## Contact Information

WRITE
Office of Admissions
Pacific University 2043 College Way Forest Grove, OR 97116

CALL
503-352-2218
or
toll-free 800-677-6712

VISIT
www.pacificu.edu
E-MAIL
admissions@pacificu.edu

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## Accreditations \& Memberships

## ACCREDITATIONS

Pacific University is accredited by the Commission on Colleges of the Northwest Association of Schools and Colleges. In addition, selected programs have received specialized accreditation from:

## Optometry

Accreditation Council on
Optometric Education

## Music

National Association of
Schools of Music
Physical Therapy
Commission on Accreditation in
Physical Therapy Education of
the American Physical Therapy
Association, Inc.
Occupational Therapy
Accreditation Council for Occupational
Therapy Education of the American
Occupational Therapy Association, 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
Education
Teacher Standards and Practices
Commission of the State of Oregon
Physician Assistant Studies
Accreditation Review Committee on
Education for the Physician Assistant, Inc.

## 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 and the Association of Independent Liberal Arts Colleges for Teacher Education.

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## Introduction

## MISSION OF PACIFIC UNIVERSITY

The mission of Pacific University is to provide an education of exceptional quality in liberal arts and sciences, and in selected professional programs to prepare students for service to a changing community, nation and world.

In addition to our mission, Pacific University values

- A community of faculty, staff, and students dedicated to high academic standards, integrity, lifelong learning, and service to the community and the integration of liberal arts and professional education;
- A community that embraces creativity, flexibility and change and that honors diversity of viewpoints;
- A community that respects our traditions, our environment and our relationships beyond the campus.


## PACIFIC: AN OVERVIEW

Pacific University, founded in 1849, is an independent, comprehensive university recognized nationally for its exemplary programs and as one of the best values in higher education west of the Mississippi. With an enrollment of more than 2,200, Pacific has pioneered new developments in the delivery of higher education and has created a dynamic, new learning community that will prepare our students for competitive and compassionate professional lives.
Pacific's curriculum is a distinct model of education that links theory with practice. Our undergraduate liberal arts programs connect classroom education with professional preparation through internships, practica and research programs. Our graduate programs in education and the health and human service professions emphasize the principles of liberal learning. Pacific's history is richly steeped in a tradition of community service. To build upon our legacy, we have identified the above mission
and values as those we fully embrace in all of our programs and initiatives.
Pacific University offers exceptional academic value. Independent analyses of the university's educational quality, cost and the ready availability of financial aid have determined that Pacific is among the best educational values in the nation. Emphasizing quality, keeping costs in check and offering additional opportunities for financial assistance are top priorities.
Pacific provides a caring community where friendships are a priority and faculty are committed to helping students succeed. The university is small enough that opportunities abound for students to get involved, but big enough that students working together can have a meaningful impact.
The 55-acre Forest Grove campus contains 18 major buildings in a picturesque setting of green lawns and tall shade trees. Architecture at Pacific is a pleasant blend of the old and new, represented at one end of the spectrum by historic Old College Hall (1850), the first permanent structure of Pacific University, and at the other by the University's new science, music and professional buildings. It also includes the 90,000 square foot Pacific Athletic Center and the Tom Reynolds Soccer Field.
In addition to its Forest Grove campus, the University has a satellite campus located in Eugene that serves the needs of the College of Education, and operates facilities in Portland that support the academic and clinical programs of the College of Optometry and the School of Professional Psychology.

## A 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 1842 by the Reverend and Mrs. Harvey Clarke, 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 a 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 Clarkes. She became interested in their
work and assisted in teaching the children. Inspired by her assistance, Rev. Clarke 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, 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 Clarke and several others drew up plans for the new institution.
On September 26, 1849, the Territorial Legislature granted a charter establishing Tuality 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 Clarke 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. Mr. Marsh was the son of the president of the University of Vermot, and grandson of the first president of Dartmouth College. Sidney Harper Marsh served as president from 1853 to 1879.
Pacific University has evolved into a comprehensive, independent University that provides both undergraduate and professional graduate programs. At the heart of the University is the College of Arts and Sciences, offering a broad curriculum in the liberal arts and sciences. Surrounding the College are the College of Education and the College of Optometry, and the College of Health Professions that includes the Schools of Occupational Therapy, Physical Therapy, Physician Assistant Studies, and Professional Psychology.

## 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 that produces graduates with the intellectual capabilities and personal qualities that enable them to participate in rewarding careers and to contribute to their communities.

Pacific's base in the liberal arts is clearly reflected in the more than 25 different programs in the College of Arts and Sciences. This College is the largest unit and the core of the University. As such, it provides a broad spectrum of opportunities to match individual interests and career plans.
The College of Arts and Sciences has a curriculum that 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. Student studies are supported by a strong advising program, which covers academic development through career counseling and placement. The College provides the kind of living and learning experiences that one expects to find at a 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.
The College has traditionally encouraged offcampus learning. Pacific undergraduates may study abroad, 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. Summer Session provides an affordable option for earning additional credits or accelerating degree completion. The Summer Session catalog is available in mid-March and may be obtained from the Registrar's Office.

## COLLEGE OF EDUCATION

For over ninety years 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 www.pacificu.edu* 9
study include undergraduate and graduate degree programs leading to initial licensure for teachers in general and special education classrooms and for school counselors. In addition, the College offers a continuing teaching license program for in-service teachers, and a special masters program for optometrists. Non-degree programs for teachers who wish to add endorsements and/or authorizations are also offered.
An outstanding faculty is the key to the excellence of Pacific's 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 to 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 four-year Doctor of Optometry degree, and a Masters of Science in Clinical Optometry degree. Offering quality learning opportunities within a supportive environment is of highest priority at Pacific. Its Optometry programs are distinctive, and they emphasize service to both profession and community.
In addition to maintaining a full service clinic on campus, the College operates four
fully-staffed clinics in the Portland area and a low vision clinic at the Washington State School for the Blind in Vancouver, Washington. Students regularly complete professional precep-torships in a variety of clinical settings through- out the United States and at selected locations in Canada, Germany, Korea, and Australia.
The Masters of Science in Clinical Optometry degree program is designed to prepare individuals for careers in optometric education, research and specialty practice. It usually requires a minimum of 21 months to complete. Residency programs leading to a certificate in Primary Eye Care Optometry, Geriatric Optometry, Refractive and Surgical Co-Management, Ocular Disease/Refractive and Ocular Surgery, or Cornea and Contact Lenses are available through the College. The Cornea and Contact Lens residency is 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 THE HEALTH PROFESSIONS:

## School of Occupational Therapy

The School of Occupational Therapy at Pacific University offers a 29 month entrylevel Masters of Occupational Therapy (MOT) degree to educate and prepare future occupational therapists to address the challenges to healthful living that face society.
Occupational Therapy focuses on day-to-day activities (occupations) in which people engage on a daily basis. Through successful engagement in meaningful and valued daily occupations, an individual experiences a sense of competency, self-fulfillment and subsequent health and well-being.
The School of Occupational Therapy holds firmly to the founding philosophy of the profession: engagement in meaningful and purposeful day-to-day activities (occupations) leads to 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 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 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.

## School of Physical Therapy

The School of Physical Therapy grants a three-year Doctor of Physical Therapy degree as preparation for entry into the physical therapy profession. Pacific University's location in Forest Grove, Oregon offers physical therapy students the values associated with a small town environment, as well as some of the excitement of a larger city-Portland. The campus 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 professional program, the School of Physical Therapy offers a Doctor of Physical Therapy degree for practicing physical therapists and several continuing education programs for the professional community annually. These programs are staffed by the School's faculty and by other authorities in the field.

## School of Physician Assistant Studies

The School of Physician Assistant Studies strives to prepare students to provide care for a diverse population in a changing healthcare environment through an education based in primary care medicine with a focus on critical thinking. The 28 -month master's degree curriculum is designed to provide the student with the didactic and clinical skills needed to assist in the practice of medicine while stressing the importance of understanding and valuing the 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, other health care 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 the advisory and admissions 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 and surrounding states. The Physician Assistant (PA) is a respected member of the health care team who works interdependently 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 and health care administration.

## 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. SPP also offers a separate Master's 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, at the PSC the School has its own Psychology Internship Training Program, which affords doctoral students the opportunity to complete national and state requirements for their internships.

## OTHER ACADEMIC PROGRAMS AND RESOURCES

## 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, Europe and Latin America. ELI students live with American roommates in the residence halls and may take regular university classes as soon as their English skills allow. The ELI also provides special summer study programs. The ELI is part of International Programs.

## Harvey W. Scott Memorial Library

Named after the first graduate of Pacific University, the Harvey W. Scott Memorial Library offers students, faculty, and staff a diverse, carefully selected collection of nearly 250,000 volumes, over 1,000 current journal subscriptions, 21,000 online journals, and Internet access to information and documents from around the world. The Library also houses a select collection of United States government documents, some dating back to the early 1800s. The Margaret McChesney Scott Music Library is home to an extensive collection of music scores, LPs, and CDs. Pacific's membership in the Orbis Cascade Alliance gives students, faculty, and staff easy access to more than 22 million volumes in over 27 academic libraries in Washington and Oregon. The Library's catalog is easily accessible through the Internet. Access to the 150 plus research databases are available with appropriate authentication. There are a number of networked public access terminals available for use in the Library as well as a wireless environment for personal laptops.
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. Course-related instruction is available to help students learn search strategies and to develop their academic information literacy skills to prepare them for their professional careers. Librarians are available at the Reference Desk and by appointment to help students with their research needs. For additional information about the Library and its services, please visit the Library's website at http://library.pacificu.edu/

## 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 beginning November 15.

## 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 $\$ 30$ application fee to the Admissions Office.
2. Give recommendation form to counselor or appropriate faculty member to be completed and returned to Pacific University Admissions Office.
3. Request that official transcripts for all academic work be forwarded to the Admissions Office. Transfer students with less 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 Admissions Office.
2. The application fee of $\$ 30$.
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 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 TOEFL score through attendance in the English Language Instituite. 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 Admissions Office 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 Admissions Office to attend classes, meet with students and faculty, talk with an admission 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 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 2004/2005

## Tuition

Annual (two 14-week terms)*
Tuition for students for the
academic year ................................\$20,104
Semester (one 14-week term)*
Tuition for students for the
semester ......................................... $\$ 10,052$
Part-time, per semester hour (1 through 11 credit hours) ................ \$ 838
Summer, per semester hour ................ $\$ 390$
Audit, per semester hour .................... $\$ 310$
Fees
Student Government/Activities**
Annual.................................................. $\$ 170$
Semester .................................................. $\$ 85$

## Health service **

Annual.................................................. $\$ 140$
Fall or Spring Semester ......................... $\$ 70$
Technology **
Fall or Spring Semester ....................... $\$ 100$
Summer Term ......................................... $\$ 35$
Annual (Fall, Spring \& Summer) ....... \$235
Recreational **
Annual.................................................... $\$ 50$
Semester .................................................. $\$ 25$
Medical insurance **
August 20, 2004 to August 19, 2005
(U.S. citizen) ........................................ \$ 583

August 20, 2004 to August 19, 2005
(International) ..................................... $\$ 650$

## Music

Private Lessons:
(12 half-hour lessons, 0.5 credits) ...... $\$ 220$
(12 one-hour lessons, 1.0 credits) ....... $\$ 440$

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 fulltime 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.

## 2004/2005 ROOM/BOARD

## Winter Term (January) Room and Board Information

Room 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. Meal plans are billed three times per year, Fall Semester, Winter Term and Spring Semester. All boarding students are automatically billed for the Winter Term meal plan based on the meal plan they had Fall Semester. Meal plan changes are not accepted for the Winter Term. Only students enrolled in Winter Term courses which meet on campus are required to have meal plans. Once enrollment for Winter Term has been verified, the automatic charges to students not enrolled for January courses will be removed. If one arrives late to the Winter Term, leaves early or is residing in on-campus housing, but is not enrolled in a course, the Housing Office must be notified. No meal plan refunds will be issued if notification is not received by the end of February.

## Room Rates

ROOM RATES ACADEMIC YEAR SEMESTER


Vandervelden Four bedroom units ....................
Vandervelden Two bedroom unit (one available)
................................................ \$ 4,168 ..... \$ 2,084

Vandervelden Studio (one available) $\qquad$

## Board Rates

|  | LEVEL A LEVEL ${ }^{\text {b }}$ | LEVEL C | LE |
| :---: | :---: | :---: | :---: |
| Semester ....... \$1,190 .. \$1,348 ... \$1,504 ... \$1,657 |  |  |  |
| Winter Term ... \$ 243 .... \$ 280 ...... \$ 316 ..... \$ 354 |  |  |  |
|  |  |  |  |

The meal plan is a combination of a traditional board plan and "dining dollars." The traditional board plan includes all dinners and the weekend brunches (nine meals per week) in an all-you-can-eat style. "Dining Dollars" can then be utilized for weekday breakfasts and lunches with an ala carte pricing. This allows students to pay for only what they want for the breakfasts and lunches.

## Level A

\$250 dining dollars per semester;
$\$ 40$ dining dollars for Winter term

## Level B

\$375 dining dollars per semester;
$\$ 70$ dining dollars for Winter term

## Level C

\$500 dining dollars per semester;
\$100 dining dollars for Winter term

## Level D

\$625 dining dollars per semester; \$130 dining dollars for Winter term
Students may change their meal plan level before the end of the second week of the fall and spring semesters. The account balance will be carried over from fall semester to winter term, and then to spring semester, but not transferred to the next year's fall semester. There is no refund of dining dollars at the end of the spring semester. However, bulk buying of food items will be available for students to use up any remaining declining balance at the end of the spring semester.

## 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 2004-2005 Academic Year are:

| SEMESTER | TOTAL PAYMENT DUE DATE |
| :---: | :---: |
| Fall/Wint | .....................August 15, 2004 |
| Winter ...... (for student | $\qquad$ January 5, 2005* entering Winter Term) |
| Spring | .....................January 15, 2005 |
| Summer ... | .........................May 15, 2005 |

*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. If you do not make the payment according to schedule, a late fee of $\$ 50$ will be assessed to your account for each month that the payment is past due. The University will assess a return check charge in the amount 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, 2004 with additional payments due the 15th of each month. For spring term, payments begin on December 15, 2004; for summer
term, April 15, 2005. 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 you do not make the payment according to schedule, a late fee of $\$ 50$ will be assessed to your account 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 $\quad$ PAYMENT DUE DATES |
| :--- |
| Fall/Winter ........................... August 15, September | 15, October 15, and November 15, 2004

Spring $\qquad$ . December 15, 2004, January 15, February 15, and March 15, 2005

Summer ................................. April 15, May 15, June 15, and July 15, 2005

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

Disbursement of Federal Direct Stafford Loan (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 Direct Parent Loan 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 name. 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 fiduciary 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, and/or outside scholarship funds - must be certain that all funds intended for their account have been processed and delivered to the University Business Office and credited to the student's account. This covers endorsement of all checks to be credited to the student's account.
Please visit our website at nellie.pacificu. edu/finance/bo/ or email us at cashiering@pacificu.edu.

## Student Contract

Each student must complete a student contract with the Business Office at the beginning of each academic year they are enrolled at Pacific University. This contract will provide the student's name, ID number, and authorization for information and payment plan selected. 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 in their first semester of their academic year. 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 class, 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 on or before the first day of classes will be refunded 100 percent of their charges; 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 the 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 their schedule to change from an overload to full-time standing or from a full-time to a 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 refund 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 120 days. Loans are available for up to $\$ 2,000$.
Students may borrow 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 loan 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

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 meritbased 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 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 Regulations 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 Fed-erally-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.
Phi Theta Kappa Scholarships - A limited number of these $\$ 1,500$ scholarships are awarded to transfer students who are members of Phi Theta Kappa. To be considered for these funds, students must have completed at least 30 semester hours or 45 quarter hours (accepted by Pacific), and have maintained at least a 3.5 cumulative grade point average.

## 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 2004-2005 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 2004-2005 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 2004-2005 are expected to be $\$ 3180$ for the academic year.

## Employment

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 Direct 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 loan 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. Subsidized loans begin to accrue interest at a variable rate, not to exceed 8.25 percent, after the six-month grace period ends; unsubsidized loans begin to accrue interest when funds are disbursed.
Federal Direct Parent Loans for Undergraduate Students (PLUS) - These loans are available to credit-worthy parents of dependent students. Parents can 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 <br> Requirements

## Curricular Goals

Every graduate of the College of Arts and Sciences shall have a command of the basic tools of thought and language.

- Inquiry, critical thinking, and critical analysis
- Modeling, abstract thinking, and structural thinking
- Quantitative reasoning
- Creativity
- Written and oral language so that ideas, knowledge, emotions, 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/her own set of values;
- understand multicultural, diverse, and global perspectives;
- access and evaluate information necessary to make informed decisions;
- participate as an informed person and citizen in the arts, business, fitness and health, politics, and the sciences;
- engage in the practices of a discipline with knowledge of the discipline and an understanding of how such 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

124 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 can be counted for more than one requirement.
To help students understand how the Core requirements help them meet the curricular goals of the College, the curricular goals for each Core requirement are listed after the requirement.
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 it 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)

English 201 Expository Writing or English 202 Writing About Disability.
English 201 is devoted to the study of
language for the purpose of improving

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students' writing and thinking skills. Sophmore 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

(6 semester hours 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 can be exempted from the Foreign Language Core requirement by obtaining approval from his/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 guideline for western languages, and the NoviceHigh 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, reading\}
- Time-Management \{focus on the organization and prioritization of academic tasks\}

Students work with texts from the premodern and modern eras (pre- and post1500 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, and/or treated in, 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 Cross Cultural in the Schedule of Classes or catalog. The courses that qualify are those on the culture 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 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, "handson" 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 subjec-tive-though 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 and/or appreciation of one of the arts. These are typical lecture courses that operate along the lines of Humanities courses. Students who elect this path will:

- become "active seers" and/or 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 and / 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, 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 and/or psychological phenomena;
- be able to use theoretical concepts from two different social science disciplines to describe and explain social and/or psychological phenomena;
- be familiar with quantitative and/or qualitative methods used by social scientists to gather and analyze evidence;
- be familiar with substantive results of social science research about social and/ or psychological issues and problems;
- be familiar with social science approaches used in dealing with value judgements about issues and problems.
H. THE HUMANITIES (6 semester hours)

Two courses from two different disciplines chosen from Literature*, History, Media Arts (MedA 110, 111, 112, 120, 121, 201, 301, 302, 307, 308, 401, 410, 422 only), Philosophy, 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.)
Students who complete the Humanities core requirement will have:

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


## I. THE NATURAL SCIENCES

## (6 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. No 190 courses can 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's degree and major must be included in the 124 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 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 Bachelor's 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 upperdivision.
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 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

Upon application, academic departments may waive requirements for a major or minor, if faculty are 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 single department, with the exception of departments that include more than one discipline (Business and Economics, World Languages and Literature, and Mathematical Sciences), where students may take up to 60 hours but no more than 48 in a single discipline, and Music, where students may take up to 60 hours.

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

## Activity Courses

A maximum of 4 hours in 1-hour activity courses are allowed. Music courses for students pursuing a Bachelor of Arts degree with a major in music are exempt from this activity hour limitation. Activity courses are: DANC 100 and 200 level courses, HPER 150, MUS 150, MUS 151, MUS 159, MUS 163, MUS 165 and MUS 167.

## Internships

A maximum of 17 hours of internship credit will count towards graduation of which no more than 14 credits can 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 set requirements for prospective teachers. Students expecting to teach must satisfy those rules in effect at the time of graduation.

## Student Status

Students who register for fewer than 12 credits by the end of the add/drop period will be considered part-time students. Parttime status can adversely affect financial aid awards and athletic eligibility.

## 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 1997 is calculated to be 59 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 withing 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, or Masters of Science in 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.

## Time Limit for Completion of Graduate Degrees

Unless otherwise noted within specific programs, all work for graduate degrees (including transferred credits, dissertation and examination) must be completed within a period of seven calendar years.

## 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 can 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 |  | Biology | Biology with emphases in: <br> - Biology <br> - Ecology and Evolution <br> - Molecular and Cellular |
| :---: | :---: | :---: | :---: |
| DEPARTMENTS | MAJORS |  |  |
| Art | Art |  |  |
| Music | Music with emphases in: <br> - Music <br> - Performance <br> - Music Education | Chemistry | Chemistry with emphases in: <br> - Chemistry <br> - Biochemistry <br> - Chemical Physics |
| Theatre | Theatre | Environmental Science | Environmental Science with emphases in: |
| Humanities Division |  |  | - Biology |
| DEPARTMENTS | MAJORS | Exercise Science |  |
| Media Arts | Coordinated Studies in Humanities |  | Exercise Science with emphases in: <br> - Exercise Science <br> - Human Performance <br> - Health and Sports Medicine |
|  | Film and Video Production Integrated Media |  |  |
|  | Journalism <br> Media Arts | Mathematics and Computer Science | Computer Science |
| English |  |  | Mathematics |
|  | Creative Writing <br> Literature | Physics | Physics |
| World Languages \& Literatures | French Studies <br> German Studies <br> Japanese <br> Spanish <br> Modern Languages: <br> - Chinese, French, <br> - German, Japanese, <br> - Spanish | Social Sciences Division |  |
|  |  | DEPARTMENTS | MAJORS |
|  |  |  | International Studies |
|  |  | Business \& Economics | Business Administration with optional concentration in: <br> - Accounting/Finance Economics |
| Philosophy | Philosophy with emphases in: <br> - Philosophy <br> - Bioethics | History | History |
|  |  | Politics <br> \& Government | Politics and Government |
| Natural Sciences Division |  | Psychology | Psychology |
| DEPARTMENTS | MAJORS | Sociology \& Anthropology | Anthropology \& Sociology Sociology Social Work |
|  | Applied Science Bioinformatics |  |  |

## APPLIED SCIENCE

The Applied Science program leads to a wellrounded 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./M.S. (particularly in engineering) or those transfering into programs in the health sciences. Students interested in teaching science via the integrated science norm or those interested in cross-disciplinary areas such as environmental science may choose this program.

In most cases, cooperative 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; 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 and/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 which uses innovative application of scientific principles and technology.
The project will culminate in a written paper and oral presentation.

## DEPARTMENT OF ART

Patricia Cheyne, Chair, Associate Professor of Art

Terry O'Day, Associate Professor of Art
Jim Flory, Instructor, Photography
Jan Shield, Professor of Art
Ann Wetherell, Assistant Professor*
Steve O'Day, Instructor, Computer Graphics*
*indicates part-time

## ART

In today's world the well-rounded liberallyeducated individual is becoming increasingly in demand. The truly educated person is one with 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 plant 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 can 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 subject matter and professional requirements listed under the Division 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 functionally 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 between the arts and other academic disciplines and the world;
- 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 ART

In addition to meeting the University core requirements, the major in Art must complete the courses listed below with a 3.0 average, with no grade below a "C-".

## Requirements

| Art 110 | Basic Design ..................... 3 |
| :---: | :---: |
| Art 210 | Drawing |
| Art 270\&27 | History of Western Art I, II* .. 6 |
| Art 270-280 | Art History (one course) ... 3 |
| Art 485 | Indl Study / Seminar ......... 4 |
| Art 495 | Senior Show |
| * Survey of <br> - present d | Nestern Art from prehistoric |

Additional courses in Art, including a concentration of upper-division courses in two-dimensional and/ or threedimensional creative work, Independent Studies, as approved by the student's advisor .20

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


## MINOR IN 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

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

## COURSE DESCRIPTIONS

## Art 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 the media previously discussed 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.

## Art $110 \quad$ 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 mediums. The course is open to all students. 3 hours.

## Art 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.

## Art 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.

## Art 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.

## Art 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.

## Art 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.

## Art $220 \quad$ 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.

## Art $225 \quad$ 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.

## Art 226 Photography I

A thorough nuts and bolts course to teach students basic camera handling operations as well as introductory photography concepts. The "great themes" of photography are introduced to provide a historical perspective. This course is intended for Art majors and non-majors. A 35 mm SLR camera is a requirement for the course. 3 hours.

## Art 227 Photography Field Class I: Vancouver, BC

Practical application of principles of photography in various locations in and around Vancouver, B.C. Outdoor photography in daytime and night, followed by seminar-style critiques of each day's work by students. Students must have a 35 mm SLR camera, and will develop a portfolio of work. Additional course cost that includes lodging, admission fees, and some meals. Limited to 15 students. 3 credits. Offered summers.

## Art 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 Art 330. 3 hours.

## Art 233

## Printmaking I: Collagraphs and Non-Toxic Intaglio Printmaking

This class is designed to introduce the 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 nontoxic methods. The history of printmaking and tradition of multiples will also be discussed. Offered concurrently with Art 333.

## Art 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 in, and for use in a wide variety of artistic, commercial and occupational areas. 3 hours.

## Art 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 media. 3 hours.

Art 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.

## Art 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. 3 hours. Offered fall semester.

## Art 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. Offered Winter III.

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## Art 260 <br> Jewelry/ Metals <br> 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 stonesetting techniques. Historical overview of the meaning and use of jeweled and metal objects and their relationship to various cultures. 3 hours. Offered fall semester.

## Art 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. Offered spring semester.

## Art 270 Western Art I: Paleolithic through Baroque

This class will teach the student how art was created and viewed in the time periods from prehistory to the later part of the eighteenth century. The student will learn about how art functioned in relationship to both society and religion. The artistic and historical significance of this artwork will be a major focus. The course includes both art and architecture and explores social, political, and religious contexts. 3 hours.

## Art 271 Western Art II:

## Neoclassicism to present day

This class will examine art and architecture from the early $19^{\text {th }}$ century to the present day. The focus of this course will be the major movements and artists of this time. There will also be discussions about the technical, cultural, religious, and intellectual influences of art in the 19th to $21^{\text {st }}$ century. 3 hours.

## Art 272 Contemporary Art

This course will be an in-depth study of the development and diversity of art in the $20^{\text {th }}$ and $21^{\text {st }}$ century. The social, political, and technological context of art will be a major focus. Such topics as pop culture, feminism, multiculturalism, and postmodernist theory as they influence art creation will be investigated. 3 hours.

## Art 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.

## Art 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.

## Art 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 crosscultural core requirement. 3 hours.

## Art 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 cannon. No prerequisites - Feminist Theory class desirable. Meets Feminist study minor requirement. 3 hours.

## Art 300 <br> 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.

## Art 310 Drawing II: Advanced Drawing

An advanced drawing class that challenges students to expand on the skills learned in Drawing I. Prerequisite: Art 110, Art 210 or consent of instructor. 3 hours.

## Art 317: Computer Graphics II: Advanced Image Design

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

## Art 318 Computer Graphics II: Advanced Illustration

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

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

## Art 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: Art 110, 210, or 225, or consent of the instructor. 3 hours.

## Art 326 Photography II

This course is intended for those students who have completed Photography I. The major emphasis is to give students a solid foundation for black and white photography. Film processing, printing, and darkroom use are a major part of the course. The course takes an artistic approach and is intended for Art majors and/or non- majors. Historical aspects of American photographers working in black and white are introduced. Prerequisite: Art 226. Offered Yearly. 3 hours.

## Art 327 Photography Field Class II:

 Vancouver, BCPractical application of principles of photography in various locations in and around Vancouver, B.C. Outdoor photography in daytime and night, followed by seminar-style critiques of each day's work by students. Students must have a 35 mm SLR camera, and will develop a portfolio of work. Additional course cost that includes lodging, admission fees, and some meals. Limited to 15 students. 3 credits. Offered summers.

## Art 330 Printmaking II: Advanced Relief and Silk-screen

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

## Art 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 233. Prerequisite: 233. 3 hours.

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

## Art 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 Art 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 .

## Art 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: Art 1103 hours.

## Art 340 Ceramics 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: Art 240 or consent of instructor. 3 hours. Offered spring semester.

## Art $350 \quad$ Stained Glass II

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

## Art 356 Color Photography

A comprehensive advanced course covering all aspects of color photography. From the technical aspects of film emulsions, exposure to the artistic potential of color, composition, light, and subject matter. Color transparency printing will be covered in the lab. Students will be encouraged to investigate their own emotional response to color. Prerequisite: Art 226, and 326. 3 hours.

Art 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. Offered fall semester.

## Art 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. 3 hours. Offered spring semester.

## Art 426 Photography III

This upper-level course deals with several advanced areas of photography. Students will work with medium and large format cameras, studio lighting techniques for portraiture and still-life, and use Polaroid films in a variety of photography related activities. Prerequisite: Art 226 and Art 326. 3 hours.

## Art 485 Individualized Study/ 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. Prerequisite: Junior or Senior standing, art major or minor, or instructor consent. Prerequisite: Art 110 and Instructor's Consent. 2-7 credits.

## Art 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 to document that show will also 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: Art 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 student's academic pursuits as co-curricular activities and enrich their overall experience at Pacific University.

Pacific offers 19 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 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 newly remodeled and spacious athletic complex which 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 sports medicine/training room is equipped with whirlpools, electric stimulation unit, ultra sound, hydrocultator, Cybex and other state of the art equipment.

The 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., Interim Athletic Director

Joe Boyd, B.S., M.A., Athletic Facility Supervisor
Jeff Grundon, B.S., Assistant Athletic Director

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

Vicki McGee, B.A., Athletic Secretary
Linda McIntosh, M.S., ATC-R, Head Athletic Trainer

Jean Rix, M.Ed., Assistant to the Athletic Director

Richard Rutt, Ph.D., Athletic Trainer
Lisa Sardinia, Ph.D, J.D., Faculty
Athletic Representative
Gary Saxton,M.S., ATC-R, Assistant Athletic Trainer

Judy Sherman, M.Ed., Special Assistant to the Athletic Director

George Spaulding, B.A., Assistant Athletic Facility Supervisor

Blake Timm, B.A., Sports
Information Director

## INTERCOLLEGIATE PROGRAM

Greg Bradley, Baseball Coach
Jeff Thompson, Women's Basketball Coach
Ken Schumann, 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

Jim Brazeau, Men's and Women's Soccer Coach
Tim Hill, Softball Coach
Nathan Templeman, Men's and Women's Swimming Coach
Gage Riddoch, Men's and Women's
Tennis Coach
Chris Stanley, Volleyball Coach
Scott Miller, Men's and Women's Wrestling Coach

## CLUB SPORTS

Dr. Mike Steele, 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 in the spring. Additional activities will be announced on a yearly basis.

## ACTIVITY COURSES

## Hper 150 Activity Courses

A number of aerobic and anaerobic activities are included under this heading and are announced each term in the class schedule. (e.g. Weight Training, Aerobics, Yoga, Tai Chi, Tai Kwon Do, Walking, Handball) Graded P/NP. 1 hour. May be repeated*. Staff.
*Only four activity courses may count toward the 124 credits required for graduation but more may be taken.

## BIOINFORMATICS

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

Douglas J. Ryan, Professor, Computer Science

Lisa M. Sardinia, Associate Professor, Biology Jon Schnorr, Assistant 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 struc-ture-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 $\qquad$ Evolution
Chem 220 General Chemistry I........... 4
Chem 230 General Chemistry II ......... 4
Organic Chemistry ................................ 4-8
Chem 240/241Survey 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
$\begin{array}{ll}\text { Math } 207 & \text { General Elementary } \\ & \text { Statistics .............................. } 3\end{array}$
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

 BioinformaticsAn 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 Alkaslassy, Assistant Professor
Phillip D. Creighton, Professor
Pamela T. Lopez, Professor
Lori Rynd, Professor
Lisa M. Sardinia, Associate Professor and Biology Representative
Jon Schnorr, Assistant Professor
Robert E. Stockhouse II, Distinguished University 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. All students will have independently designed research experiences in upper division classes designated by the symbol (R).

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 ability to design and conduct biological research

The Biology Department offers three options for a Biology major. While a student may take courses in any area of biology, students may only choose 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 can not receive a degree in both Biology and 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 | One upper division course from Group I $\qquad$ 4 | Biol 305 | Ecology ............................. 4 |
| :---: | :---: | :---: | :---: |
|  |  | Biol 444 | Evolution .......................... 3 |
| Biol | One upper division course from Group II ...................... 4 | Biol | One upper division course from Group I $\qquad$ 4 |
| Biol | One upper division course from Group III $\qquad$ 4 | Biol | Two upper division courses from Group II $\qquad$ |
| 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 | 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 wih an approved project or Chem 380 may be used toward elective hours. $\qquad$ 3-4 |
|  | hours. $\qquad$ 9-12 | Chem 220 | General Chemistry I.......... 4 |
| Chem 220 | General Chemistry I ........... 4 | Chem 230 | General Chemistry II ......... 4 |
| Chem 230 | General Chemistry II ......... 4 | Chem 240/241 (Or Chem 310/311 <br> \& 320/321) $\qquad$ 4-8 |  |
| Chem 240/241 (Or Chem 310/311 <br> \& 320/321) $\qquad$ 4-8 |  | CS 130 | Introduction to <br> Software Tools $\qquad$ |
| CS 130 | Introduction to <br> Software Tools $\qquad$ | One of the following 2-course clusters: 7-8 |  |
| One of the following 2-course clusters: 7-8 |  | CS 150 | Introduction to Computer Science I |
| CS 150 | Introduction to Computer Science I | CS 250 | Introduction to Computer Science II |
| CS 250 | Introduction to Computer Science II |  | OR |
|  | OR | Math 226 | Calculus I |
| Math 226 | Calculus I | Math 301 | Mathematical Modeling |
| Math 301 | Mathematical Modeling |  | OR |
|  |  | Phy 202 | Introduction to Physics I |
| Phy 202 | Introduction to Physics I | Phy 204 | Introduction to Physics II |
| Phy 204 | Introduction to Physics II |  | OR |
|  |  | Phy 232 | General Physics I |
| Phy 232 | General Physics I | Phy 242 | General Physics II |
| Phy 242 | General Physics II |  | 53-59 |
|  | $\overline{52-60}$ | It is strongly recommended that students take 3 courses with extensive field experiences (see designations within Groups). |  |
|  | MAJOR IN BIOLOGY WITH AN |  |  |
| EMPHASIS IN ECOLOGY AND EVOLUTION |  | MAJOR IN BIOLOGY WITH AN |  |
| Requirements |  | EMPHASIS IN MOLECULAR AND |  |
| Biol 202 | General Biology I.............. 4 | CELLULAR BIOLOGY |  |
| Biol 204 | General Biology II .............. 4 | Requirements |  |
| Biol 490 | Senior Capstone <br> Experience $\qquad$ | Biol 202 | General Biology I............... 4 |
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| Biol 204 | General Biology II ............. 4 |
| :---: | :---: |
| Biol 490 | Senior Capstone |
|  | Experience ........................ 2 |
| Biol | One upper division course from Group I $\qquad$ |
| Biol | Three additional courses selected from the following courses: $\qquad$ 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 |
| Biol | One upper division course from Group III $\qquad$ |
| 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 <br> Software Tools $\qquad$ |
| 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 $(R)$ include an independent research experience.

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

Group I: Cell/Molecular/Genetics
Biol 308 Microbiology (R)

Biol $320 \quad$ Cell Biology (R)
Biol 330 Genetics
Biol 400 Molecular Biology
Group II: Structure/Function/Systematics
Biol 316 General Botany
Biol 350 Principles of Development (R)
Biol 410 Invertebrate Zoology (F)
Biol $420 \quad$ Vertebrate Zoology (F)
Biol 430 Plant Systematics (R)(F)
Biol 470 Animal Physiology

Group III: Ecology/Evolution/Behavior
Biol 305 General Ecology (R)(F)
Biol 340 Animal Behavior (R)(F)
Biol $345 \quad$ Marine Biology (R)(F)
Biol $450 \quad$ Tropical Rainforest Biology (R)(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 ( R ) include an independent research experience. 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 115 Microbiology for Nonscience Majors

An introductory biology course to meet the Natural Science core requirement. This course stresses the history of microbiology and the diversity within the microbial world. It includes some aspects of medical, ecological and industrial microbiology. (Does not count toward a Biology major or minor.) 3 hours.

## Biol 145 Marine Biology for Nonscience Majors

An introduction to organisms and processes in the marine environment. Organismal adapta-
tions 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.

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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, applicationoriented 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 (R) (F)

An introduction to the basic principles and fundamentals influencing interactions between plants and animals and their environment. Includes laboratory and field experiences. Includes a required three day field trip. Additional fee required. Prerequisite: Biol 204 (with a grade of " C -" or better). 4 hours.

## Biol 308 Microbiology (R)

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 General Botany (R)

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

## Biol $320 \quad$ Cell Biology (R)

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 (R) (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 $345 \quad$ Marine Biology (R) (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 $350 \quad$ Principles of Development (R)

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.
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## 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 organisms 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 $420 \quad$ Vertebrate Zoology (F)

A study of vertebrate organisms, including their systematics, life histories, morphological and physiological adaptations, and behavior. Includes laboratory and field experiences with a three day required field trip. Additional fee required. Prerequisite: Biol 204 (with a grade of "C-" or better). 4 hours.

## Biol $430 \quad$ Plant Systematics (R) (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 $450 \quad$ Tropical Rainforest Biology (R) (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 (R)

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. Alternate years. 4 hours.

## Biol 480 Advanced Methods in Cell Biology (R)

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

 Designed to allow students to expand on research projects from upper-division biology courses by more thoroughly examining the primary literature, reanalyzing data, writing and presenting a lecture on their research topic and presenting in a public forum. Research projects conducted outside of the Biology Department must be approved for use as a capstone project. Prerequisite: Senior standing and an approved data set. 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.

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# BUSINESS AND ECONOMICS 

Michelle Cowing, Chair, Associate Professor of Business Administration

Jamie R. Haag, Assistant Professor of Economics
Charles O'Connor, Professor of Accounting/Finance

Philip J. Ruder, Associate Professor of Economics
John Suroviak, Associate Professor of Accounting/Finance

A major within the Department of Business and Economics prepares students to enter a widerange 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 and a major in economics. Students majoring in business have the option of taking a concentration in accounting/finance.

Students majoring in business and economics plan core and elective courses in consultation with their faculty advisor 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.

## GOALS FOR BUSINESS AND ECONOMICS 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.


## 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 /finance. Each major in Business Administration must complete at least 40 hours (of which 18 hours of upper level courses must be taken at Pacific) in departmental courses and 6 hours in statistics and computer science. A minimum 2.0 grade point average is required in all business and economics courses; only grades "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 204, Math 207, and CS 120 prior to taking any of the upper division major requirements. The department chair must approve exceptions to this rule. 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

$\left.\begin{array}{ll}\text { Econ 101 } & \begin{array}{l}\text { Principles of } \\ \text { Macroeconomics ................. } 3\end{array} \\ \text { Econ 102 } & \begin{array}{l}\text { Principles of } \\ \text { Microeconomics ................. } 3\end{array} \\ \text { Econ 300+ }\end{array} \quad \begin{array}{l}\text { Upper-division economics } \\ \text { elective ......................... } 3\end{array}\right\}$

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 areas such as international business, marketing, production and services management, human resources management, or management of technology and information systems. Students with a specific interest in accounting or finance 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 students' 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/finance

Students majoring in business administration may elect to complete a concentration in accounting/finance. Such students should select departmental electives to include:
BA 313 Intermediate Accounting .. 4 BA 357 Income Tax Accounting ..... 3
Electives Two additional accounting / finance courses approved by the department .6

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## MINOR IN BUSINESS ADMINISTRATION

The Business and Economics Department offers a minor in Business Administration which requires completion of 20 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 <br> Macroeconomics ................ 3 |
| :--- | :--- |
| Econ 102 | Principles of <br> Microeconomics ................. 3 |
| BA 204 | Accounting Principles ....... 4 |
| BA 360 | Organizational Behavior ... 4 <br> BA 300+ |
| Business Administration <br> Electives ......................... 6 |  |
|  | -20 |

## MAJOR IN ECONOMICS

The major in economics requires completion of 34 hours in economics courses, 4 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 "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 $101 \quad$| Principles of |  |
| :--- | :--- |
|  | Macroeconomics ................. 3 |

Econ 102 Principles of
Microeconomics
$\qquad$ ..... 3
BA 204 Accounting Principles .....  4
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

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 that requires completion of 20 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 <br> Macroeconomics................... 3 |
| :--- | :--- |
| Econ 102 | Principles of <br>  <br> Microeconomics ................. 3 |
| Econ 327 | Microeconomic Theory ..... 4 |
| Econ 328 | Macroeconomic Theory .... 4 |
| Econ 300+ | Economics Electives ......... 9 |

## 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. 3hours.

## 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 125. 4 hours.

Econ 327 Microeconomic Theory
Principles of price and resource allocation theory in a decentralized economy; theory of consumer choice; price determination under different market situations; effects 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 economic analysis of international monetary and financial economics. International finance topics include the determinants of real and financial trade flows, supply and demand for foreign currency, and national balance of payment accounts. Emphasis will be on traditional approaches to exchange rate and balance of payments determination. 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.

## ACCOUNTING AND FINANCE

BA 204 Accounting Principles
Introduction to accounting concepts and application of these concepts; financial statement preparation; accounting systems and controls; accounting for assets and liabilities; partnerships and corporations; cash flow analysis and financial statement analysis; cost terminology, behavior and systems design; the planning and control process; using cost data in decision making. MS Excel is introduced and integrated into the course to solve accounting and finance problems. Prerequisite: Sophomore standing. 4 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 204. 4 hours.

## BA 313-314 Intermediate Accounting

Financial accounting statement interpretation, presentation, and disclosure including coverage offunctions 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 offinancial statements. Prerequisites: BA204. BA 313 is a prerequisite to BA 314. 4-3 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 204. 4 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. 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 334 Real Estate Principles

An introductory course in real estate. The following areas are emphasized: the real estate industry and the economy; real estate brokerage; real estate finance; real property appraising; title examination, title insurance and closing; landuse planning and zoning. Prerequisite: junior standing. 3 hours.

## BA 352 Investments

To gain an understanding of investing in marketable securities. To develop a vocabulary and knowledge of types of securities including common stocks, bonds and other types of investments. To understand and use fundamental and technical security analysis. To incorporate current financial events with reading materials and projects. Prerequisites: BA 204, 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 204, 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 313, BA 357, 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 204 and 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. The processes involved in initiating new ventures are discussed. The course focuses on the areas of marketing and financial management and the legal and governmental relations of the small
firm. A detailed treatment of the problems involved in managing specific fields of small business such as a retail store, a franchise, a service firm, and a production plant. Prerequisite: junior standing. 3 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 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: junior standing. 4 hours.
## Risk Management and

 Decision MakingDevelopment, 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: Econ 101 and 102, 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 organizationwide 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 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. 3 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

## BA $410 \quad$ Marketing Research

Application of research techniques and statistical analysis to the consumer market through case analyses and individual research project. Each student works with a local business to design research, administer survey, conduct appropriate statistical analysis, and present findings (with operational recommendations) to management. Prerequisites: Math 207, BA 309, senior standing. 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, Advertising and Promotions Management, Public Policy and Marketing, and Sports Marketing. Prerequisites: BA 309, junior standing. 3 hours.

## CHEMISTRY

James O. Currie, Jr., Distinguished University Professor

Joel W. Gohdes, Assistant Professor
Kevin E. Johnson, Associate Professor, Chair, and Thomas J. and Joyce Holce Professorship in Science

Jodi M. Paar, Assistant Professor
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 the molecular level structure and properties and the behavior of macroscopic matter. Majors should 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 suggests 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

## 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 4

Chem $430 \quad$ Advanced Inorganic
Chemistry
.3

## Chemistry Capstone

Chem 485 Seminar .......................... 1
Chem 490 Senior Project
OR
Chem 498-499 Thesis 2-4

Mathematics - One year of calculus
Math 226-227 Calculus I-II $\qquad$ .8
(Math 228 strongly recommended)
Physics - One year with laboratory
(Phys 232-242 recommended) $\qquad$ 8

46-48

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
Chem 498-499 Thesis 4

## At least one of the following emphases must be fulfilled:

## Chemistry

Biol 202 \& 204 General Biology I-II ....... 8
Two upper-division chemistry electives (with lab if available, except Chem 385)..6-8

60-64

## Chemical Physics

Chem 420-421 Quantum Chemistry and

$$
\text { Spectroscopy ................... } 4
$$

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 $\qquad$ 3-4

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,
$\qquad$

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.

## 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 340-341 Quantitative Analysis ... 4
Chem 385
Seminar $\qquad$ .. 1

Elective: Choose one of the following .....3-4
Chem 350-351 Instrumental Analysis
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

24-25
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.

## 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. 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. 3 hours. Alternate years. Spring 2005.

## Chem 241 Survey of Organic Chemistry Laboratory

Laboratory experience in the preparation and properties of organic molecules. Prerequisite: Chem 230. Co-requisite: Chem 240. 1 hour. Alternate years. Spring 2005.

## 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. 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 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 2005.

## 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 2005.

## 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 2006. (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 <br> 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 2006.

## 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 2006.

## 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 2004.

## Chem 440 Advanced Laboratory

An advanced laboratory for majors and pre-professional students who require more practical laboratory experience. Prerequisite: Chem 321 and Chem 341. 3 hours. Alternate years.

## 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 2005.

## 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 an chromatographic methods, and cell culture methods. Corequisite: Chem 480, 1 credit. Alternate years. Spring 2005.

## 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. 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. May be repeated once for credit, concent of faculty required. 1-2 hour.


## 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. Concent of faculty required. 2 hours each semester.

## DANCE

## 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 Academic Core requirements in Arts, and may be repeated for credit. Most are graded $P / N P$.

## Requirements:

Dance Technique (one from each area: ... 5
Danc 105, 121, 126, 205, 221)
Thea 110 Acting I ........................................ 3
Thea 152 Costume ..................................... 1
Thea 153 Lighting ...................................... 1
Thea 151, 154, 155, or 156 ......................... 1
Thea 225 Makeup ...................................... 1
Thea 330 Directing .................................... 3
Danc 400 Dance Composition \& Performance $\qquad$ .2

Electives: Three upper-division hours in a Dance related Project $\qquad$ .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 write, rehearse and produce plays in class. Attend and critique 4-5 plays during term. Not required for theatre majors. 3 hours. Offered in even numbered years.Thea 110 Acting I: Fundamentals Basic Method technique and vocabulary. Students who hope to act in plays encouraged
to take course Freshman or Sophomore years. (Advanced beginning acting students are encouraged to enroll in Thea 210) 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 hour. Graded P/NP. Offered each semester. May be taken 4 times. Must audition and be cast in a play to enroll.
The following are categories within the onehour practicum in theatre production. Most freshman or first-time students should sign up for the Thea 151 General Technical Theatre
Thea 151 Theatre Company (General technical theatre)
Thea 152 Theatre Company: Costume \& Makeup
Thea 153 Theatre Company: Lighting
Thea 154 Theatre Company: Organizational \& Management
Thea 155 Theatre Company: Publicity
Thea 156 Theatre Company: Running crew or board operators
It is recommended that students first enroll in Thea 151 for active participation as a production assistant or technician in a dramatic production. Experience may also be gained in a variety of specialized areas including: Costume, Lighting, Production Management, Publicity and Running Crew,(Thea 152-156) No single category may be repeated. 1 hour. (P/NP) Offered each semester.

Thea 210 Acting II: Intermediate
Intensive scene work and an introduction to classical and style acting, dialect and film acting technique based on fundamentals and vocabulary from Acting I. Advanced beginning actors with considerable prior experience and basic understanding of method acting may enroll with instructor's consent. Prerequisite: Thea 110. 3 hours. Offered in even numbered years.

## 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. Offered in odd-numbered years or by arrangement in connection with a specific production.

Thea 225 Makeup
The theoretical and practical application of makeup to the theatre and media. Students are expected to purchase their own makeup supplies. 1 hour. Offered spring semester.

## 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 airfare, tickets and lodging. (Approximately \$2,075. See schedule for current rate) Offered Winter III. 3 hours

## Thea 310 Acting III: Style

Introduction to style acting through research and scene work from classic drama: Greek play, Comedia del' Arte, Elizabethan (Shakespeare) 17th century French and Restoration, 19th century melodrama. 3 hours. Offered in even numbered years.

## Thea 325 Directing Performers for the Camera

An exploration of the relationship between directors and performers in television and film production. Rehearsal and production of short dramatic scenes utilizing video tape. Prerequisite: A basic working knowledge of Method Acting, television production experience, or consent of instructor. 3 hours. Offered in odd-numbered years.

## Thea 330 Directing

Lecture-laboratory course exploring the director's art: script analysis, production design, casting, rehearsal and production. Prerequisite: Thea 110 and 220 or consent of instructor. Limited to a small number of students committed to the demanding task of producing one-act plays during a regular academic term. 3 hours. Offered yearly or by arrangement in connection with a specific project.

## Thea 350 Theatre History

An exploration of theatre production from Greece to Broadway, including comparisons with film and TV drama. Attend and critique 4-5 plays during term. 3 hours. Offered in odd-numbered years.

## Thea 360 Modern Theatre

Development of theatre from 1875, to the present with special emphasis on the influential practitioners and styles of the period. Attend and critique 3-5 plays during the term. 3 hours. Offered in even-numbered years.

## Thea 495 Senior Thesis

Intensive practicum arranged with the Director of Theatre. 3-6 hours. Most often a directing assignment, but project may be in any of the following disciplines:

- Directing
- Playwriting
- Performance
- Choreography
- Design: Costume or Scenic
- Video or Film Drama


## 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 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 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.

## DISABILITY STUDIES

Co-Directors:
Tim Thompson, Humanities
Nancy Cicirello, Physical Therapy
John Medeiros, Physical Therapy

Associated Faculty:
Brad Bafaro, Exercise Science
David Boersema, Philosophy
Patricia Cheyne, Art
Ellen Hastay, Peace and Conflict Studies
Marc Marenco, Philosophy
Christine MacFarland, Education
Martha Rampton, History
Todd Schultz, Psychology
Byron Steiger, Sociology
Scott Tuomi, Music
Robert Van Dyk, Political Science
Disability Studies is an interdisciplinary minor exploring the social, cultural, and ethical dimensions of living with physical and mental disabilities. The courses in this minor focus less on the variations that exist in human behavior, appearance, and functioning, and more on the meaning cultures make of those variations-the cultural assumptions that inform those meanings, and the social, political, and psychological repercussions those meanings have on the community of people with disabilities, and on the entire culture.
Students majoring in the sciences will find Disability Studies to complement their preprofessional course work, in that the minor concentrates on the social and personal contexts of a population many students hope to serve. Students majoring in the humanities or the social sciences will find a new perspective from which to explore our culture's foundational ideas. Body and mind, freedom and agency, democracy and power, beauty and wholeness, normality and
difference-all these "abstractions" may become more concretized in courses devoted to analyzing their institutionalization and material effects.
By relying upon inter-disciplinary perspectives, the Disability Studies minor allows students to sustain their scholarship across fields, resulting in a more comprehensive understanding of the experience of disability.

## THE DISABILITY STUDIES MINOR

Required Courses:
One of the following two courses:
DS 200: Introduction to Disability
Studies ........................... 2
OR
Engw 202: Writing About
Disability $\qquad$ .4
(fulfills Core Writing Requirement)
One of the following two courses:
Art/Mus 205: Creativity and Disability
in Art and Music $\qquad$ 3
OR
Engl 221: Literature and Disability $\qquad$ .3
Both of the following two courses:

| Phil 307: | Ethics, Medicine, and |
| :--- | :--- |
|  | Health Care .................. 4 |

DS 400: Disability Studies, in Theory and Practice .

$$
11-13 \mathrm{hrs} .
$$

Elective Credit (11-13 hours, 6 of which must be in upper-division courses):
Art/Mus 205: Creativity and Disability

| Engl 221: | Literature and |
| :--- | :--- |
|  | Disability ....................... 3 |

Hist 305: History of Magic and Witchcraft $\qquad$ .3

Hper 315: Adaptive Physical Education $\qquad$ .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 <br> Education ...................... 2 <br> SpEd 305: |
| Exceptionalities ........... 2 <br> SpEd 340: | Technology in Special <br> Education ................... 2 |
|  |  |
|  | $22-24$ total hours |

## COURSE DESCRIPTIONS

## DS 200 Introduction to <br> 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 ariseliterary, aesthetic, social, and philosophicalwill 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 $140 \quad$ 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 $150 \quad$ 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.

## 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 5-10), 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 will complete the Education and Learning major. Those who plan to teach at the Middle School or High School level will 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. To obtain the Initial Oregon 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

$\begin{array}{ll}\text { Phil } 101 & \text { Knowledge and Reality ..... } 3 \\ \text { Psy } 150 & \text { Introduction to Psychology .. } 3\end{array}$

## Social Foundations <br> one of the following <br> $\qquad$ .. 3

Anth 101 Introduction to Anthropology
Soc 102 Social Problems
PolS 101 Power \& Community
Development
Psy 180 Lifespan Human Development
Cognition and Behavior
one of the following .3
Psy 225 Learning
Psy 214 Cognitive Science
Psy 314 Memory \& Mind
Psy 352 Physiological Psychology
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 $\qquad$
Educ 436 Technology across the Curriculum $\qquad$ 2

Educ 431 Integrated Methods I: General Methods $\qquad$ .2
Educ 408 Integrated Methods II: Reading and Language Arts in Early Childhood Education .4

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 Sample .. 2

Learning Communities: Reflection and Practice ...... 2
Educ 475
Student Teaching $\qquad$ .15

## MIDDLE SCHOOL AND HIGH SCHOOL LICENSURE

Students who plan to complete the requirements for the Middle School and High School authorizations should 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. 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 Initial Oregon 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, 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.
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.
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 nonU.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 $\qquad$ .2
Educ 361 Foundations of Human Development and Psychology $\qquad$3

Educ 436 Technology across the Curriculum .. 2
Educ 327 Teaching and Assessment in the Middle School $\qquad$ .3

## OR

Educ 326 Teaching and Assessment in the High School $\qquad$ . 3
Educ 314 Reading and Writing across the Curriculum $\qquad$ .. 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

## ADMISSION

Prior to taking 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, 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.

## Admission requirements include:

- 2.75 minimum GPA (cumulative and endorsement)
- Passing score on one of the following: California Basic Educational Skills Test (CBEST), PRAXIS Pre-Professional Skills Test (PPST), or PRAXIS Computer-Based Academic Skills Assessment (CBT)
- 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 " $\mathrm{C}-$ " 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 SchoolsPrepares 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 <br> 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: <br> 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 471 Global Issues in Education

Helps students to develop curricula which bring a global perspective to their teaching practice. Includes researching a topic of interest, reviewing a variety of resources, and investigating current issues in global education. 3 hours. P/NP.

## 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. $P / N P$.

Educ $490 \quad$ 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 or Dr. Wiener
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 will usually be assured 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 professors Dr. Hall or Dr. Wiener.

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 $\qquad$ .. 8
Phy $322 \quad$ Modern Physics with Health Applications ...... 4
Phy 332 Waves and Optics ......... 4
Phy $380 \quad$ Classical Mechanics in Dynamics. $\qquad$ .. 4
Phy 376 Engineering Mechanics: Statics .3
OR Phy 364 Electronics ................. 3/4

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53 \text { or } 54
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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.

## ELECTRICAL ENGINEERING COOPERATIVE PROGRAM

Contact Dr. Hall or Dr. Wiener
This is a five-year program involving four years at Pacific and one year at the Oregon Graduate Institute (OGI). The student will normally receive a baccalaureate degree in physics from Pacific at the end of the fourth year and a Master of Science degree in Electrical Engineering from OGI at the end of the fifth year. A few courses may be taken at OGi while the student is still enrolled at Pacific.
While at Pacific the student will complete all required courses for the physics major as well as the pre-engineering requirements listed above. Within the electives in the physics major program, it is recommended that the student complete Physics 384 (Thermodynamics) and Physics 364 (Electronics) as part of the pre-engineering requirements.

## Course Descriptions

## Sci $190 \quad$ 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

Michael R. Steele, Distinguished University
Professor and Chair
Pauline Beard, Associate Professor
Lorelle Browning, Professor
Brently Johnson, Instructor, Director of the Writing Center

Darlene Pagán, Assistant Professor
Kathlene Postma, Assistant Professor
Steve R. Smith, Assistant Professor, Assistant Dean, College of Arts and Sciences

Tim Thompson, Associate Professor
Doyle W. Walls, Associate Professor
The English Department offers the general student guidance in acquiring and developing the skills for 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 sponsored by the department. Literature majors and minors, as well as general students, are encouraged to take advantage of this opportunity to produce literature as well. (In addition to offering the community the work of resident writers, the department also presents readings and lectures by noted visiting poets and writers.) Our majors go on to graduate school; teach in high schools and colleges; and use their thinking and writing skills in television, publications, technical writing, insurance, administration, law, library science, special education, and social work. They also go on to give readings of their own.

## MAJOR IN CREATIVE WRITING

## Requirements

One course from: .................................. 3-4
Engw 201 Expository Writing (Some sections focus on a particular theme.)
Engw 301 Advanced Expository Writing

| Two courses from: .................................... 6 |  |
| :--- | :--- |
| Engw 206 | Introduction to Creative |
|  | Writing, Poetry |
| Engw 207 | Introduction to Creative |
|  | Writing, Mixed Genre <br> Engw 208 <br>  <br> Introduction to Creative <br> Writing, Fiction | .6

One course from: ...................................... 3
Engl 200 Introduction to Literature
Engl 220 Literature and Human Concerns (Topics Vary)
Engl 227 Introduction to World Literature
Engl 229 Introduction to American Literature
Engl 232 Introduction to British Literature
Engl 255 (Topics Vary)
$\qquad$ 8

| Engw 306 | Advanced Poetry Writing |
| :--- | :--- |
| Engw 308 | Advanced Fiction Writing |
| Engw 310 | Advanced Drama 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
Eng1 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)*

| Engw 497/498 Senior Seminar in |  |
| :---: | :---: |
| Engw 465 | Editing Pacific Review (Pass/ <br> No Pass) $\qquad$ |
|  | 38-43 |
| *Requires world language proficiency. |  |
| At least one course (3 hours) from the above requirements must be in American literature. |  |
| Recommended courses for Major in Creative Writing: |  |
| Art 218/318 | Computer Graphics .......... 3 |
| Art 235 | Illustration ........................ 3 |
| Engl 343 | Studies in Criticism and <br> Theory $\qquad$ |
| Hist. 300+ | An upper-division history course $\qquad$ |
| Phil 101 | Knowledge and Reality ..... 3 |
| or Phil 110 | Religion and the Quest for <br> Meaning |
| OR Phil 214 Philosophy of Art ............... 3 <br> WorL 101-202 World Languages Study .. 3-12 |  |
|  |  |
|  | 18-27 |

Admission Procedures for the Creative Writing Major and Minor: Students desiring to pursue a Creative Writing Major or Minor may apply for admission after completing the following prerequisite coursework: English 201 and two 200-level introductory creative writing workshops. To apply, students must submit a creative manuscript to the faculty; the manuscript can be fiction, poetry, personal essay, and/ or drama, and should be no more than ten pages in length. It should be accompanied by a 250 -word statement of purpose. 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 Postma or Walls.

## MAJOR IN LITERATURE

## Requirements

One course from 3-4
Engw 201 Expository Writing (Some sections focus on a particular theme.)
Engw 301 Advanced Expository Writing
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

Two courses from: 6-7

Engl 200 Introduction to Literature
Engl 220 Literature and Human Concerns (Topics Vary)
Engl 227 Introduction to World Literature
Eng1 229 Introduction to American Literature
Engl 232 Introduction to British Literature
Engl 255 (Topics Vary)
Engl 323 Shakespeare

| Two courses from: ................................. 6-8 |  |
| :--- | :--- |
| Engl 416 | British Literature, <br> Beowulf to 1660 |
| Engl 418 | British Literature: 1660-1790 <br> Engl 421 |
| The Romantic Period |  |
| Engl 422 | The Victorian Period <br> Engl 423 <br> Nineteenth Century <br> American Literature |
| Engl 425 | Twentieth Century Literature <br> Engl 430 |
| Major Writers (specific <br> authors vary) <br> (topics vary) |  |
| Engl 455 |  |

Two courses from: 6-8

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



| 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 |

## COURSE DESCRIPTIONS

## Writing (Engw)

Only Engw 201 and Engw 202 satisfy the 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 Expository Writing

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. 4 hours.

## Engw 206 Introduction to Creative Writing, Poetry

An introduction to writing poetry. Prerequisite: College writing skills core requirement met. 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: College writing skills core requirement met. 3 hours.

## Engw 208 Introduction to Creative Writing, Fiction

An introduction to writing fiction. Prerequisite: College writing skills core requirement met. 3 hours.

## Engw 301 Advanced Expository Writing

An upper-level course providing an overview of the history and theory of rhetoric from Aristotle to James Berlin, and of selected classics of the essay genre from Seneca to Annie Dillard. Engw 301 also gives students the opportunity to articulate their own mature ideas and to refine their higher-level writing skills. May be repeated once for credit with permission of the department. Prerequisite: Engzw 201 and consent of instructor. 3 or 4 hours. (G)

Note: 300-level advanced creative writing workshops require demonstrated experience and ability in creative writing and are designed for Creative Writing majors and minors. Thus, the following prerequisites apply to all advanced creative writing workshops: Satisfactory completion of two lower-division creative writing courses and faculty consent. We also recommend that students be of Junior standing when they enroll in these courses. Other students interested in taking these courses should consult the individual instructor but cannot be guaranteed admission to the course.

## Engw 305 Research Methods in the Humanities

This required class for English Literature Majors will concentrate not only on the up-todate 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. 2 hours.

Engw 306 Advanced Poetry Writing A workshop for writing and discussing poetry. May be repeated. Prerequisite: College writing skills core requirement met, two courses from Engw 206, 207, or 208, and faculty approval. 4 hours. (G)

## Engw 308 Advanced Fiction Writing

 A workshop for writing and discussing fiction. May be repeated. Prerequisite: College writing skills core requirement met, two courses from Engw 206, 207, or 208, and faculty approval. 4 hours. (G)Engw 310 Advanced Drama Writing A workshop for writing and discussing drama. May be repeated. Prerequisite: College writing skills core requirement met, two courses from Engw 206, 207, or 208, and faculty approval. 4 hours. (G)

## 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 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 310. 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 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 crosscultural requirement. 3 hours.

## Engl 229 Introduction to

 American LiteratureAn introduction to selected American authors and themes. 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 lowerdivision 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)

## Eng1 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)
## Eng1 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.

## Eng1 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 Irving, Poe, Hawthorne, Emerson, Thoreau, Dickinson, Whitman, Gilman and the literature of slavery and abolition. Prerequisite: two literature courses and Junior standing. 3 or 4 hours. (G)

Eng1 $425 \quad$| 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 critique 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
John W. Hayes, Professor of Environmental Science

Edmond Alkaslassy, Assistant Professor of Biology

Pamela Lopez, Professor of Biology
Jodi Paar, Assistant Professor of Chemistry
Philip J. Ruder, Associate Professor of Economics

Lisa Sardinia, Associate Professor of Biology
Robert E. Stockhouse II, Professor
of Biology
Robert Van Dyk, Associate 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. 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 Tualitin 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.

Visit the Environmental Studies web site at http:/ /www.envsci.pacificu.edu/ 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 $\qquad$
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 .4
Env 310 Environmental Chemistry
Biol 308 Microbiology
Biol $320 \quad$ Cell Biology
Biol 330 Genetics
Biol 400 Molecular Biology
Biol 470 Animal Physiology
Chem 380 Biochemistry

| Group II | .. 4 | Chemistry Emphasis |  |
| :---: | :---: | :---: | :---: |
| Env 210 | Tropical Environmental | Requirements |  |
| Biol 316 | General Botany | Env 100 | Environmental Studies Seminar $\qquad$ |
| Biol 340 | Animal Behavior | Env 200 | Introduction to <br> Environmental Science $\qquad$ 4 |
| Biol 345 | Marine Biology |  |  |
| Biol 420 | Vertebrate Zoology | Env 310 | Environmental Chemistry .. 4 |
| Biol 450 | Tropical Rainforest Biology | Env 490 | Environmental Science Capstone ............................. 2 |
| Biol 410 | Invertebrate Zoology |  |  |
| Biol 430 | Plant Systematics $\quad \overline{ } \begin{aligned} & \text { 60-64 }\end{aligned}$ | Env 224 | Environmental P |
|  |  | Econ 102 | Principles of <br> Microeconomics $\qquad$ |
|  |  | Env 333 | Environmental Econ |
| 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, Env 301 Environmental Toxicology, and at least 3 upper division courses. Students cannot receive a degree in both Environmental Science (biology emphasis) and Biology. |  | 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 |  |
| It is strongly recommended that students include the following courses as part of their curriculum in order to have a solid environmental biology foundation: |  | OR |  |
|  |  | Physics 232-242 ..................................... 8 |  |
|  |  | Math 226 | Calculus I ......... |
|  |  | Biol 202-204 | General Biology I |
| - Genetics |  | 64 |  |
| - Evolution |  | 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. |  |
| - Plant Systematics or Botany- Vertebrate Zoology |  |  |  |  |
|  |  |  |  |  |  |
| - Microbiology, Cell Biology, Molecular Biology, Animal Physiology, or Biochemistry |  |  |  |  |
|  |  | Recommended: |  |
| Recommended: |  | Environmental Toxicology |  |
| Introductory Physics or General Physics |  | Thermodynamics and Kinetics |  |
| An introductory statistics course |  | Advanced Inorganic Chemistry |  |
| Calculus I and II |  | Biochemistry |  |
|  |  | Calculus II |  |
|  |  | Molecular Biology |  |

## 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

$$
\text { Seminar ................................ } 1
$$

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/ <br> 221, Chem 230/231, Bio 202; <br> 12 credits) |
| Env 210 | Tropical Environmental <br> Biology $\qquad$ |
| Phy 322 | Modern Physics with Health Applications $\qquad$ 4 |
|  | (Prerequisites: Phy 202 or 232, Phy 204 or 242, Math 226 \& 227; 16 credits) |

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## MINOR IN ENVIRONMENTAL POLICY

The rapid development of the 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 <br> Seminar .......................... 1 |
| :--- | :--- |
| Env 200 | Introduction to <br> Environmental Science ...... 4 |
| Biol 202 | General Biology I............... 4 |
| Econ 102 | Principles of <br> Microeconomics ................. 3 |
| Env 333 Environmental Economics ... 3 |  |

## ENVIRONMETAL SCIENCE AND ENGINEERING COOPERATIVE PROGRAM

## Contact Deke Gundersen

The Environmental Science departments at Pacific University and the Oregon Health \& Science University (OHSU) have created a joint 4-1 program requiring five years of study for the well-prepared student, 4 years at Pacific University and 1 year at (OHSU).
Degrees awarded are a baccalaureate degree in Environmental Science from Pacific University, and a Master of Science degree in Environmental Science and Engineering from the Oregon Health \& Science University. At OHSU, students may pursue M.S. tracks (areas of emphasis) in environmental science and engineering (ESE), ecosystem management and restoration (EMR), or environmental information technology (EIT). Upon completion of the 5 -year program, the two degrees will be awarded concurrently.

Highly motivated and well-prepared students apply for the program during their sophomore or junior year. Pacific students majoring in environmental science, chemistry, biology, mathematics, computer science, and physics are eligible to apply. Students must have at least a 3.0 cumulative gradepoint average to be considered for this program. Students must maintain a 3.0 cumulative grade point average (GPA) while in this program. If a student falls below a 3.0 cumulative GPA, he or she will have the following semester to improve their GPA. Students in this situation must meet with the appropriate advisors from Pacific and OHSU to discuss what will be required in order to maintain their standing in the Environmental Science and Engineering, Cooperative Program. Students will be expected to meet the curriculum requirements outlined below.
Students enrolled in the 4-1 program must complete a minimum of 154 semester credits, comprised of approximately 117 semester credits for the B.A. at Pacific and 37 semester credits ( 56 quarter credits) for the M.S. at OHSU. Students in this program will be required to enroll in Env 498, (Thesis Proposal and Design), during the fall semester of their fourth year at Pacific. Students will design and present a research proposal to Pacific and OHSU faculty. Students will work in research laboratories at OHSU during their fourth year of study, for a total of 8 research credits (quarter credits). After completing this research, qualified students may be invited to pursue a thesis-based M.S. program that typically includes a tuition waiver and stipend for subsequent study at OHSU. If a student has good academic standing but is not selected to pursue a thesis-based M.S. program, the student may pursue a nonthesis based M.S. program at OHSU.

At OHSU, a student's curriculum must satisfy the department's distribution requirements. To achieve the necessary breadth in training, students in all programs take courses that cover a range of scientific disciplines and environmental media. Five courses must be taken that satisfy the following distribution requirements. No course can satisfy more than one requirement. At least one course must be taken from three of the following four discipline groups: (1) Applied Mathematics, (2) Chemistry, (3) Fluid Dynamics, and (4) Biology. And, at least one course must be taken from each of the following environmental media groups: (1) Surface Waters, and (2) Ground Water.

Requirements: Students planning on a cooperative program must complete the Pacific University courses below.

In addition, students must complete all other Pacific University requirements for a B.S. Degree with a major in Environmental Science with an emphasis in either Environmental Biology or Environmental Chemistry.

## Environmental Science

Env 100 Environmental Studies Seminar ............................... 1
Env 200 Introduction to Environmental Science ...... 4
Env 301 Environmental Toxicology .. 4
Env 490 Environmental Science Capstone $\qquad$ .2
Env 224 Environmental Politics ...... 3
Econ 102 Microeconomics .................. 3
Env 333 Environmental Economics .. 3
$\begin{aligned} \text { Env } 498 & \begin{array}{l}\text { Thesis Proposal } \\ \text { and Design.......................... } 2\end{array}\end{aligned}$
Biology
Biol 202
General Biology I................ 4
Biol 204 General Biology II .............. 4
Biol 305 Ecology ................................ 4
Biol 470 Animal Physiology ............ 4
Chemistry
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
Chem 340-341 Quantitative Analysis ..... 4
Physics
Physics 232 General Workshop Physic I ..... 4
Physics 242 General Workshop Physics II ..... 4
Mathematics
Math 226 Calculus I ..... 4
Math 227 Calculus II ..... 4
Math 311 Differential Equations ..... 3
Choose 2 courses from the following group
Laboratory Studies
Env 310 Environmental Chemistry .. 4
Chem 380 Biochemistry I ..... 3
Chem 481 Biochemistry Laboratory .. 1
Chem 350-351 Instrumental Analysis ..... 4
Biol 308 Microbiology ..... 4
Biol 400 Molecular Biology ..... 4
Biol 330 Genetics ..... 4
Choose 1 course from the following group
Field Studies
Env 210 Tropical Environmental Biology ..... 4
Biol 450 Tropical Rainforest Biology .. 4
Biol 345 Marine Biology ..... 4
Biol 420 Vertebrate Biology ..... 4
Biol 410 Invertebrate Biology ..... 4
Biol 316 General Botany ..... 4
Biol 430 Plant Systematics ..... 489
The student must also complete at least 56 quarter hours of graduate study in Environmental Science and Engineering at OHSU.

## 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 200 Introduction to <br> 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 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, Env 200, 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 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. Throughout 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

Linda McIntosh, Instructor \& Head Athletic Trainer*

Scott Miller, Instructor*
Jean Rix, Instructor*
Richard Rutt, Associate Professor of Physical Therapy*

Gary Saxton, Instructor $\mathcal{E}$ Athletic Trainer*
Ken Schumann, Instructor*
*adjunct faculty

The mission of the Exercise Science program is to contribute to the generation, dissemination, integration, and application of knowledge specific 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 human movement by integrating multiple scientific and humanistic perspectives so as to be successful in a variety of arenas (employment in the fitness / recreation industry, and/or graduate study in professional or academic disciplines). Toward these ends, the Department of Exercise Science offers a major in Exercise Science, emphasis areas in Human Performance or Health and Sports Medicine, and minors in Coaching or Exercise Science.

## EXERCISE SCIENCE MAJOR

A student completing a major in Exercise Science shall demonstrate the ability to:

- Understand and apply fundamental principles from the various sub-disciplines in Exercise Science to a variety of contexts (e.g., health/fitness, rehabilitation, prevention, education);
- Use qualitative and quantitative reasoning and evidence, synthesizing information from a variety of origins, to methodically and systematically solve problems in the human movement domain;
- Communicate effectively, both orally and in writing, in accordance with disciplinary standards;
- Design, conduct, interpret, and evaluate human movement research.


## Requirements:

| Biol 202 | General Biology I and Lab .. 4 |
| :---: | :---: |
| Biol 204 | General Biology II and Lab .. 4 |
| Biol 224 | Human Anatomy and Lab .. 4 |
| Biol 240 | Human Physiology and Lab $\qquad$ .4 |
| Chem 220 | General Chemistry I and Lab $\qquad$ .4 |
| Chem 230 | General Chemistry II and Lab $\qquad$ .4 |
| Phy 202 | Intro to Physics I and Lab $\qquad$ 4 |
| Spmd 204 | Care \& Prevention of Athletic Injuries $\qquad$ |
| Exsc 230 | Nutrition ............................ 3 (may substitute Exsc 360) |
| Exsc 380 | Biomechanics and Lab .. 4 |
| Exsc 414 | Perceptual Motor Learning .. 3 |
| Exsc 475 | Internship .................... 3 |
| Exsc 480 | Physiology of Exercise and Lab $\qquad$ |

Choose two of the following ................... 8
Hper 330 Adult Fitness
Exsc 430 Adv Biomechanics and Lab
Exsc 400 Adv Gross Anatomy and Lab
Exsc $490 \quad$ Adv Phys of Exercise and Lab

## EXERCISE SCIENCE WITH AN EMPHASIS IN HUMAN PERFORMANCE

A student completing the Human Performance emphasis in Exercise Science shall also be able to:

- Plan a scope and sequence of instruction and evaluation, consistent with state and national standards, for grades PK-12 that creates a safe environment to effectively enhance the acquisition of a wide variety of motor skills for individuals according to their capabilities and promote life-long participation in healthy physical activity.


## Requirements:

Biol 202 General Biology I and Lab ... 4
Biol 224 Human Anatomy and Lab .. 4
Biol 240 Human Physiology and Lab .. 4
Exsc 230 Nutrition ............................. 3 (may substitute Exsc 360)
Exsc 380 Biomechanics and Lab ....... 4
Exsc 414 Perceptual Motor Learning .. 3
Spmd 204 Care \& Prevention of Athletic Injuries 2

Hper 105 First Aid.
$\qquad$ ..... 1

Hper 170 Techniques of Recreational Games, Personal Defense,
Gymnastics, Fitness, Pickleball, Handball, Racquetball $\qquad$3

Hper 270 Techniques of Aquatics, Rhythms, Badminton, Tennis, Track $\qquad$ 3
Hper 305 Measurement and Evaluation in PE and Exercise Science $\qquad$ .1
Hper 315 Adaptive Physical Education $\qquad$ .3
Hper 316 Teaching Health and Physical Education in the Elementary School $\qquad$

Hper 321 Elementary Human | Performance Practicum ...... 1 |
| :--- |

Hper 323 Secondary Human Performance Practicum..... 1
Hper 331 Adult Fitness Practicum .. ..... 1

Hper 370 Techniques of Softball, Basketball, Flag Football, Soccer, Volleyball, Archery, Golf $\qquad$ 3

Hper 421 Principles and Administration of Physical Education and Athletic Programs $\qquad$ .3
Hper 480 Exercise Physiology for Human Perf4
Choose one of the following: ..... 4
Hper 330 Adult Fitness
Exsc 430 Adv Biomechanics and Lab
Exsc 400 Adv Gross Anatomy and Lab
Exsc 490 Adv Phys of Exercise and Lab$\overline{55}$
EXERCISE SCIENCE WITH AN

EMPHASIS IN HEALTH AND

SPORTS MEDICINE

A student completing the Health \& Sports Medicine emphasis in Exercise Science shall also be able to:

- Demonstrate knowledge regarding the prevention, recognition, evaluation, care and rehabilitation of acute and chronic injuries and illnesses related to human movement.
- Demonstrate knowledge regarding the administration and management of health care service delivery;
- Acquire additional relevant practical experience in the health care services in a variety of settings (e.g., medical clinics, collegiate and secondary athletics).


## Requirements:

Completion of all requirements for Exercise Science major ........ 55 credits
Exsc elective must Include Exsc 400 Adv Gross Anatomy and Lab

Additional Coursework
OT $295 \begin{aligned} & \text { Medical Terminology } \\ & \text { (via independent study) .... } 1\end{aligned}$
Spmd 304 Medical Kinesiology I ........ 3
Spmd 404 Medical Kinesiology II ....... 3
Hper 103 Personal Health ................... 3
Hper 105 First Aid \& CPR .................. 1
Hper 305 Measurement and Evaluation in Physical Education ......... 1
$\begin{array}{ll}\text { Hper } 315 & \begin{array}{l}\text { Adaptive Physical } \\ \text { Education ........................... } 3\end{array}\end{array}$

The Health and Sports Medicine emphasis at Pacific University is recommended for students intending to pursue careers in health care. Although the emphasis includes instruction relevant to aspiring athletic trainers, it does not directly lead to NATA athletic training certification. It is our contention that bachelorlevel athletic trainers will be at a competitive disadvantage in finding employment. Therefore, the Health and Sports Medicine tract at Pacific is designed to provide a strong science-based route to an entry-level graduate program in athletic training, leading to better long-term career options. For details and counseling, please contact the faculty in the Exercise Science Department.

## COACHING MINOR

This minor is available for those students interested in obtaining a coaching position in the public/private schools or in youth or adult programs.

## Requirements:

| Hper 105 | First Aid ............................... 1 |
| :--- | :--- |
| Hper 311 | Coaching Methods .............. 2 |
| Hper 320 | Sport and Society ................. 3 |
| Hper 322 | Sport Psychology ............. 3 |
| Hper 371 | Principles and Techniques <br> of Coaching ........................ 3 <br> Principles and Administration <br> of Physical Education and <br> Athletic Programs ............ 3 <br> Hper 421 |
| Care and Prevention of |  |

## EXERCISE SCIENCE MINOR

This minor is available for those students who, with the appropriate major, seek entry into graduate schools (e.g., physical therapy) or are interested in careers in the sports and fitness industry.

## Requirements:

Biol 202 General Biology I and Lab ... 4
Biol 224 Human Anatomy and Lab .. 4
Biol 240 Human Physiology and Lab . 4
Spmd 204 Care and Prevention of Athletic Injuries2

Exsc 230 Nutrition ............................. 3 (may substitute Exsc 360)
Exsc 380 Biomechanics and Lab ....... 4
Exsc $480 \quad$ Physiology of Exercise and Lab ................................ 4 (may substitute Hper 480)

## COURSE DESCRIPTIONS

All prerequisite courses must be completed with a grade of "C-" or better.

## Exercise Science (Exsc)

## Exsc 190 Exercise Science Passport

An introductory course for students interested in exercise science as a major or minor. Activities and faculty/guest speakers will introduce students to the exercise science program at Pacific and to the wide array of careers related to exercise science. 1 hour.

## Exsc $230 \quad$ Nutrition

An in-depth study of the relationship between nutrition and total individual health through 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.

## Exsc $360 \quad$ 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 current enrollment): Biol 240 Human Physiology or Organic Chemistry. 3 hours.

## Exsc 380 Biomechanics and Laboratory

Study of the structure and functioning of the human body via the methods of classical mechanics. Prerequisite: Biol 224 and Math 125. 4 Hours.

## Exsc 400 Gross Human Anatomy and Laboratory

Advanced study of gross and histological structure of the human body. Introduction into musculoskeletal, nervous and cardiopulmonary systems. Prerequisite: Biol 224. 4 hours.

Exsc 414 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 motor skill acquisition and performance in daily, recreational, clinical and scientific contexts. Prerequisite: Biol 202. Recommended Biol 224. 3 hours.

Exsc 430 Advanced Biomechanics and Laboratory
Advanced study and application of biomechanics principles and techniques in a research context. Students will engage in activities to enhance their knowledge and skills in the conceptual development and planning; data collection, management and analysis; and dissemination of research in biomechanics. Prerequisite: EXSC 380 and PHY 202 and (MATH 207 or PSY 350 or SOC 301). 4 hours.

## Exsc 475 Internship

An internship consists of a field experience in a student's specific career choice. Application of theories is emphasized. Arrangements for the course must be completed two weeks prior to the term in which the course is being taken. The internship is a capstone experience recommended to be taken during the senior year. Instructor's consent is required. Prerequisite: 12 hours of Exercise Science/Human Performance/Sports Medicine. Graded P/N. 1-14 hours.

## Exsc $480 \quad$ Physiology of Exercise and Laboratory

The branch of physiology that deals with function of the body during exercise and adaptations that occur in response to exercise. Knowledge and application of scientific principles are necessary to develop peak performance in athletes and to maintain health and fitness in the general population - quantitatively and qualitatively improving life. Prerequisite: Biol 204 and 240. 4 hours.

## Exsc $490 \quad$ Advanced Physiology of Exercise \& Laboratory

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 appropriate research design, collect data, engage in discovery learning, and participate in peer teaching. Prerequisite: Successful completion of Exsc 480. 4 hours.

## Human Performance (Hper)

Hper 103 Personal Health
The study of physical, mental, intellectual and social well being for effective functioning, both within the individual and by the individual, within the environment. 3 hours.

## Hper 105 First Aid

The study of basic anatomy and physiology of body systems as they relate to the prevention and care of injury and safety. More advanced than a standard first aid class outlined by the American Red Cross. 1 hour.

## Hper 170 Techniques of fitness, gymnastics, recreational games, handball, selfdefense, racquetball, and pickleball

Methods and materials for teaching and evaluating in the areas of gymnastics, recreational games, handball, self defense, racquetball, pickleball, and fitness parameters. 3 hours. Fall. Alternate years.

Hper 204 Methods of Officiating
The study of officials' duties for various sports; general officiating diagnosis to discover methods and techniques used for better officiating. 3 hours.

Hper 305 Measurement and

## Evaluation in

Physical Education
A course focused on the foundation principles, concepts and skills that inform measurement and evaluation practices in a variety of contexts. Prerequisite: Spmd 204, Math 207, upper-division standing or consent of instructor. 1 hour.

## Hper 270 Techniques of swimming, badminton, tennis, rhythms, and track

Personal skill development, methods and materials for teaching and evaluating in the areas of swimming, badminton, rhythms, tennis, track and field. 3 hours. Spring. Alternate years.

## Hper 311 Coaching Methods

A series of individual courses designed to give students insight and direction in leading or assisting in the coaching of athletics. Students may elect from a variety of coaching methods courses in the areas of baseball, softball, basketball, soccer, volleyball, and wrestling. May be repeated for different sports. Prerequisite: Hper 105. 2 hours each.

## Hper 315 Adaptive Physical

 EducationAn introduction to adapted, corrective and developmental physical education. Emphasis is placed on instruction of physical activities for the exceptional child. 3 hours.

## Hper 316 Teaching Physical <br> Education in the <br> Elementary School

A course based on a curriculum of sequential and progressive motor, fitness and social skills development for an elementary physical education program. Emphasis will be placed on program and lesson planning resulting in the application of content, methodology, student assessment and classroom management in a practical teaching experience with students grades one to four. Regulations, standards, and career opportunities will be discussed. Prerequisite: Hper 170, 270, 370 , or junior standing. 3 hours. Spring. Alternate years.

## Hper 320 Sport \& Society

Investigation of sport as a social phenomenon, including small groups in sport, sport organizations, sport subcultures, socializing institutions, and an in-depth analysis of interscholastic and intercollegiate sport programs. 3 hours. Junior Standing. Alternate years.

## Hper 321 Elementary Human <br> Performance Practicum

A supervised practical experience teaching physical education activities and concepts to elementary age school children. Prerequisite: Hper 316. 1 hour.

## Hper 322 Sport Psychology

Examination of the psychological basis of sport including effects on learning, perception, motivation, social, and behavioral aspects. 3 hours. Junior Standing. Alternate years.

## Hper 323 Secondary Human Performance Practicum

A supervised practical experience teaching physical education activities and concepts to Junior high, high school and/or college-age students. Prerequisite: Junior standing in exercise science major or consent of the instructor. 1 hour.

## Hper 330 Adult Fitness Principles

A study of the physiological, psychological and sociological aspects of adult fitness. The course includes materials and programs for use in initiating, prescribing, evaluating, monitoring and supervising adult fitness programs. Prerequisite: Biol 240 and Exsc 230. 3 hours.

## Hper 331 Adult Fitness <br> Programming Practicum

A supervised practical experience working with adults in a physical fitness program. Prerequisite: Hper 330. 1 hour.

## Hper 370 Techniques of softball, basketball, flag football, soccer, volleyball, archery and golf

Personal skill development, methods and materials for teaching and evaluating in the areas of softball, basketball, flag football, soccer, volleyball, archery and golf. 3 hours. Fall. Alternate years.

## Hper 371 Principles \& Techniques of Coaching

Principles technically applicable to the coaching of sports, including strategy and tactics, motivation, ethics, legal liability, budgeting, and development of organizational, interpersonal and communication skills. Prerequisite: Hper 105 and Hper 311. 3 hours.

Hper 421 Principles \& Administration of Physical Education \& Athletic Programs
A study of administrational functions in physical education and athletics, including program organization and evaluation program goals and objectives, personnel, facilities, equipment, fundraising, sport law and risk management. Prerequisite: Junior Standing. 3 hours.

## Hper 480 Physiology of Exercise for Human Performance \& Laboratory

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 and 240. 4 hours. Alternate years.

## Sports Medicine (Spmd)

OT 295 Medical Terminology
Taken via independent study through the School of Occupational Therapy. 1 hour.

## Spmd 204 Care \& Prevention of Athletic Injuries

A basic study of prevention and care of athletic injuries. Students will learn to prevent, evaluate, and care for common injuries. Students will also learn the basics of emergency care and the application of preventive taping. 2 hours. Prerequisite: Hper 105. $\$ 5$ Lab Fee.

## Spmd 302 Sports Medicine Practicum

 Observation of Pacific University athletic training facility and operations. Observation of athletic training procedures and protocols during collegiate games and practice. Prerequisites: SPMD 204, Co-requisite: BIOL 224. May be repeated for credit. 1-3 hours.Spmd 304 Medical Kinesiology I
Advanced procedures in injury evaluation, care and rehabilitation. Consideration for safety factors in athletic contests, sports equipment, and facilities. Theory and practice in the use of therapeutic modalities. Prerequisites: Spmd 204 and Biol 224. Every other year (alternates with Spmd 404). 3 hours.

## Spmd 404 Medical Kinesiology II

Advanced procedures including gait analysis, manual therapy, joint injury evaluation, taping and bracing. Discussion of current issues in sports medicine including: drugs and sports, communicable diseases, the female athlete and chronic illnesses. Prerequisite: Spmd 204 and Biol 224. Every other year (alternates with Spmd 304). 3 hours.

## FEMINIST STUDIES

## Co-Directors

Jodi Parr, Natural Sciences Division
Darlene Pagán, Humanities Division
Associated Faculty
Vernon Bates, Sociology
Jeffrey Barlow, History
Pauline Beard, English
Sara Steinert Borella, French
Alyson Burns-Glover, Psychology
Susan Cabello, Spanish
Patricia Cheyne, Art
David DeMoss, Philosophy
Lorely French, German
Linda Gallahan, Psychology
Johanna Hibbard, Media Arts
Lawrence Lipin, History
Cheleen Mahar, Anthropology
Marc Marenco, 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 utilize 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 co-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 can be applied to the minor.

## MINOR IN FEMINIST STUDIES

| FS 201 | Introduction to Feminist <br> Studies4 (includes one credit <br> for field work)* Counts <br> toward Humanities |
| :--- | :--- |
|  | core requirement |

Three or four electives

At least one course must be from either the Natural or 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 <br> Perspective |
| :--- | :--- |
| Art 280 | Women in Art |
| Engl 220 | Literature and Human <br> Concerns: Special Topics |

Engl 430 Major Writers: Woolf
Fren 401 Gender, Culture \& Society: Women's Writing
FS 300 Special Topics in Feminist Studies
Hist 246 Gender and Sexuality in Victorian America
Hist 400 Medieval Women
FS 301 Gender and Film
MedA 401 Women Directors and Feminist Strategies
Phil 255 Feminist Epistemology
PolS 224 Women in Politics
Psy 260 Psychology of Women
Psy 420 Sp Topics: The Development of Gender

Psy $420 \quad$ Sp Topics: Women and Violence
Soc 309 Sociology of the Family
Soc $317 \quad$ 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 <br> 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.

## Special Topics in <br> 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 $450 \quad$ 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 $451 \quad$ 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

Martha Rampton, Chair, Associate Professor<br>Jeffrey G. Barlow, Professor

Richard I. Jobs, Assistant Professor
Lawrence M. Lipin, 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 a 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, contributing 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 upperdivision 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:
Hist 101-102 Western Civilization I \& II
Hist 111112

## 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 seminarstyle class or an approved internship ... 18-24

27-33

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 $\qquad$ 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 late 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 490 | Senior Research <br>  <br> Seminar ........................ 3 |
| :--- | :--- |
| Hist 495 | Senior Thesis ................. 3 |

## 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 AsianAmerican 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 Morocco to India) 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 will survey 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 will provide 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 will offer, 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 Word 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 preColumbian 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

A historical investigation into the reality and remembered realities that go into the historical reconstrucion 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 Ethnicity in American History

This course examines the historical experience of specific minority groups (African-Americans, Mexican-Americans, immigrants from Asia, and those from Southern and Eastern Europe) in the United States, the historical roots of racism and its connection to American political and social thought. Meets crosscultural requirement. 3 hours.

## 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 $A D$ 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 cause 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 Enironment. 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 will survey 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 roleplaying 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 Imperialism and Decolonization

This course examines the history of modern imperialism from the nineteenth century race for empire to the post-colonial world. 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 postcolonial world. Prerequisite: Junior standing or consent of instructor. 4 hours.

## 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 nonRussian 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 $20_{\text {th }}$ 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. 3 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 decline 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 seminar explores the historical period 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 considers the emergence of youth as a social, political, and cultural force within the larger ferment of the late-sixties and early-seventies. Junior standing or consent of Instructor. 4 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

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/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 $\mathrm{s} / \mathrm{he}$ 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 $\qquad$ division (English, Media Arts and $\qquad$ Communication, Philosophy, or World Languages and Literatures) $\qquad$ .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) .4
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.

Minimum Total Hours 46

Interested students should consult with Professor David Boersema, 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 the se groups. Students will simultaneously be engaged in a field internship in the Hispanic community. Prerequisite: Spanish 102. Meets cross-cultural requirement. 4 hours.

## INTERNATIONAL PROGRAMS

The Office of International Programs services both international students and scholars and those interested in study abroad. Located in the English Language Institute House, 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.

Staff from International Programs are active members in NAFSA: 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 Faculty Advising

The Director of International Programs holds the official designation from the United States Immigration and Naturalization Service (INS) as Designated School Official and the Director holds the title of Responsible Officer from the Department of State. The staff of International Programs is knowledgeable in the areas of $\mathrm{F}, \mathrm{J}$, and $H$ regulations. Given the complex and ever-changing nature of immigration regulations, members of Pacific's international community are strongly advised to remain in close contact with International Programs for advising and counsel on immigration-related affairs.
Advising related to immigration and crosscultural issues are also available at the Office of International Programs. Any member of the international campus community having questions, or experiencing difficulties with matters of immigration and cultural adjustment can utilize the International Program staff's familiarity with such issues.

# INTERNATIONAL STUDIES 

Cheleen Mahar, Anthropology, Chair

Jeffrey G. Barlow, (History), East Asian
Studies Coordinator
Sara Steinert Borella, (French), Western
European Studies Coordinator
Victor M. Rodriguez, (Spanish), Latin
American Studies Coordinator
Susan U. Cabello, Spanish
Nancy Christoph, Spanish
Lorely French, German
Kazuko Ikeda, Japanese
Richard Jobs, History
Martha Rampton, History
Philip Ruder, Economics
Jeffrey G. Seward, Political Science
Michael R. Steele, English
International Studies is designed for highlymotivated 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 three international areas: East Asia, Latin America and Western Europe. International students who wish to major in IS may choose the American Studies option.

Each area focus provides majors with a multidisciplinary background in a language and culture area. On campus International Studies sponsors lectures, festivals, music presentations, and filing.

## 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 Director of International Programs, in the Office of International Programs on the second floor of Chapman Hall and from faculty members of World Languages and Literatures. 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 courses that they intend to take 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 or Western Europe).
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 (except for international students choosing the American Studies option) are as follows:

## Goals for the 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 or third language
- Experience in living and studying abroad


## Requirements: International Area Studies Focus

One of the following
IS 201, ECON 341, PSY 160 $\qquad$

Base history course related to
area interest ..... 3

Electives coherently related to area interest (includes 12 Study Abroad Credits) .21
Foreign language study at 300-1................................................................
above .......
Research methods ...................................... 3
IS 401 \& IS 402 Senior Thesis .. 4

1. At least one semester of study abroad in a country related to the student's chosen area interest. The country chosen must have as one of its principal languages, the language the student has previously studied to fulfill the foreign language requirement of the major. Study abroad in English-speaking countries or programs conducted in English may not be used to fulfill this requirement.
Prior to study abroad, the student should fulfill at least the following requirements:
2. Foreign language study in one of the principal languages of chosen area interest through the 202-level.
3. One of the following to be chosen in consultation with International Studies advisor: IS 201 (Intercultural Communications) PSY 160 (Culture and Behavior) or ECON 341 (International Trade)
4. A base history course related to the student's chosen area interest. For East Asia, this would normally be HIST 112 East Asia; for Latin America, HIST/ POLS 255 Latin American History or HUM 206 Latin America; for Western Europe, HIST 102 Western Civilization II. However, more specialized upperdivision history courses approved in advance by the student's IS advisor may also be used to satisfy this requirement.
In addition, the student must fulfill the following requirements before, during, or after the study abroad experience:
5. At least 21 semester hours of electives chosen in consultation with the student's IS advisor to create a coherent program of study related to the chosen area interest. Such courses should be approved by students' IS or WORL advisors. 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.
6. At least six hours of foreign language study at Pacific at the 300 -level or above after returning from the study abroad experience.
7. One course in theory or research methods to be taken prior to enrollment for IS 401 Senior Thesis. Note that students planning to spend the entire junior year abroad should complete this requirement prior to study abroad. Students also need to be aware that several of the courses approved for meeting this requirement have one or more prerequisites. The course chosen should be closely related to the research strategy appropriate to the student's senior thesis project. Approved courses which meet this requirement are the following:
Anth $300 \quad \begin{aligned} & \text { Research Methods in } \\ & \text { Anthropology }\end{aligned}$
Econ 321 Introduction toEconometrics
Engl 333 Theory of Literature
Engl 332 Introduction to Linguistics
Psy 350 Behavioral Statistics
Soc 300 Introduction to Social Research
Soc 301 Social Statistics
8. IS 401 and IS 402 Senior Thesis in which the student prepares a senior thesis for a public and written presentation. These two semesters of Senior Thesis may not be taken concurrently. Students must make reasonable progress on their thesis project by the end of IS 401 in order to continue with their thesis work in IS 402. Students who do not meet this requirement will be asked to withdraw from the IS major.

## Requirements 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 upper-division 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, junior tutorial, 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 27 hours in electives.

## 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 electiv,e 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 AND COMPUTER SCIENCE

Christine Guenther, Chair, Associate

Professor, Mathematics
Michael Boardman, Professor, Mathematics
Bogdana Georgieva, Assistant Professor, Mathematics

Michelle Hribar, Assistant Professor, Computer Science
Shereen Khoja, Assistant Professor, Computer Science

Christopher Lane, Assistant Professor, Mathematics and Computer Science
Nancy Ann Neudauer, Assistant
Professor, Mathematics
Douglas J. Ryan, Professor, Computer Science

The Department of Mathematics and Computer Science offers majors and minors in both Mathematics and Computer Science.

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.

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.

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.

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 COMPUTER SCIENCE

| Requirements |  |
| :---: | :---: |
| Math 206 | Computational Linear <br> Algebra ................................ 3 |
| Math 226 | Calculus I ......................... 4 |
| Math 240 | Discrete Mathematics ........ 3 |
| CS 150 | Introduction to Computer <br> Science I $\qquad$ 4 |
| CS 250 | Introduction to Computer Science II $\qquad$ .3 |
| CS 300 | Data Structures ................. 3 |
| CS 310 | Theoretical Computer <br> Science $\qquad$ .3 |
| CS 320 | Assembly Language <br> Programming $\qquad$ 3 |
| CS 430 | Computer Architecture ..... 3 |
| 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 $\qquad$ |  |
| CS 305 | Advanced Programming for Multimedia |
| CS 315 | Introduction to Human Computer Interaction |
| CS 360 | Special Topics* |
| Phy 364 | Electronics |

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


## Restrictions

1. At least 18 hours of upper-division CS courses must be taken from Pacific University (Credit by examination not acceptable).
2. At most 1 course passed with a grade below "C-" can count towards the Computer Science major.
3. 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 305, CS 310, CS 315, CS 320, CS 360, CS 430, CS 460, CS 480/481, Math 206, Math 240, Math 324, Phys 364. At least one of the following: $\qquad$ 4
Math 125 Precalculus
Math 226 Calculus 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 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 <br> Introduction to <br> 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: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 CS230.

## CS 150 Introduction to <br> 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 to the programming process and logic. Multimedia projects will be discussed and developed using state of the art scripting and macro languages such as Director and Lingo, Javascript/Java, HTML, and/or Perl. Prerequisite: CS 120 with a grade of "C" or better or equivalent. Students cannot get credit for both CS 205 and CS 305. 3 hours. Alternate Years 2004-2005.

## 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 CS230.

## 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 topics such as beginning data structures and windows programming. 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, and search 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 305 Advanced Programming for Multimedia

An introduction to state of the art scripting and macro languages such as Director $\mathcal{E}$ Lingo, JavaScript \& Java, Perl, and HTML which will be used for Multimedia development. This course will cover and include projects on topics such as Interactive Multimedia on CD ROM, Animation $\mathcal{E}$ Sound, Digital Video, the Internet, and Client/Server applications. Students cannot get credit for both CS 205 and CS 305. Prerequisite: CS 250 with a grade of "C" or better. 3 hours. Offered occasionally.

## CS 310 Theoretical Computer Science

This course introduces the foundations of formal language theory, computability, andcomplexity, 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 2004-2005.

## 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: CS250 or MedA260 either with a grade of "C" or better. 3 hours. Alternate Years 2004-2005.

## CS 320 Assembly Language Programming

An introduction to digital logic, machine structure and instruction sets, assembly language programming (arrays, subroutines, I/O conversion, sorting, searching, lists, look-up tables), interrupts and resets. (Class includes lab projects using MASM) Prerequisite: CS 250 with a grade of "C" or better or instructor consent. 3 hours.

## CS $360 \quad$ 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. Recent topics include Windows programming, interactive computer graphics and event-driven programming for PDAs. Current and future topics include AI 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, memory (virtual and cache), I/O devices, pipelined instruction execution, bus structures, microprogramming, and RISC/CISC philosophies. Prerequisite: CS 320 with a grade of " $C$ " or better. 3 hours. Alternate years 2004-2005.

## CS 445 Introduction to Database Systems

This course is an introduction to both the theory and application of Database Management Systems (DBMS). Topics covered will include data modeling and abstraction using $E R$ diagrams, UML, and relational algebra. Effective and efficient database design will also be discussed in the context of both normal forms (2NF, 3NF, and BCNF) and tree diagrams (B+ and ISAM). All topics in the course will be implemented concretely using a modern DBMS (either Microsoft SQL Server or Postgresql) and the database query language SQL. A substantial project will also be required of each student that will put the topics discussed in the course in their most modern framework and will involve the use of embedded SQL and at least one of C++, ASP, XML, Perl, PHP, Visual Basic, or Java. However, no previous experience with these languages in this context will be assumed. Pre-requisite: CS 300 with a grade of " C " or better. 3 hours. Alternate years 2005-2006.

## CS $460 \quad$ 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 320 with a grade of " C " or better. 3 hours. Alternate years 2005-2006

## CS $480 \quad$ Principles of Compiler Design

An introduction to compilers. Topics to include: attribute grammars, syntax-directed translations, lex, yacc, LR(1) parsers, symbol tables, semantic analysis, and code generation. Prerequisite: CS310 with a grade of "C" or better. 3 hours. Alternate years. 2004-2005.

## CS 481 Compiler Laboratory

A laboratory course which must be taken concurrently with CS 480. Involves coding, verification, and validation of a compiler. (Class project is implemented on a SUN Ultra 5 using C/Unix). 1 hour. Alternate years 2004-2005.

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.

## 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 $311 \quad$| Ordinary Differential |  |
| :--- | :--- |
|  | Equations ............................ 3 |

Math 490 Senior Capstone .................. 2

## Supporting Courses

CS $150 \quad$ Introduction to Computer

Phys 232 General Physics I ................. 4

Elective Groups
At least one course from each of the following groups
Analysis
.............................................. 3 3

Math 412 Complex Analysis

Abstract Structures ................................... 3
Math 402 Abstract Algebra
Math 440 Topics in Algebraic Structures
Applied Mathematics .3
Math 324 Numerical Analysis
Math 411 Partial Differential Equations
Supporting Courses 3-4
CS 250 Introduction to Computer Science II
Phys 242 General Physics II
Phys 380 Classical Mechanics
12-13

## General Electives

At least two other mathematics
courses numbered 300 or higher $\qquad$ 6

49-50
Restriction: At most, one course passed with a grade below "C-" can count towards the mathematics major.

## 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.

Restriction: At most 1 course passed with a grade below "C-" can count towards the mathematics minor.

## 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 and exponential expressions, solving linear, quadratic and general polynomial equations and inequalities and curve fitting. Applications from social and natural sciences are emphasized as is using the topics from the course in mathematical modeling. 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 and complex numbers 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, 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. 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 125 with a grade of "C" or better or placement. Math 226 strongly recommended. 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 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. Admission is also possible with instructor consent. 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 offunctions. Prerequisite: Math 228, Math 240 both with a grade of " $C$ " or better. 3 hours. Alternate years 2005-2006.

## Math 411 Partial Differential <br> 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 <br> 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, Chair, Associate Professor
Michael Geraci, Assistant Professor
Johanna Hibbard, Assistant Professor
Michael Annus, Instructor
Samuel Mathies, 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 (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 the department chair, Dave Cassady.

## 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 nonmedia 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 computer skills.


## MAJORS IN MEDIA ARTS

Students in media arts at Pacific may major in one of five 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

$\begin{array}{ll}\text { MedA } 111 & \text { Cultural and Historical } \\ & \text { Foundations ....................... } 3\end{array}$
MedA 112 Modern Mass Media .......... 3
$\begin{array}{ll}\text { MedA } 225 & \text { Black and White } \\ & \text { Photography ....................... } 3\end{array}$
MedA 240 Writing for Print Media ..... 3
MedA 250 Elements of Video Production ............... 3
MedA 260 Elements of Multimedia Production $\qquad$ 3

MedA 311 Writing for Electronic Media 3

## MEDIA ARTS

| MedA 422 | Media Criticism ................ 3 | MedA 301 | Special Topics: Film Theory |
| :---: | :---: | :---: | :---: |
| MedA 434 | Mass Media Law and |  | OR |
|  | Regulation ........................ 3 | MedA 401 | Special Topics: |
| MedA 495 | Senior Project .................... 2 |  | Topographies .................... 3 |
| MedA 496 | Senior Project .................... 2 | MedA 302 | Documentary Film ............ 3 |
| Upper division Media Arts electives ...... 6 |  | MedA 312 | Screenwriting .................... 3 |
| 37 |  | MedA 320 | Studio Production ............. 3 |
|  |  | MedA 321 | Sound Design .................... 3 |
|  |  | MedA 330 | Field Production ............... 3 |
| JOURNALISM MAJOR |  | MedA 422 | Media Criticism ................ 3 |
|  |  | MedA 434 | Mass Media Law and Regulation $\qquad$ |
| Requirements |  | MedA 495 | Senior Project .................... 2 |
| MedA 111 | Cultural and Historical <br> Foundations ........................ 3 | MedA 496 | Senior Project ................... 2 |
| MedA 112 | Modern Mass Media ......... 3 | 40 |  |
| MedA 225 | Black and White <br> Photography $\qquad$ |  |  |
| MedA 240 | Writing for Print Media ..... 3 | INTEGRATED MEDIA MAJOR |  |
| MedA 340 | Reporting ......................... 3 |  |  |
| MedA 363 | Publication Design ............ 3 | Requirements |  |
| MedA 370 | Advanced Reporting ......... 3 | Core curriculum |  |
| MedA 422 <br> MedA 434 | Media Criticism .................. 3 | MedA 111 |  |
|  | Mass Media Law and Regulation $\qquad$ |  | Foundations <br> OR |
| MedA 495 | Senior Project ..................... 2 | MedA 112 | Modern Mass Media ......... 3 |
| MedA 496 | Senior Project ..................... 2 | ART 110 | Basic Design ..................... 3 |
| Upper division Media Arts electives ...... 6 |  | ART 217 | Computer Graphics Design |
| 37 |  |  | OR |
|  |  | ART 218 | Computer Graphics <br> Illustration $\qquad$ 3 |
| FILM AND VIDEO MAJOR |  | ART 226 | Photography I................... 3 |
|  |  | CS 120 | The Information Era ......... 3 |
| REQUIREMENTS |  | CS 205 | Programming for <br> Multimedia $\qquad$ 3 |
| MedA 111 | Cultural and Historical <br> Foundations $\qquad$ 3 | MedA 260 | Elements of Multimedia <br> Design ................................. 3 |
|  | Or | MedA 265 | Web Design ...................... 3 |
| MedA 112 | Modern Mass Media .......... 3 | MedA 305 | Designing for Electronic Media .................................. 3 |
| MedA 120 | Survey of Film .................... 3 | MedA 311 | Broadcast Writing |
| MedA 205 | Film Editing......................... 3 |  |  |
| MedA 250 | Elements of Video <br> Production $\qquad$ .3 | ENG 207/20 | 8. $\qquad$ Creative Writing 3 |
|  |  | MedA 350 | Integrated Media <br> Production ......................... 3 |



## 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, contem porary 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 of a 16 mm flatbed editor and magnasync dubber. 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 35 mm 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.
## MedA 250 Elements of Production

Study of the various elements which combine to create television and film products. Includes production planning, scriptwriting, camerawork, sound, editing, and directing. Some time spent in the studio for application of learned techniques. Prerequisite: MedA 111, 112. 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. Offered alternate years in the Spring.

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 postproduction 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. computers. Prerequisite MedA 2503 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 technology interface to create a single interactive multimedia application. 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 to issues currently affecting the industry. Students develop a complete proposal, including technical and design specifications, to bring an interactive media solution to areas such as academic and non-academic publications, advertising, dissemination of information and participation in the political process. 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. (G)

## 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. (G).

## 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. (G)

## MedA 475 Media Internship 1-3 hours.

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.) $P / N P$. Cassady.

## 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.

## MUSIC

Scott Tuomi, Chair, Associate Professor
Michael Burch-Pesses, Associate Professor
George Harshbarger, Professor
Tim Stephens, Associate Professor

## Adjunct Faculty

Lisa Actor, Instructor in Voice
Brian Casey, Instructor in Bass
Steve Conrow, Instructor in
Trumpet/Brass Methods
Cherise da Cuhna, Instructor in Piano
Jason Fromme, Instructor in Violin/Viola
Karen Gifford, Instructor in Flute
Phil Hansen, Instructor in Cello
Alan Juza, Instructor in Oboe
Steve Kravitz, Instructor in Woodwinds
Steve Lawrence, Instructor in Percussion
Karen Mallory, Instructor in Voice
Doug McMickle, Instructor in Guitar
Janice Richardson, Instructor in Bassoon
Jill Soltero, Instructor in Voice
Kelli Brown Stephens, Instructor in Piano
John Stowell, Instructor in Jazz Guitar
David Wilkins, Instructor in Trombone/Tuba
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. to provide access to courses in music for all students of the University regardless of their previous involvement or experience.
2. to provide opportunities for active musicmaking in a variety of instrumental and vocal ensembles for all interested students, faculty, staff, and members of the community.
3. to prepare elementary and secondary teachers of music.
4. to provide applied music instruction in voice, wind, percussion, string and keyboard instruments; and to offer degrees with performance emphasis in voice and piano.
5. to prepare 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 with 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 ........................... 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 159 Chamber Ensembles (various)
Mus 163 Chamber Singers
Mus 165 Wind Ensemble
Mus 167 Jazz Choir

Ensembles may be counted as upper-division credits in the Junior and Senior years. With Humanities Division approval, ensemble credits may count towards satisfying the Humanities requirement in the Academic Core.
Ensembles are activity courses. 3 credits may count as satisfying the Arts requirement in the Academic Core, 4 more credits may be taken as activity courses toward the minimum total of 124 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;
- for careers in elementary and secondary music education;
- to pursue rigorous and dedicated activity as performers specializing in voice or piano;
- 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


## BACHELOR OF ARTS IN MUSIC



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
$\begin{array}{ll}\text { Pedagogy } & \text { Mus } 490 \text { or 491, as } \\ \text { appropriate ......................... } 2\end{array}$
Recitals Mus 394 and 494 ................. 3
$\begin{array}{ll}\text { Mus } 351 & \begin{array}{l}\text { Diction for Singers (voice } \\ \text { majors only)....................... } 1\end{array}\end{array}$
Conducting Mus 282 ............................... 1
Total additional credit-hours in Music
9 (10)

## 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
Non-western Music: Mus 240 .................. 3
Techniques and Methods+: The appropriate four of:
MUS 181, 233, 234, 235, 236 $\qquad$
Music Education: Mus 301; and 302 or 303, as appriopriate ................................... 6
Conducting ... Mus 282; and 482 or 483 , as appropriate 3
Music Capstone: Mus 495 ..... 2

Total additional credit-hours in Music 21
+A Music education major is to take the methods courses not representing the family of his/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 School 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 School 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
Ensembles (large ensemble appropriate to instrument/voice, Mus 150, 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 alternate years.

## 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 Spring semester.

## 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, 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 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 |

$\begin{array}{ll}\text { Mus 159-04 } & \begin{array}{l}\text { Chamber Ensemble - } \\ \text { Percussion }\end{array}\end{array}$
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 ensemble
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 LessonsPrivate 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 credithours 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 credithour 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

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: Music 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 <br> 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 art 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 S 2000. 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 commonly 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 students. 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; 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. Scoring and arranging for ensembles of incomplete instrumentation. Exploration of timbral combinations. Introduc-
tion to computer applications in this field. 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 each semester on an arrangement basis. 3 hours.

## Mus 321 Music History: Antiquity to 1585

A study of musical development beginning in Ancient Greece an 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 111 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 111 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.
$\begin{array}{ll}\text { Mus } 324 & \begin{array}{l}\text { Music History: The } \\ \text { Twentieth Century }\end{array}\end{array}$
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 trouvere songs of the 13 th 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 16 th 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. 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. Students will work with choral ensembles. 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. 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.

## PRE-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 29month 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

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MUSIC • OCCUPATIONAL THERAPY
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- 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 $\qquad$ 15 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 $\qquad$ 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 $\qquad$ 3 hours
Engw 201, Expository Writing
OR
Engw 301, Advanced Expository Writing OR
Engw202, Writing about Disability (strongly recommended)
Applied Arts $\qquad$ 6 hours

Various hands-on courses such as design, ceramics, dance, photography, or music.

## Communication

(debate or public speaking) ........ 2 hours
Meda 201 or Meda 101, or IS 201
Research Design $\qquad$ 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
Cross-Cultural Studies $\qquad$ 2 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") <br> $\qquad$ 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
Elective

## 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

## Typical third year for Pre-OT students

Fall
Phy 202
Biol 224
Psy 311
Electives

## Winter

Elective

## Spring

Psy 348/349
Bio 240
HPER 105 (first aid)
Electives

Comments: The 3 semester Biology sequence can be started the spring of either the freshman or sophmore 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.

## PRE-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 $\qquad$ .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 $\qquad$ 4 hours Statistics (Math 207 suggested) .... 3 hours Phy 202 and 204 OR
Phy 232 and 242 .............................. 8 hours
Psy 150 ..... 3 hoursEngw 201 or 202 (Expository Writing)plus 1 more writing course(at least 200 level)
$\qquad$ 6 hours
Engw 200+ (1 more English course, eitherwriting or literature)
$\qquad$ 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 requirements.
It is wise to begin immediately in Mathematics. 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 $\overline{3}$

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 $\overline{14}$
Winter
Math 207 ..................................................... 3 3
Spring
Phy 204 OR Physics 242 ........................... 4
Engw 200+ ................................................. 3
Foreign Language ..................................... 3
Psych 150 ................................................... 3 $\overline{13}$

## Junior

## Fall

Biol 224 (Anatomy) ....................................... 4
Engw 301 .................................................... 3
Electives ..................................................... 9 $\overline{16}$
Winter
Elective ....................................................... 3 $\overline{3}$

Spring
Biol 240 (Physiology) ................................ 4
Chem 240 (Organic) ....................................... 4

| Electives ............................................... 6 | Sophomore |
| :---: | :---: |
| 14 | Fall |
| Senior | Biol 204 ................................................. 4 |
|  | Biol 224 (Human Anatomy).................... 4 |
| Fall | Engw 201 .............................................. 3 |
| Biol 308 (Microbiology) .......................... 4 | Foreign Language ................................. 3 |
| Electives ................................................ 9 |  |
| 13 | Winter $\quad 14$ |
| Spring | Elective .................................................. 3 |
| Chem 380 (optional) .............................. 3 | 3 |
| Electives ............................................... 9 | Spring 3 |
|  | Spring |
| 12 | Biol 240 (Human Physiology) ................. 4 |
| *Note: | Math 207 (Statistics) ............................... 3 |
| Biol 202 is a prerequisite for Biol 204 | Foreign Lang ......................................... 3 |
| Biol 204 is a prerequisite for Biol 308 | Engw 301 ............................................. 3 |
| Math 122 is a prerequisite for Math 207 and Chem 220 | 16 |
|  | Junior |
| Math 125 is a prerequisite for Chem 230 and Phy 202 | Fall |
|  | Phy 202 OR Phy 232 ............................... 4 |
| Math 226 is a co-requisite for Phy 232 | Biol 308 (Microbiology) .......................... 4 |
|  | Electives ............................................... 6 |
| SAMPLE of 3-Year Pre-Optometry Curriculum | 14 |
|  | Winter |
| Freshman | Elective .................................................. 3 |
| Fall | $\overline{3}$ |
| Arts/Soc Science .................................... 3 | Spring |
| Math 125 ............................................... 4 | Phy 204 OR Phy 242 ................................ 4 |
| First Year Seminar ................................. 4 | Chem 240 (Organic) |
| Chem 220 .............................................. 4 | Electives ............................................... 6 |
| 15 | 4 |
| Winter |  |
| Elective ................................................. 3 | Biol 202 is a prerequisite for Biol 204 |
|  | Biol 204 is a prerequisite for Biol 308 |
| Spring | Math 122 is a prerequisite for Math 207 and Chem 220 |
| Biol 202 ................................................. 4 |  |
| Math 226 ............................................. 4 | Math 125 is a prerequisite for Chem 230 and Phy 202 |
| Chem 230 .................................................. 4 |  |
| Electives: Arts/Soc. Sci./Humanities ..... 3 | Math 226 is a co-requisite for Phy 232 |
| $\overline{15}$ |  |

## PEACE AND CONFLICT STUDIES

David Boersema, Philosophy, Chair
Jeffrey Barlow, History
Vern Bates, Sociology
Lorelle Browning, English
Alyson Burns-Glover, Psychology
Ellen Hastay, Director of Pacific
Humanitarian Center
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 $\qquad$ 4-6
Two courses chose from PACS 208, 211, 213, 214, 215, 220, 221, 222, 230 $\qquad$ .6

Three courses chosen from PolS $340^{*}$, PACS 305, 313, 325, 411, 430 and 450 ..... 9-10

## 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 Behavior

 This course takes a transhistorical, interdisciplinary approach to the question of alcohol and substance abuse and the social costs of addiction and use. We will address the human motive to alter consciousness using classic and modern research in the physiology of addiction; sociocultural risk factors and changing cultural representations of drug use. 4 hours. Meets social science core requirement. (Same as Psy 208.)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

Historical and modern review of the human and non-human primate behaviors related to altruism, empathy, violence, competition and aggression from a social, biological, interspecies and cross-cultural perspective. 3 hours. Meets social science core requirements. (Same as Psy 213.)

## 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 AftricanAmericans 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.)

## 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 crossculture core requirement.

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 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 crosscultural requirement.

## 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 430 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 rightsbearers, the justification of rights claims, the legitimacy and means of implementing universal human rights and critiques and evaluations of the social role of rights. 4 hours. Prerequisite: PACS 101 and Junior standing. 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.

## PHILOSOPHY

David DeMoss, Chair, Associate Professor of Philosophy

David B. Boersema, Professor of Philosophy, Douglas C. Strain Chair of Natural Philosophy, Distinguished University Professor

Marc Marenco, Associate Professor of Philosophy

Aaron Bunch, Instructor
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 upperdivision 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/or interdisciplinary career programs; graduating majors and minors should not only 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 philosophically reflect on and express clearly their own goals and choices at this stage in their lives.

## MAJOR IN PHILOSOPHY

## Requirements

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 226 History \& Systems
PolS 309 Classics of Political Philosophy
Psy 321 Sensation \& Perception
Soc 414 Sociological Theory
Engl 332 Introduction to Linguistics
31-32

## 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 fromPhil 205, 206, 207, 208 ..... 6
$\begin{array}{ll}\text { Phil } 307 & \text { Ethics, Medicine \& } \\ & \text { Health Care ....................... } 4\end{array}$
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 $310 \quad$ Philosophy of Science
Phil 312 Philosophy of Biology
Psy 220 Community Psychology
Hist 339 History of Science
Soc 319 Sociology of Medicine

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

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## MINOR IN PHILOSOPHY

## Requirements

Phil $101 \quad$ Knowledge \& Reality
OR
Phil 102 Ethics and Values ............. 3
Phil/Math 212 Language and Logic ... 3
One course fromPhil 205, 206, 207, 208 ..... 3
Upper-division electives in Philosophy ... 6-8

## MINOR IN RELIGION

## Requirements

Phil/Math 212 Language and Logic $\qquad$ .3

Phil 110

Religion and the Quest
for Meaning
$\qquad$
3

Phil 205
OR 206
Ancient Philosophy or Medieval Philosophy. $\qquad$
Phil 309 Philosophy of Religion ...... 4
Upper-division elective in philosophy 3-4

## 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

After developing a few tools of the trade for doing moral analysis, this course will explore the moral reasoning behind a number of contemporary moral issues. What is moral reasoning? What is the grammar ofmoral discourse? Is morality subjective or objective? Is moral discourse possible in the 21st century? What ethical insight
might we derive from such complex contemporary debates as abortion, freedom of expression, and sexual ethics? 3 hours. Offered annually.

## Phil 110 Religion and the Quest for Meaning

This course is an introduction to the academic study of religion. What are the most fundamental meta-narrataives 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.

## 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 $B C E)$ 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 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. Offered annually.

## Phil 214 Philosophy of Art

This course is an introduction to philosophical issues related to 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). 3 hours. Offered alternate years.

## 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. 3 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: Phil 110 or Phil 101 or instructor's approval. 4 hours. Offered alternate years.

Phil $310 \quad$ 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 $312 \quad$ 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. 3 hours. Offered alternate years.

## Phil $314 \quad$ Philosophy of Mind

This course focuses on 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. 3 hours. Offered alternate years.

## Phil 329 Feminism and Philosophy

This course explores the philosophical potential in 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

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 412 Major Philosophers

Intensive study of the works of a major philosopher. 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: fifteen hours in philosophy and instructor's approval. 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.

## PRE-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. $\qquad$ 6
English/Writing - must include one writing course beyond the introductory level (Engw 201 or higher) $\qquad$ 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 prerequsite), music, foreign language, speech/communication . $\qquad$ Social Sciences (at least 3 hours must be outside of psychology) $\qquad$ .6
Courses from two of the following disciplines: anthropology, sociology, psychology, political science, economics.


## 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 their 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/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/ 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/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/her time in the Gateway program. This must be completed before the application deadline of her/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.

## PRE-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 computerbased 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
- 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 in December prior to enrollment. The applicant must complete the following courses with a "C" or better.

- Biological Sciences $\mathbf{- 1 1}$ 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.
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 <br> Freshman <br> Fall <br> Math 125 <br> 4

First Year Seminar ..... 4
Chem 220 ..... 4
Elective ..... 315
Winter
$\qquad$-
Spring
Biol 202 ..... 4
Chem 230 ..... 4
Elective ..... 6Sophomore
Fall
Biol 204 ..... 4
Elective ..... 3
Engw 201 .....
Foreign Language ..... 3
Psych 150 ..... 316
Winter
Elective .....  .3$\overline{3}$
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 .....  614
Winter
Elective ..... 33
Spring
Chem 240/241 (Survey of Organic) ..... 4
Biol 240 (Physiology) ..... 4
Electives ..... 6$\overline{14}$
Senior
Fall
Electives ..... 16$\overline{16}$
Spring
Electives ..... 16
$\overline{16}$

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, Associate 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 are encouraged to gain practical experience through participation in on-campus experimental projects and industrial internships. Facilities are available for student research in optics, nuclear physics, astronomy, non-linear dynamics, and solid state physics. The majority of our graduates go to graduate school in physics and related fields or take engineering-related positions in technical industry.

Visit the Physics Department's Web site at http:// www.physics.pacificu.edu or through the main web site at http://www.pacificu.edu.

## Goals for the Physics Major

By successfully completing 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 that includes sophisticated mathematical techniques.
4. Conduct independent research or work successfully in a technical position.

## PHYSICS

## 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
$\begin{array}{ll}\text { Phy } 322 \text { Modern Physics with } \\ & \text { Health Applications ........... } 4\end{array}$
Phy 332 Waves and Optics ............... 4
$\begin{aligned} \text { Phy } 380 & \text { Classical Mechanics: } \\ & \text { Dynamics ............................ } 4\end{aligned}$
Phy 420 Quantum Mechanics .......... 4
$\begin{array}{ll}\text { Phy } 460 \quad & \text { Electric and } \\ & \text { MagneticFields .................... } 4\end{array}$
Phy 490-492 Physics Capstone ................ 6
OR
Phy 480-482 Physics Capstone Seminar .. 2
AND an internship
OR
research ............................... 4
Upper-division electives ...................... 6-8

## Other Requirements

Chem 220-230 General Chemistry I-II ... 8
Math 226-228 Calculus I-III ................ 12
60-62
Students who are planning a career in teaching physical science at the high school level can, 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 what we think would offer the best preparation for these alternatives. However, each student's interests are different; please discuss yours with a member of the department to develop a personalized selection of courses. 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.

## Graduate School in Physical Science <br> Relativity <br> Thermodynamics and Statistical Mechanics <br> Modern Topics in Physics <br> Electronics <br> Optics/Optometry <br> Modern Topics in Physics <br> Electronics <br> Engineering/Applied Science/ Health Science Careers

Electronics
Engineering Mechanics: Statics
Thermodynamics and Statistical Mechanics

## Teaching Physical Science in

 High SchoolRelativity
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 $\qquad$ 8
Phy 322 Modern Physics with Health Applications OR
Phy 332 Waves and Optics ................ 4
Seven additional upper-division credits in physics $\qquad$7

## 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 $\qquad$ 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 $\qquad$4

Phy 364

Electronics
$\qquad$ ..... 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 $\qquad$ 4

Phy 380 Classical Mechanics: Dynamics
Phy 420 Quantum Mechanics,
Phy 460 Electric \& Magnetic Fields
31-32
Any student interested in a physics minor should consult with a faculty member in the Department of Physics.
Since 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

 2005-2006Fall
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

## 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

## COURSE DESCRIPTIONS

All prerequisite courses must be completed with a grade of "C-" or better.

## Physics (Phy)

## Phy $110 \quad$ 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, electrical phenomena. 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 1254 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 (calculusbased) 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 - <br> 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. 2005-2006.

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. 2005-2006.

## 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. 2005-2006.

## 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 $420 \quad$ 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. 2005-2006.

Phy $460 \quad$ 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 $480 \quad$ 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 $482 \quad$ 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 $490 \quad$ 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 $492 \quad$ 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 <br> Student-conducted individual research project. 1-3 hours.

## POLITICS AND GOVERNMENT

Robert Van Dyk, Chair, Associate Professor

Russell A. Dondero, Professor
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 preparation. The required senior thesis may take a variety of forms ranging from a hands on project based on student 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 which brings pairs of nationally prominent speakers to Pacific and Oregon. Recent pairings have included Mary Matalin and James Carville (2000), Ralph Reed and Alan Dershowitz (2001), Ralph Nader and Newt Gingrich (2002), David Gergen and Bill Bradley (2003), and Bill Kristol and Molly Ivins (2004).

## 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 Study Abroad 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 are 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)
Soc 301 Social Statistics
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 upperdivision 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 upperdivision level.

## 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 AfricanAmericans 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. Students will attend the Environmental Law Conference in Eugene in March, and they will go on several shorter field trips. 3 hours. Cross-listed in ENV

PolS 225 The Politics of Healthcare
This course examines healthcare issues in the United States and the way these issues are affected by the political process. The course is highly recommended for students who are considering a career in the health professions. 3 hours.

## 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 CrossCultural 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 CrossCultural 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 whichstudents 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 $330 \quad$ 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.

## PRE-MEDICAL STUDIES

## See Dr. Jon Schnorr

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 |

## PSYCHOLOGY

Alyson Burns-Glover, Chair, Professor
Mark Bodamer, Assistant Professor
Linda Gallahan, Associate 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 William James, who wrote: "The union of the mathematician with the poet, fervor with measure, passion with correctness; that surely is the ideal."

Our faculty teach a range of courses representing the discipline's major subject areas: Social, Developmental, Biocognitive, Personality and Abnormal. Psychology classes stress the importance of data analysis, but at the same time encourage students to keep theoretical, "Big Picture" issues in mind. Because we support the traditional aims of liberal arts education, we help students learn how to think clearly and critically, challenge orthodox assumptions, organize and present complicated information, make use of both qualitative and quantitative methods, write well, and develop a commitment to ideals of scholarship and lifelong learning.

Initial requirements for the major in Psychology include Introduction to Psychology; Mind, Theory and Method; Research Methods and Behavioral Statistics. Students then choose from a menu of elective courses, some focused on basic processes, some strictly theoretical, and some applied. The major concludes with a required Senior thesis proposal in which students reflect over the field, consolidate knowledge from previous classes, and form hypotheses of their own.

## Goals of the Major

The goals of the Psychology Department are to:

- introduce students to methods of critical analysis that will allow them to interpret and evaluate research and theory;
- expose students to a broad selection of courses that typify the breadth of the discipline and the expertise of departmental faculty;
- instill in students cooperative learning strategies that will enable them to participate effectively in group projects;
- perfect students' abilities to write clearly, succinctly and with authority, and to orally present theory and data;
- and guide students' career choices by providing them with information on opportunities in basic and applied Psychology, as well as allied health and service professions.


## MAJOR IN PSYCHOLOGY

The Psychology major must complete the following required courses with a grade of " C " or better and maintain a 2.0 grade point average for Psychology electives. In addition, students must simultaneously pass with a grade of "C" or better both Psy 348 and Psy 349:

## Requirements

| Psy 150 | Intro to Psychology ........... 3 |
| :---: | :---: |
| Psy 248 | Mind, Theory \& Method ... 3 |
| Psy 348 | Research Methods ............. 3 |
| Psy 349 | Lab Research Methods ...... 2 |
| Psy 350 | Behavioral Statistics .......... 3 |
| Psy 390 | Junior Seminar .................. 3 |
| $\begin{aligned} & \text { Psy } 490 \\ & \text { or } \end{aligned}$ | Senior Thesis Proposal....... 3 |
| Psy 491 | Senior Thesis Proposal (non 499 track) $\qquad$ |
|  | (those in 491 must take an additional 400-level class) |
| Psy 499 | Advanced Senior Research 3 (upon passing Psy 490) |

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Plus required electives:
Courses that reflect the study of mind, body, \& behavior over time:
Psy 180 or 340 .3
in diverse contexts: Psy 160, 213, 260, 308 .3
Courses that explore the human psyche:
Psy 208, 309, 311 or 444 $\qquad$
the function of brain/body:

$$
\text { 212,214, } 314 \text { 321, OR } 352
$$

$\qquad$

## Plus general electives:

Any two Psychology, or approved electives $\qquad$ 6

The requirements listed above are for the Bachelor of Arts Degree with a major in Psychology. Students pursuing a Bachelor of Science degree with a major in Psychology must also complete the following requirements.

## Additional courses:

Two additional natural science
laboratory courses $\qquad$ .8

## MINOR IN PSYCHOLOGY

The Psychology minor must complete the following required courses with a grade of " C " or better and maintain a 2.0 grade point average for Psychology electives.

## Requirements

Psy 150 Introduction to Psychology .. 3
Psy 248 Mind, Theory \& Method ... 3
Plus five electives (Two must have a Psy prefix. Two must be upper-division courses.)

Students interested in the Psychology minor should consult with a faculty member of the department prior to choosing electives.
Courses from other departments approvedfor elective credits in Psychology:
Bio 330 Genetics ..... 3
Phil 103 Critical Thinking ..... 3
Phil 310 Philosophy of Science ..... 3
Phil 314 Philosophy of Mind ..... 3
Soc 317 Gender \& Sexuality ..... 3
COURSE DESCRIPTIONS
Psychology (Psy)
Psy $150 \quad$ Introduction to Psychology
This course provides an overview of psychologyincluding psychobiology, learning, memory,perception, motivation, development, social,behavioral/emotional problems and treatments.3 hours.

## Psy $160 \quad$ Culture \& Behavior

This course provides 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. Fills cross-cultural core requirement. 3 hours.

## Psy 180 Lifespan Human Development

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. 3 hours.

Psy 208 Addictions and Society
This course takes a transhistorical, interdisciplinary approach to the question of alcohol, substance abuse and the social costs of addiction and use. We will address the human motive to alter consciousness using classic and modern research in the physiology of addiction; sociocultural risk factors and changing cultural representations of drug use. 4 hours. (Same as PACS 208.)

## Psy $210 \quad$ Current Issues <br> in Psychology

A seminar-style course on subjects of special interest and current importance within the field, such as The Nature of Self-Concept, Aging, Life-Story Models of Identity, Intelligence,

Evolutionary Psychology, or Buddhism, Psychology, and the Mind. Precise topic varies from semester to semester. May be repeated for credit as topic varies. 3 hours.

## Psy 212 Introduction to Chimpanzee Behavior

Research from various field studies and captive populations will be read, as well as seen in film. Students will also study the chimpanzees at the Oregon Zoo. Research methods will be taught and students will collect and present a summary of their data. Implications of the discoveries made through studying our sibling species will be discussed and current projects around the world to improve conditions for chimpanzees will be examined. 3 hours. (Same as SCI 252).

## Psy 213 Psychology of Altruism and Aggression

Historical and modern review of the human and non-human primate behaviors related to altruism, empathy, violence, competition and aggression from a social, biological, interspecies and cross-cultural perspective. 3 hours. (Same as PACS 213.)

## Psy $214 \quad$ Cognitive Science

Cognitive science is an interdisciplinary approach to examining the nature of the mind and mental process. In this course, an understanding of the mind and mental process will be achieved by examining philosophy of mind, traditional theories of cognition, relations between cognitive experience and brain activity, computer modeling of the mind, and artificial intelligence. 3 hours.

## Psy $220 \quad$ 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 focus of attention. Prerequisite: Psy 150 or Soc 101 or Soc 102. 3 hours.

## Psy 225 Learning

Course investigates principles of learning and motivation among humans and other animals. Class will explore applications of these principles in education and society at large. 3 hours.

## Psy 226 History and Systems of Psychology

An inquiry into the foundations of modern psychology. The intellectual heritage of the discipline within philosophy and the natural sciences will be examined and critiqued. We will consider major theories, emerging research directions and controversies within the sub disciplines of psychology. 3 hours.

## Psy 248 Mind, Theory, and Method

 This course will present the historical dialectic between rationalism [theory] and empiricism [data] within the discipline. We will focus our attention on the current rise of neuroscience, behavioral genetics and the return to mind in psychological research. Students will learn the current status of several controversial dichotomies: Mind-body dualism, Nativism-Environmentalism, Essentialism-Operationalism, etc., and the role that social values play in the creation, testing, and interpretation of scientific theories. Pre-requisite. Psy 150 or permission of instructor. 3 hours.
## Psy $260 \quad$ Psychology of Women

A survey of the physiological, emotional, and cognitive aspects of the female experience. This course examines both the similarities and differences between women and men, with emphasis on experiences which are 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 or permission of the instructor. 3 hours.

## Psy 308 Social Psychology

A consideration of humans as social beings-how they affect and are affected by others. Topics included are: perception of persons, affiliation, communication and attitude change, group processes, leadership, intergroup tension, cultural syndromes, and social roles. Prerequisite: Psy 150 and upper-division standing. 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. We 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 and upper-division standing (or permission of the instructor). 3 hours.

## Psy 311 Abnormal Psychology

Students critically explore major categories of disorder, 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. Includes both textbook and original readings. Prerequisite: Psy 150 and upper-division standing (or permission of the instructor). 3 hours.

## Psy 314 Memory and Mind

The focus of this course is on explaining memory and consciousness from a cognitive psychological perspective. Students will be exposed to current theories and research on the structure and process of memory, memory development, the representation of knowledge, memory accuracy and fallibility, and how memory interacts with other aspects of cognition and emotion. Related topics such as attention, the self concept, and metacognition are also covered.Emphasis is placed upon understanding both the process and the content of memory, and the complex interactions between memory processing and social-cognitive behaviors across time. 3 hours.

## Psy 321 Sensation \& Perception

An in-depth analysis of how organisms perceive and comprehend their world. The course explores how receptors, transaction, and neural networks shape and constrain our perception of reality. Prerequisite: Psy 150 and upper-division standing (or permission of the instructor.). Bio 110 or 224 or 240 strongly recommended. 3 hours.

## Psy $340 \quad$ Child Development

An in-depth analysis of child development with a focus on contemporary research from the bio-social-behavioral framework. Students will conduct an in-depth study on a chosen topic. Prerequisite: Psy 150 and upper-division standing. 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. Students will receive an introduction to data management and analysis as well. Must be taken as a co-requirement Psy 349 and both must be passed in the same semester with a "C" or better in Psy 150. Must be taken in Junior year. Co-requisite: Psy 349. 3 hours. Fall Only.

## Psy 349 Research Methods in Psychology

A laboratory course to be taken concurrently with Psy 348. 1 hour. Co-requisite: Psy 348. Fall only.

## Psy $350 \quad$ Behavioral Statistics

An introduction to experimental design, descriptive and inferential statistics as well as computer statistical analysis. Math 122 recommended. Prerequisite: Psy 348 and Psy 349. Any student substituting Math 207 for Psy 350 must obtain permission through the Psychology Department and must take one additional upper-division elective in Psy-chology."C" or better. 3 hours. Spring only.

## Psy 352 Physiological Psychology

An introduction to the basic biological foundations of behavior. This course examines neuroanatomy and neurophysiology, and explores how these principles help explain behavior. Bio 110 or 224 or 240 strongly recommended. Prerequisite: Psy 150 and upperdivision standing. 3 hours.

## Psy 390 Junior Seminar

An intensive and advanced review of issues central to the discipline of psychology which asks students to reflect critically on knowledge gained in previous psychology classes. Prerequisite: "C" or better in Psy 348/49, Upperdivision standing and instructor's consent. Open to Psychology majors declaring in Junior Year. Spring only. 3 hours.

## Psy 420 Special Topics in Psychology

Seminar course focusing on topics of special interest to students and faculty, such as Adolescence, Aging, Women and Violence, Personality, Self-Concept, and Intelligence. Prerequisite: Psy 150 and Junior standing and permission of the instructor. May be repeated for credit as topic varies. 3 or 4 hours.

## Psy 425 Basic Clinical Techniques

This class introduces students to various theories of psychotherapy as well as an assortment of therapeutic techniques. Prerequisite: Psy 311 (or permission of the instructor). 3 hours.

## Psy $444 \quad$ Psychobiography

An effort 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, 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 and upper-division standing (or permission of the instructor). 3 hours.

Psy 490 Senior Thesis Proposal (499 track)
An intensive writing and research preparation course to be taken by those planning to do Advanced Senior Research (Psy 499), this class emphasizes the selection of an area of interest from which to develop an independent research project. Students formulate, draft, and submit a Senior Thesis Research Proposal. Prerequisite: "C" or better in Psy 350 and 390 and permission of instructor. 3 hours. Fall only.

## Psy 491 Senior Thesis Proposal (non-499 track)

An intensive writing and research preparation course to be taken by those not planning to enroll in Advanced Senior Research (Psy 499). This class emphasizes the selection of an area of interest from which to develop an independent research project. Students formulate, draft, and submit a Research Proposal. Prerequisite "C" or better in Psych 350 and 390, permission of instructor, and pre- or co-requisite of any other 400 level Psych class. 3 hours. Spring only.

## Psy 499 Advanced Senior Research

A class for select senior students who wish to actualize the thesis proposal completed at the conclusion of Psy 490. Prerequisite: "C" or better in Psy 490 and departmental GPA of 3.25 or better, and overall GPA of 3.00 or better. Students not satisfying these pre-requisites may petition the department for admission to the class. 3 hrs. Spring only.

## SOCIOLOGY, ANTHROPOLOGY AND SOCIAL WORK

Vernon L. Bates, Chair, Professor<br>of Sociology<br>Andrea Doerfler, Assistant Professor of Social Work<br>Cheleen Mahar, Professor of Anthropology<br>Sarah R. Phillips, Associate Professor<br>of Sociology<br>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 interdisciplinary program 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.

## Goals for the Majors

Students who successfully complete one of the majors 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

$\begin{array}{ll}\text { Anth } 101 & \text { Introduction to } \\ & \text { Anthropology ...................... } 3\end{array}$
Anth 301 Research Methods in Anthropology, OR
Soc. 300 Methods of Social Research .. 4
Soc. 301 Social Statistics ................... 4
Anth 470 Senior Research Seminar ... 1
Anth 471 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 ....... 9-10

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37 \text { or } 38
$$

## MINOR IN ANTHROPOLOGY

## Requirements

Anth 101 Introduction to Anthropology 3
$\begin{array}{ll}\text { Anth } 301 & \text { Research Methods in } \\ & \text { Anthropology ..................... } 4\end{array}$
Electives ...................................................... 9
Choose three courses in Anthropology (at least two must be upper-division courses.)

## 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 ... |
| :---: | :---: |
| Soc 470 | Senior Research Seminar . |
| Soc 471 | Independent Research . |
| Additional courses in sociology which must include at least three $300-l e v e l$ courses. $\qquad$ 18 |  |
| Note: Soc.W 300, 301, 470, and 472 cannot be used for the Sociology major. |  |
|  | 40 |
| 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: SocW 300, 301, 470, and 472 can not be used for the Sociology minor.

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 <br> Psychology ......................... 3 |
| :--- | :--- |3

Psy 180, Psy 318 or Psy 340 (a Developmental Psychology course) ....................... 3
Psy 311 Abnormal Psychology ....... 3
SocWk/Psy 425Basic Clinical and Counseling Techniques .... 3

Either Soc 101 or Soc 102 ............................ 3
Soc 101 Introduction to Sociology
Soc 102 Social Problems
SocWk Principles of Social Work .. 3
Either Anth 300 or Soc 300 $\qquad$ .4

Anth 300 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 470 Internship Seminar ............ 1
SocWk 472 Social Work Internship ...4-14
Two of the following courses ................ 6
Soc $204 \quad$ 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.
47-57

## 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. Mahar. 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. Mahar.

## 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. Mahar. 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. Mahar

## 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. Mahar. 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. Mahar. 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. Mahar. 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 413 or consent of instructor. 3 hours. Mahar. 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 homgenization of food. Of particular importance are the cultural influences on cuisine as food plays a social, symbolic and politicaleconomic role across cultures. Prerequisite: Junior Standing. 4 hours. Mahar and Wilkes. 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. Staff

## 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. Staff.

## 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. Staff.

## SocWk 201 Principles of Social Wrok

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 opportunites in the field of social work and will gain volunteer experience in a social service agency. 3 hours. Doerfler.

## Soc $204 \quad$ 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. Steiger.

## 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. Bates.

## 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. Bates.

## 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. Phillips.

## Soc $217 \quad$ 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. Phillips.

## 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. Bates.

## 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. Phillips.

## 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. Phillips.

## SocWK 300 Micro Social Work Practice

This course focuses on the change process at the three levels of social work practice (individual, family and group). Students will acquire specific skills which will assist them in assessing, contacting, working with and terminating some clients. Prerequisite: SocWk 201 and Junior standing. 4 hours. Doerfler

## 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. Prerequisite: SocWk 201 and Junior standing 4 hours. Doerfler

## 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. Bates. 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. Bates. 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. Bates. Biennially.

## PACS 313 The Sociology of Violence

 (See PACS in section on Special Academic programs.) Counts toward the major in Sociology. 3 hours. Bates. 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. Steiger. 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. Steiger. 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. Phillips.

## 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. Bates/Phillips

## 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. Steiger. Biennially.

Soc $350 \quad$ 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.

## 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 homgenization of food. Of particular importance are the cultural influences on cuisine as food plays a social, symbolic and politicaleconomic role across cultures. Prerequisite: Junior Standing. 4 hours. Mahar and Wilkes. biennially.
## Soc $414 \quad$ 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. Steiger. Biennially.

## SocWk 470 Social Work Research Seminar

The focus is to assist students in selecting an area of interest from which to draw an independent evaluation research project for social work. Students will do an initial literature review to develop a theoretical framework and to develop a research methodology. This course is to be taken before or concurrently with Soc 471 or Soc 472. Prerequisite: 19 hours in Social Work required courses including Soc 300 or Anth 301 and Soc 301. 1 hour. Doerfler

## SocWk 472 Social Work Internship

An internship in a social service agency may be chosen as one alternative to fulfill the requirement for social work majors. Interns will be required to meet with the instructor, with other social work interns, and with those students doing evaluation research, in a seminar setting (Soc 470) to discuss their work in this field placement. Prerequisite: 2.75 G.P.A., 19 hours in Social Work required courses including Soc 300 or Anth 301 and Soc 301, and Soc 470. 4-14 hours. Doerfler

## Soc $470 \quad$ Senior Research Seminar

The focus is to assist students in selecting an areas 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. Staff. Annually in the Fall. Pass/ No Pass. Staff.

## Soc 471 Independent Research

Student-conducted individual research/theoretical project. Prerequisite: 20 hours of Sociology including Soc. 470. 3 hours. Faculty supervised

## STUDY ABROAD

In accordance with Pacific University's mission statement and goals, Pacific University study abroad programs provide students with a unique opportunity to develop skills and knowledge which 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 which 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 some 24 different study abroad sites in China, Ecuador, France, Germany, Japan and Mexico, to name a few.

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 available in cooperation with Central College of Iowa and University of Minnesota. 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. In China, Pacific has sent students in recent years to Guanxi University in Gualin and has an exchange agreement with East China Normal University in Shanghai and Central University for Nationalities in Beijing.

## 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 is 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 Januaryearly 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, in the ELI House.

## CHINESE

Pacific has an exchange agreement with East China Normal University (ECNU) in the dynamic city of Shanghai. Students study intensive Chinese language and culture while at ECNU and represent Pacific University in a variety of ways during their semester of academic year of study in China.
A sister school relationship provides students with an opportunity to study in Gualin at Guanxi University. Famous for its natural rock formations, Gualin is a smaller setting in which to study. Intensive Chinese language classes are offered along with classes for international students. Students are generally placed in dormitories, however, limited homestays can be arranged.
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

## Scotland and Ireland

Pacific has direct enrollment study abroad options at the University of Edinburgh in Scotland and at six colleges and universities in the Irish Republic and Northern Ireland. These institutions in Scotland and Ireland offer almost every course of study in a challenging academic environment. In all cases, a GPA of at least 3.0 is required to be considered.

## Wales

Students who choose to study in Wales attend Trinity College, a small liberal arts college in Carmarthen, a rural setting with opportunities for many outdoor activities, including canoeing, backpacking, camping, hiking, and rock climbing. Students may enroll in any of Trinity's five divisions.

Students are housed in the University's residence halls along with their Welsh classmates.

## England

Students who participate in the Central College program in London enroll in British Studies courses and seminars on special topics in the arts, literature, and social sciences. Students may also enroll in up to two courses at the University of North London. Almost all students also participate in the internship program, choosing from more than 50 internships in a wide variety of fields.

## The Netherlands

Less then 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 on 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 on this program.

## FRENCH

Four French programs are available to Pacific students in Paris, Montpellier, Lyon, and Poitiers through Central College, University of Minnesota, and OUS, respectively.
The Central College program in Paris includes a two-week intensive French language program in Nice, prior to the start of classes at the Sorbonne. For the rest of the year or semester, students are housed in residence halls located throughout the student sections of Paris.
The OUS year long 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 year long 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 culturalexperience at the intermediate and advanced language levels at the Universit Paul Valery. Montpellier is located in southern France, ten miles away from the Mediterranean. Classes are held at the Universit Paul Valery 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 and Central College.

## Germany

The year-long OUS program in the state of Baden-Würtemberg, 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, Tubingen, 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.

## 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.

## 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 yearlong OUS programs in Tokyo at Waseda University and Aoyama Gakuin University. At both universities, intensive Japanese is offered as well as a variety of courses, taught in English, in Japanese history, literature, politics, economics, and culture. Course work at Aoyama Gakuin, however, is especially focused on business, economics, and politics. At Aoyama Gakuin housing is provided in University dormitories with Japanese roommates; at Waseda University home stays with Japanese families are provided.

## 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 a one-semester program each fall 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 Cat-lica 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 year-long 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.

## Spain

A year-long or semester program is available through Central College at the University of Granada in southern Spain. The Central College program begins with a three week orientation. The orientation includes intensive Spanish and cultural orientation culminating in a language placement exam. Throughout the orientation and the semester, students are housed with Spanish host families. In Granada, students may choose from three different course options, including regular classes at the University of Granada for those who have passed the language placement exam. The Granada program also incorporates the opportunity for service-learning projects in the local area.

## 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

A variety of 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 Vietnam, India, Barcelona, Spain, Switzerland, London, England, Germany and Costa Rica. For a schedule of upcoming Winter III programs, contact the International Programs Office at 503-352-2913.

## THEATRE

Jennifer Camp, Instructor of Dance*
Greta Christensen, Costume, Make-up Instructor*

Barbara Stalick, Instructor of Dance*
David Thorpe, Technical Director*

## *adjunct faculty

At Pacific, the theatre experience is offered to all students regardless of background or major. As 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. Students in theatre-related fields such as the performance arts of dance and music, or literature, television, film, and advertising, may enroll in theatre courses to develop skills which can best be practiced in theatre productions. Dual majors are often advised.

At Pacific, students are encouraged to become involved. Acting, directing, scenic and costume construction, design, playwriting, lighting and makeup are but a few of the variety of 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. A broad spectrum of high-quality theatrical production experiences

- Appreciation for the Theatre Arts; plays, dance, and musical theatre.
- Human interaction and social issues from historical and foreign cultures.
- Dramatic literature: serious drama; historical and social drama; comedy.
- Theatrical spectacle.

2. Theatrical production:

- Performance: acting; dance musical theatre; improv and public speaking.
- Production management.
- Directing and producing.
- Design: scenography, costume, audio and lighting.
- Playwriting.

3. Real-world work experience for careers after college:

- Team and small group projects.
- Practical problem solving.
- Management, budget and project organization.
- Personal and group communication.
- Aesthetic decision making
- Time and stress management
- Publicity and audience development

4. Preparation for careers in television, film, theatre, advertising, arts management, public relations, etc.
5. Preparation for graduate study and careers in teaching.

## MAJOR IN THEATRE

## Requirements

Core courses
Thea 110 Acting I: Fundamentals ..... 3
Thea 120 Technical Theatre ................ 3
Thea 150 Theatre Company: Performance $\qquad$
Thea 151 Theatre Company: Technical and Organizational ............ 1
Thea 215 Intro to Scene Design ......... 3
Thea 225 Makeup ............................... 1
Thea 330 Directing I: Fundamentals ... 3
Thea 350 Theatre History or Thea 360 Modern Theatre .................. 3
Thea 495 Thesis (Directing, play writing, choreography, design or performance Learning Contract required) $\qquad$
Arts Electives (6 hours from
the following) $\qquad$
Art $\quad 110,210,218,226,235,270$
MedA Television, film or audio production
Danc 105, 121, 126, 205, 221, 400 (all 1 hour)
Mus 101, 111, 112, 211, 212
Upper-Division Electives (9 additional hours [6 in Theatre] chosen from the following or others with the approval of Theatre Advisor) $\qquad$ .. 9

310, 326
MedA Television, film or audio production upper division classes

| Danc | 400 |
| :--- | :--- |
| Eng1 | $310,323,340$ |
| Fren | 304 Drama |
| Mus | 321-324 History <br> Span |
| Thea | 304 Drama <br> 310, 325, 360, 370 or <br> approved individual <br> Study Topics |
|  | Tud |

Total credit-hours: 36-39

## MINOR IN THEATRE

## Requirements

Thea 110 Acting I................................ 3
Thea 150 Theatre Company: Performance (P/N) ...................... 1
Thea 151 Theatre Company: Technical and Organizational ( $\mathrm{P} / \mathrm{N}$ ) ... 1
Thea 120 Technical Theatre ................ 3
Thea 330 Directing I: Fundamentals 3
Thea 350 Theatre History ................... 3
Electives: Six upper-division hours in
Theatre Arts in consultation with the Theatre Director .. 6

Total credit-hours: 20

## WORLD LANGUAGES \& LITERATURES

Victor Rodriguez, Chair, Associate Professor of Spanish

Susan U. Cabello, Professor of Spanish
Nancy Christoph, Associate Professor of Spanish

Lorely French, Professor of German
Sandra Garcia, Instructor of Japanese*
Kazuko Ikeda, Associate Professor of Japanese
Atsuko Kurogi, Assistant Professor of Japanese

Gabriella Ricciardi, Assistant Professor of French and Spanish

Katya Monge-Hall, Instructor of Spanish
Sara Steinert Borella, Associate Professor of French

Mariana Valenzuela, Instructor of Spanish
Jingzhu Wu, Instructor of Chinese

* indicates part-time

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 eleven full-time faculty members and one part-time member. Six 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 student 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 the appropriate section in this catalog.)

All courses in the department are open to nonmajors having 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 Sara Steinert Borella.

## 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
Japanese, Spanish) ................................... 30
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

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 $300-l e v e l$ 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
4 Upper-Division classes at Pacific, at lease 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

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)
(one of these classes may be waived, if student studies abroad for the whole year)
Upper-Division hours
earned overseas 12-16
*Span/Educ 465, 466, 467 do not count toward the major
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 Frenchspeaking world.

## Requirements

Fren 101-102 .............................................. 6
Fren 201-202 .............................................. 6

| Upper-Division hours earned overseas in a French-speaking country ........... 12-16 |  | Note: Check individual departments for course descriptions and course schedules for semesters offered. |  |
| :---: | :---: | :---: | :---: |
| 2 French classes numbered 300 at Pacific $\qquad$ 6 |  |  |  |
|  |  | Fren 494/495 Thesis, normally written in French (2 credits/semester) $\qquad$ |  |
| 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 |  |  | 46-53 |
| Anthropology: |  | A student majoring in French Studies must complete all courses with a grade of Cor better. |  |
| Anth 340 | Symbolism, Myth and Ritual $\qquad$ 3 |  |  |
| Anth 400 | Transnationalism in a <br> Postmodern World $\qquad$ | MAJOR IN | ERMAN STUDIES |
| Art: |  | Rationale: To provide a viable major that emphasizes Germany and the Germanspeaking world. |  |
| Art 271 | History of Western Art II: <br> Renaissance through <br> Impressionism ..................... 3 |  |  |
| Art 272 | History of Western Art III: | Requirements |  |
|  | Post Impressionism Through | Ger 101-102 | 6 |
|  | 20th Century .................... 3 | Ger 201-202 | 6 |
| English/International Studies: |  | Upper-Division hours earned overseas in <br> a German-speaking country ............. 12-16 |  |
| Engl 332 | Introduction to Linguistics .. 3 |  |  |
|  | OR | 2 German classes numbered 300 <br> at Pacific $\qquad$ 6 |  |
| Engl 343 | Studies in Criticism and Theory $\qquad$ 3 | 1 German class numbered 400 at Pacific $\qquad$ |  |
|  |  | 3 classes from the following list of related classes: $\qquad$ 9-12 |  |
| IS 201 | Intercultural |  |  |
| History: |  | (Must include at least 6 credit hours taken at Pacific) |  |
| Hist 206 | France from Caesar to <br> Napoleon $\qquad$ | English/International Studies: |  |
| Hist 235 <br> Hist 301 | Europe Since 1945 ................. 3 | Engl 332 | Introduction to Linguistics .. 3 |
|  | The Medieval World: | OR Engl 343 | Studies in Criticism and Theory $\qquad$ 3 |
|  | 400-1500 ............................ 3 |  |  |
| Hist 333 | Imperialism and <br> Decolonization $\qquad$ .4 | IS 201 | Intercultural <br> Communications .3 |
| Hist 335 | Era of World War I ............. 4 | Engl 220 | Literature and Human Concerns: The Holocaust |
| Hist 338 | The Era of the French Revolution $\qquad$ 4 |  | History: |
|  |  | History: |  |
|  | Charlemagne and his Era.. 3 | Hist 232 | The Holocaust ................... 3 |
| Media Arts: |  | Hist 235 | Europe Since 1945 ............. 3 |
| MedA 40 | Film Topics* ....................... 3 | Hist 301 | The Medieval World: 400-1500 $\qquad$ |
| Philosophy: |  |  |  |
| Phil 412 | Major Philosophers* ......... 4 | Hist 302 | Renaissance, Reformation, <br> Revolt: 1500-1800 $\qquad$ |
| Phil 420 | Seminar in Philosophy* .... 4 |  |  |
| (*will depend on topic) |  |  |  |
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| Hist 335 | Era of World War I . |
| :---: | :---: |
| 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 <br> Twentieth Century .. 3 |
| Philosophy: |  |
| Phil 208 | Late Modern Philosophy $\text { 1750-1900 ............................. } 3$ |
| 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. |  |
| Ger494/49 German (2 | Thesis, normally written in redits/semester) $\qquad$ 4 |

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 18

## German:

Ger 101-102 Introduction to German Language and Culture ....... 6
Ger 201-202 German Conversation and Grammar Review $\qquad$6

Upper-Division work in German ............ 6 $\overline{18}$

## Japanese:

Japn 101-102 Introduction to Japanese
Language and Culture....... 6
Japn 201-202 Intermediate Japanese ....... 6
Upper-Division work in Japanese6

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\overline{18}
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## Spanish:

Span 101-102 Introduction to Spanish Language and Culture..
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

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

| 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 |
|  |

5th year/MAT students can 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.

## English as a Second Language (ESL)

ESL classes are available only to students enrolled in the English Language Institute.

## ESL 101 Academic Skills: Strategies for College Learning

Students are introduced to and receive practice in the skills and strategies necessary to succeed in the American college classroom. Areas of focus include critical thinking, close reading, active listening, note taking skills, research methodologies, and using citations. Only available to students of English as a second language. 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 will focus on the history and culture of the United States. Only available to students of English as a second language. Prerequisites: Completion of intermediate ELI courses. 1.5 credit hours.

## ESL 103 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. Only available to students of English as a second language. Prerequisites: Completion of intermediate ELI courses. 1.5 credit hours.

## ESL 104 Advanced Composition and Grammar

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. Only available to students of English as a second language. Prerequisites: Completion of intermediate ELI courses. 1.5 credit hours

## French (Fren)

## Fren 101-102 Introduction to French

 Language and CultureThe 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 upperdivision 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: $\mathbf{1 6 3 7}$ 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 B ll, 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, DŸrrenmatt, 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: 2300 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: 2300 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: 2300 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: 2300 level courses, or equivalent proficiency. 3 hours. (G)

## Japn $485 \quad$ 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 Introduction to Latin
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. 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: Garcia 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, Garc'a Lorca, Juan Ram-n Jim nez, Vicente Alexandre, 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, Garcia 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 politica;" " moesica Afro-hispana," "Latin-Jazz," "Rocken 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 <br> 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 490/491Thesis 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.

## REGISTRATION POLICIES

## Registration Requirements

In keeping with Pacific's philosophy regarding the student-advisor relationship, prior to registration all students are required to meet with their advisor and together develop the student's schedule of classes.
New students meet with their assigned 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 student's academic record. 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 any student who is delinquent in meeting their financial obligation to the University.

## Measles Vaccination Policy

The State of Oregon requires all full-time college students born after 1956 to have had two doses of the measles vaccine. Students who have not satisfied this requirement by November 1 of Fall semester (March 15 for Spring semester) will not be permitted to pre-register for future classes until they are in compliance. 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 appropriate Academic Standards 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 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 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 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 Dean.
In the 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 |
| H | ............ Pass-A equivalent |
| HP | ............ Pass-B equivalent |
| L | $\qquad$ 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 $\mathrm{P} / \mathrm{N}$ 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 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 appropriate Dean or Program Director.

## Retro-Active Credit

There is a one year time limit for granting retro-active 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 normally 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 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.

## 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 will 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 will be placed on Warning. Students on warning, after meeting with their faculty adviser, may be asked to consult with the Assistant Dean, who can help students get the help they need.
The academic progress of students receiving an academic "warning" who have received a "warning" for any previous semester at Pacific University will be reviewed by the Standards and Advising Committee to etermine if their status should be changed to "probation" or "suspension".
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 on Warning 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. Students on Warning whose records show significant improvement, or whose circumstances are unusual, 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, 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 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 catalog 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, during the sophomore year, they should be working with a Faculty Advisor in their major area. Problems with advising should be taken to the Dean's office.
Students who expect to apply to Pacific programs in Teacher Education, Optometry, Physical Therapy, Occupational Therapy, or Professional Psychology 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.
Individual 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 cannot 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 can be earned.

## Progress Assessments

At the beginning of a student's senior year, or upon student request, the Registrar's Office will prepare an academic evaluation showing progress toward meeting graduation requirements. Students are expected, however, to know what the requirements are.

## 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, check out 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. They 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 which 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 or 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 which 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 they harm the perpetrator, who fails to give him/herself the opportunity to develop ideas and skills.
5. They are unfair, because they give the cheater an advantage over other students who are relying on their own work and knowledge.
6. They are unfair because they weaken 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.
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/submitted for another or previous course without proper acknowledgement and/or approval of the instructor 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 (by the instructor) 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" (which must be signed before joining the University's electronic network).

## 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 are imposed that are 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 broaches 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 appropriate Dean or Director. 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 consult with the Asst/Assoc 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 Asst/Assoc Dean. Consultation with the Asst/Assoc Dean will occur immediately after having consulted with the student(s) involved. Either the faculty member or the Asst/ Assoc 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/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 Asst/ Assoc 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 Asst/Assoc Dean, along with a brief written report of the incident and a recommended sanction.
b. The Asst/Assoc 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 Asst/Assoc 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 Asst/Assoc Dean to the Standards and Advising Committee for a hearing. The Asst/ Assoc 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 Asst/Assoc Dean will send a warning to the student alerting him/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 Asst/Assoc Dean will bring the case to the Standards and Advising Committee, who will consider whether to impose collegelevel action (suspension or dismissal) due to the multiple nature of the offense.
c. The Asst/Assoc Dean may request that the Standards and Advising Committee consider college-level action for a single case of misconduct if he/she believes that it is warranted.

## University Level Appeals

Final appeals for all cases of academic misconduct will be heard by the University Standards and Appeals Board. 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.

## Things Students Can Do 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 whathis/her expectations are.
4. Utilize a recognized handbook on the citation of sources. Many professional organizations have style manuals for this purpose for example, 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/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 incidents of cheating you have observed to the professor.

# 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, 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 and movies, and also
houses Cosmic Coffee 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 forty 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 offices 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.

Membership on the Forensics Team includes membership in Pi Kappa Delta, a National Honorary Fraternity. In addition to competing, students are expected to help with the administration of the "Нар" 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.
- The Pacific Review, a literary magazine, includes poetry, graphics, articles, photography, short stories, and other items contributed by students. It is published twice a year and is sponsored by the English Department.
- KPUR, the campus radio station, is broadcast to residence halls and the University Center. Student-managed and operated, KPUR, 94.5 FM offers music, news, and special programs - all provided by students.
- 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

Confidential individual, group and couples counseling are available to all Pacific University students. Concerns commonly addressed include adjustment to college or professional programs, depression, anxiety, grief and loss, past or current trauma, relationship concerns, academic problems, family of origin issues, identity exploration, body image, substance abuse, eating issues and stress management. The Counseling Center is open Monday thru Friday during
the academic year and has modified summer hours. Students dealing with urgent concerns may walk in during the noon hour when no appointment is needed. Referrals to community resources may be made when additional services are required to meet the psychological needs of students. For more information on hour and services available, call the Student Counseling Center or go to www.pacificu.edu/studentlife/ counselingcenter.
Student Counseling Center
2011 Cedar Street, Forest Grove
503-352-2191

## 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, TacoTime, a grill, a deli bar. And an upscale coffee / cyber caf (The Boxer Bistro).
ARAMARK also offers, for the commuter students, faculty/staff and part-time students a Declining Balance program. 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

The Student Health Center is staffed by licensed nurse practitioners who provide general health care and prescriptions for medication when appropriate. A\&S students enrolled for 6 or more credits are eligible for health center services. The health center provides treatment for a wide variety of issues including acute illness/injury such as colds, flu, bronchitis, ear/eye/urinary tract/ skin infections, acne, headaches, allergies, etc. In addition, the Health Center can treat stable chronic illness such as, hypertension, diabetes, asthma, depression, etc. Family planning (PAPs, birth control, emergency contraception and pregnancy testing) is also available and free family planning is
available for those who qualify. The following immunizations are available: MMR, Hepatitis B, Hepatitis A, Tetanus booster, and Tuberculosis Screening. The Health Center provides physicals, study abroad physicals and sports physicals. All office visits are free, however there are charges for some medications, supplies, immunizations, and lab tests. All records in the Student Health Center are confidential. The Health Center is open Monday through Friday during the academic year and has modified summer hours. For more information on hours or available services please call the Health Center or go to www.pacificu.edu/ studentlife/healthcenter/.

## Student Health Center 2011 Cedar Street, Forest Grove 503-352-2269

## Housing and Residence 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 residence staff help students make smoother 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 residence life program.
The University offers accommodations in four 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 with college, with personal and academic concerns, and in mediating and solving residence life problems. Tutors are available
in each hall and Network Assistants are available in Waler and Clark. Students in these halls live in single, double, triple, quad rooms or suites.
The fourth residential area, Vandervelden Court, offers apartment-style living in 37 four-bedroom suites with living and cooking facilities in each unit. The facility is designed primarily for junior and senior undergraduate students and offers more independent living.

## Residence Policies

Because residence hall living is an important factor in the process of social and academic growth, it is necessary for all students to be aware of the policies that apply to living in the halls:
Freshmen and sophomores 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 the parent of a dependent child;
3. are 21 years of age; or
4. live full-time with their parent(s) and/ 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 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. Returning students cancellation of a room reservation before June 30 will result in a $\$ 50$ refund; cancellation after June 30, will result in forfeiture of the entire $\$ 100$.

## 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 offcampus housing placement but does have a Housing Network web site to assist students looking for housing off-campus and/or roommates. Extensive lists of apartment complexes and links to other housing resources are also present. The site provides individuals with an option to post information to the web if they are looking for housing, seeking a roommate, or have a place to rent. Students who utilize 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.

## International Programs

The Office of International Programs serves as a campus liaison for all international students, scholars and staff in matters of immigration and support services. Both the Director and Assistant Director are well versed in F-1, J-1, H-1B regulations and can provide information regarding travel, general maintenance of immigration status, and work authorization both during and after studies in the U.S.

## Learning Support Services for Students with Disabilities

The Learning Support Services for Students with Disabilities Office is designed to arrange for specialized academic support services or modifications to the learning environment for students with disabilities. In general, the University will work with students to provide a variety of services that will accommodate their specific needs. The following services are available: test accom-
modations; extended test time; distraction free testing; test readers; alternative format; adaptive technology; text on tape; and notetakers. All services can be adapted to accommodate individual needs. The University requires appropriate documentation of a disability in order to better enable students to meet the established academic standards.
It is the responsibility of each student to inform the Director of Learning Support Services of his or her status and particular issues. Students are encouraged to work proactively with the faculty and staff in developing strategies for accommodation. To contact the Director, call 503-352-2107.
The University complies with the Americans With Disabilities Act of 1990 (ADA). Questions or complaints about University policy should be directed to the Dean of Students.

## Multi-Cultural 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, the University Switchboard, the Boxer Card (student ID), 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 and movie tickets, and Boxer Briefs. Computer terminals are provided outside the PIC for students to access the Web and their accounts. The office of the Director of the Pacific Information Center may be found here as well.

## OTHER UNIVERSITY SERVICES

## Alumni Relations

The purpose of the Pacific University Alumni Association, formed in 1892, is to extend and deepen the social and intellectual experience of student's years at Pacific, and to further the welfare of Pacific. All graduates of Pacific University and all former students having completed a year here and who have expressed a desire to retain ties with the University are considered alumni. The Alumni Relations Office provides services to the alumni of Pacific University including group travel opportunities, alumni gatherings and class reunions, as well as organizing events that bring current students and former students together for seminars, cultural events and social functions. For more information contact the Alumni Office in the Abbott Center, 503-352-2828 or 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 drugstore 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 503-3522230 or by e-mail at cps@pacificu.edu.

## Career Development Center

Located in Chapman Hall, the Career Development Center's mission is to provide students and alumni with the resources, support, and opportunities needed to realize their vision of career success and service to a changing community, nation, and world. The staff possess an exceptional complement of expertise, experience, and creativity in responding to student career needs. Students should take full advantage of the wealth of resources and programs here supporting career exploration and planning, job and internship search, graduate school search and applications, employer research, resume and interview preparation, and related topics. Just a few of the nearly 100 career programs offered each year include alumni career panels and internship fairs, as well as an annual spring career fair featuring over 150 employers in addition to representatives of graduate and professional programs. A few recent additions to the ever-growing program schedule: Sophomore Majorfest, which provides information in a creative format to assist with selection of majors and career options; Junior

Junction, a festive noon-time program featuring timely information on internships, graduate school preparation, and career exploration; the Health Professions Expo, which facilitates information exchange among healthcare practitioners and students; and the Senior and Alumni Job Search Series, which brings these groups together for a series of evening programs featuring networking opportunities and professional seminars on job search. Figuring prominently among these resources as well is the Alumni Career Network, a database profiling about 1000 Pacific alumni interested in lending career networking assistance to students and graduates of the University. In concert with the faculty, the staff of the Career Development Center excel at working with students individually to ensure that they receive the very best career support and preparation possible to enable them to launch successful careers upon graduation. The Career Development Center also manages the Federal WorkStudy Program.

## 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 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 utilize 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, working with senior citizens, helping environmental agencies, teaching in literacy programs for Hispanic families, and sponsoring a variety of projects on the Navajo Reservation each January.
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.

## Internship Program

Pacific University's Internship Program reinforces the University's commitment to an outstanding education and service to the surrounding communities. Recognizing the value of a healthy marriage between classroom and experiential learning, Pacific aggressively helps students to develop opportunities to apply knowledge and skills gained in the classroom to a professional work situation for a sustained period. Typically, internships are developed in concert by the student, a faculty advisor, a participating organization, and the Internship Coordinator. Internships are available in a variety of settings - large corporations, non-profit organizations, government agencies, and small businesses - depending on the needs of the student. The Career Development Center maintains a rich array of opportunities in collaboration with alumni and other professionals in the area, across the country, and around the world.
To be eligible for a for-credit internship, a student must have upper-division standing and normally at least a 2.7 GPA. Internships require careful and early planning with a faculty advisor and must be approved by the student's academic advisor, the department chair, and the Dean of Arts and Sciences. To receive academic credit, the student must first complete a learning contract, obtained in the Registrar's Office.

Interns typically keep a daily journal analyzing work experiences and recording personal reflections, write a paper that integrates course material and on-the-job experience, assemble a portfolio of materials developed during the internship, and give a presentation on the internship to the Pacific community upon completion of the experience.
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.

## Library

Named after the first graduate of Pacific University, the Harvey W. Scott Memorial Library offers students, faculty, and staff a diverse, carefully selected collection of nearly 250,000 volumes, over 1,000 current journal subscriptions, 21,000 online journals, and Internet access to information and documents from around the world. The Library also houses a select collection of United States government documents, some dating back to the early 1800s. The Margaret McChesney Scott Music Library is home to an extensive collection of music scores, LPs, and CDs. Pacific's membership in the Orbis Cascade Alliance gives students, faculty, and staff easy access to more than 25 million volumes in over 30 academic libraries in Washington and Oregon. The Library's catalog is easily accessible through the Internet. Access to the 150 plus research databases are available with appropriate authentication. There are a number of networked public access terminals available for use in the Library as well as a wireless environment for personal laptops.
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. Course-related instruction is available to help students learn search strategies and to develop their academic information literacy skills to prepare them for their professional careers.

Librarians are available at the Reference Desk and by appointment to help students with their research needs. For additional information about the Library and its services, please visit the Library's website at http:/ /library.pacificu.edu/

## Malheur Field Station

Pacific University participates in Malheur Field Station as part of a consortium of 15 colleges and universities in Oregon, Washington and Idaho.
Malheur Field Station is located in the high desert country, 32 miles south of Burns, Oregon, on the western edge of the Malheur National Wildlife Refuge. An astounding range of wildlife habitats in the region generates more than 840 species of vascular plants, 280 species of birds, and 50 species of mammals. Steens Mountain, a large fault block which rises to 9,700 feet, lies along the southeast boundary of the refuge. Desert landforms, outstanding volcanic features, massive uplifts carved by ancient glaciers, numerous 9,000 to $10,000-$ year-old archeological sites, cattle baron ranches, pioneer settlements, mines and ghost towns are just a few of the rich discoveries nearby.
The field station has dormitories and trailers, food service, laundry facilities, a store, laboratory and classroom facilities, a small library and a museum.
Courses in such areas a ethnobiology, ecology, natural history, biology, ornithology, geology, art, astronomy and photography are offered during the summer. Pacific students are encouraged to take classes for credit offered by Malheur Field Station. Information about classes and use of the field station is available from The Director, Malheur Field Station, HC 72, Box 260, Princeton, OR 97721, telephone 541-4932629, e-mail mfs@burnsnet.com. Information can also be obtained by visiting the web site at www.geol.pdx.edu/MFS.

## 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 to explore the effects of prejudice, the meaning of acceptance, and the importance of celebrating our common humanity. Programs include: teacher training workshops; a Speakers Bureau of survivors, liberators, and other witnesses; the Shirley Tanzer Oral History Collection including the remembrances of over 60 Holocaust survivors who settled in Oregon; an annual middle and high school symposium bringing students together to focus on Holocaust related topics; 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 and Intramurals

The home for athletic activities at Pacific is the newly remodeled and 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.
Admittance to on-campus Boxer athletic events including basketball, 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.

Pacific University provides opportunities for participation in the sport of Handball 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 Intramural Program provides the campus community with the opportunity to participate in athletic events on a nonvarsity 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 inner tube water polo and softball.

## 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 cheerfully arranged by appointment through the Office of University Relations at 503-352-2211.

## Registrar

The Registrar's Office at Pacific University strives to provide excellent service to students, faculty and staff through maintenance of academic records and 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 (TIC) is operated by University Information Services (UIS). Resources are available to support the effective use of computing and information technology to meet student academic needs. Some of the services that are managed through UIS include: computer assistance, network services, telephone services, data processing support, educational technologies, media services, online resources, technology training and 24-hour student access computer labs.
Several computer labs are available at Pacific University offering both PC and Macintosh computers with various academic software packages as well as research and communication tools including e-mail,
the World Wide Web, Telnet, FTP, and an international collection of academic reference material. Print resources are also available on a cost-per-copy basis.
The TIC provides answers to student, faculty and staff with technology concerns and questions over the phone, by e-mail and in person. ${ }^{\circ}$ For information about what kind of computer to bring to Pacific University, please refer to www.pacificu.edu/uis/ services/purchases/.

## Tutoring and Study Skills

All students who want assistance with their course work are encouraged to use the Writing Resource Center, House Tutors, and the Math/Science Center.
The Writing Resource Center, UC 104, provides free consultation service to students who desire assistance with their writing tasks. Trained peer consultants are available on a drop-in system. The Center is open to all students Sunday through Thursday evenings during the school year, with limited hours during Winter Three.
House Tutors also provide tutoring, in the Residence Halls, for a wide range of Arts and Sciences subjects, plus workshops on time management and study skills.
The Math and Science Center, located in UC 103, provides free tutorial service to students from 7-10 pm every Sunday through Thursday. Qualified tutors are available on a walk-in, first-come, first-served basis.

## University Relations

The main offices of the Division of University Relations are located on the third floor of Marsh Hall while the offices of the Department of Alumni Relations are located on the east side of campus in the Abbott Center at the intersection of University and Cedar streets. The division coordinates fundraising, alumni activities and conferences and events at Pacific. University Relations is also responsible for public relations, including the University websites and the dissemination of news and public information. Printed communications such as the Pacific magazine, academic catalogs and publicity brochures originate in University Relations. This group distributes information about

Pacific to the public and also maintains contact with local and national media regarding happenings at Pacific. It sends news of Pacific students to hometown media and operates a Speakers Bureau to facilitate faculty speakers for area civic groups. The annual Tom McCall Forum public affairs debate, the Performing Arts Series and Commencement are coordinated by University Relations staff.

## 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 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 Graduate and Professional Schools Page www.pacificu.edu/ academics/grad/index.cfm

Pacific's Library Page www.pacificu.edu/library/index.html

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 <br> Arts \&

 Sciences
## 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)
Assistant 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

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)
Associate 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

## Susan U. Cabello (1975)

Professor of Spanish
B.A., University of Arizona, 1966
M.A., University of Arizona, 1971

Ph.D., University of Arizona, 1978

## 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
Patricia B. Cheyne (1994)
Associate Professor of Art
B.F.A., University of Hartford, 1978
M.A., 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 Collin, 1970

Ph.D., Colorado State University, Fort Collin, 1974
James O. Currie Jr. (1972)
Distinguished University Professor of Chemistry
B.S., Ohio State University, 1965

Ph.D., University of Washington, 1970

## David DeMoss (1993)

Associate Professor of Philosophy
B.A., Oklahoma Baptist University, 1981
M.A., Baylor University, 1983

Ph.D., University of Virginia, 1987
Andrea Doerfler (1999)
Instructor of Sociology
B.A., Linfield College, 1986
M.S., Columbia University, 1988

## Russell A. Dondero (1974)

Professor of Politics and Government
B.A., Whitman College, 1964
M.A., University of Minnesota, 1968

Ph.D., University of Minnesota, 1973
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
Linda B. Gallahan (1993)
Associate Professor of Psychology
B.S., College of Charleston, 1985
M.A., University of Southern California, 1990

Ph.D., University of Southern California, 1993

## Bogdana Georgieva (2001)

Assistant Professor of Mathematics
B.S., Lewis and Clark College, 1994
M.S., University of Oregon, 1997

Ph.D., Oregon State University, 2001

## Michael Geraci (1999)

Assistant Professor of Media Arts
B.A., Pacific University, 1991
M.S., University of Oregon, 2002

Joel W. Gohdes (2002)
Assistant Professor of Chemistry
B.A., Carleton College, 1985

Ph.D., University of California, Berkeley, 1991
Christine Guenther (1998)
Associate Professor of Mathematics
B.A., Stanford University, 1989
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Ph.D., University of Oregon, 1998
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Associate Professor of Environmental Science
B.S., Indiana University Southeast, 1987
M.S., University of Louisville, 1990

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Sc., M., Brown University, 1991
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M.A., San Francisco State University, 1973
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Ph.D., Purdue University, 1971
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M.A., New School for Social Research, 1995
M.A., University of Iowa, 1998
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## Kazuko Ikeda (1983)

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Assistant Professor of Exercise Science
B.S., University of North Carolina at

Wilmington, 1997
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Richard I. Jobs (2001)
Assistant Professor of History
B.A., Murray State University, 1991
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## Kevin E. Johnson (1994)

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M.S., University of Washington, 1987

Ph.D., University of Washington, 1991

## Shereen Khoja (2002)

Assistant Professor of Computer Science B.S., King Abdul Aziz University, 1997
M.S., University of Essex, UK, 1998

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## Chris Lane (1999)

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M.S., University of Oregon, 1993

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M.A., University of California, LA, 1981

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## N. Charles O'Connor (1985)

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Earlham College, B.A., 1994
University of Illinois, M.L.S., 2002

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## Amy Beaupre

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Associate Professor of Mathematics
B.S., Calcutta University, 1951
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B.S., Pacific University, 1951
O.D., Pacific University, 1952
M.S., Pacific University, 1954

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B.A., St. Anselm's College, 1960
M.A., Indiana University, 1962

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B.A., Mississippi State, 1936
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B.S., Portland State University, 1963
M.S., Oregon State University, 1968

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Associate Professor of Music
B.M., MacPhail College of Music, 1942
B.S., Bemidji State College, 1945
M.M., Eastman School of Music,

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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

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Professor of Mathematics
B.S., Lewis and Clark College, 1957
M.S., Oregon State University, 1961

Ed.D., Oklahoma State University, 1967

## Edwin S. Collier

Associate Professor of Theatre
B.S., Lewis and Clark College, 1964
M.S., Portland State University, 1970

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Professor of English
A.B., University of Massachusetts, 1952
M.A., University of Michigan, 1953

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Professor of Education
M.A.T., Lewis and Clark College, 1965

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B.A., Beloit College, 1956
M.A., Northwestern University, 1957

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B.A., Malta University, 1959

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J.C.D., Lateran University, 1963

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Professor of Physics
B.A., Wellesley College, 1966
M.A., Boston University, 1968

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## Joseph K. Frazier

Professor of History
B.A., Reed College, 1950

Albert M. Freedman<br>Professor of Music<br>B.M., VanderCook School of Music, 1938<br>A.B., Central College, 1939<br>M.M., Roosevelt University, 1947<br>D.M.E., Indiana University, 1972

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Professor of Optometry
B.S., Pacific University, 1958
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President Emerita
B.A., Douglas College, Rutgers University, 1964
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Ph.D., The American University, 1974

## W. Thomas Griffith

Distinguished University Professor of Physics
B.A., Johns Hopkins University, 1962
M.S., University of New Mexico, 1964

Ph.D., University of New Mexico, 1967

## Leigh Hunt Jr.

Professor of Political Science
B.A., Yale College, 1947
M.A., University of Minnesota, 1949

Ph.D., University of Minnesota, 1968

## William T. Jordan

Professor of Chemistry
B.A., Portland State University, 1964
M.A., Portland State University, 1968

Ph.D., University of Pittsburgh, 1972

## Marshall M. Lee

Professor of History
B.S., Whitman College, 1967
M.A., Claremont Graduate School, 1969

Ph.D., University of Wisconsin, Madison, 1974

## Leonard Levine

Distinguished University Professor of Physiology and Pharmacology
B.S., Rutgers University, 1950

Ph.D., Columbia University, 1959

## Nira Levine

College of Optometry
Director of Student Services,
Professor of Psychology
B.S., Hunter College, 1953

Ed.D., University of Virginia, 1969

## William Ludlam

Professor of Optometry
B.S., Columbia University, 1953
M.S., Columbia University, 1954
O.D., Massachusettes College of Optometry, 1964

## James V. Miller

President Emeritus
B.A., Indiana Central College, 1942
M.Div., United Seminary, 1946

Ph.D., Boston University, 1955
LL.D., Otterbein College, 1972
LL.D., Indian Central College, 1979
Gary V. Mueller
Professor of Art
B.S., University of Oregon, 1957
M.S., University of Oregon, 1962
M.F.A., Cranbrook Academy of Art, 1971

John L. Neff
Professor of Dance
Indiana University, 1947
Edna McRae School of Dance, 1951
Gertrude Shurr-May O'Donnell School of
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Clinical Professor of Optometry
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B.A., University of California, Santa Barbara, 1950

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B.S., University of California, 1955
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B.A., Pacific University, 1943
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Ph.D., University of Oregon, 1959

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O.D., Illinois College of Optometry, 1948

## Richard D. Septon

Professor of Optometry
B.A., Concordia College, 1956
O.D., Pacific University, 1960
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A.B., University of Hawaii, 1947
D.B., Federated Theological Faculty, 1948
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## Seth Singleton

Professor of Politics and Government
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M.A., Yale University, 1963

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Fellowship, Pacific Cataract and
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Alumni Relations ................... 503-352-2211
Business Office ........................ 503-352-2128
Career Development Center ..... 503-352-2877
Catalogs ................................... 503-352-2218
Conference Services ............... 503-352-2111
Dean of the College of
Arts and Sciences .................. 503-352-2201
Dean of Students .................... 503-352-2212
Education, School of ...................503-352-2205
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Financial Aid and
Scholarships ......................... 503-352-2222
Information Services .............. 503-352-2944
International Programs ......... 503-352-2913

## Academic Calendar 2004-2005

## 2004 FALL SEMESTER

## August

$\begin{array}{cc}\text { August 22-25 } & \text { Optional Trips for } \\ \text { New Students }\end{array}$
August 23-24 Faculty Conference

August 25 New Student Orientation
August 27 Transfer Orientation
August 30 Classes Begin

## September

September 3 Last Day for New Student Registration
September 6 Labor Day No Classes
September 13 Last Day to Add
Courses
September 13 Last Day to Drop Courses With No Record

## October

October 8 No classes for College of Arts and Science

## November

November 1 thru
Nov 19 Advising for Winter III and Spring Semester

November 8 Last Day to Withdraw from Courses

November 24 Begin Thanksgiving Holiday, Noon

November 25, 26 Thanksgiving

## December

December 3 Last Day of Classes
December 6,7 Final Examinations
December 8 Reading Day
December 9,10,11 Final Examinations

## 2005 WINTER III

## January

January 4 Winter III Term Classes Begin<br>January 6 Last Day to Add Courses<br>January 6 Last Day to Drop Courses With No Record<br>January 17 Last Day to Withdraw from Courses<br>January 17 Martin Luther King Day (classes will be held)<br>January 24 Winter III Final Exams<br>January 31 Conferral of Fall Degrees

## 2005 SPRING SEMESTER

January 27 International Student Orientation

January 28 New Student Orientation
January 31 Spring Classes Begin

## February

February 4 Last Day for New Student Registration

February 11 Last Day to Add Courses

February 11 Last Day to Drop Courses With No Record

## March

## March 21 thru 25 Spring Break <br> April

April 4 thru 22 Advising for Fall Semester

April 8 Last Day to Withdraw from Courses

April 20 Senior Projects Day (no Arts and Science classes)

May
May 10 Last Day of Classes
May 11 Reading Day
May 12, 13, 16, 17, 18
Final Examinations
May 21 Commencement

## 2005 SUMMER TERM

May 31 Classes begin for Term I
Classes conclude on the date printed in the class schedule

June 27 Classes begin for Term II

Classes conclude on the date printed in the class schedule

July 25 Classes begin for Term III

Classes conclude on the date printed in the class schedule

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## NOTES

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