Students at Carnegie Mellon University's Mellon College of Science seek the skills needed to become tomorrow's scientists and mathematicians. They're individuals focused on scholarship, professionalism, balance and citizenship. They thrive in an environment that challenges and supports their research as well as their desire to both study science and discover it. Mellon College of Science students also understand the value of using a multidisciplinary approach to solving difficult problems, joining forces with others to make their mark on the larger world.

Multidisciplinary Approaches to Complex Scientific Problems

At the Mellon College of Science, you'll approach problems from a fresh perspective. And you'll discover solutions by combining innovation with our multidisciplinary educational approach.

Here, you'll plot a learning path that's unique to you. As the program progresses, you'll gain mentors and life experiences that prepare you to become part inventor, part challenger and part critical thinker. You'll study within a world-renowned research university that provides access to intellectual and adventurous opportunities. Learning across disciplines will open your mind to new topics — expanding your mindset and preparing you to tackle future challenges.

Science is a constant evolution and discovery. At the Mellon College of Science, you'll experience that same philosophy first-hand — evolving and discovering your strengths and interests as you prepare to make an intellectual impact in the sciences.

Did you know?

Our alumni and faculty invented materials and processes that have made a profound impact on our world, including Kevlar® and CyDyes™. The college is home to 10 Nobel Laureates.

Our faculty members are nationally and internationally recognized for their research in polymer science, cosmology, mathematical finance and neuroscience.

MCS students' achievements have earned them recognition as Rhodes Scholars, Gilliam Fellows, Goldwater Scholars, NSF Graduate Research Fellows, Department of Homeland Security Scholars and Beckman Scholars.

FIRST-YEAR CLASS
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Programs

Biological Sciences
- Biological Sciences (BA or BS)
- Biological Sciences and Psychology (BS)
- Biological Sciences/Neuroscience Track (BS)
- Neuroscience (BS)

Chemistry
- Chemistry (BA or BS)
- Chemistry/Biological Chemistry Track (BS)

Mathematical Sciences
- Computational Finance (BS)
- Mathematical Sciences (BA or BS)
- Mathematical Sciences (Computational and Applied Mathematics) (BS)
- Mathematical Sciences (Discrete Mathematics and Logic) (BS)
- Mathematical Sciences (Operations Research and Statistics) (BS)
- Mathematical Sciences (Statistics) (BS)
- Mathematical Sciences and Economics (BS)

Physics
- Physics (BA or BS)
- Physics/Applied Physics Track (BS)
- Physics/Astrophysics Track (BS)
- Physics/Biological Physics Track (BS)
- Physics/Chemical Physics Track (BS)
- Physics/Computational Physics Track (BS)
- Physics/Quantum Physics Track (BS)

Intercollege
- Bachelor of Science and Arts (BSA)
- Environmental and Sustainability Studies (additional major)
Curriculum Overview

The Mellon College of Science will prepare you to be a 21st century scientist and mathematician. You'll become a scholar who is deeply trained in your discipline, ready to communicate effectively and work in multidisciplinary teams. You'll gain a strong sense of wellness and balance and become actively engaged in making the world a better place.

The core education program begins with the EUREKA! first-year seminar, which provides foundational knowledge, skills and perspectives to support your transition from high school to college, as well as your development as an emerging scientist or mathematician. You'll continue to grow by completing ENGAGE requirements that help you to become a part of the larger university community, plugging you into service, arts and wellness opportunities. You'll prepare for post-college life in advanced courses focused on science and society, learn about entrepreneurship and innovation, and focus on professional development in departmental colloquium courses.

Along the way, you can explore multidisciplinary learning, incorporating studies in everything from fine arts to computer sciences and business — experiencing new ideas and challenges that help you to become a well-rounded young scientist. Additional opportunities for growth include study abroad, research starting in your first year, and extracurricular activities within the university and Pittsburgh region.

Research

Undergraduate students will have opportunities to be at the forefront of automated science through classes and research opportunities at the Carnegie Mellon University Cloud Lab. The first of its kind at a university, the CMU Cloud Lab is a remote-controlled, robotic lab that provides access to 130 different types of scientific equipment.

Since his first year at the Mellon College of Science, senior Marcus Schafer has been working in the labs of the Institute for Green Science. His research has improved a catalyst that can remove antibiotics and other contaminants from global waterways.

Researchers from the Department of Physics are teaming with the University of Washington to create new software platforms to analyze large astronomical datasets generated by the upcoming Legacy Survey of Space and Time (LSST), which will be carried out by the Vera C. Rubin Observatory in northern Chile.