



Welcome to the Charles E. Schmidt College of Science at Florida Atlantic University. The Charles E. Schmidt College of Science provides educational and research opportunities for more than 5,800 undergraduate and more than 500 graduate students from around the world, through the departments of Biological Sciences, Chemistry & Biochemistry, Geosciences, Mathematical Sciences, Physics and Psychology.

The college offers bachelor's, master's and doctoral degrees in all areas of science. It is a pioneer in the development of new, interdisciplinary programs, including a Bachelor's degree in Neuroscience and Behavior, Master's degree in Environmental Science, and Ph.D. programs in Integrative Biology, Complex Systems and Brain Sciences. Students have the opportunity to work with faculty in the areas of bioinformatics, cancer research, cryptology/computer security, developmental systems, environmental science, geo-information science, hydrology and water resources, marine and ocean sciences, natural products chemistry, neuroscience, medical imaging and space-time physics, as well as in other areas of science.

The College offers the following robust B.A. and B.S. programs:

- Biological Sciences
- Chemistry
- Biochemistry
- Environmental Science
- Geosciences
- Mathematics
- Neuroscience and Behavior
- Physics
- Psychology

The college offers seven undergraduate certificates in Actuarial Science, Biotechnology, Environmental Science, Geographic Information Systems, Pharmacy Technology, and Statistics.

Graduate certificates are offered in Environmental Restoration, Medical Physics, Neuroscience, and Remote Sensing.

We also offer Post-Baccalaureate Pre-Health Profession Certificates for students who want to pursue a career in medicine, dentistry, or veterinary medicine. This includes comprehensive support for students interested in pursuing a career in medicine, dentistry or veterinary medicine and has led to an 80% acceptance rate of students utilizing the Pre-Health Professions Office.

Other Opportunities for Science Majors include:

- FAU's partner organization, Harbor Branch Oceanographic Institute, provides opportunities for students interested in marine science to spend a "Semester by the Sea" at Harbor Branch.
- Biotechnology partnerships have been formed with Scripps Florida, the Max Planck Florida Institute and the Torrey Pines Institute for Molecular Studies.
- Physics majors can take classes via distance learning with the Los Alamos National Lab.
- Master's and doctoral degrees are offered by all of the departments in the college.
- Exceptional students may earn both the B.S. and M.S. in 5 years through programs in Biological Sciences, Environmental Science, and Mathematics
- The MED DIRECT Program is a collaborative effort between The College of Science and The College of Medicine that creates a special opportunity for undergraduate students. Students admitted into this program will be guaranteed* a seat in FAU's College of Medicine provided they maintain the required program standards. Applicants should be high school seniors who demonstrate a strong interest in medicine, a high level of academic ability, a passion for service and commitment to volunteerism.

Helpful Links

Office of Undergraduate Admissions
www.fau.edu/admissions

Office of the Registrar
www.fau.edu/registrar

Financial Aid
www.fau.edu/finaid

Scholarships
www.fau.edu/admissions/freshmen/scholarships.php
click on Scholarships

Housing and Residential Life
www.fau.edu/housing

Student Accessibility Services
www.fau.edu/sas

Office for Student Orientation
www.fau.edu/orientation

Center for Learning and Student Success (CLASS)
www.fau.edu/CLASS

Learning Community Programs
www.fau.edu/LearningCommunity

FAU Athletics
www.fausports.com

For more information write or call:

Charles E. Schmidt College of Science

777 Glades Road
P.O. Box 3091
Boca Raton, FL 33431
561.297.3700
561.297.3388 (fax)

www.science.fau.edu



(Rev. 2017)

FLORIDA ATLANTIC UNIVERSITY



CHARLES E. SCHMIDT COLLEGE OF SCIENCE





Admissions Policy

The undergraduate applicant for admission to the Charles E. Schmidt College of Science must meet the general freshman or transfer admissions requirements of the university. In addition, the student should consider the list of science and mathematics courses required and recommended by the major department of choice in planning a lower-division program. Students transferring to the university with an A.A. degree must observe the common prerequisites required for the various majors in the college. One year of university level foreign language is required for graduation with all degrees in the college and it is recommended that this be completed within the first two years.

Departments

The Department of Biological Sciences consists of 30 faculty members, approximately 150 graduate students and 3,000 undergraduate majors. Biological sciences is the largest undergraduate major at FAU and the courses serve both majors and non-majors in thousands of hours of instruction. The department offers a wide variety of programs for undergraduate and graduate student research that lead to various careers in the Life Sciences. Exceptional students may be admitted into a 5 year B.S.-M.S. program. Students can also pursue a B.S. in Neuroscience and Behavior, with concentrations in animal behavior/behavioral ecology, behavioral neuroscience or cellular neuroscience. This unique program is a joint effort between the Biology and Psychology Departments. The departmental research effort has major focal points in Environmental Science, Neuroscience, and Marine Science and the faculty spend approximately \$2 million per year on research efforts. Students are a major part of this effort and graduate students and undergraduates work in research labs throughout the year.

The Department of Chemistry & Biochemistry consists of 20 faculty members and instructors engaged in teaching and research involving more than 30 graduate students and 275 undergraduate majors. Courses serve both majors and non-majors. The department offers a wide variety of programs for undergraduate and graduate student research that leads to various careers in Chemistry. The degree programs involve cross disciplinary, multilevel approaches to education and research in chemical biology, biochemistry and molecular medicine. Current faculty strengths are in chemistry, biophysical chemistry, biochemistry and natural products chemistry. The research conducted by faculty in the program contributes to fields such as synthetic organic chemistry, biochemistry, physical chemistry, natural products, characterization, biomedical science, environmental science, and molecular biology. The research activities are supported by state-of-the-art instrumentation and an NMR and mass spectrometry core facility.



The Department of Geosciences offers undergraduate and graduate degrees in various subfields of the Geosciences. The three main areas of focus in the department are Earth Systems Science, Human Environmental Systems and Geo-Information Science. The department offers B.A. and B.S. degrees in both Geography and Geology, and M.S. and Ph.D. degrees in Geosciences. Also offered is a fully online B.A. in Geography and a Geographic Information Systems certificate. Research specialties have been

developed in hydro geology, paleontology and paleo-environments, human-environmental modeling, and urban and regional development. The department emphasizes fieldwork and interdisciplinary research. Students benefit from a strong program that includes: GIS, Remote Sensing, and Digital Image Analysis.

The Department of Mathematical Sciences has internationally recognized research faculty active in pure and applied algebra and analysis, biomathematics, bioinformatics, combinatorics, geometry, dynamical systems, cryptology and information security, mathematics education, and probability and statistics. The department offers the B.A. and B.S. degrees in Mathematics, as well as an M.S., M.S. in Teaching, and Ph.D. in Mathematics. Opportunities exist for motivated students to earn certificates in Actuarial Science or Statistics, as well as a minor in Statistics. Exceptional students may be admitted into a 5 year B.S.-M.S. program.

The Department of Physics offers undergraduate programs leading to both B.A. and B.S. degrees. The B.A. program offers a specialization in Physics for students desiring a general cultural education, while the B.S. program prepares the student for graduate study in physics. Flexibility in electives also makes it possible to combine a physics major with a concentration in other areas such as acoustics, materials science, oceanography, premedical science, biology, chemistry, computer science, mathematics, or business. The department also offers an M.S., M.S. in Teaching, an M.S. in Medical Physics and Ph.D. in Physics. Graduate students also have the opportunity to earn a certificate in Medical Physics. The department is active in research in biological and materials physics, spacetime theory, quantum physics and complex systems.

The Department of Psychology consists of 30 research-active faculty members and approximately 70 graduate students and 1500 undergraduate majors. The department offers a B.A., M.A. and Ph.D. in Psychology, with specialization in Cognitive Psychology, Developmental Psychology, Neuroscience and Social Psychology. Undergraduate and graduate students receive training by world-renowned faculty in these areas. Students can also pursue a B.S. in Neuroscience and Behavior, with concentrations in animal behavior/behavioral ecology, behavioral neuroscience or cellular neuroscience. This unique program is a joint effort between the Biology and Psychology Departments.

