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.

---

### FIRST-YEAR CLASS

**FALL 2022**

**233**

---

**Did you know?**

**OUR FACULTY MEMBERS ARE NATIONALLY AND INTERNATIONALLY RECOGNIZED for their research in polymer science, cosmology, mathematical finance and neuroscience.**

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**.

---

**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)

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

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.
**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**

Associate professor Aryn Gittis led research that found a way to make deep brain stimulation more precise. The work was published in Science and will significantly advance the study of Parkinson’s disease.

Recent Mellon College of Science graduate Ping-Ya Chao conducted research to improve the art of negotiation. She tested hypotheses that examine power dynamics and how changing whether negotiators approach each other collaboratively or competitively can influence negotiation outcomes.

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.

---

**AVG STARTING SALARY**

$84,255

**GRADUATE SUCCESS**

93%

Employed or in grad school within six months of graduation

DATA AS OF JANUARY 2022

93% of graduates responding

**RECENT EMPLOYERS**

Accenture
Allegheny County Parks Department
Epic
General Motors
Hillman Cancer Center
Microsoft
National Institutes of Health
Nike

**More than 70% of undergraduates conduct cutting-edge research. Create new knowledge, advance their fields, publish results.**

---

Carnegie Mellon University

OFFICE OF ADMISSION
CARNEGIE MELLON UNIVERSITY
5000 FORBES AVENUE
PITTSBURGH, PA 15213-3890
T: 412.268.2082
F: 412.268.7838
E: admission@andrew.cmu.edu
W: cmu.edu/admission

---

cmu.is/admission-mcs
November 2022