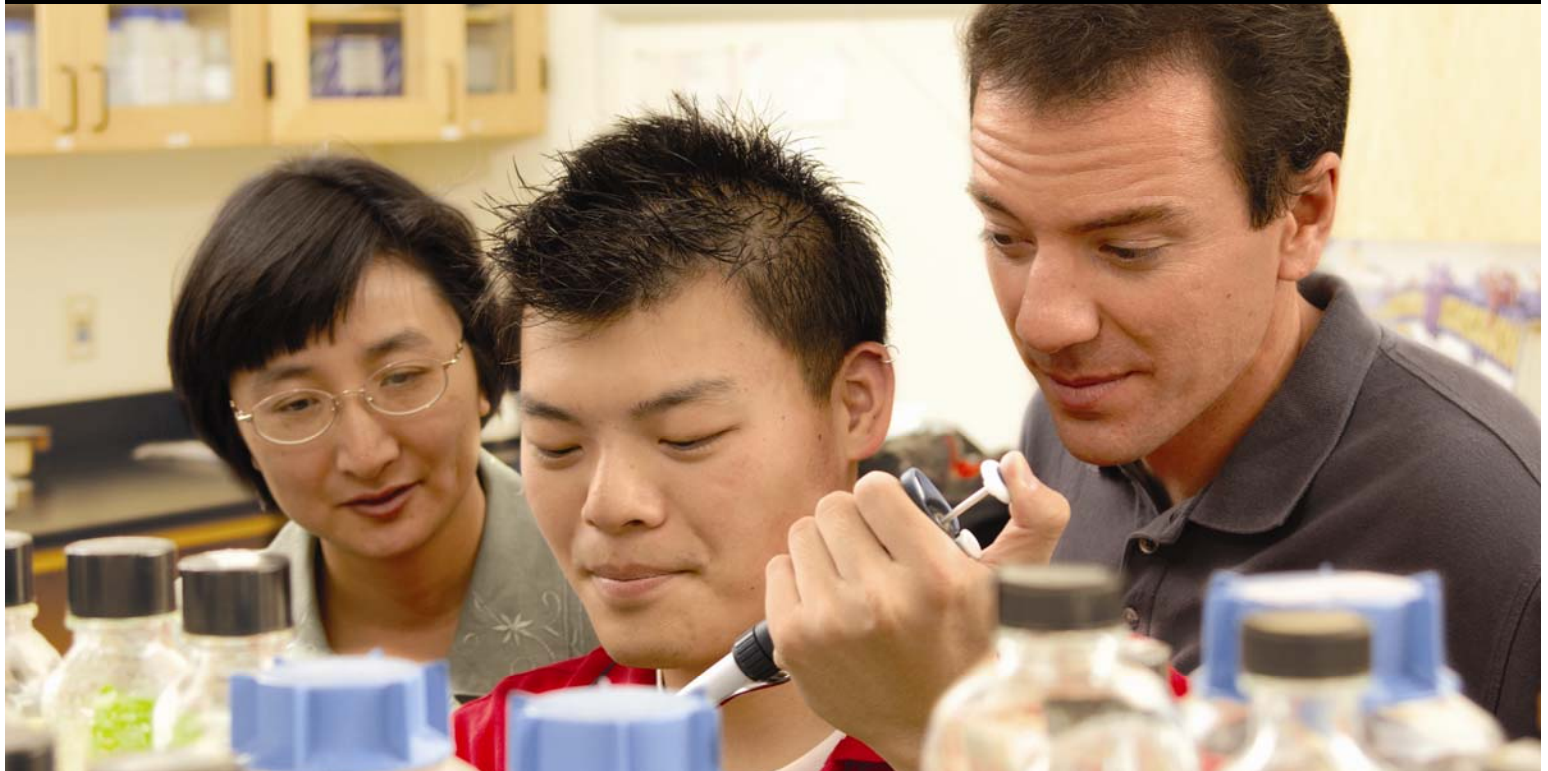


Biological Sciences



STUDY OPPORTUNITIES

The graduate student in Biological Sciences may pursue a broadly based program in biology or may specialize in areas such as molecular and cellular biology, physiology or ecology.

Students work closely with faculty members in research and in teaching during the academic year and in summer. Some biology graduate students also participate in research in the Thomas J. Long School of Pharmacy and Health Sciences.

Our faculty strengths are in the area of molecular and cellular biosciences, ecology, physiology and paleontology.

MASTER OF SCIENCE IN BIOLOGICAL SCIENCES

The Department of Biological Sciences offers a program leading to a Master of Science degree. The program provides the student with a broad background in the biological sciences that serves as preparation for entry into advanced degree programs, employment in biotechnology industry, teaching positions at the high-school and community college levels or entry into health-related professional programs.

Biology students at Pacific benefit from close-personal interactions with dedicated faculty members that have a passion for teaching, research and learning; rich experiential learning opportunities; innovative and cutting-edge research; and state-of-the-art teaching and research facilities.

Approximately 25-30 students are enrolled in the program. Full-time students can complete the M.S. degree requirements in two years.



FACULTY

Gregg D. Jongeward, 1996, Co-Chair, Ph.D., California Institute of Technology.

Craig A. Vierra, 1995, Professor and Co-Chair, Ph.D., University of California, Riverside.

C. Gregory Anderson, 2002, Assistant Professor, Ph.D., University of Tennessee, Knoxville.

Mark S. Brunell, 2002, Associate Professor, Ph.D., University of Arizona.

Janet Koprivnikar, 2007, Assistant Professor, Ph.D., University of Toronto.

Kirkwood M. Land, 2004, Assistant Professor, Ph.D., University of California, Los Angeles.

Leah Larkin, 2008, Assistant Professor, Ph.D., University of Texas, Austin.

Stacy A. Luthy, 2007, Assistant Professor, Ph.D., University of Miami, RSMAS.

Geoffrey Lin-Cereghino, 2000, Associate Professor, Ph.D., University of California, San Diego.

Joan Lin-Cereghino, 2000, Associate Professor, Ph.D., University of California, San Diego.

W. Desmond Maxwell, 1999, Associate Professor, Ph.D., Queen's University of Belfast.

Richard Tenaza, 1975, Professor, Ph.D., University of California, Davis.

Eric O. Thomas, 1993, Associate Professor, Ph.D., University of California, Berkeley.

Srinivas Venkatram, 2006, Assistant Professor, Ph.D., University of Kentucky.

Lisa A. Wrischnik, 2002, Associate Professor, Ph.D., University of California, San Francisco.

Steven Anderson, 1970, Professor Emeritus, Ph.D., Stanford University

Lee Christianson, 1967, Professor Emeritus, Ph.D., University of Arizona.

Alice S. Hunter, 1970, Professor Emeritus, Ph.D. Columbia University.

Dale W. McNeal, 1969, Professor Emeritus, Ph.D., Washington State University.

Graduate Course Offerings

CODE	TITLE	UNITS
BIOL 221	Immunology.....	4
BIOL 224	Cancer Biology and DNA Repair	4
BIOL 234	Comparative Physiology.....	4
BIOL 244	Developmental Biology.....	4
BIOL 247	Medical Microbiology	4
BIOL 251	Parasitology	4
BIOL 253	Cell Biology.....	4
BIOL 255	Biological Electron Microscopy	4
BIOL 265	Embryology and Development.	4
BIOL 279	Evolution	4
BIOL 291	Independent Study.....	2, 4
BIOL 293	Special Topics.....	3, 4
BIOL 295	Graduate Seminar	4
BIOL 297	Graduate Research	1-6
BIOL 299	Thesis.....	2, 4

In addition, students are encouraged, where appropriate, to select courses offered by other departments or units of the University, such as Chemistry or course in the Thomas J. Long School of Pharmacy and Health Sciences.

Tuition Remission and Teaching Assistantships

Teaching stipends and tuition remission are awarded to students on a competitive basis. Teaching stipends are awarded for students that serve as teaching assistants in courses that contain laboratory components, e.g. general biology, genetics, anatomy, physiology and microbiology. Tuition remission pertains to units that the department provides to graduate students to help defray the cost of tuition. For many entering graduate students, individuals receive sufficient tuition remission to pay for the entire cost of tuition. Earnings from the teaching stipends can be used to pay for rent, groceries and other cost of living expenses.

Facilities

The Biological Sciences Center, August 2008, is ~60,000 square feet with two stories. It offers state-of-the-art teaching environments as well as cutting-edge research laboratories that facilitate student learning, graduate opportunities and collaborative interactions between the faculty and students.

Contact Information

OFFICE OF GRADUATE STUDIES

Cerena Sweetland-Gil, Director of Graduate School Operations

Telephone 209.946.2765 • Fax 209.946.2858

Admission Requirements

- A bachelor's degree in Biological Sciences equivalent to the baccalaureate program in biology at University of the Pacific. Candidates holding a bachelor's degree in a major other than biology may be accepted provided deficiencies in biology are made up.
- GRE scores (general subject test) less than five years old.
- Minimum GPA of 3.00. (In some rare instances, lower GPAs can be accepted). The last 60 units of the undergraduate degree can be used for this calculation.
- 2 letters of recommendation from individuals who can attest to academic background, professional experience and/or personal qualities. Those seeking admission to the Education Leadership Track must have one letter of recommendation from a school administrator.
- One-page personal statement that includes: reason for pursuing graduate study in Biological Sciences, commitment to the profession, objectives and plans for graduate study.

Degree Requirements

The minimum requirements for the M.S. degree are: 32 units including thesis; four graduate courses (only one of which may be cross-listed with an undergraduate course and excluding research and independent study); and three electives (courses numbered 100 or above, Independent Study and/or Research). Students may count a maximum of six (6) units of research and/or independent study toward their degree.