentors attend all three of the regular sessions of the class, which will be taught by the professor. Mentors are responsible for facilitating the activities for the fourth hour. They do not participate in the evaluation of students, except to take attendance during the fourth hour. The mentor meets once a week with the supervising professor in the language to develop activities that build oral proficiency, grammatical accuracy and cultural understanding of the language. Mentors also meet as a group with language faculty to discuss pedagogical issues associated with language instruction. Mentors are selected by an application process in the spring. Prerequisite: consent of instructor. 3 hours. Graded P/NP.

**WorL 430 Methods of Teaching
Foreign Languages**

Theoretical and practical considerations in the teaching of foreign languages at the elementary and secondary school levels. Required of all who are working for certification as language teachers. Prerequisite: consent of the instructor. 3 hours.

**WORLD LANGUAGES &
LITERATURES****Chinese (Chin)****Chin 101-102 Introduction to Chinese
Language and Culture**

The beginning course is intended to give training in the basic listening and reading of Chinese (Mandarin). Introduction of Chinese characters and presentation of the cultural behaviors that influence language usage. 3 hours each semester.

Chin 201-202 Intermediate Chinese

The intermediate course is intended for expansion of conversational skills, reading practice, and grammatical constructions. Development of writing skills. Emphasis on effective spoken communication and reading practice. Prerequisite: Chin 102 or equivalent proficiency. 3 hours each semester.

Chin 301 Communicating in Chinese

Development of communicative competence in Chinese with emphasis on conversational skill. Application of cultural awareness in various communication situations. Prerequisite: Chinese 202 or equivalent proficiency. Taught in Chinese. 3 hours. Offered intermittently.

**Chin 305 Chinese Reading
and Writing**

Study of Chinese writing and the enhancement of reading skills. Acquisition of more vocabulary to facilitate Chinese reading and writing. Cultural and social influences on expressions and styles will be discussed. Taught in Chinese. 3 hours. Offered intermittently.

**Chin 401 Selected Chinese
Short Stories**

This course will focus on selected topics in contemporary Chinese short stories, which include such themes as nature and humans, life and death, love and loyalty, family and friends, and self and public. Students will understand Chinese values, beliefs, and norms through extensive analysis of these topics. The course also provides the opportunity to enhance Chinese reading skills by studying various styles of the stories. Taught in Chinese. Prerequisite: Chinese 301 and 305, or equivalent proficiency. 3 hours. Meets Humanities core requirement. Offered intermittently.

French (Fren)**Fren 101-102 Introduction to French
Language and Culture**

The beginning course is intended to give training in the basic patterns and structures of French. Conversation and reading related to the cultures of French-speaking areas. Classroom work is supplemented by laboratory experience. 3 hours each semester.

Fren 201-202 Intermediate French

Focus on conversational skills, comprehension, French and francophone cultures, reading, and grammar. Prerequisite: Fren 102 or an equivalent proficiency. 3 hours each semester.

**Fren 265/365 French in the
Elementary School**

This course is an introduction to the principles of second language acquisition and instruction in elementary school programs. Students will plan and implement lessons for after-school French program involving first through fourth graders. Class includes weekly trips to local elementary schools. Does NOT meet the upper-division major requirement for French Studies, International Studies, or Modern Languages with an emphasis in French. Prerequisite: Fren 102. 0-3 hours. May be repeated once for credit.

Fren 301 Composition and Conversation

Practice in conversational idiom through reading and discussion of contemporary short stories, periodical literature and oral interviews. Extensive practice in composition with analysis and correction of students' errors in the classroom. Taught in French. Prerequisite: Fren 202 or equivalent competency. 3 hours. Offered alternate years.

Fren 304 Twentieth Century French Theatre

Analysis of representative plays by French and Francophone authors including Jarry, Sartre, Anouilh, Genet, Beckett, Ionesco, Schwarz-Bart, and others. Introduction of theoretical texts relevant to the plays studied. Prerequisite: Fren 202 or an equivalent competency. Taught in French. 3 hours. Meets Humanities core requirement. Offered intermittently. (G)

Fren 305 French Literature and Culture: 1637 to the present

An introduction to major developments in French literature and culture including Classicism, the Enlightenment, Romanticism, Realism, surrealism, and the "nouveau roman". Prerequisite: French 202 or equivalent. Taught in French. 3 hours. Meets Humanities core requirement. Offered intermittently. (G)

Fren 307 The Contemporary Short Story

Study of significant short stories by major writers in the French-speaking world, among them Maupassant, Leciezio, Kamanda, Roy, and others. Prerequisite: Fren 202 or an equivalent proficiency. Taught in French. 3 hours. Meets Humanities core requirement. Offered intermittently. (G)

Fren 308 Contemporary Issues in French Press

Reading and discussion of selected articles from French newspapers and magazines. Course work would be supplemented by relevant video and audio -visual materials. Prerequisite: Fren 202 or equivalent proficiency. Taught in French. 3 hours. Offered intermittently. (G)

Fren 401 Gender, Culture, and Society: Women's Writing in the Francophone World

Survey of women's writing in the Francophone world throughout the 20th century. Special focus on the novel and the development of alternative prose forms. Authors from France, Switzerland, Belgium, Quebec, the French Caribbean, Senegal, and Algeria may be included. Taught in French. 3 hours. Meets Humanities and Cross-cultural core requirement. Offered intermittently. (G)

Fren 485 Seminar in French Studies

A concentrated study of one of the major movements in French and Francophone literature, art, and culture. Topics include: the rise of Classicism, the French Revolution, the 19th century French novel, writing and resistance: 1848-1968, and literature in French-speaking Switzerland. May be taken more than once for credit. Prerequisite: Consent of the instructor. Taught in French. 3 hours. Offered intermittently.

Fren 494/495 Senior Thesis in French Studies

This course is designed to assist senior students who are writing a thesis for a major in French Studies. Students will receive direction in completing their research proposal and help in conducting and writing their senior thesis in French. These are student-conducted individual research theses. Students take 494 and 495 in consecutive semesters. Prerequisite: Senior standing and study abroad. Taught in French. 2 hours per semester.

German (Ger)

Ger 101-102 Introduction to German Language and Culture

The beginning course is intended to give training in the basic patterns and structures of German. Conversation and reading related to the cultures of German-speaking areas. 3 hours each semester.

Ger 201-202 Intermediate German

Designed to prepare students to identify conversational vocabulary. Expansion of conversational, reading, and comprehension skills. Review and development of grammatical constructions most commonly used in speaking. Use of periodical and literary sources and audio-visual materials. Prerequisite: Germ 102 or an equivalent proficiency. 3 hours.

Ger 301 Topics in German Culture

Extensive practice in composition and conversation. Reading and discussion of materials from German newspapers, magazines, and short story collections. Audio-visual materials develop the students' comprehension of the German language, media, society and culture. Prerequisite: Germ 202 or an equivalent proficiency. 3 hours. Offered alternate years.

Ger 302 Contemporary Short Stories and Narrations

Study of significant short stories by major writers in the post-WWII, German-speaking world: Ingeborg Bachmann, Peter Bichsel, Heinrich Böll, Irmtraud Morgner, Peter Schneider, Christa Wolf, and others. Students report on stories or authors not covered in the classroom. Prerequisite: Germ 202 or equivalent proficiency. 3 hours. Meets Humanities core requirement. Offered intermittently. (G)

Ger 303 German Literature and Culture 1750 to the present

Study of significant developments in literature and culture with focus on the Enlightenment, Classicism, Romanticism, Realism, Expressionism, the Nazi period, and the post-WW II period, including the 1990 unification. Prerequisite: Germ202 or equivalent proficiency. Taught in German. 3 hours. Meets Humanities core requirement. Offered intermittently. (G)

Ger 304 German Drama

Analysis of representative theater pieces by writers in the German-speaking world from the eighteenth century to the present, including Louise Gottsched, Lessing, Schiller, Goethe, Schnitzler, Brecht, Dürrenmatt, Frisch, Jelinek, and others. Students will improve language skills through analyzing texts closely, viewing performances on video, performing short scenes in class, writing critiques of the plays, and adapting a play for performance. Taught in German. Prerequisite: Germ 202 or equivalent competency. 3 hours. Meets Humanities core requirement. Offered intermittently.

Ger 315 Advanced Grammar and Composition

Extensive review of advanced grammatical concepts and practice of written idiom through reading, viewing, discussing, and writing using short stories, newspapers, films, and magazine articles. Development of vocabulary and grammatical constructions through composition with analysis and correction of students' errors in class. Prerequisite: Germ 202. or equivalent proficiency. 3 hours. Offered intermittently. (G)

Ger 400 German Film

Analysis of significant 20th-century German films with concentration on films from the Weimar Republic and on New German Cinema. Study of theoretical and literary texts in relation to the cultural and political climate. Prerequisite: consent of the instructor. Taught in German. 3 hours. Offered intermittently. (G)

Ger 485 Seminar in German Studies

An in-depth study of various cultural issues as reflected in the literature, art, history, and politics of German-speaking countries. Topics include: survey of German literature in historical context; German unification; gender and society; politics and culture. Taught in German. Prerequisite: consent of the instructor. 3 hours. Offered intermittently. (G)

Ger 494/495 Senior Thesis in German Studies

This course is designed to assist senior students who are writing a thesis for a major in German Studies. Students will receive direction in completing their research proposal and help in conducting and writing their senior thesis in German. These are student-conducted individual research theses. Students take 494 and 495 in consecutive semesters. Prerequisite: Senior standing and study abroad. Taught in German. 2 hours per semester.

Italian (Ital)

Ital 100 Elementary Conversational Italian

This beginning course is intended to give immersion training in Italian during the Winter 3 period. Conversation and reading related to the cultures of Italian-speaking areas. Classroom work is supplemented by video work and laboratory experience. This course does NOT meet the Foreign Language core requirement. 3 hours. Offered intermittently.

Japanese (Japn)

Japn 101-102 Introduction to Japanese Language and Culture

Intensive introductory Japanese. Training in the basic patterns and structures of Japanese. Emphasis on oral and aural skills. Japanese writing of Hiragana and Katakana is introduced from the beginning to ensure the overall development of language skills. Development of cultural awareness that influences language usage. 3 hours each semester.

Japn 201-202 Intermediate Japanese

Expansion of conversational skills. Development of reading and writing skills in three different characters in Japanese. Application of cultural awareness in Japanese language learning. Prerequisite: Japn 102 or an equivalent proficiency. 3 hours each semester.

Japn 301-302 Communicating in Japanese

Development of communicative competence in Japanese with emphasis on conversational skills. Reading and writing skills will also be practiced to expand vocabulary and cultural knowledge. Application of cultural awareness in various communication situations. Prerequisite: Japn 202 or equivalent proficiency. 3 hours.

Japn 307 Readings in Contemporary Japanese Writers

Study of short stories and essays written by major writers in Japan. Reading materials are utilized for vocabulary expansion, Kanji recognition and writing in order to achieve better understanding of the content by grasping cultural meanings. Prerequisite: Japn 202 or equivalent proficiency. 3 hours. Meets Humanities core requirement. Offered alternate years. (G)

Japn 315 Grammar and Composition

Extensive review of grammatical concepts and practice of written idiom through reading, writing, and discussing short stories, newspapers, films, and magazine articles. Development of vocabulary and grammatical constructions through composition with analysis and correction of students' errors in class. Prerequisite: Japn 202 or equivalent proficiency. 3 hours. Offered alternate years. (G)

Japn 401 Topics in Contemporary Literature

Study of Japanese culture through selected topics in contemporary literature. Topics include various human relationships in Japan, love and death, aesthetic attitudes, attitudes toward religion. Extensive analysis of these topics by understanding Japanese cultural values, beliefs, norms and behavioral patterns. Taught in Japanese. Prerequisite: 2 300 level courses. 3 hours. Meets Humanities core requirement. Offered alternate years. (G)

Japn 402 Selected Issues in the Japanese Press

The course provides the opportunity to enhance Japanese reading skills and acquisition of cultural knowledge through newspaper and magazine article reading. Supplementary materials are brought in to broaden the students' understanding of the Japanese language, people, and culture. Prerequisite: 2 300 level courses. Taught in Japanese. 3 hours. Offered intermittently. (G)

Japn 415 Structure of Japanese

Development of linguistic knowledge about the Japanese language. Study of structure of Japanese words and their categorization. Grammatical and syntactical analysis of Japanese sentences. Structural analysis of Japanese paragraphs. This course will be of use to both students of Japanese and to those who intend to become teachers of Japanese. Prerequisite: 2 300 level courses, or equivalent proficiency. 3 hours. Offered intermittently. (G)

Japn 445 The Sociolinguistics of Japanese

This course will provide the opportunity to study the impact of the Japanese social norm, and cultural attitudes and values on language usage. Attitudes toward standard language and dialects will be discussed. Variations of styles in spoken and written Japanese will be also analyzed. This course will be of use to both students of Japanese and to those who intend to become teachers of Japanese. Prerequisite: 2 300 level courses, or equivalent proficiency. 3 hours. (G)

Japn 485 Seminar in Japanese Studies (G)

An in-depth study of various cultural issues as reflected in the literature, art, history, and politics of Japan. Topics include: survey of Japanese literature in historical context; gender and society; politics and culture. Taught in Japanese. Prerequisite: consent of the instructor. 3 hours. May be taken more than once for credit. (G)

Japn 490 Senior Capstone

This capstone course is required of all Japanese majors. Seniors will conduct extensive projects, exploring social, cultural, linguistic or literary issues under the supervision of faculty. Emphasis will be placed on acquisition of translation techniques and critical analysis of various written materials. Prerequisite: Senior standing in Japanese, study abroad in Japan, and consent of instructor. 3 hours.

Latin (Lat)**Lat 101-102 Classic Latin Studies**

The beginning course is intended to give training in the fundamental grammar, syntax, and vocabulary of Latin. Focus on reading, writing, and pronunciation rather than aural understanding and speaking proficiency. Students will develop a foundation for reading Latin and be exposed to the cultures of peoples who spoke Latin in the medieval past. Meets Humanities core requirements. This course does NOT meet the Foreign Language core requirement. 3 hours.

Spanish (Span)**Span 101-102 Introduction to Spanish Language and Culture**

The beginning course is intended to give training in the basic patterns and structures of Spanish. Conversation and reading related to the cultures of Spanish-speaking areas. Classroom work is supplemented by laboratory practice. 3 hours.

Span 201-202 Intermediate Spanish

Focus on conversational skills, comprehension, Hispanic cultures, reading, and grammar. Prerequisite: Span 102 or an equivalent proficiency. 3 hours.

Span 301 Composition and Conversation

Practice in conversational idiom through reading and discussion of contemporary short stories, periodical literature, and oral interviews. Extensive practice in composition with analysis and correction of students' errors in the classroom. Prerequisite: Span 202 or equivalent proficiency. Taught in Spanish. 3 hours. Offered annually.

Span 302 Contemporary Spanish Novel

Study of representative 20th century novels from both Spain and Latin America. Student reports on works and authors not covered in the classroom. Prerequisite: Span 202 or an equivalent proficiency. Taught in Spanish. 3 hours. Meets Humanities core requirement. Offered intermittently. (G)

Span 303 Introduction to Hispanic Literatures

An introduction to the study of literature in Spanish through the genres from different periods and countries of the Hispanic world. Continued practice in composition with in-class student presentations. Prerequisite: Span 202 or an equivalent proficiency. Taught in Spanish. 3 hours. Meets Humanities core requirement. Offered annually.

Span 304 Contemporary Spanish Drama

Analysis of representative plays of contemporary dramatists from both Spain and Latin America: García Lorca, Buero Vallejo, Gambaro, Skarmeta, Berman and others. Prerequisite: Span 202 or equivalent proficiency. Taught in Spanish. 3 hours. Meets Humanities core requirement. Offered intermittently. (G)

Span 305 Contemporary Spanish Poetry

Analysis of representative poems of the major contemporary poets of Spain and Latin America: Antonio Machado, García Lorca, Juan Ramón Jiménez, Vicente Aleixandre, Pablo Neruda, Cesar Vallejo, and others. Student reports on poems and authors not covered in the classroom. Prerequisite: Span 202 or equivalent proficiency. Taught in Spanish. 3 hours. Meets Humanities core requirement. Offered Intermittently. (G)

Span 308 Contemporary Short Story

A study of short stories by major contemporary writers in the Spanish-speaking world: Borges, Cortazar, Rulfo, Onetti, García Márquez, Concha Lagos, Carmen Conde, Medardo Fraile, and others. Student reports on stories and authors not covered in the classroom. Prerequisite: Span 202 or equivalent proficiency. Taught in Spanish. 3 hours. Meets Humanities core requirement. Offered intermittently. (G)

Span 310 Contemporary Spanish Music and Cultures

Study and analysis of representative genres of popular music and their relationship to culture and literature in twentieth-century Spanish America and/or Spain: "Música Folklorica," "El bolero y la balada," "canción política;" "música Afro-hispana," "Latin-Jazz," "Rock en español" and others. Students will report on material not covered in the classroom. Prerequisite: Span 202. 3 hours. Offered intermittently. (G)

Span 315 Advanced Grammar and Composition

This course is designed to 'fill in' the Spanish grammar and vocabulary gaps of the advanced/intermediate student. Course reviews the more difficult grammatical structures in Spanish while introducing advanced vocabulary, idioms and colloquialisms. Emphasizes vocabulary building, composition skills and comprehension of the wide range of Spanish found in literature, journalism, and everyday speech. Taught in Spanish. Prerequisite: Span 202. 3 hours. Offered intermittently. (G)

Span 320 Mentoring in Teaching Spanish

This course combines theory and practice in the teaching of Spanish. Each student will serve as a mentor in one section of Spanish 101 or 102. Mentors attend at least two regular sessions of class per week and assist the professor with conversation. Mentors plan and teach the fourth weekly hour themselves, broadening the students' experience of the language with enrichment activities. Mentors will meet twice a week with the supervising instructor to discuss pedagogy and share instructional ideas. Taught in Spanish. Prerequisite: Study abroad or consent of instructor. Only 3 credits of mentoring may be counted toward Spanish major or minor. 3 hours. Offered fall semester. (G)

Span 401-402 Survey of Peninsular Spanish Literature

A study of the major works and literary movements of Spain. Student reports on authors, genres, or works not covered in the classroom. Prerequisite: a Spanish course at 300 level or consent of the instructor. Taught in Spanish. 3 hours. Meets Humanities core requirement. Offered alternate years. (G)

Span 411-412 Survey of Spanish American Literature

A study of the major works and literary movements of Spanish America from the pre-Columbian era through the 20th century. Prerequisite: a Spanish course at 300 level or consent of the instructor. Taught in Spanish. 3 hours. Meets Humanities core requirement. Offered alternate years.

Span/Ed 465 Spanish in the Elementary School

This course is an introduction to the principles of second language acquisition as they apply to bilingual education and second-language instruction in elementary school programs. Students will become acquainted with dual language materials, bicultural perspectives, and strategies for the achievement of biliteracy. This class includes an observation component in a bilingual classroom. Prerequisite: Spanish 202 or equivalent. Taught in Spanish and English. 4 hours. Does not count towards Spanish major. Offered intermittently. (G)

Span/Ed 466 Mexico: A Cultural Mosaic

This class will focus on Mexican history, folklore, culture, music, and visual arts with the needs of the elementary classroom in mind. The class will be taught bilingually and discuss the historical and cultural basis for the Mexican aesthetic. In addition, students have opportunities to participate in musical experiences and hands-on art projects also suitable for the elementary classroom. As a culminating event, the students will design and implement Festival day that will include community participation. Includes an observation component in a bilingual classroom. Prerequisite: Spanish 202 or equivalent. 4 hours. Does not count towards Spanish major. Offered intermittently. (G)

Span/Ed 467 Practicum in Tapalpa, Mexico

Students will complete a teaching practicum in an elementary/middle school in Tapalpa, Mexico. This will also include a weekly seminar and weekend cultural excursions and a two day orientation prior to departure. Prerequisite: Span/Ed 465 Spanish in the Elementary School or consent of instructors. 3 hours. Does not count towards Spanish major. Offered intermittently. (G)

Span 485 Seminar in Hispanic Studies

Detailed study of the works of one or more contemporary writers or of selected areas of Hispanic culture. Students will conduct research and complete a major paper. Taught in Spanish. Prerequisite: completion of study abroad or near-native fluency. May be repeated once for credit when content varies. 4 hours.

Span 490/491 Thesis in Spanish.

This course is designed to assist senior students who are writing a thesis for a major in Spanish. Students will receive direction in completing their research proposal and help in conducting and writing their senior thesis in Spanish. These are student-conducted individual research theses. Students take 490 and 491 in consecutive semesters. Students enrolled in this class are exempt from senior seminar (Span 485). Prerequisites: Senior standing, study abroad, and permission of the instructor. Taught in Spanish. 2 hours per semester.

Academic Policy Administration

In the College of Arts and Sciences, the Assistant Dean, in cooperation with the Registrar, handles matters of academic rules and regulations. The office of the Assistant Dean is located in Bates House. The Registrar's office is located in Marsh Hall, 1st-floor.

REGISTRATION POLICIES

Registration Requirements

In keeping with Pacific's philosophy regarding the student-advisor relationship, prior to registration all students are required to communicate with their advisors and review the students' schedules of classes.

New students communicate with faculty advisors during the summer; continuing students are advised in April for the fall semester and in November for the winter term and spring semester. An early registration occurs at the end of those advising periods in November and April, with students registering in priority according to the number of credits earned.

All new students must complete their initial registration no later than the fourth day of classes (or equivalent) of the semester; continuing students may complete initial registration through the 10th day (or equivalent) of the semester. Students may add and drop classes through the 10th day (or equivalent) of the semester. The adding of classes is not normally allowed after the 10th day. Students may withdraw from classes through the 10th week (or equivalent) of the semester, with a "W" posted on the transcript. Please refer to the Schedule of Classes for add/drop equivalents for Winter III and summer terms.

A student is officially registered for classes only after needed approvals from the advisor and instructors have been filed with the Registrar and classes are entered into the computer registration system.

Course Registration

Course registration procedures are distributed each semester by the Registrar's Office, indicating when continuing students may pre-register for classes (see Academic Calendar). The University reserves the right to cancel the registration of students who are delinquent in meeting their financial obligations to the University.

Measles Vaccination Policy

The State of Oregon requires college students born after 1956 to provide dates of two doses of the measles vaccine. Upon acceptance to the University, a Health History and Immunization form will be mailed to you. These forms should be completed and returned to the Student Health Center in the self addressed, stamped envelope provided with the forms. Failure to satisfy the State requirement will affect a student's enrollment at Pacific University. Under the State mandate, if a student has not satisfied the measles requirement, a registration hold will be placed which means pre-registration and/or registration will not be permitted. The Health History and Immunization form can be downloaded from the Health Center website under "Required Forms" at www.pacificu.edu/healthcenter. Please direct questions regarding this matter to the Student Health Center at 503-352-2269.

Oregon Independent Colleges Cross-Registration

Pacific University participates in the Oregon Independent Colleges (OICA) Cross-Registration program, in which students enrolled full-time at any OICA college may take a maximum of one undergraduate course per term at another OICA campus. No additional tuition will be charged for the cross-registered course by either institution, with the exception of possible overload or special course fees. Students may not cross-register for a course that is offered on their own campus unless scheduling conflicts prevent taking the course. Registration is permitted on a "space-available" basis. For more information contact the Pacific University Registrar's Office.

Withdrawals

Students may drop a class through the first ten class days of the semester (first three days of a three-week term) without having the class appear on the transcript. Students may withdraw through the tenth week of the semester (second week of a three-week term) and receive a "W" on the transcript, with no grade penalty. Late withdrawals are normally not permitted unless approved by the Standards and Advising Committee.

It is the responsibility of the student to notify the Registrar's Office and the instructor regarding withdrawing from a class, otherwise the student may receive a failing grade. Prior to the end of the withdrawal period, instructors may notify the Registrar of student(s) not attending class and may withdraw them and issue a grade of "W." If a student has been pre-registered for a class and does not attend the first two class periods or the first academic week, whichever is less (first day of a three-week term), the instructor may have the Registrar drop the student from the class (unless prior arrangements have been made between the student and the instructor).

If a student wishes to withdraw from all classes, an exit interview with the office of the Dean of Students is necessary to initiate the formal withdrawal process.

Students who must withdraw for health emergencies or other emergency reasons may be granted an Administrative

Withdrawal by the Dean of Students (for undergraduate students) or by the appropriate Dean or Program Director (for professional students). The Dean/Program Director will consult with the course instructors and may require a statement from a physician or other documentation.

Instructors may withdraw a student from class for poor attendance, poor participation, misconduct, or for disruptive or endangering behavior that interferes with the faculty member's obligation to set and meet academic and behavioral standards in each class. Instructors will distribute a syllabus that includes a clear statement of policy regarding attendance, participation and withdrawing students from class. Misconduct or disruption does not apply to the content of speech or written work protected by freedom of expression or academic freedom. Due process will be followed, and students may appeal such decisions to the appropriate committee or administrator.

The Dean of Students, acting on behalf of the University, may withdraw a student from the University if the student has mental or physical health problems that cause the student to engage in or threaten to engage in behavior which (a) poses a danger of causing physical harm to the student or to others or (b) directly and substantially impedes the activities of other members of the campus community. (The procedure to be followed in these withdrawals is printed in its entirety in Pacific Stuff and is in accord with the guidelines of the American Psychiatric Association and Section 504 of The Rehabilitation Act of 1973.) Re-enrollment will be at the discretion of the Dean of Students, in consultation with appropriate health professionals.

Normal Load, Overloads

To be a full-time student, the student must be registered for at least 12 hours in the semester.

Students may register for up to 18 semester hours with no additional tuition charges. A normal load is 14 or 15 hours. Registration for more than 18 hours requires the approval of the advisor and the Assistant Dean.

In Winter III a normal load is one course or three credit hours. Overloads during Winter III are not possible.

Class Standing:

- **Freshman**/0-29 semester hours completed
- **Sophomore**/30-59 semester hours completed
- **Junior**/60-89 semester hours completed
- **Senior**/90 + semester hours completed

Auditing

As an auditor, a student enrolls in, pays for, and attends classes, but does not necessarily complete assignments or take examinations. No credit is received for an audited course. Students must declare the Audit option before the end of the add-drop period. Once you declare the Audit option you may not revert back to the graded option. See Business Office section for payment information.

GRADING POLICIES

Grades are recorded by letter, with the following point values:

| | | |
|----|-----|-------------------------------------|
| A | 4.0 | Excellent |
| A- | 3.7 | Excellent |
| B+ | 3.3 | Good |
| B | 3.0 | Good |
| B- | 2.7 | Good |
| C+ | 2.3 | Satisfactory |
| C | 2.0 | Satisfactory |
| C- | 1.7 | Substandard |
| D+ | 1.3 | Substandard |
| D | 1.0 | Substandard |
| F | 0 | Failure |
| P | | Pass |
| L | | Actual grade will be turned in late |
| N | | No Pass |
| I | 0.0 | Incomplete |
| IA | 4.0 | Incomplete; contingent grade A |

| | | |
|-----|-----|---------------------------------|
| IA- | 3.7 | Incomplete; contingent grade A- |
| IB+ | 3.3 | Incomplete; contingent grade B+ |
| IB | 3.0 | Incomplete; contingent grade B |
| IB- | 2.7 | Incomplete; contingent grade B- |
| IC+ | 2.3 | Incomplete; contingent grade C+ |
| IC | 2.0 | Incomplete; contingent grade C |
| IC- | 1.7 | Incomplete; contingent grade C- |
| ID+ | 1.3 | Incomplete; contingent grade D+ |
| ID | 1.0 | Incomplete; contingent grade D |
| IF | 0.0 | Incomplete; contingent grade F |
| W | | Withdrawal |
| AW | | Administrative Withdrawal |
| X | | Continuing Course |

(Limited to courses approved by the College. The grade of "X" will revert to a "P," "N," or letter grade when work is completed.)

Pass/No Pass Option

Students must declare the Pass/No Pass option before the end of the tenth week of the course, by completing the appropriate form in the Registrar's Office. Once you declare the Pass/No Pass option you may not revert back to the graded option.

In Arts and Sciences, the "P" grade is equivalent to a "C" or above. In Arts and Sciences, students may take one course, in addition to courses requiring P/N grading, each semester on a Pass/No Pass basis; such courses may not be used to fulfill core requirements, major or minor requirements, or teaching endorsement requirements.

Incompletes

Instructors may issue a grade of Incomplete only when the major portion of a course has been completed satisfactorily but health or other emergency reasons prevent the student from finishing all requirements in the course. The instructor and the student should agree upon a timeline for the completion of all work, with the following limitations:

1. Incompletes given for fall and or Winter III terms must be completed by the following April 15.
2. Incompletes given for spring semester or summer session must be completed by the following November 15.

Instructors will issue the grade the student would have earned by not completing the course, preceded by an "I." This grade is determined by including a failing grade for the missing assignment(s) in the calculation of the final grade. If the agreed upon course work is not completed in the period allotted and an extension has not been granted, the grade issued will become permanent. The contingency grade will be used in the computation of the GPA until such time as a new grade is recorded.

Repeated Courses

If a course taken at Pacific University is repeated at Pacific University, in the College of Arts and Sciences and in the School of Education, only the higher grade is used in computing the grade-point average; in all other professional programs BOTH grades are counted in the grade-point average.

If a course taken at Pacific is repeated at another institution, the Pacific grade will still be counted in the GPA. No course may be counted more than once towards graduation requirements.

Grade Change

Once a grade is submitted to the Registrar, it shall not be changed except in the case of recording errors. Grade changes must be approved by the Assistant Dean.

Retro-Active Credit

There is a one-year time limit for granting retroactive Pacific University institutional credit for which the student did not initially register. This course work must be documented, with the instructor's approval, and completed at Pacific University.

Grade Reports

Grades will be available to students at the end of each grading period. Grades are available at "Boxer Online," on Pacific University's web site. According to the Student Academic Records Policy, parents of students will be mailed grade reports only if the student has provided the Registrar with a signed release.

Transcripts

Students must review their academic records online or order a transcript of their Pacific University record in accordance with the Family Educational Rights and Privacy Act guidelines. A signed request for the transcript must be supplied to the Registrar's Office, with a \$3 fee assessed for each official transcript requested. Faxed copies are available for an additional \$3. Unofficial transcripts for currently enrolled students are free, with a limit of two per request, and are to be picked up in person.

Up to one week may be necessary for official transcript requests or two days for unofficial transcript requests (available to current students only). If transcripts must be processed within two business days, a "rush" fee of \$12 is charged in addition to the normal processing fee(s).

Dean's List

In order to make the Dean's List in the College of Arts and Sciences, a student must achieve a term GPA of 3.70 with 12 or more graded hours. Grades of P/NP do not count as "graded hours."

Transfer Credits and GPA

Only grades earned at Pacific are calculated into the Pacific GPA. Courses taken elsewhere, if approved by the Registrar, can be used to meet degree requirements, but the grades in transfer courses are not included in the calculation of the GPA. A grade of below "C-" earned at another institution will not transfer to Pacific University. Transfer courses used to satisfy a major or minor requirement may need department approval.

SATISFACTORY ACADEMIC PROGRESS

Students maintain satisfactory academic progress with:

1. a cumulative GPA at Pacific University of at least 2.0.
2. 12 hours of coursework credited toward graduation in the previous semester in which they were enrolled as a full-time student.
3. a GPA of at least 2.0 in the previous semester.

Warning

Full-time students who do not meet each of these three standards for the first time typically will be placed on Warning. Students on Warning, after meeting with their faculty advisors, may be asked to consult with the Assistant Dean, who can help students get the help they need.

Students encountering academic problems are reminded that financial aid and athletics eligibility also depend on academic achievement. See Financial Aid section in this catalog and consult with the Financial Aid Office and Registrar.

Suspension and Probation

Students who have been on Warning and who fail to meet one or more of the three standards in any subsequent semester may be suspended from the College; a typical suspension lasts for one academic year. These students may be allowed to continue on academic Probation. Decisions on suspension or probation are made by the Standards and Advising Committee of the College of Arts and Sciences.

Students on academic probation are not in good academic standing and are ineligible to participate in University-sponsored activities including intercollegiate athletics, forensics, club sports, student media and in other activities as the Dean of Arts and Sciences may direct.

Readmission after Suspension

Suspended students may apply to the Dean's Office to begin the readmission process one year after suspension. Applications will be reviewed by the Standards and Advising Committee. Complete applications for readmission for fall semester must be received no later than August 1st; complete applications for spring semester must be received no later than January 2nd. Completed applications received after those dates will be considered for the following semester.

Within the application for readmission, suspended students should present evidence of renewed motivation and commitment to academic success, such as successful employment or study at another college during the interim. With such evidence readmission may be granted, unless the Standards and Advising Committee determines that academic success at Pacific is still unlikely.

Students re-admitted after being on suspension will be placed on probation (see above). If a re-admitted student subsequently does not meet the academic standards of Pacific University and becomes eligible for suspension, that student may be dismissed from the University by the Standards and Advising Committee.

VETERANS' EDUCATIONAL BENEFITS

The Registrar is the certifying official for all veterans' benefits for students. All eligible students are requested to fill out necessary application and certification documents prior to the start of classes.

SUMMER SESSIONS

Each summer, Pacific University offers three intensive 4-week terms through the Summer Sessions program. A variety of classes are available which apply to

undergraduate degree requirements and graduate teacher education programs. Summer Sessions provide an affordable option for earning additional credits or accelerating degree completion. The Summer Sessions course list is available in mid-March.

OTHER POLICIES & PROCEDURES

Academic Advising

Students are assigned a faculty advisor by the Dean's Office upon admission to Pacific. Advisors work closely with students to develop a sequence of courses that meets individual needs. Experience shows that successful students are those who have frequent contact with their faculty advisors, and students may not register for classes until they have consulted with their advisor.

When students declare a major, by the end of the sophomore year, they should be working with a faculty advisor in their major area. Problems with advising should be taken to the Assistant Dean's office.

Students who expect to apply to Pacific's graduate professional programs must pass specific prerequisite courses: see the relevant sections of this catalog. Students are urged to seek the help of the Admissions Office, which maintains information on prerequisite courses.

Advanced Placement

Credit toward graduation will be given for a score of 4 or 5 on the advanced placement test in any field. Credit awarded will be four credits in mathematics and the natural sciences and three credits in all other subjects. Actual placement in college courses depends on the student's preparation and is arranged through the relevant department.

Attendance

Students are responsible for class attendance, participation and completion of assignments. The University believes that students should attend all classes.

Faculty members should notify students in their classes of their attendance policy at the beginning of each semester; students should request a clear statement of policy. The instructor may lower a student's grade or may officially withdraw the student from the course through the tenth week of the semester for poor attendance or participation. Note that the instructor may not drop pre-registered students from a course until after two class periods or the first academic week, whichever is less (first day of a three-week term).

Students are encouraged to inform their instructors of unavoidable absence in advance. Assignment of make-up work is at the discretion of the instructor.

Independent Study (Learning Contract)

To undertake advanced and independent study in subjects not covered by regular courses, students may arrange independent study with a professor. NOTE: One semester hour of credit is equal to approximately 40 hours of contact and associated work. An independent study form, available at the Registrar's Office, must be submitted to the Dean's office, complete with all approval signatures.

Internship Program

Both part- and full-time internships are available and carry one semester hour of credit for each 40 hours of work up to a maximum of 14 credits in any one semester. A maximum of 17 credits of internship may be counted toward graduation. For further information, students should contact the Career Development Center.

International Baccalaureate Degree

Pacific University recognizes the International Baccalaureate program as providing college-level work. Six semester credits will be awarded for each higher examination passed with a score of 5 or higher. Course credits will be regarded as transfer credit and will be determined by the Registrar in consultation with the appropriate department chairs. No credit will be awarded for Subsidiary courses. A maximum of 30 credits may be earned.

Progress Assessments

Prior to each registration period, or upon student request, the Registrar's Office will print an academic evaluation showing progress toward meeting graduation requirements. Students are expected, however, to know what the requirements are and may access their academic evaluation at anytime via Boxer Online.

ROTC

Students attending Pacific University who are receiving ROTC funding and wish to take ROTC coursework may do so at Portland State University. Pacific will accept up to 14 semester hours of Military science coursework from PSU, excluding MS 111, 112, 113.

Under a cooperative agreement with the University of Portland, Pacific University students may participate in the Air Force Reserve Officer Training Corps (AFROTC) offered on the University of Portland campus. The purpose of the program, which is administered by the Aerospace Studies faculty, is to select and train students to serve as officers in the United States Air Force.

AFROTC is available to men and women with a minimum of 2 years of college remaining. Scholarships are available on a competitive basis for those who qualify. For more information, see the University of Portland web site or contact the Program Counselor at the University of Portland.

STUDENTS' RIGHTS UNDER THE FAMILY EDUCATIONAL RIGHTS AND PRIVACY ACT (FERPA)

The Family Educational Rights and Privacy Act (FERPA) affords students certain rights with respect to their education records. They are:

1. The right to inspect and review the student's education records within 45 days of the day Pacific University receives a request for access. Students should submit to the Registrar's Office written requests that identify the record(s) they wish to inspect. The Registrar will make arrangements for access and notify the student of the time and place where the records may be inspected. If the records are not maintained by the Registrar's Office, the student shall be advised of the correct official to whom the request should be addressed.
2. The right to request the amendment of the student's education records that the student believes are inaccurate. Students may ask Pacific University to amend a record that they believe is inaccurate. Students should write the Registrar, clearly identify the part of the record they want changed, and specify why it is inaccurate.

If Pacific University decides not to amend the record as requested by the student, the student shall be notified of the decision and advised as to his or her right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing.

3. The right to consent to disclosures of personally identifiable information contained in the student's education records, except to the extent that FERPA authorizes disclosure without consent.

One exception that permits disclosure without consent is disclosure to school officials with legitimate educational interests. A school official is a person employed by Pacific University in an administrative, supervisory, academic research, or support staff position (including law enforcement unit personnel and health staff); a person or company with whom Pacific University has contracted (such as an attorney, auditor, or collection agent); a person serving on the Board of Trustees; or a student serving on an official committee, such as a disciplinary or grievance committee, or assisting another school official in performing his or her tasks.

A school official has a legitimate educational interest if the official needs to review an education record in order to fulfill his or her professional responsibility.

Pacific University may disclose education records without consent to officials of another school, upon request, in which a student seeks or intends to enroll.

4. The right to file a complaint with the U.S. Department of Education concerning alleged failures by Pacific University to comply with the requirements of FERPA. The name and address of the Office that administers FERPA is:

Family Policy Compliance Office
U.S. Department of Education
400 Maryland Avenue, SW
Washington, DC 20202-4605

Directory Information

At its discretion Pacific University may provide Directory Information in accordance with the provisions of the Family Education Rights and Privacy Act. Directory Information is defined as that information which would not generally be considered harmful or an invasion of privacy if disclosed.

Designated Directory Information at Pacific University includes the following: student name, permanent address, local address, temporary address, electronic mail address, telephone number, dates of attendance, degrees and awards received, major field of study, participation in officially recognized activities and sports, weight and height of members of athletic teams, thesis title/topic, photograph, full-time/part-time status, most recent previous school attended, date and place of birth.

Students may withhold Directory Information by notifying the Registrar in writing; please note that such withholding requests are binding for all information to all parties other than for those exceptions allowed under the Act. Students should consider all aspects of a Directory Hold prior to filing such a request. Although the initial request must be filed during the first two weeks of the enrollment period, requests for non-disclosure will be honored by the University for no more than one academic year. Re-authorization to withhold Directory Information must be filed annually in the Registrar's Office within the first two weeks of the fall semester.

Policy Availability

Pacific University policy explains in detail procedures to be used by the institution for compliance with the provisions of FERPA. Copies of the policy are on the Registrar's Office web site or are available in the Office of the Registrar.

Academic Conduct Policies

CODE OF ACADEMIC CONDUCT

Honesty and integrity are expected of all students in class participation, examinations, assignments, patient care and other academic work. Students have the obligation to conduct themselves as mature and responsible participants in this community. Towards this end, the University has established policies, standards and guidelines that collectively define the Student Code of Conduct. The Student Code of Conduct includes all policies, standards and guidelines included in, but not limited to:

- The University Catalog
- The University Handbook
- The student handbook, "Pacific Stuff"
- Professional program policy manuals
- Residence Hall Handbook and Contracts

Statement of Students' Rights and Responsibilities

Every student has a right to conditions favorable to learning. Students have the right to pursue an education free from discrimination based on gender, race, ethnicity, religion, marital status, age, sexual orientation or physical handicap. Students at Pacific enjoy the freedoms of speech, expression, and association, the right to privacy, the right to freedom from harassment, the right to due process in judicial matters, and the right to appeal judgments and penalties for alleged misconduct.

Students have the responsibility to conduct themselves, both individually and in groups, in a manner that promotes an atmosphere conducive to teaching, studying and learning. Students are expected to uphold academic and

personal integrity, to respect the rights of others, to refrain from disruptive, threatening, intimidating, or harassing behavior, or behavior which is harmful to themselves, other persons or property. Students have the responsibility to abide by the standards, policies and regulations of the University.

Policy of Academic Integrity

Pacific University is an academic community where the pursuit of knowledge, understanding and skills unites us as its members. This community depends on the integrity of its members to fulfill its mission, and we all have a clear and vested interest in promoting it. Every one of us has reasons to be concerned about academically dishonest practices. Among such reasons are the following:

1. Academic integrity is at the core of our community values.
2. Academic dishonesty can undermine the value of Pacific diplomas by weakening the reputation of Pacific University, associating it in the public mind with institutions whose students have little integrity and a poor work ethic.
3. Academically dishonest practices are corrosive of individual and community integrity.
4. In the long run such practices harm the perpetrator, who fails to give himself/herself the opportunity to develop ideas and skills.
5. Academic dishonesty is unfair because it gives the cheater an advantage over other students who are relying on their own work and knowledge.
6. Dishonesty weakens the link between grades and work, undermining the immediate incentive of students to put in the hard work necessary to develop skills and knowledge.
7. Certain forms of academic dishonesty, because they infringe on copyrights, are illegal.
8. Academic dishonesty is a violation of the Pacific University Code of Academic Conduct and will be punished according to University and College policy.

FORMS OF ACADEMIC DISHONESTY

Cheating

Cheating is an attempt to use deception to portray one's knowledge and skills as better than they really are. Behaviors that fall under the label of cheating include, but are not limited to:

1. giving or receiving unauthorized aid in academic work such as the improper use of books, notes, or other students' tests or papers.
2. taking a dishonest competitive advantage, for instance preventing others from obtaining fair and equal access to information resources.
3. using work done for one course in fulfillment of the requirements of another, without the approval of the instructors involved.
4. copying from another student's paper.
5. allowing another student to cheat from your test paper or other materials
6. collaborating on projects or exams that are clearly meant to be individual enterprises.
7. using any unauthorized materials during a test.
8. taking a test for someone else, or allowing someone else to take a test for you.
9. stealing another student's work, including material in a computer file, and submitting it as your own.

Plagiarism

Plagiarism is the use of someone else's words, ideas, or data as your own without proper documentation or acknowledgment. It may also entail self-plagiarism. Quotations must be clearly marked, and sources of information, ideas, or opinions of others must be clearly indicated in all written work. Plagiarism can be unintentional; nevertheless, in all cases it is and will be treated as a violation. Behaviors that fall under this category include, but are not limited to:

1. quoting another person's actual words, complete sentences or paragraphs, or an entire piece of written work without acknowledgment of the source.
2. using another person's ideas, opinions, or theories, even if they are presented entirely in your own words, without

proper acknowledgment of the source from which they were taken.

3. using facts, statistics, or other material to support an argument without acknowledgment of the source.
4. copying another student's work.
5. submitting in a course or for a project all or portions of a work prepared or submitted for another or previous course without proper acknowledgement and approval of the instructors involved.

Fabrication

Fabrication is the intentional use of invented information or the use of falsified results or data with the intent to deceive. Behaviors that fall under this category include, but are not limited to:

1. citation of information not taken from the source that is cited.
2. listing sources in a bibliography not used in the academic project.
3. submitting a paper or lab report or any other kind of document based on falsified, invented information, or the deliberate concealment or distortion of the true nature of such data.
4. forging a signature on a University document.

Other Forms of Academic Misconduct

These address the intentional violation of University policies, including but not limited to,

1. tampering with grades or helping another to tamper with grades or any other part of a student's academic record.
2. furnishing to a University office or official a document based on information that you know is false or which has been tampered with in an unauthorized fashion.
3. stealing, buying or otherwise obtaining all or part of an unadministered test; also the unauthorized use of a previously administered test.
4. changing a grade in a faculty member's records, on a test or on other work for which a grade has been given.
5. using electronic information resources in violation of the "Acceptable Use Policy".

Sanctions and Procedures for Handling Cases of Academic Dishonesty

It is Pacific University policy that all acts of academic dishonesty be reported to the Dean or Director of the applicable College or School.

Sanctions

The range of possible sanctions that may be imposed in instances of academic dishonesty includes, but is not limited to, those listed below; it is general policy that sanctions imposed be consistent with the severity of the violation.

1. An "F" for the assignment.
2. An "F" for the course.
3. In case of violations of the "Acceptable Use Policy," sanctions range from being barred from the campus electronic network to suspension from the University.
4. In particularly serious breaches of the academic honesty code, or in repeat offenses, suspension or dismissal from the University may be imposed, as well as other appropriate sanctions.

In all instances, the violation shall be reported to the Dean. In most first offenses, no permanent record of the violation will be made. Should the student not be involved in any subsequent incidents of academic dishonesty, then the confidential file will be destroyed upon the student's graduation. Only those faculty members directly involved in the incident and those serving on panels that might hear a student's appeal will be notified. Serious or second violations will, however, be noted on the permanent record.

Procedures

Arts and Sciences faculty members will follow these procedures when they believe that an instance of academic dishonesty has occurred.

1. Review the evidence to ensure that there are sufficient grounds to warrant a charge of academic dishonesty. Faculty involved will not consult with colleagues and discuss the details of the incident but instead will consult with the Assistant Dean to help determine what course of action to pursue.

2. If the faculty member is fairly certain that she or he is dealing with a case of academic dishonesty, the faculty member should meet with the student in question as soon as possible. If the student is unable to explain away the faculty member's suspicions, then the faculty member will collect all available evidence, keeping the originals and submitting photocopies to the Assistant Dean. Consultation with the Assistant Dean will occur immediately after having consulted with the student(s) involved. Either the faculty member or the Assistant Dean will make a photocopy of the work in question available to the accused student(s) on request.
3. When a faculty member believes that a student has violated the academic honesty code during the final examination period and cannot discuss the issue with the student in question (because he or she has left campus for the holiday or summer), the faculty member will assign the student an "L" grade to show that the actual grade will be turned in late.
4. In cases in which the student and the faculty member come to an agreement about the violation and its sanction, the faculty member may assign the grade agreed upon. In any event, the faculty member will submit a timely, brief, written report of the incident to the Assistant Dean.
5. In cases where mutual agreement between student and faculty member has not been reached, the following procedures shall be followed:
 - a. The faculty member will collect all available evidence and submit photocopies of it (keeping the originals) to the Assistant Dean, along with a brief written report of the incident and a recommended sanction.
 - b. The Assistant Dean will review the evidence, consult with the student(s), make a determination about whether or not academic dishonesty occurred and, if so, will impose a sanction commensurate with the nature of the offense. The Assistant Dean will normally uphold the sanction proposed by the faculty member, if it is in line

with University policy and no new evidence has come to light.

- c. The student may appeal the decision of the Assistant Dean to the Standards and Advising Committee for a hearing. The Assistant Dean will not attend the hearing of the appeal. If the committee finds against the student, it will normally uphold the sanction proposed by the faculty member, if it is in line with University policy and no new evidence has come to light.
6. Procedure for initiating college-level action:
- a. After a case of academic misconduct has occurred, the Assistant Dean will send a warning to the student alerting him or her that a second case may result in suspension or dismissal from the College of Arts and Sciences.
 - b. After a second case of academic misconduct, the Assistant Dean will bring the case to the Standards and Advising Committee, who will consider whether to impose college-level action (suspension or dismissal) due to the multiple nature of the offense.
 - c. The Assistant Dean may request that the Standards and Advising Committee consider college-level action for a single case of misconduct if he or she believes that it is warranted.

University Level Appeals

All requests for appeals of rulings by college or school academic standards committees shall be submitted in writing to the Vice President for Academic Affairs within 10 school days after the ruling is received by the student. Appeals shall be considered by the University Standards and Appeals Board, which is a standing committee of the University.

Appeals must be explicitly justified by at least one of the following reasons:

1. Evidence of error in procedure by a school or college academic standards committee,
2. New evidence sufficient to alter a decision,
3. Evidence that the sanction(s) imposed was not appropriate to the severity of the violation.

Following the receipt of the appeal, the Board shall convene to consider the appeal. On the basis of the available evidence, the Board will deny the appeal, call for a hearing, or when deemed appropriate, return the appeal to the original academic standards committee for reconsideration. Decisions of the University Standards and Appeals Board are final.

The Vice President for Academic Affairs shall appoint alternate members in cases of conflict of interest or if a regular member is unavailable.

Measures Students Can Take To Avoid Charges of Academic Dishonesty

1. Prepare in advance for examinations and assignments; don't let yourself get too far behind in your reading and studying for any of your courses.
2. Prevent other students from copying your exams or assignments. Try to choose a seat during an exam away from other students. Shield your exam. Don't distribute your papers to other students prior to turning them in.
3. Check with your instructor about special requirements that might pertain to that particular course or assignment. If you cannot find a written section in the syllabus or on the actual assignment to answer your questions about what is acceptable, ask the instructor what his or her expectations are.
4. Utilize a recognized handbook on the citation of sources. Many professional organizations have style manuals for this purpose; for example, there is the APA Style Manual for psychology or the MLA Style Sheet for the humanities. Be sure to ask your professor what an acceptable style guide is for the written work you will be submitting in her or his course.
5. Discourage dishonesty among other students.
6. Refuse to help students who cheat.
7. Protect your rights and those of other honest students by reporting to your professor incidents of cheating you have observed.
8. Remember that ignorance of rules, laws, and policies is no excuse.
9. Do nothing that gives you an unfair advantage over your peers.

University Services and Resources

STUDENT LIFE DIVISION

Vice President for Student Affairs/Dean of Students

The Vice President for Student Affairs/Dean of Students (hereafter referred to as the Dean) has overall responsibility for many of the services to students at the University such as crisis intervention, disability services, food service, health and wellness, learning support services, mediation services, multicultural services, new student orientation, parents' programs, residence life, housing, student activities, the University Center, Pacific Outback, Pacific Information Center, the Student Code of Conduct, the judicial process, student government, and the student handbook, "Pacific Stuff." Both undergraduate and professional student governing bodies work closely with the Dean in presenting, discussing and resolving student issues. The Dean assists individual students and student groups with a wide variety of interests and concerns and ensures that student opinion is communicated throughout the University. Working for all students at the University, the Dean should be regarded as a resource by both undergraduate and professional program students for questions, problem solving, or simply when it is unclear where to go with a particular issue. The Dean welcomes students' viewpoints on programs, policies and facilities.

Activities

Pacific University supports numerous student activities including intramural sports, concerts and lectures, an outdoor and off-campus program (Pacific Outback) and a variety of student groups and clubs. The Milky Way is the center for numerous

activities, concerts, movies, and Pacific Outback. In addition, the University sponsors a variety of student activities aimed at providing diverse opportunities. These include activities such as a traditional Hawaiian Luau; the McCall Forum, where nationally recognized speakers debate issues of national concern; Founder's Week, and Wassail, a traditional holiday celebration.

All students at Pacific University are members of the Associated Students of Pacific University (ASPU). ASPU supports numerous student activities and over fifty clubs and organizations. These organizations range from religious groups to academic organizations, recreational sport teams and special interest clubs.

Student Government

Student Government at Pacific provides ample opportunity for students to develop and exercise leadership, to make decisions, and to create a stimulating campus atmosphere. Undergraduate students elect student officers who lead the Pacific Undergraduate Community Council (PUCC). The PUCC, which includes faculty, administrators, and undergraduate students, develops, reviews, and recommends policy on matters affecting undergraduate students. Professional students are represented by the Professional Programs Council (PPC), which includes a representative of each of the professional schools.

Forensics

Students wishing to increase public speaking skills or analytical skills may compete in Forensics (intercollegiate speaking and debating). Students represent Pacific at regional and national Speech and Debate Tournaments throughout the academic year.

In addition to competing, students are expected to help with the administration of the “Hap” Hingston Invitational High School Speech and Debate Tournament, held in early December.

Student Media

Student publications and the campus radio station provide valuable opportunities for Pacific students wishing to gain management and production experience in these particular media fields.

- The Pacific Index, the campus newspaper, gives students the opportunity to gain valuable writing, editing, advertising, and business experience. The Index is published bi-weekly.
- *Silk Road*, an international literary magazine, is edited by Pacific undergraduates in conference with graduate students from Pacific’s Masters program in Creative Writing. *Silk Road* publishes poetry, essays, and fiction submitted by creative writers from across the globe.”
- *The Pacific Review*, a literary magazine, includes poetry, graphics, articles, photography, short stories, and other items contributed by students. It is published every other year and is sponsored by the English Department.
- KPUR now joins the world in internet broadcasting. Search for www.BoxerNow.com and then click on KPUR and enjoy music 24/7. Boxer Radio is managed and operated by students of Pacific University
- Pacific Productions provides an opportunity for any student on campus to get involved in video production. Students can crew on other projects or create their own independent pieces. Pacific productions also crates documentaries that serve the campus community.

Counseling Center

The Student Counseling Center offers confidential individual, group, and couples counseling to students enrolled in a minimum of 6 credit hours and who have paid the Student Health and Counseling fee. Concerns commonly addressed

include adjustment to college, relationship concerns, depression, anxiety, past or recent trauma, substance abuse, body image, and academic difficulties. Students experiencing urgent concerns may walk in during the noon hour, when no appointment is needed to see a counselor. Referrals to community resources may be made when additional services are required to meet the psychological needs of students. The Student Counseling Center is open Monday through Friday, 9am-5pm mid-August through commencement, and we offer reduced clinic hours during the summer months (please call or see our website for summer hours). Staff profiles and credentials are available on our website. Please feel free to call for additional information.

Food Service

The campus dining services in the University Center offer a convenient and economical way to meet student’s nutritional needs. ARAMARK, the University’s meal service provider, offers a variety of dining options, such as a salad bar, taco bar, a grill, a deli bar and an upscale coffee / cyber cafe (The Boxer Bistro). Coffee and light refreshments are also offered in the University Library.

In addition, ARAMARK also offers; to commuter students, faculty/staff and part-time students the Declining Balance program that is offered to residential students. While cash is the method of choice to pay for meals in the University Center, there is a growing number of students who are choosing a declining balance option. Whether a student lives on or off campus, he or she can pay at a discount to have meals or snacks in The Commons or The Boxer Bistro.

Health Center

Health care is provided at the Student Health Center which is staffed by an Administrative Director, licensed Nurse Practitioners and Certified Medical Assistants. The Student Health Center provides treatment of acute illness/injury and stable chronic illness, family planning services, health education, immunizations, and referral to physicians. Nurse Practitioners provide general health care including

physical exams and prescriptions for medications when appropriate. Undergraduate students enrolled for 6 or more credits and who have paid the health fee are eligible for services regardless of type of insurance coverage. There are no charges for office visits, we offer low cost immunizations and there are minimal charges for in-office lab work. More information about health center services, clinic hours and referral information for evenings and weekends when the clinic is closed is provided on our website at www.pacificu.edu/healthcenter.

Housing and Residence Life Policies

Residence Halls

Because learning outside of the classroom is as essential as learning inside the classroom, residential living is an integral part of the total Pacific experience. Residence halls are designed to be living-learning environments where trained professional and student staff help students make smooth transitions to the next phase of their development. Fostering a climate of friendship and understanding among students with diverse backgrounds is a priority of the Housing and Residence Life program.

The University offers accommodations in five on-campus residence facilities, all of which are smoke-free environments and are supervised by Resident Directors, professional staff members who live in the halls. The three co-ed residence halls, Clark, Walter, and McCormick, each have lounges, storage areas, and coin-operated laundry. The halls are divided into smaller living units called "wings". Students in each wing vote on a variety of matters such as how to use activity funds or determining quiet hours. They are also involved in governance and judicial matters. Trained undergraduate Resident Assistants live in each wing and assist students with the transition to college, with personal and academic concerns, and in mediating and solving residence life

problems. Academic Resident Assistants are available in each hall, and Network Assistants are available in some halls. Students in these halls live in single, double, triple, quad rooms or suites.

Vandervelden Court and Burlingham Hall offer apartment-style living in two, four and six-bedroom suites with cooking facilities in most units. These co-ed facilities are designed primarily for junior and senior undergraduate students and offers more independent living.

Students need to be aware of the policies that apply to living in the halls. Please refer to the Residence Hall and Apartment handbook for a more detailed description of hall policies and protocols.

Undergraduate students are required to live and board on campus unless:

1. they have graduated from high school at least two years prior to matriculation;
2. are married or are the parent of a dependent child;
3. are 21 years of age; or
4. live full-time with their parent(s) or legal guardians.

Note: Criteria #2 requires a residency waiver form on file. These forms are available through the Student Life Office.

- Housing contracts are binding for a full academic year. Early releases are rare and must be approved by the Residency Options Committee.
- Pacific University admits students with the understanding that they will uphold standards of community living. All students are expected to respect the rights and integrity of other members of the community. Conduct that is detrimental to the University community, that violates the Student Code of Conduct, or that transgresses civil law is grounds for disciplinary action. If a student is asked to leave the residence halls for disciplinary reasons, room and board fees will not be refunded.

- New students receive housing information over the summer. New students applying for space in Vandervelden Court or Burlingham Hall must submit a non-refundable \$100 housing application fee. Returning students select rooms in the spring of the preceding academic year through a lottery process and must pay a \$100 lottery entrance fee in order to reserve their room for the following year

University Owned Off-Campus Housing

The University owns some off-campus apartment complexes and rental houses that are available to upperclassmen. The Student Life Office does not provide off-campus housing placement but does have a Housing Network website to assist students looking for housing off-campus or roommates. Extensive lists of apartment complexes and links to other housing resources are also present. The site provides an option to post information to the web if someone is looking for housing, seeking a roommate, or has a place to rent. Students who use the housing web site frequently find the information very helpful, and many have secured housing from this site, so it is recommended that students start their searches here.

The University's housing web site address is www.pacificu.edu/studentlife/housing.

Learning Support Services for Students with Disabilities

Learning Support Services for Students with Disabilities (LSS) coordinates educational accommodations for students with disabilities. Disabilities may be physical or learning related, and may be permanent temporary. Examples of accommodations include extended test time and secluded testing; accessible, alternate format course materials; and, note-takers.

Academic standards require qualified documentation to receive accommodation. Students are responsible for furnishing this documentation to the University through LSS. The University encourages students, faculty, and staff to work together proactively to reasonably adapt services to students' individual situations. To help them succeed, the University welcomes students to be forthcoming about their status and needs at any time. To contact LSS, call 503-352-2107.

The University complies with all applicable law regarding disabilities. Questions or concerns about University policy or compliance may be directed to the Dean of Students.

Multicultural Services

The Office of Multicultural Services is designed to assist students in dealing with issues concerning the multiplicity of cultures we have on the Pacific University campus. Spreading cultural awareness and understanding, integrating students from all cultures into the campus community, and celebrating diversity are the main concerns of this office. Students having questions, concerns, or suggestions for topics dealing with multi-cultural issues are encouraged to call or visit the office. To contact the Director, call 503-352-2107.

Pacific Information Center (PIC)

The Pacific Information Center, commonly referred to as the PIC, provides efficient, reliable, accurate and quick service for the Pacific Community. This includes, but is not limited to, parking permits, guest housing, summer housing, vendors, publications and brochures of University departments and programs, forms, general information, the sale of stamps, Tri-Met tickets, movie tickets, and Boxer Briefs. Computer terminals are provided outside the PIC for students to access the Web and their accounts.

OTHER UNIVERSITY SERVICES

Alumni Relations

Formed in 1864, the Pacific University Alumni Association aims to extend and deepen the spiritual, intellectual, and social relationship of the college years and to further the welfare of Pacific University. All graduates of Pacific University, Tualatin Academy, North Pacific College of Optometry, and the Oregon Graduate School of Professional Psychology (OGSPP) and all former students who have completed at least one year of academic study and expressed a desire to retain ties with the University, are considered alumni. The management of the Association is vested in a Board of Directors, and the Office of Alumni Relations plans and implements the services and programs of the Association. These services and programs include group travel opportunities, alumni gatherings, class reunions, and regional and affinity-related events that bring current students, former students, faculty, staff, and parents together for lectures or seminars or social or cultural gatherings. For more information contact the Alumni Event Hotline in the Abbott Center, 503-352-2057, or e-mail alumni@pacificu.edu.

Bookstore

The Pacific University Bookstore, located in the University Center and managed by Barnes and Noble College Bookstores, carries all required texts and supplies for course work, including those for professional students. The bookstore stocks both new and used textbooks and buys back some textbooks at the end of each term. In addition, the bookstore sells some professional program equipment, office supplies, gifts, snacks, emblematic apparel and drug-store items.

Business Office

The Business Office at Pacific University handles all cashier and accounting operations for the university. This is where students pay their tuition, fees, and any other charges which may be placed on the student account. Information on payment plans and refunds as well as short term

and emergency loans can also be acquired at the Business Office. For more information about policies, payment plans, fees and other Business Office matters contact the Business Office.

Campus Public Safety

Campus Public Safety (CPS) is responsible for overseeing the safety and security of the campus community and property. However, community members must also assume responsibility for their safety by exercising good judgment and personal responsibility. CPS is staffed 24 hours a day, 365 days a year. Officers provide assistance and educational programming in personal safety, dealing with emergencies, protection of personal property and other crime prevention and awareness programs. Campus Public Safety seeks to provide a reasonably safe environment at Pacific University through high visibility and close interaction with the campus community. An annual crime report is made available to all current and prospective students and employees of the University via the University website. If you are concerned about any person or situation, want to report an emergency or you need a safety escort, please contact CPS immediately at 503-352-2230 or by e-mail at cps@pacificu.edu.

Career Development Center

Located in Chapman Hall, the Career Development Center's mission is to collaborate with fellow educators and community members to provide a transformative blend of liberal arts, experience, and career education that is so well integrated, empowering, and responsive to student needs that it emboldens them to pursue pathways to personal, professional, and community engagement that might otherwise have remained hidden or unattainable.

We provide a full range of career-related services and opportunities, responsive to the needs of Pacific University students, alumni, employers, and other constituents. A major part of our work consists of individualized sessions with students and alumni seeking full-time employment opportunities, part-time and temporary

work, internships, summer jobs, fellowships, and opportunities for graduate education. We also coordinate all on-campus and community service work-study employment through the Pacific University Work-Study Program. In addition to individualized work, we offer over 100 workshops and programs throughout the year, working in collaboration with faculty and staff, alumni, and members of various professional communities.

Figuring prominently among these resources as well is the Alumni Career Network, a database profiling over 1000 alumni interested in lending career networking assistance to students and graduates of the University. The staff possess an exceptional complement of expertise, experience and creativity in responding to student career needs. Students are invited to take full advantage of the wealth of resources and programs offered by the Career Development Center. Our promise to students who join us in this effort is that they will launch meaningful careers *before* they graduate.

Financial Aid Office

The Pacific University Financial Aid Office assists students with securing funding for their attendance at Pacific. In this role, Financial Aid Office staff members provide financial aid information to prospective and continuing students and their families, determine financial aid eligibility for admitted students, and assist with coordinating the University's student employment program.

Humanitarian Center

The purpose of the Humanitarian Center is to help Pacific students make a significant contribution to the community and integrate the learning from that experience in their studies and understanding of civic responsibility. Students who take advantage of a service learning placement also gain unique insight and experience related to careers and valuable life skills.

The Pacific University Humanitarian Center facilitates student access to service-learning opportunities for field placement and courses having a service component.

Living groups, campus organizations, and individual students may also find assistance in developing or finding sites for volunteer projects. The Center's database contains more than 200 local organizations that use volunteers as well as community outreach programs coordinated through the Humanitarian Center itself.

Most of the Center's service placements are in local social service organizations, peace organizations, governmental agencies and public schools. Among the more popular placements are tutoring and mentoring youth, working with homeless and women's shelters, visiting with senior citizens, helping environmental agencies, teaching in literacy programs for Hispanic families, and assisting with a variety of projects on the Navajo Nation each January.

Internship Program

Pacific University's Internship Program reinforces the University's commitment to an outstanding education and service to the community. Recognizing the value of connecting academic and experiential learning, Pacific actively aids students in identifying and developing opportunities to apply knowledge and skills gained in the classroom to professional environments in business, non-profit and government settings. The Career Development Center maintains a rich array of opportunities in collaboration with Pacific alumni and other industry professionals locally, regionally, nationally and internationally.

Students must be of Junior or Senior standing, with a minimum GPA of 2.7. Since internships require careful and early planning and coordination, interested students should schedule advising meetings early on with their academic advisors and the Internship Coordinator. To receive academic credit, students must complete an Internship 475 Learning Contract that can be obtained from the Registrar's Office. The Learning Contract requires review and approval by the student's academic advisor, the Department Chair, the Internship Coordinator and the Assistant Dean of the College of Arts and Sciences.

To ensure students progress and achieve their academic and career-related goals and objectives, students typically engage in one or more of the following activities: keeping a daily journal to analyze and record experiences, projects and skills gained; writing a final paper; assembling a portfolio of work samples and materials; and providing a presentation on the internship experience to the Pacific community upon completion of the experience.

For further information, students should contact their individual academic departments or the Career Development Center.

Library

From the moment one enters Pacific University Library—the doors open upon approach—one is invited to stay with as much ease as it took to walk in. Soaring cathedral ceilings tower over the light-infused lobby and its various resources: a circulation and reference desk, of course, but also a self-checkout system to the left and a coffee bar near the new books.

These features, combined with cozy study nooks, study rooms equipped for collaborative PC work and study, a 24 hour Study Center, wireless technology throughout the library, an Information Commons with computer workstations, a Library Classroom and over 87 pieces of art by faculty and alumni have no doubt attracts students and community members alike; attendance is up 60% since the library opened August 2005.

Passer-bys notice the similar architectural style to Pacific's neighboring 19th century building, Marsh Hall. Students enjoy the second floor reading room with its fireplace and impressive glass installation. The University community members utilize the spacious conference room looking out over the oak trees.

The Library offers students, faculty, and staff a diverse, carefully selected collection of nearly 250,000 volumes, over 1,000 paper journal subscriptions, 21,000 online journals, and over 200 electronic databases. The Library also houses a select collection of United States documents from around the world. Pacific's membership in the Orbis Cascade Alliance gives students, faculty, and staff easy access to more than 26 million volumes in over 35

academic libraries in Washington and Oregon. A highly qualified staff of librarians and support personnel work regularly with students and faculty to assist them in locating, evaluating, and using today's world of information.

"Explore. Discover. Experience." These are the words Pacific University has chosen to describe its library.

Oregon Holocaust Resource Center

Established in 1984, the Oregon Holocaust Resource Center, an educational organization, applies the lessons of the Holocaust to teach the importance of promoting a just and humane society, which values respect and acceptance. As a not-for-profit and nonsectarian organization, the Center is dedicated to communicating these lessons to teachers, students, and the general public in Oregon and southwest Washington in fulfillment of the legacy left by victims to the survivors – to remember, to record, to understand, to explain, and to enlighten future generations. The OHRC provides educational outreach through a variety of highly acclaimed programs, including: teacher training workshops; a Speakers Bureau of survivors, liberators, and other witnesses; the Shirley Tanzer Oral History Collection; an annual middle and high school symposium; the Sylvia Frankel Resource Library; the annual Sala Kryszek Writing and Art Contest for middle and high school students; and community events and programs that highlight the lessons of the Holocaust, as well as traveling exhibits and other special projects. Pacific University recognizes and fully supports the importance of the work of the OHRC, and accordingly, the OHRC and Pacific joined in a mutual affiliation in 1994. The OHRC's office is located in Warner 25 on the main campus.

Pacific Athletic Center, Intramurals and Club Sports

The home for athletic activities at Pacific is the spacious Pacific Athletic Center (PAC). The PAC is available for all students to use and houses a gymnasium with three activity areas, a state-of-the-art fitness center, a fieldhouse, three handball-racquetball courts, saunas, dance studio and wrestling room.

The New Cedar Street Athletic Complex, currently under construction, will provide state of the art competition venues for Pacific Athletic outdoor programs. Other outdoor facilities include four tennis courts, practice soccer fields, and a soccer game field near the heart of campus. Baseball and softball are played in Lincoln Park, which is located adjacent to the Pacific Athletic Center. Swimming is held in the Forest Grove Aquatic Center, located beside the Pacific Athletic Center.

Admittance to on-campus Boxer athletic events including basketball, lacrosse, soccer, volleyball and wrestling, are free of charge to all students, spouses and domestic partners, both undergraduate and graduate with a Pacific University Boxer Card. Pacific sports also include baseball, cross country, golf, softball, swimming, track & field, and tennis.

The Intramural Program provides the campus community with the opportunity to participate in athletic events on a non-varsity level. Organization is provided for same sex and co-ed competition. Sports for the Pacific University student body include, but are not limited to: flag football, three-on-three basketball, volleyball, five-on-five basketball, soccer and softball.

Pacific University provides opportunities for participation in the sports of handball and crew at the club level. The club sports compete against club-level programs from other institutions and, in some cases, intercollegiate programs. The Handball Club annually sends club players to the Intercollegiate National Tournament.

The club sports program at Pacific is a student driven organization satisfying needs not met by the varsity and intercollegiate athletic programs of the University. The purpose of the club sports program is to provide students with the opportunity to participate and compete in a sport at the club level, to develop organizational and leadership skills and to improve skills in and knowledge of a sport.

Old College Hall and the Pacific University Museum

Old College Hall was completed in 1851 and is the oldest permanent structure on the Pacific University campus. It is among the oldest collegiate buildings in the

western United States and continues to serve as a gathering place for members of the University and surrounding communities. This compact two-story structure with its signature octagonal belfry, or cupola, is symbolic of pioneer efforts during territorial days. In 1974, Old College Hall assumed its rightful place on the National Register of Historic Places.

As part of Pacific's centennial celebration in 1949, the second floor rooms of Old College Hall were converted into museum galleries. The Pacific University Museum exhibits artifacts relating to the history of the institution. Many interesting objects donated by alumni and friends of the University are interpreted here. Personal items from founder Tabitha Brown and President Sidney Harper Marsh are among the collections on exhibit. Treasures from various foreign cultures are also featured in the museum, reflecting Pacific's missionary heritage. Visits to the Pacific University Museum are arranged by appointment through the Office of the President at 503-352-2123.

Registrar

The Registrar's Office at Pacific University strives to provide excellent service to students, faculty and staff through maintenance of academic records, information, and course scheduling. The Registrar's Office is responsible for a number of services including: maintaining student academic records and carrying out course scheduling, enrollment changes and verification, degree evaluations, and informing students of their rights, responsibilities, and institutional procedures regarding academic regulations and confidentiality of student educational records. The Registrar's Office also provides students with easy access to their educational information, such as course schedules, grades, and transcripts. More information regarding the Registrar's Office services can be obtained from either staff in the Registrar's Office or from the office's web site at www.pacificu.edu/registrar/

Service Center

The Service Center acts as the University's print shop and produces many of Pacific's print materials such as class handouts, department forms, and campus memos. At least two days should be given for small projects for students, which can be completed for a fee.

Technology Information Center (TIC) University Information Services (UIS)

The Technology Information Center is a one-stop location for students, staff and faculty to get assistance with computers and other related technology. The TIC staff can assist with PUNet Accounts and Passwords, wireless connectivity, networking, and telephone support and they oversee the 24-hour general purpose computer labs and centralized printing areas. Centralized printing services are an available service to students on a cost-per-copy basis. The TIC provides software trouble shooting support for student computers, and offers a variety of media equipment for checkout and classroom support.

University Information Services highly recommends students purchase their own laptop computer prior to coming to Pacific. For information about what kind of computer to bring please refer to www.pacificu.edu/uis/services/purchases/. The TIC staff can be contacted via email at help@pacificu.edu or by calling 503.352.3132. The TIC is located in the lower level of Marsh Hall, Room LL-6

Tutoring and Study Skills

The Writing Resource Center, UC 104, offers students free assistance with their writing assignments. A trained writing consultant provides one-on-one sessions with the student. Writing at any stage of completion is welcomed — whether it's brainstorming for ideas or fine-tuning a final draft. The WRC is open to all students Sunday through Thursday, 12-3 pm and 7-10 pm.

The Math and Science Tutoring Center is located in Strain 220. Evening hours are Sunday through Thursday.

Academic Resident Assistants offer in-house connections for students living on campus to various academic services. They serve the Writing Resource Center and Math and Science Tutoring Center as well. Additionally, they administer campus wide academic programs, such as workshops on time management and study skills.

University Relations

The Office of University Relations is located on the third floor of Marsh Hall; auxiliary division locations include the Office of Alumni Relations, located on the east side of campus in the Abbott Center, and the Office of Conferences & Events, located on the second floor of Scott Hall. University Relations is responsible for coordinating fund raising, alumni activities and events, conferences and events, and public relations, including the University Web site and the dissemination of news and public information. Printed communications such as *Pacific* magazine and publicity brochures also originate in University Relations. The department distributes information about Pacific to the public and also maintains contact with local and national media regarding happenings at Pacific. It sends news of students to hometown media and operates a Speakers Bureau to facilitate faculty and staff speakers for area civic groups. The annual Tom McCall Forum public affairs debate, the Performing Arts Series, Founders' Week, and Commencement are also coordinated by University Relations.

Upward Bound

Upward Bound is a Federally-funded college preparatory program that offers educational assistance to high school students. Since 1966, Pacific University's Upward Bound Program – the oldest in Oregon – has helped high school students develop the skills and motivation needed to succeed in college. The project provides academic skills courses; in-school contact; individual tutoring and counseling; college and career planning; cultural and educational activities; help applying to college and for financial aid; a six-week residential summer school; and experience in college classes for high school seniors

Web-Based Information

Resources for Students are abundant on the World Wide Web. The Pacific Library through its links with other library systems can provide navigational tools for students to access information. The following sites are recommended as starting points for seeking information:

Pacific's Home Page
www.pacificu.edu

Pacific's Colleges and Schools Page
www.pacificu.edu/academics

Pacific's Library Page
www.pacificu.edu/library

Pacific's Student Life Page
www.pacificu.edu/studentlife/

Pacific's Handbooks and Policies
www.pacificu.edu/policies

Please note, web pages are living documents. The addresses shown may change as services to students and others are improved.

Faculty of Arts & Sciences

Julia Alderson (2005)

Assistant Professor of Art History
B.A., Humboldt State University, 1995
M.A., Rutgers University, 1996
Ph.D., Rutgers University, 2004

Edmond Alkaslassy (1993)

Assistant Professor of Biology
B.S., University of California at Los Angeles, 1989
M.A., Austin College, 1992

Jeffrey G. Barlow (1994)

Professor of History, Matsushita Professor of Asian Studies
B.A., Southern Illinois University, 1964
M.A., University of Pittsburgh, 1965
Ph.D., University of California, Berkeley, 1973

Vernon L. Bates (1975)

Professor of Sociology
B.A., University of Oregon, 1969
M.A., University of California, Davis, 1973
Ph.D., University of California, Davis, 1976

Pauline Beard (1994)

Associate Professor of English
B.A., London University, 1978
M.A., SUNY Binghamton, 1981
Ph.D., SUNY Binghamton, 1986

Michael E. Boardman (1995)

Professor of Mathematics
B.A., Western Washington University, 1985
M.S., Western Washington University, 1987
Ph.D., University of Oregon, 1992

Mark D. Bodamer (2001)

Associate Professor of Psychology
B.A., Marquette University, 1981
M.S., Central Washington University, 1987
Ph.D., University of Nevada, Reno, 1997

David Boersema (1985)

Professor of Philosophy,
 Douglas C. Strain Professorship in Natural
 Philosophy, Distinguished University Professor
B.A., Hope College, 1973
M.A., Michigan State University, 1978
Ph.D., Michigan State University, 1985

Jules Boykoff (2005)

Assistant Professor of Political Science
B.A., University of Portland, 1993
M.A.T., Lewis & Clark College, 1998
Ph. D., American University, 2004

Juliet W. Brosing (1987)

Professor of Physics
B.S., Humboldt State University, 1976
M.S., Florida State University, 1978
Ph.D., University of British Columbia, 1983

Lorelle Lee Browning (1990)

Professor of English
B.A., University of California, Santa Barbara, 1972
M.A., University of California, Santa Barbara, 1980
Ph.D., University of California, Santa Barbara, 1986

Michael Burch-Pesses (1995)

Professor of Music
B.S., University of the State of New York, 1989
M.M., The Catholic University of America, 1992
D.M.A., The Catholic University of America, 1995

Alyson L. Burns-Glover (1989)

Professor of Psychology
B.A., California State University, Long Beach, 1983
M.A., University of California, Davis, 1985
Ph.D., University of California, Davis, 1989

James J. Butler (2004)

Associate Professor of Physics
B.S., Eastern Oregon University, 1994
M.S., Lehigh University, 1996
Ph.D., Lehigh University, 2000

David Cassady (1984)

Associate Professor of Journalism
B.S., Arizona State University, 1971
M.A., University of Iowa, 1977
Ph.D., University of Iowa, 1980

Jeannine M. Chan (2006)

Assistant Professor of Chemistry
B.S., University of Utah, 1991
B. F.A., University of Utah, 1991
Ph.D., Utah State University, 2001

Patricia B. Cheyne (1994)

Professor of Art
B.F.A., University of Hartford, 1978
M.L.A.S., Wesleyan University, 1988
M.F.A., University of Colorado, 1992

Nancy K. Christoph (1995)

Associate Professor of Spanish
B.A., Williams College, 1986
M.A., University of California, 1990
Ph.D., Cornell University, 1995

Michelle M. Cowing (1999)

Associate Professor of Business Administration
B.S., University of California, Santa Barbara, 1990
M.S., Stanford University, 1992
Ph.D., Stanford University, 1996

Phillip D. Creighton (2003)

Professor of Biology
B.A., Tarkio College, 1966
M.S., Colorado State University, Fort Collins, 1970
Ph.D., Colorado State University, Fort Collins, 1974

James O. Currie Jr. (1972)

Distinguished University Professor
 of Chemistry
B.S., Ohio State University, 1965
Ph.D., University of Washington, 1970

Heide K. Deditius-Island (2005)

Assistant Professor of Psychology
B.S., Washington State University, 1996
B.A., University of Alaska, 1999
M.A., University of Montana, 2002
Ph.D., University of Montana, 2003

David DeMoss (1991)

Professor of Philosophy
B.A., Oklahoma Baptist University, 1981
M.A., Baylor University, 1983
Ph.D., University of Virginia, 1987

Andrea Doerfler (1999)

Assistant Professor of Social Work
B.A., Linfield College, 1986
M.S., Columbia University, 1988

Caleb Emmons (2006)

Assistant Professor of Mathematics
B.S., University of California, Davis, 2000
M.A., University of California, San Diego, 2002
Ph.D., University of California, San Diego, 2006

Jim Flory (2002)

Assistant Professor of Art

Lorely French (1986)

Professor of German
B.A., McGill University, 1979
M.A., University of California, LA, 1981
Ph.D., University of California, LA, 1986

Michael Geraci (1999)

Assistant Professor of Media Arts
B.A., Pacific University, 1991
M.S., University of Oregon, 2002

Joel W. Gohdes (2002)

Associate Professor of Chemistry
B.A., Carleton College, 1985
Ph.D., University of California, Berkeley, 1991

Christine Guenther (1998)

Associate Professor of Mathematics, Thomas J. and Joyce Holce, Professorship in Science
B.A., Stanford University, 1989
M.S., University of Washington, 1993
Ph.D., University of Oregon, 1998

Deke T. Gundersen (2000)

Associate Professor of Environmental Science, Thomas J. and Joyce Holce Professorship in Science
B.S., Indiana University Southeast, 1987
M.S., University of Louisville, 1990
Ph.D., Oregon State University, 1995

Jamie R. Haag (2000)

Associate Professor of Economics
B.A., University of Washington, 1991
M.A., University of Oregon, 1996
Ph.D., University of Oregon, 1996

Stephen Hall (2000)

Assistant Professor of Physics
B.S., Worcester Polytechnic Institute, 1988
Sc., M., Brown University, 1991
Ph.D., Brown University, 1995

Stacey Lynn Halpern (2005)

Assistant Professor of Biology
B.A., Carleton College, 1993
Ph.D., University of Minnesota, 2003

George A. Harshbarger (1993)

Professor of Music
B.A., California State University, 1967
M.A., San Francisco State University, 1973
D.M.A., University of Washington, 1985

John W. Hayes (2003)

Dean of the College of Arts & Sciences and Professor of Environmental Science
B.S., Benedictine University, 1966
Ph.D., Purdue University, 1971

Shawn Henry (1998)

Associate Professor of Exercise Science
B.S.Ed., Montana State University, 1988
M.S., University of Montana, 1991
Ph.D., University of Oregon, 1995

Johanna Hibbard (2000)

Associate Professor of Media Arts
B.A., University of Oregon, 1992
M.A., New School for Social Research, 1995
M.A., University of Iowa, 1998
M.F.A., University of Iowa, 2000

Ramona Ilea (2006)

Assistant Professor of Philosophy
B.A., University of Toronto, 2000
M.A., University of Minnesota, 2003
Ph.D., University of Minnesota, 2006

Kazuko Ikeda (1983)

Associate Professor of Japanese
B.A., Portland State University, 1981
M.A., Portland State University, 1985
Ph.D., University of Oregon, 1992

Brian H. Jackson (2004)

Assistant Professor of Exercise Science
B.S., University of North Carolina at Wilmington, 1997
M.A., East Carolina University, 1999
Ph.D., University of Virginia, 2004

Richard I. Jobs (2001)

Assistant Professor of History
B.A., Murray State University, 1991
M.A., Murray State University, 1994
Ph.D., Rutgers University, 2001

Kevin E. Johnson (1994)

Professor of Chemistry
B.A., Stanford University, 1983
M.S., University of Washington, 1987
Ph.D., University of Washington, 1991

Victor L. Kane (2005)

Assistant Professor of Marketing
B.A., Boston University, 1976
M.S., Columbia University, 1980
Ph.D., Brandeis University, 1991

Shereen Khoja (2002)

Assistant Professor of Computer Science
B.S., King Abdul Aziz University, 1997
M.S., University of Essex, UK, 1998
Ph.D., Lancaster University, UK, 2002

Erica Kleinknecht (2002)

Assistant Professor of Psychology
B.A., Western Washington University, 1995
M.S., Western Washington University, 1997
Ph.D., University of Arkansas, 2000

Emily Knudson-Vilaseca (2006)

Assistant Professor of Spanish
B.A., Concordia College, 1996
M.A., The Ohio State University, 1999
Ph.D., University of Minnesota, 2006

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Assistant Professor of Japanese
B.A., Notre Dame, Seishin University, 1982
M.A., Portland State University, 1990
Ed. D., Portland State University, 1998

Chris Lane (1999)

Assistant Professor of Mathematics
B.A., University of Oregon, 1991
M.S., University of Oregon, 1993

Lawrence M. Lipin (1992)

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A.B., University of California, Davis, 1978
M.A., University of California, LA, 1981
Ph.D., University of California, LA, 1989

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Cheleen Mahar (1994)

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B.A., University of Northern Colorado, 1967
M.A., University of Illinois, 1972
Ph.D., Massey University, 1986

Ellen Margolis (2004)

Assistant Professor of Theatre
 Director of Theatre
B.A., University of California, Berkeley, 1982
M.F.A., University of California, Davis, 1986
Ph.D., University of California, Santa Barbara, 1987

Marc Marengo (1988)

Professor of Philosophy and Religion
B.S., California State University, Chico, 1975
M.Div., Yale University, 1982
D. Phil., University of Oxford, 1992

Yasutaka Maruki (2006)

Assistant Professor of Japanese
B.A., Nihon University, Tokyo, Japan, 1997
Ph.D., University of Connecticut, 2006

Katya Monge-Hall (2003)

Assistant Professor of Spanish
B.A., University of Ecuador, 1996
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Associate Professor of Mathematical Sciences
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M.A., University of Wisconsin, 1994
Ph.D., University of Wisconsin, 1998

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Assistant Professor of English
B.A., Aurora University, 1992
M.A., Illinois State University, 1994
Ph.D., University of Texas, Dallas, 2000

Sarah R. Phillips (1995)

Associate Professor of Sociology
B.A., Whitman College, 1986
Ph.D., University of Minnesota, 1993

Kathlene Postma (2001)

Associate Professor of English
B.A., Northern Michigan University, 1986
M.A., Northern Michigan University, 1988
Ph.D., University of Wisconsin, Milwaukee, 1993

Adam Rafalovich, 2006

Assistant Professor of Sociology
B.Sc., Southern Oregon University, 1993
M.A., Northern Arizona University, 1995
Ph.D., University of British Columbia, 2002

Krishnan Ramaya, 2005

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B.Sc., University of Kansas
M.B.A., University of Kansas
Ph.D., University of Kansas

Martha Rampton (1994)

Professor of History
B.A., University of Utah, 1979
M.A., University of Utah, 1988
Ph.D., University of Virginia, 1998

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Assistant Professor of French and Spanish
M.A., University of Bari, 1975
M.A., University of Oregon, 1981
Ph.D., University of Oregon, 1992

Victor M. Rodriguez (1996)

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B.A., Universidad de Puerto Rico, 1982
M.A., Brown University, 1987
Ph.D., Brown University, 1993

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Professor of Economics
B.A., Dartmouth College, 1983
M.S., University of Wisconsin, Madison, 1991
Ph.D., University of Wisconsin, Madison, 1994

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Professor of Computer Science
B.A., University of Northern Colorado, 1980
M.S., Colorado State University, 1983

Lori S. Rynd (1981)

Professor of Biology
B.S., University of Washington, 1970
M.S., Oregon State University, 1975
Ph.D., Oregon State University, 1979

Sheryl Sanders (1998)

Associate Professor of Anatomy
B.A., Asbury College, 1985
Ph.D., University of Kentucky, 1989

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B.S., *New York University*, 1962
M.S., *Northwestern University*, 1966
Ph.D., *Southern Illinois University*, 1975

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Distinguished University Professor of
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O.D., *Pacific University*, 1952
M.S., *Pacific University*, 1954

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M.A., *Indiana University*, 1962
Ph.D., *University of California, Davis*, 1968

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B.S., *Portland State University*, 1963
M.S., *Oregon State University*, 1968
Ph.D., *Oregon State University*, 1973

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Ph.D., *University of Arizona*, 1978

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B.S., *Bemidji State College*, 1945
M.M., *Eastman School of Music*,
University of Rochester, 1948

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Associate Professor of Mathematics
B.A., *National Taiwan University*, 1961
B.A., *University of Oregon*, 1966
M.A., *University of Montana*, 1968
M.B.A., *Portland State University*, 1983

Michael C. Clock

Professor of Mathematics
B.S., *Lewis and Clark College*, 1957
M.S., *Oregon State University*, 1961
Ed.D., *Oklahoma State University*, 1967

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Associate Professor of Theatre
B.S., *Lewis and Clark College*, 1964
M.S., *Portland State University*, 1970

Steven J. Cool

Professor of Developmental Neurobiology
B.A., *Trinity College*, 1962
M.A., *University of Illinois*, 1965
Ph. D., *University of Illinois*, 1966

Robert A. Davies

Professor of English
A.B., *University of Massachusetts*, 1952
M.A., *University of Michigan*, 1953

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B.A., *Beloit College*, 1956
M.A., *Northwestern University*, 1957
Ph.D., *University of Oregon*, 1966

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Professor of Romance Languages
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Professor of History
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Professor of Music
B.M., VanderCook School of Music, 1938
A.B., Central College, 1939
M.M., Roosevelt University, 1947
D.M.E., Indiana University, 1972

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B.S., Pacific University, 1958
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M.S., University of New Mexico, 1964
Ph.D., University of New Mexico, 1967

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M.A., Claremont Graduate School, 1969
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of Physiology and Pharmacology
B.S., Rutgers University, 1950
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Director of Student Services,
Professor of Psychology
B.S., Hunter College, 1953
Ed.D., University of Virginia, 1969

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B.S., Columbia University, 1953
M.S., Columbia University, 1954
O.D., Massachusetts College of Optometry, 1964

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President Emeritus
B.A., Indiana Central College, 1942
M.Div., United Seminary, 1946
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School of American Ballet, 1955

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M.A., Pacific University, 1954
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 and Philosophy
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M.A., Yale University, 1963
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Ph.D., University of Texas, 1974
O.D., Pacific University, 1986
Fellowship, Pacific Cataract and Laser Institute, 1990-91

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Education, School of 503-352-2205
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School of 503-352-2846
Physician Assistant Studies,
School of 503-352-3121
President's Office 503-352-2214
Professional Psychology,
School of 503-352-2240
Public Affairs/Events 503-352-2211
Registrar 503-352-2793
Student Life/
Residential Programs 503-352-2200
Study Abroad 503-352-2084
Transcripts/Records 503-352-2793
Tuition/Fees/
Payment of Bills 503-352-2128
University Relations 503-352-2211

Academic Calendar 2006-2007

2006 FALL SEMESTER

August

- August 17-22** Optional Trips for New Students
- August 21-23** International Student Orientation
- August 23** New Student Orientation Begins
- August 24-25** Faculty Conference
- August 28** Classes Begin
- August 28** Convocation

September

- September 1** Last Day for New Student Registration
- September 4** Labor Day - No Classes
- September 11** Last Day to Add Courses
- September 11** Last Day to Drop Courses With No Record

OCTOBER

- October 6** No classes for College of Arts and Science
 - October 30** Advising for Winter III and Spring Semester
- Thru Nov 17(tent)

NOVEMBER

- November 6** Last Day to Withdraw from Courses
- November 22** Begin Thanksgiving Holiday, Noon
- November 23,24** Thanksgiving

DECEMBER

- December 1** Last Day of Classes
- December 4,5** Final Examinations
- December 6** Reading Day
- December 7,8,9** Final Examinations

2007 WINTER III

JANUARY

- January 3** Winter III Term Classes Begin
- January 5** Last Day to Add Courses
- January 5** Last Day to Drop Courses With No Record
- January 15** Martin Luther King Day (classes will not be held)
- January 16** Last Day to Withdraw from Courses
- January 24** Winter III Final Exams
- January 31** Fall Graduation Date

2007 SPRING SEMESTER

- January 25** International Student Orientation
January 26 New Student Orientation
January 30 Spring Classes Begin

February

- February 5** Last Day for New Student Registration
February 12 Last Day to Add Courses
February 12 Last Day to Drop Courses With No Record

MARCH

- March 24 thru April 1** Spring Break

April

- April 2 thru 20(tent)** Advising for Fall Semester
April 9 Last Day to Withdraw from Courses
April 25 Senior Projects Day (no Arts and Science classes)

May

- May 9** Last Day of Classes
May 10 Reading Day
May 11,12,14,15,16 Final Examinations
May 19 Commencement

2007 SUMMER TERM

- May 29** Classes begin for Term I
Classes conclude on the date printed in the class schedule

June

- June 25** Classes begin for Term II
Classes conclude on the date printed in the class schedule

JULY

- July 23** Classes begin for Term III
Classes conclude on the date printed in the class schedule

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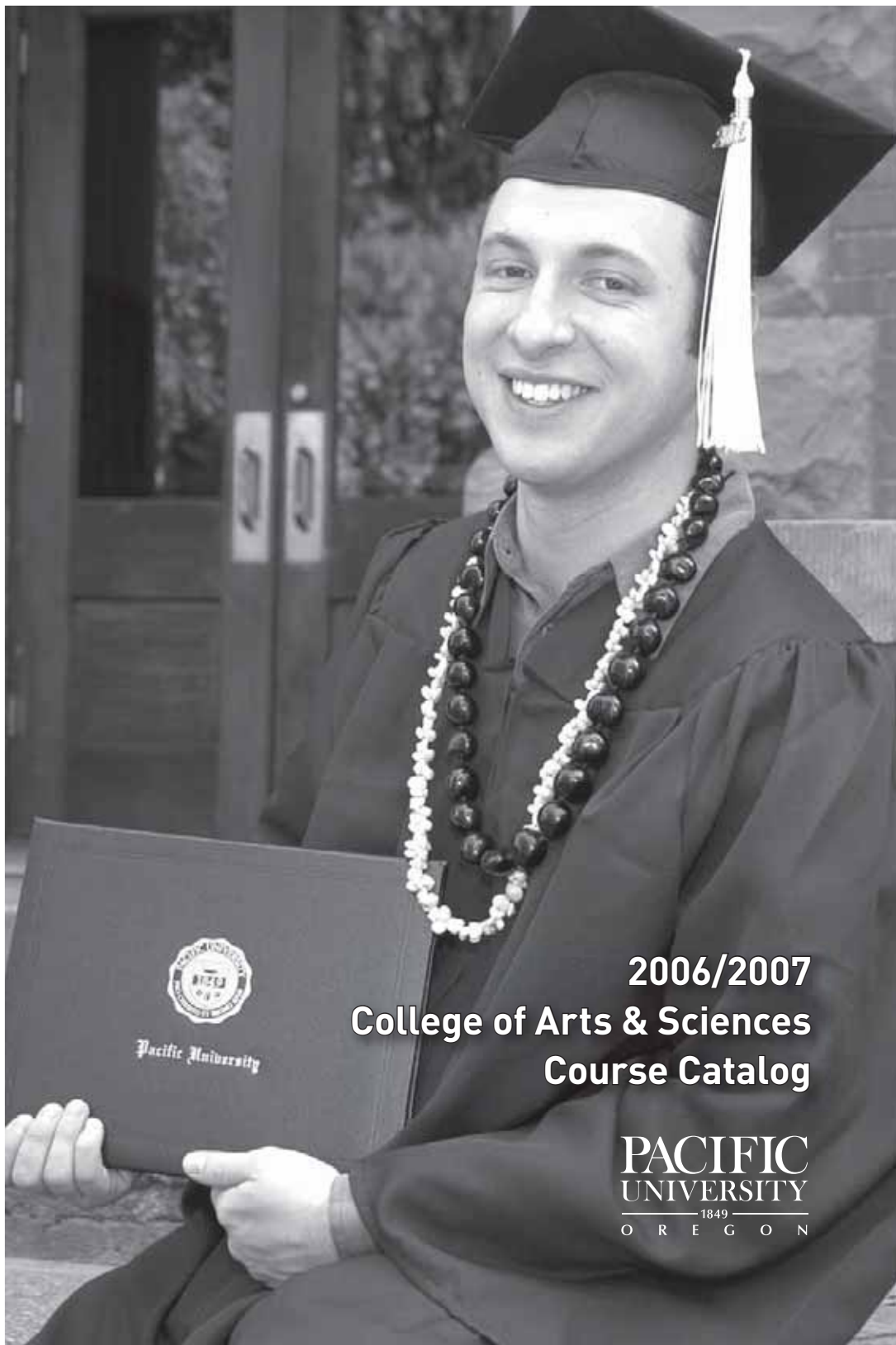
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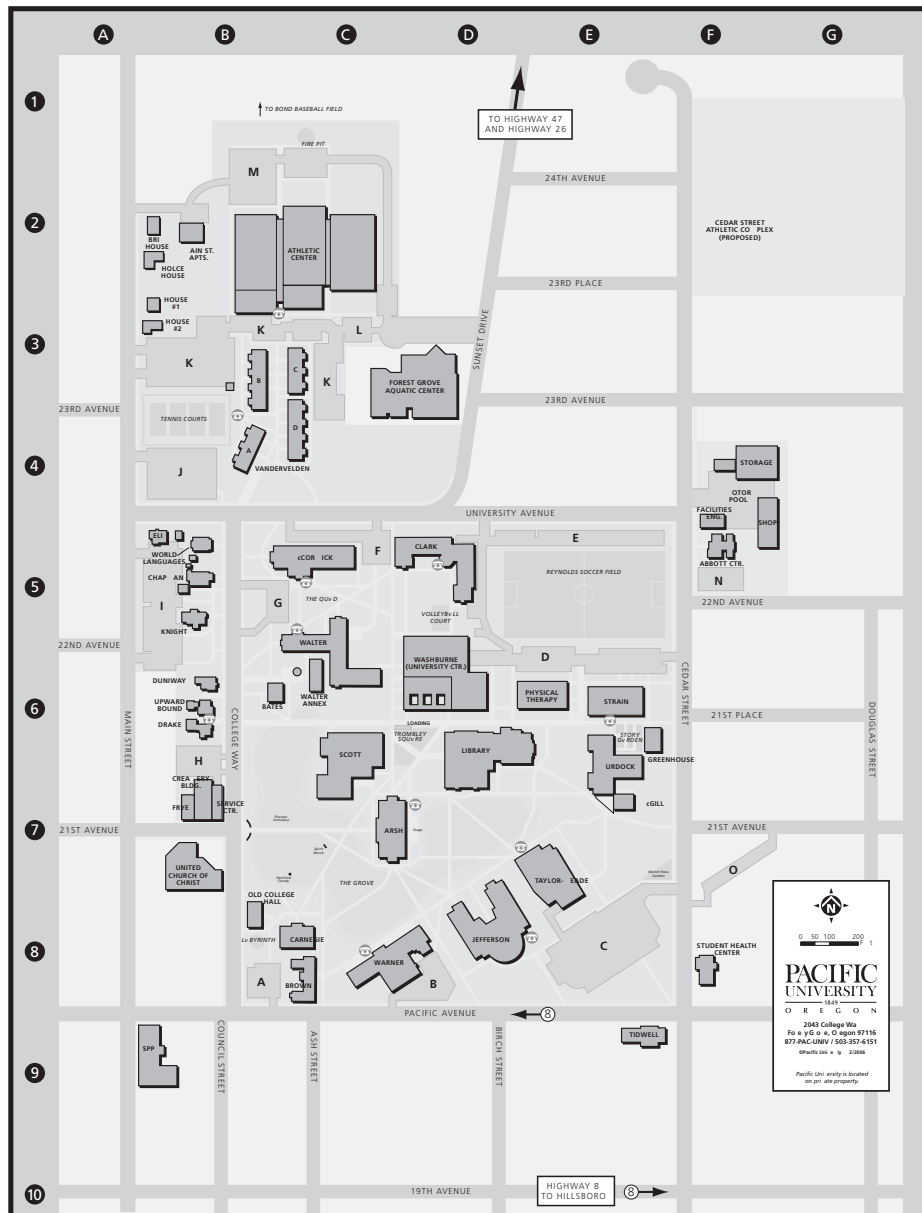
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2006/2007
College of Arts & Sciences
Course Catalog

PACIFIC
UNIVERSITY
1849
O R E G O N



DRIVING TO THE CAMPUS

Pacific University is located in Forest Grove, Oregon, 22 miles west of downtown Portland. From Portland, the preferred route to campus is via Highway 26 (US-26), turning south at the North Plains (Exit 57 - follow signs indicating Forest Grove or Pacific University), or Banks (via Highway 56 and 47). The map displays this route.

1 FROM THE NORTH...

Traveling southbound on Interstate 5, take Exit 405 (west), follow signs and exit to Highway 26 west (local business/zoo).

FROM THE SOUTH...

Traveling northbound on Interstate 5, take Exit 217 (north), follow signs and exit to Highway 26 west.

FROM THE EAST...

Traveling westbound on Interstate 84, follow signs and exit to Interstate 5 southbound, follow signs to 405, and to Highway 26 west.

2 THEN... FROM HIGHWAY 26

Exit Interstate 5 onto Highway 26 (Tillamook/Banks), travel driving 2 miles west and turn right to Highway 47 south. Travel about six miles. Enter Forest Grove, turn right onto Sunset Drive to the stoplight. The first building in sight is the residence hall; follow the curve to the right (University Avenue) and then the left is College Way and main entrance to campus.

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Financial Aid Office
Help Desk
President's Office
Registrar
Taylor Auditorium
Technology Information Services (TIC)
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University Relations
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O Office of Permitt Support (Washburn Hall -U.C.), D-6
 Old College Hall, B-8
Academy Room
Price Memorial Chapel
University Museum
 Oregon Holocaust Resource Center (Wren Hall), C-8
 Outreach Program (Connery Building), A-7

P Pacific Athletic Center and Field House (PAC), C-2
 Pacific Information Center (PIC), (Washburn Hall (U.C.), D-6)
 Pacific Institute for Ethics and Social Policy (U.C.C. Church), A-7
 Pacific University Library (Library), D-6
 President's Office (Marshall Hall), D-7
 Profession Psychology (SPP), A-9
 Psychology Department (Scott Hall, C-6)
 Wren Hall, C-8)

R Registrar (Marshall Hall), C-7
 Reynolds Soccer Field, E-5

S School of Dental Health Sciences (Scott Hall), C-6
 School of Pharmacy (Scott Hall), C-6
 School of Physical Therapy (PT Bldg), E-6
 School of Physician Assistant Program (P.A. Program) OFF MAP
 School of Professional Psychology (SPP), A-9
 School of Occupational Therapy (Wren Hall-low level), C-5
 Scott Hall, C-6
Cawein Gallery
Conference and Events
Arts and Science Faculty Offices
Psychology Dept. offices and labs
Scheduling Coordinator
School of Dental Health Science
School of Pharmacy
 Services Center, B-7
Business Services, Copy Center, Bulk Mailing
 Soccer Field, E-5
 Strickland Science Center, E-6
 Story Mori Garden, F-6
 Student Check-in (Student), C-5
 Student Health Center and Counseling, F-8
 Student Life Offices (Washburn Hall -U.C.), D-6

T Tidwell-McCready Performing Arts Center, E-7
 McCready Hall
Music Dept.
 Technology Information Center (TIC), (Marshall Hall), C-7
 Tidwell Building, F-9
Human Resources
 Tromblay Square, D-6
 Tufts Student Health Center, F-8

U University Center (U.C.) (Washburn -H Hall), D-6
 University Relations (Marshall Hall), D-7
 U.C.C. Church, B-7
Pacific Institute for Ethics and Social Policy
 Upward Bound, B-6

V Vandervelden Court (Residence housing), C-4
Student apartments
Vandervelden Conference Room 144
 Voyages Program (Connery Building), A-7

W Walther Hall (Residence Hall), C-5
Occupational Therapy - lower level
 Walther Annex, C-6
 Slagel Classroom - 101
 Meyer Classroom - 105
 Wren Hall, C-8
Tom Miles Theatre
Theatre Dept.
Oregon Holocaust Resource Center
Art Department offices and classrooms
Psychology offices and classrooms
 Washburn Hall/University Center, D-6
Alumni Room
Berglund Center for Internet Studies
Bookstore
Fireside Lounge
Mail Room
Multi-Purpose Room (MPR)
Pacific Information Center (PIC)
Student Life Offices
University Food Service
Writing Resource Center
 World Languages House, B-5
World Languages faculty offices
 Writing Resource Center (Washburn Hall/University Center), D-6

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