MCS undergraduates are breaking the boundaries of science.

**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 (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)
- Science and Humanities Scholars Program (SHS, joint with DC)

**INTERDISCIPLINARY PROGRAMS**

The **Science and Humanities Scholars Program** enables talented students to develop an undergraduate curricular program that builds upon their interests and achievements in the humanities, natural sciences, mathematics or social sciences. The **Health Professions Program** guides students interested in medicine, dentistry or other health professions in their course choices and as they apply for professional degree programs.

**ADMITTED CLASS – FALL 2017**

- Biological Sciences 26%
- Chemistry 18%
- Mathematical Sciences 29%
- Undecided 7%

- Physics 19%

**MCS Admitted Student Averages**

<table>
<thead>
<tr>
<th>SAT-ERW*</th>
<th>SAT-M*</th>
<th>ACTE</th>
<th>ACTM</th>
<th>ACTC</th>
</tr>
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<tbody>
<tr>
<td>700-760</td>
<td>740-800</td>
<td>34</td>
<td>34</td>
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Rank 5% GPA 3.86 *Middle 50% range

**FACULTY**

- Biological Sciences 23%
- Chemistry 23%

- Mathematical Sciences 21%
- Interdisciplinary 5%

**Notable Faculty**

- Alison Barth, professor of biological sciences, is a recipient of the Society for Neuroscience’s Research Award for Innovation in Neuroscience. Barth is an inventor of technologies that are advancing the field of brain research.

- Po-Shen Loh, assistant professor of mathematical sciences, is the academic director of the United States Mathematical Olympiad program and national lead coach of the U.S. team. He’s also founder of the crowdsourced science and math education website Expii.com.

More than 70% of undergraduates conduct cutting-edge research. Create new knowledge. Advance their fields. Publish results.
Alumni Accomplishments

Biological Sciences 2017 graduate Chrystal Thomas was the first Carnegie Mellon student to win a Schwarzman Scholarship. The scholarship is funding her master's degree studies in global affairs at Tsinghua University in Beijing.

Science and Humanities Scholar and Mathematical Sciences 2016 graduate Linus Hamilton was awarded a prestigious Hertz Fellowship, which fully funds his doctoral research in computer science at MIT.

Biological sciences 1990 graduate Glen de Vries founded a company, Medidata, that's helping the health care and drug industries do better science. Medidata brings data analytics and artificial intelligence into play and is now keeping track of more than 8 billion clinical records for more than 2 million patients, with 1,400 more patients being entered into its system daily.

Student Startups

> Emerald Therapeutics, a four-year old Silicon Valley startup, is looking to revolutionize the biotechnology industry. Co-founded by biological sciences 2005 grad D.J. Kleinbaum and computational biology 2005 grad Brian Frezza, Emerald Therapeutics is taking an interdisciplinary approach to solving the problem of persistent viral infections that the body cannot clear on its own.

MCS's revolutionary Core Education program educates students as scholars, professionals, people and citizens and creates well-rounded young scientists uniquely prepared to enter the workforce or pursue further education.

1. The EUREKA! Discovery and Its Impacts seminar equips first-year students with foundational knowledge, skills and perspectives that support their development as emerging scientists.

2. The PROPEL seminar prepares juniors for their impending transitions into professional life with lectures on science and society, entrepreneurship and innovation, and professional development.

3. The ENGAGE requirements help students to become well-rounded individuals by engaging in the arts, wellness and service throughout their time at Carnegie Mellon.

4. Preparing Students to be 21st-Century Scientists:

   • Scholars: deeply trained in their disciplines
   • Professionals: adept at communicating and accustomed to working in multidisciplinary teams
   • Persons: with a sense of wellness and balance
   • Citizens: actively involved and globally engaged