



MELLON COLLEGE OF SCIENCE

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**

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)

— 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**.

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.

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– 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.



**MORE THAN 70% OF UNDERGRADUATES
CONDUCT CUTTING-EDGE RESEARCH.
CREATE NEW KNOWLEDGE. ADVANCE THEIR
FIELDS. PUBLISH RESULTS.**

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

Carnegie Mellon University

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