



CAMPBELL
UNIVERSITY
COLLEGE OF ARTS AND SCIENCES

GENERAL SCIENCE (MINOR ONLY)

COLLEGE OF ARTS AND SCIENCES

BIOLOGY & CHEMISTRY

GENERAL SCIENCE (MINOR ONLY)

1-800-334-4111 • WWW.CAMPBELL.EDU

THE CAMPBELL PROGRAM

Students interested in the sciences may acquire a General Science minor through the Biology and Chemistry departments. The General Science minor not only recognizes students who have completed study in physics, chemistry and biology, but it also enables them to meet minimum admissions requirements for a variety of professional schools.

The General Science minor is also for students who are not Science majors but would like to pursue studies at a professional school such as medical, dental, veterinary or physician assistant. Any student who couples a General Science minor with a non-science major will still complete many of the courses and science competencies needed to succeed in professional schools in the Allied Health arena. The General Science minor also makes students an attractive candidate for many different jobs.

THE CAMPBELL APPROACH

We strive to present a balance between the theoretical and the practical by spending equal amounts of time in lecture and lab. Although the lower-level labs average about 20 students, upper-level labs are taught by experienced faculty members and typically have fewer students to ensure ample opportunity for student-faculty interaction. Some of the extensive resources majors have access to include:

- Three analog video microscopes and three digital video microscopes
- Multimedia classrooms and laboratories
- 24 wireless laptop computers, printers and course related software
- Eight mobile UV/VIS spectroscopy workstations
- Two mobile digital multimedia presentation stations
- LI-COR 4300 DNA Analysis System
- Five laminar flow hoods, two CO₂ incubators, three PCR thermocyclers and four inverted phase contrast scopes
- DNA Sequencer
- Electrophoresis equipment for biochemical techniques
- Chromatographic equipment for separation and analysis
- 12 pH meters and three gas chromatographs (GC)
- Four high pressure liquid chromatographs (HPLC) and six scanning spectrophotometers
- One fourier transform infrared spectrophotometer (FTIR), nuclear magnetic resonance spectrometer (FTNMR) and an atomic absorption spectroscopy (AA)

For more information about the program contact:

1-800-334-4111, ext. 1730 • 910-893-1730

biology@campbell.edu

THE CAMPBELL FACULTY

Our faculty's strong academic credentials are complemented by vast teaching expertise in a wide variety of subjects. Their research interests are also diverse, encompassing signal transduction pathways, molecular genetics, population dynamics and ecology, horticulture, plant tissue culture and bioengineering, taxonomy, canine and ruminant digestive physiology, and immunity to infectious diseases.

As importantly, you will find faculty members are approachable, friendly and regularly available for "walk-in" discussions. You will have an adviser who can relate to your specific career goals. Students are also encouraged to get to know professors and fellow majors outside class through the Walker Biology Club and Pre-Medical/Allied Health Honor Society.

THE CAMPBELL STUDENT

We are seeking serious students who want to be successful in attaining their goals. Generally speaking, our students are well-grounded in trigonometry, biology, chemistry and physics before arriving at Campbell. Successful students in our program usually have an SAT score above 1000, a high school unweighted GPA over 3.0 and a real aptitude for science and mathematics.

About one-fourth of our graduates immediately or ultimately seek an advanced degree. Another 20% teach while the remainder work in government and such private sectors such as healthcare and biotechnology.



REQUIREMENTS FOR A MINOR IN GENERAL SCIENCE

PHYS 221, 222 or 251, 252; CHEM 111, 113, 227, 215 or 228; BIOL 111 and one of BIOL 201, 202, 203, 204, 220, 221, 223, 224, 226, 241.

SAMPLE LIST OF COURSES

PHYS 221, 222 General Physics I and II
PHYS 251, 252 Fundamentals of Physics I and II
CHEM 111, 113 General Chemistry I and II
CHEM 215 Quantitative Analysis
CHEM 227, 228 Organic Chemistry I and II
BIOL 111 Basic Biology
BIOL 201 Cellular & Molecular Biology
BIOL 202 Botany
BIOL 203 Zoology
BIOL/ENVS 204 Introduction to Oceanography
BIOL 220 Human Anatomy and Physiology I
BIOL 221 Human Anatomy and Physiology
BIOL 223 Human Anatomy and Physiology II
BIOL/ENVS 224 Vertebrate Natural History
BIOL/ENVS 226 Ornithology
BIOL/ENVS 241 Field Botany

The Campbell Advantage

Today's biological scientists need capabilities extending beyond the lab and classroom. For example, they must be well-grounded in ethics, research, writing and technology. Our program provides an exceptionally solid foundation for future success, whether you work toward a professional degree or enter the work force after graduation. We're convinced Campbell is uniquely qualified to give you the foundation on which to build your specialization, because...

- We combine a core curriculum with a vast array of courses and resources.
- We have a faculty committed to outstanding teaching and to helping you achieve your goals.
- We are a university dedicated to a quality liberal arts education, free enterprise and our Christian Mission.