

Vision Statement

Our vision is to be recognized for interdisciplinary educational and research programs in science, and to be a leader in the international academic community.

Mission Statement

The mission of the Charles E. Schmidt College of Science is:

- To provide excellence in both disciplinary and interdisciplinary science education for our students,
- To apply the power of inquiry and discovery to fundamental problems of scientific importance,
- To find solutions to societal challenges in a culture of research, partnership, and scholarship, and
- To develop internationally recognized research and instructional programs to meet the needs of the region, the nation, and the global community

COLLEGE ADMINISTRATION

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CHARLES E. SCHMIDT COLLEGE OF SCIENCE

Florida Atlantic University

QUICK FACTS

2013-14

WWW.SCIENCE.FAU.EDU

Academic Programs and Statistics

The Charles E. Schmidt College of Science, named in honor of one of Florida Atlantic University's greatest benefactors, is the primary source of science research and education for more than three million people living and working in our service region of Southeast Florida. Through its academic departments and research centers, the College provides outstanding academic programs for both undergraduate and graduate students to earn degrees that will lead to a rewarding career in academia, government, or industry.

Total Headcount Majors

Undergraduate 5,834
Graduate 474

Undergraduate Majors Enrolled

Male 1,967
Female 3,867
White 42%
Non-White 58%

Total Annualized FTE*

Undergraduate 4,047
Graduate 195

Degrees Awarded

Undergraduate 889
Masters 84
PhD 27

Graduate Majors Enrolled

Male 240
Female 234
White 60%

Faculty

Tenured/Tenure Track 102
Non-Tenure Track 44

Staff

Administrative 46
Technical 19

* FTE = full-time equivalent

Degree Programs

All academic programs are accredited by the Southern Association of Colleges and Schools (SACS).

Discipline	BA	BS	BS/ MS	MA	MST	MS	PHD
Biological Sciences	•	•	•		•	•	•
Chemistry and Biochemistry	•	•			•	•	•
Complex Systems & Brain Sciences							•
Environmental Science						•	
Geosciences	•	•		•		•	•
Mathematical Sciences	•	•	•		•	•	•
Neuroscience and Behavior		•					
Physics	•	•			•	•	•
Medical Physics						•	
Psychology	•			•			•

Certificate Programs

- Actuarial Science
- Biotechnology
- Environmental Restoration
- Environmental Studies
- Geographic Information Systems
- Medical Physics
- Neuroscience
- Pre-Health Professions
- Pharmacy Technology
- Remote Sensing
- Statistics



COLLEGE ADMINISTRATION

Departments

Biological Sciences
Chair, Rod Murphey, PhD
rmurphey@fau.edu

Chemistry and Biochemistry
Interim Chair, Jerry Haky, PhD
hakyj@fau.edu

Geosciences
Interim Chair, Charles Roberts, PhD
croberts@fau.edu

Mathematical Sciences
Chair, Lee Klingler, PhD
klingler@fau.edu

Physics
Chair, Warner Miller, PhD
wam@fau.edu

Psychology
Chair, David Wolgin, PhD
wolgindl@fau.edu

Research Centers

College Research Centers serve to bring cross-disciplinary research projects and core instrumentation capability to the entire University. These include:

Center for Molecular Biology & Biotechnology
www.science.fau.edu/cmbb
Director, Herbert Weissbach, PhD
hweissba@fau.edu

Center for Complex Systems and Brain Sciences
www.ccs.fau.edu
Director, Janet Blanks, PhD
blanks@fau.edu

Center for Environmental Studies
www.ces.fau.edu
Director, Len Berry, PhD
berry@fau.edu

Center for Cryptology and Information Security
www.math.fau.edu/ccis
Director, Rainer Steinwandt, PhD
rsteinwa@fau.edu

Center for Geo-Information Science
www.geosciences.fau.edu/giscenter/
Director, Zhixiao Xie, PhD
xie@fau.edu

Center for Biomedical and Materials Physics
www.physics.fau.edu
Director, Dora Leventouri, PhD
leventou@fau.edu

Programs

Environmental Sciences
Director, Dale Gawlik, PhD
dgawlik@fau.edu

www.science.fau.edu

Research

Research in the College is interdisciplinary with emphasis in biotechnology, bioinformatics, cryptography, developmental systems, drug discovery, dynamical systems, environmental sciences and Everglades restoration, functional genomics, geo-information science, marine science, natural products, neuroscience, and space-time physics. Major funding comes from federal, state, foundations, and industry. Annual sponsored research funding exceeded \$5.1 million with 54 awards in 2013-14. The College averages over 250 peer-reviewed publications each year.

FAU Research Priorities:

The College leads research efforts in two of the three FAU Signature Themes—Marine and Coastal Issues, and Biotechnology.

Environmental Sciences: FAU's research is focused primarily on the Everglades, climate change, and marine biology.

Neuroscience: FAU's brain research revolves around understanding the principles and mechanisms that underlie complex behavior, and understanding of sub-cellular processes in neurons, brain signal integration, and cognitive function.

Global Networks Security: FAU scientists are working on understanding global information networks and how to protect them through cryptology and other information security tools.

Collaborations:

Active research collaboration with outside partners and industry is a College priority. Scientists from research institutes such as Scripps Florida, Max Planck Florida Institute, Vaccine Gene Therapy Institute, Torrey Pines Institute for Molecular Studies and the Harbor Branch Oceanographic Institute, biotech industries, the South Florida Water Management District, and the US Geological Survey are associated with the College as affiliate faculty. They participate in College programs through joint projects/grants, shared instrumentation, guest lectures, as well as hosting graduate students and undergraduate internships.

Technology Transfer and Licensing:

The College actively pursues faculty inventions for commercialization, licensing, and faculty spinoffs.



Core Instrumentation:

The College's core instruments include cluster computers, fluorescent-activated cell sorter, mass spectrometer, astronomical telescope, nuclear magnetic resonance spectrometer, high performance liquid chromatography, peptide synthesizer, real time PCR, and confocal imaging microscopes.



Community Engagement

- **Frontiers in Science Public Lecture Series:** Lectures focusing on current research in science by experts in their field.
- **Science Olympiad Regional Competition:** A day-long regional science competition for middle and high school students that serves as the first step in moving on to the state and national competitions.
- **Elementary Science Olympiad:** Science competition for 3-5 graders.
- **FAU Math Days:** A series of events and competitions designed to increase interest in mathematics from elementary through high school levels.
- **Pumpkin Drop:** FAU physics professors demonstrate common physics principles such as constant acceleration of gravity, terminal velocity and Newton's Laws to elementary school students by dropping pumpkins from a roof top to celebrate Halloween.
- **FAU Observatory:** Monthly open dome viewings are offered for the community.

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