



COLLEGE OF SCIENCE



Biological Sciences
Chemistry
Computer Science
Geological Sciences
Mathematics
Physics



BIOLOGICAL SCIENCES

Biology is a dynamic field that is changing the way we live, from advances in genetic technology and medicine to learning about the changing environment. The Biological Sciences Department offers majors in biology, biotechnology, environmental biology, zoology, botany and microbiology.



No matter which major they choose, students learn broad principles and specialized topics that prepare them for high quality jobs or for medical and graduate schools. The courses are laboratory-based, where students learn by doing under the guidance of faculty dedicated to student learning and mentoring. Small classes and



laboratories with state-of-the-art equipment sustain good teaching and provide opportunities for student research. Students can explore and develop their talents and interests in a supportive environment of teaching excellence. A graduate program is offered leading to a Master of Science degree in Biology. The area of specialization is determined on an individual basis.

- For more information, visit www.csupomona.edu/biology or call 909/869-4038.

CHEMISTRY

The Chemistry Department offers a flexible program of studies designed to prepare students for careers in private industry and government as well as entry to professional schools and graduate study. Four rigorous options are offered with concentration in



specific interdisciplinary areas. The Chemistry option is certified by the American Chemical Society. The Chemical Science option emphasizes biochemistry and



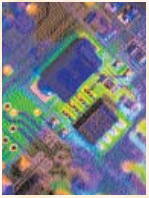
biosciences and prepares students for professional schools and interdisciplinary work. The Industrial Chemistry option focuses on industrial careers. The Molecular Modeling and Simulation option prepares students for cutting edge computational work in chemistry and biochemistry. The department also offers a certificate option in Paint and Coatings Technology.

The department offers a graduate program that leads to a Master of Science in Chemistry. This thesis-based degree incorporates direct research and advanced study. Qualified graduate students also have the opportunity to gain financial support as graduate teaching associates.

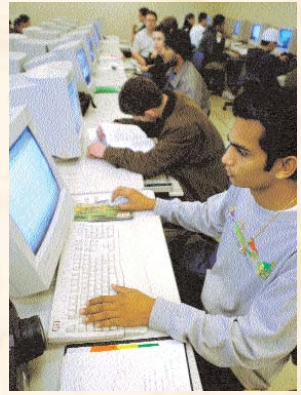
- For more information, visit www.csupomona.edu/chemistry or call 909/869-3653.

COMPUTER SCIENCE

The Computer Science Department blends practice and theory in the study of computer hardware and software. Cal Poly Pomona's program provides an excellent foundation in computer programming, languages, computer architecture and systems software, and in the design, analysis and application of many types of algorithms. Progress through this diverse curriculum leads to up-to-the-minute topics such as network



security, human-computer interaction, wireless communication networks and biomedical informatics. The real-life learning situations and project-oriented coursework offered transfer seamlessly to industry environments. The department also offers a graduate program leading to a Master of Science degree in Computer Science.



- For more information, visit www.csupomona.edu/cs or call 909/869-3440.

GEOLOGICAL SCIENCES

The Geological Sciences Department offers an undergraduate program that emphasizes a polytechnic, applications-oriented approach to learning and career training. The department offers two options leading to a bachelor's degree – Geology and Integrated Earth Studies (IES).



The Geology major is a comprehensive curriculum focusing on earth materials and processes. It is ideal for students pursuing careers in geotechnical areas, such as hydrology, environmental remediation, geological engineering or graduate studies in geology. The IES degree is interdisciplinary in design. It stresses today's heightened interest in earth's physical environment and addresses the demand for careers in environmental studies and teaching or entry into advanced degree programs. Dedicated faculty lead a strong academic program that balances classroom theory and laboratory applications with fieldwork. This teaching philosophy has been successful in producing graduates with broad capabilities ready to confront new challenges in a wide range of professional careers.



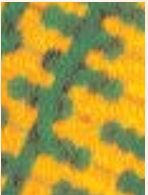
- For more information, please visit geology.csupomona.edu or call 909/869-3454.

MATHEMATICS

The Mathematics Department offers three undergraduate programs designed to serve a variety of interests. The Pure Mathematics option prepares students to teach math at the high school level. The Applied Mathematics and Statistics options prepare students for employment in industry or government. All math students have the opportunity to choose elective courses that will prepare them to continue their studies at a graduate level.



The department offers two graduate programs, Pure Math and Applied Math. These programs prepare students for industry and government jobs and teaching math at a community college level. Graduate students have the opportunity to teach introductory math courses here on campus.

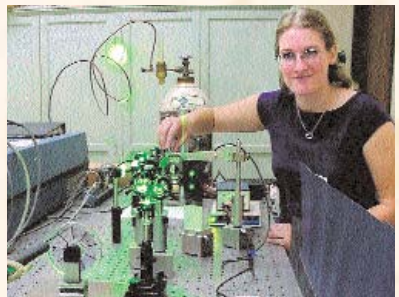


The department also offers programs for students enrolled in credential programs to satisfy subject matter competency and supplementary authorization requirements.

- For information, visit www.csupomona.edu/math or call 909/869-3142.

PHYSICS

The Physics Department prepares students for careers as physicists in industry, government, university laboratories and as physics teachers. Through suitably chosen electives, students may emphasize the interdisciplinary areas of biophysics, astrophysics, computational physics, health physics, geophysics, physical chemistry, engineering or mathematics.



Physics majors enjoy relatively small upper division classes spanning environmental and theoretical aspects of classical and modern physics. They each complete a senior project under faculty supervision. Additionally, they are encouraged to participate in other independent or group study and work on research activities sponsored by individual faculty members.

- For more information, visit www.csupomona.edu/physics or call 909/869-4014.

CEEMaST

The Center for Education and Equity in Mathematics, Science and Technology is the vehicle through which the College of Science at Cal Poly Pomona serves the educational community.



CEEMaST is committed to improving mathematics, science and technology education for all learners. The program connects area teachers and administrators with university faculty so they can work together to improve teaching and learning. The program also assists area schools and districts in identifying and solving context specific problems related to the curricula, and teaching and evaluation of science, mathematics and technology. Embedded in the work of CEEMaST is the establishment of dialogue and positive action regarding multicultural and gender-equitable education issues. Through workshops, seminars, conferences and funded projects, CEEMaST is working to provide teachers and their districts with the knowledge, support and tools to implement change.



- For more information, visit www.ceemast.csupomona.edu or call 909/869-4552.

CO-OP

The Cooperative Education Program is designed for Cal Poly Pomona students who want to obtain paid practical experience while pursuing a degree. Co-op prepares undergraduate and graduate students for entry into the workforce by offering opportunities for practical hands-on work prior to graduation. This on-the-job



training gives Co-op students a competitive edge over others who have not had previous experience in their field of study. Many Cal Poly Pomona students have benefited greatly from their participation in the Co-op program and, because of their experience, have found themselves several steps ahead of their peers when starting their careers.

- For information, visit www.csupomona.edu/coop or call 909/869-3680.

SEES

The Science Educational Enhancement Services program promotes diversity among students majoring in one of the College of Science departments. The SEES program offers advising, a study center, workshops, an orientation course, Bioquest, mentoring programs and research opportunities.



- For information, visit www.csupomona.edu/college_based_programs/SEES or call 909/869-3676.



CAL POLY POMONA

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“The College of Science offers our students opportunities that challenge them and build the skills they will need for successful careers. Our nationally-recognized faculty, our well-equipped laboratories, and our ‘learn by doing’ philosophy help us deliver hands-on learning in small class settings. Our students graduate ready to succeed in careers in research, education, industry, or government.”

*Donald O. Straney
Dean, College of Science*

