The mission of the Pharmaceutical and Chemical Sciences Graduate Program (PCSP) is to prepare Doctor of Philosophy and Master of Science graduates for working in increasingly complex and integrated research in the pharmaceutical, chemical and biotechnological environment.

Our program offers students five research focus areas through four departments (see back). In addition to core courses, students also receive general training in industrial process and methodology, laboratory management, risk management and safety, instrumentation and laboratory techniques, statistics and experiential design, ethical and legal aspects of scientific inquiry, exposure to the basic, applied and clinical sciences related to the pharmaceutical industry and experience in professional presentations and data summaries.

Students selected for a graduate assistantship receive a stipend and tuition remission (see back for financial aid information).
Focus Areas

BIOANALYTICAL AND PHYSICAL CHEMISTRY
Investigation of chemical, biochemical and biomedical questions with the help of a broad range of computational and experimental tools including state-of-the-art instrumentation, synthetic methods and molecular techniques. Offered through the Department of Chemistry.

CHEMICAL SYNTHESIS, DRUG DISCOVERY AND DESIGN
Discovery and development of new chemical entities as potential drugs; new methods of chemical synthesis, structural elucidation and efficacy evaluation. Offered in conjunction with the Department of Chemistry and Department of Pharmaceutics and Medicinal Chemistry.

DRUG TARGETING AND DELIVERY
Design and application of novel delivery systems for optimizing drug delivery to specific organs or other biological targets as well as pharmacokinetics. Offered through the Department of Pharmaceutics and Medicinal Chemistry.

MOLECULAR-CELLULAR PHARMACOLOGY AND TOXICOLOGY
Focuses upon investigation of the mechanisms by which drugs and other bioactive chemicals affect cellular processes. Molecular techniques are applied to studies in cell culture as well as laboratory animals. Offered in conjunction with the Department of Physiology and Pharmacology and the Department of Pharmaceutics and Medicinal Chemistry.

PHARMACOECONOMICS AND HEALTH CARE OUTCOMES AND SERVICES
Designed to promote the development of scholars by providing the knowledge and analytical skills necessary to evaluate the delivery and use of pharmaceutical/health care products and services, thereby improving medication use and patient-specific outcomes, as well as reducing health care costs. Offered through the Department of Pharmacy Practice.

Degree Requirements
The minimum requirements are 32 units and thesis for the M.S. degree and 45 units and dissertation for the Ph.D. degree.

Financial Aid
Stipends and tuition remission are awarded to students on a competitive basis. Stipends are awarded for students serving a graduate or research assistantship. Tuition remission pertains to full or partial tuition benefits awarded to graduate assistants to help defray tuition costs. Many entering graduate students receive sufficient tuition remission to pay for the entire cost of tuition. Earnings from the graduate stipends can be used to pay for rent, groceries and other living expenses.

Admission Requirements
The GRE® General Test is required. The minimum required scores are 1100 (Q+V) and 3 (A). We accept scores on the new scale (taken on or after Aug. 1, 2011) equivalent to the minimum required scores of the old scale. Visit http://www.ets.org/gre/revised_general/ for more information. Scores can be no older than 5 years old.

A bachelor’s degree with an average GPA of 3.0, or higher, in all upper-division coursework.

The TOEFL (Test of English as a Foreign Language) is required for applicants whose native/principle language of instruction is not English. The minimum acceptable TOEFL scores for admission are 550 (paper-based), or 80 (online). For those applicants applying for a graduate assistantship, the minimum TOEFL scores are 575 (paper), or 90 (online). TOEFL scores can be no older than 2 years old.

NOTE: Pacific also accepts IELTS (International English Language Testing System) scores in lieu of TOEFL scores. A minimum of 6.5 is acceptable for admission and for those seeking a graduate assistantship, a score of 7 or higher is required.

An essay or personal statement focusing on the applicant’s career objectives and personal ideals. Applicants must state which of the five focus areas he/she has the greatest interest. Grammar and writing skills are an important part of the evaluation.

Three letters of recommendation. Letters of recommendation can be no older than 1-year-old.

Official transcripts required from all universities attended.

International students must provide supporting bank documentation which can be no older than 6 months old. Certification of Finances can be submitted at time of application or upon notification by PCSP that admission has been approved.

International students who attended schools outside of the U.S. must submit an evaluation of their academic records. Transcripts must be reviewed by one of the following outside evaluation agencies: WES (World Education Services), www.wes.org or ECE (Educational Credential Evaluators), www.ece.org. Please check with the evaluation agency for specific document requirements.

Apply now: go.Pacific.edu/PharmChem