College of Engineering and Computer Science

Syracuse University
About the College of Engineering and Computer Science

The College of Engineering and Computer Science uses a hands-on approach to prepare you for success in the fields of engineering and computer science—disciplines that have universal impact. The college delivers all the benefits of a small, personalized school while encouraging you to take advantage of opportunities that Syracuse, a major research university, has to offer. You’ll acquire the technical, collaborative, and communication skills that will prepare you to thrive in your career.

**Majors**

- Aerospace Engineering
- Bioengineering
- Chemical Engineering
- Civil Engineering
- Computer Engineering
- Computer Science
- Electrical Engineering
- Environmental Engineering
- Mechanical Engineering
- Systems and Information Science

The college's engineering and computer science bachelor's degrees are accredited by ABET's Engineering and Computing Accreditation Commissions.

You’ll also take coursework in the liberal arts, allowing you to gain the critical thinking, communication, and analytical skills that impress employers.

**Related Careers**

- Construction engineer
- Design engineer
- Entrepreneur
- Environmental remediation engineer
- Engineering program manager
- Flight test engineer
- Materials engineer
- Medical device engineer
- Payload systems engineer
- Product manager
- Quality engineer
- R&D product developer
- Software developer
- Transportation engineer

**Expand Your Skill Set**

Choose from over 100 campuswide minors and accelerated master's degree programs (B.S. and M.S. in five years) to set yourself apart as a multidimensional professional. A few examples:

- Major/Master’s: B.S. Computer Science + Master’s in Business Administration (MBA) Career: Financial systems manager
- Major/Minor: B.S. Electrical Engineering + Energy Systems minor Career: Smart grid engineer
- Major: B.S. Bioengineering + Pre-Medicine Track Career: Medical doctor

On the Cover: Electrical Engineering Lab

syracuse.edu/engineering-technology
Civil and environmental engineering students designed and installed a system to provide clean drinking water to a Honduran village.
Students measure the consistency of fresh concrete outside the Construction Engineering Lab, opened in 2016.

The Classroom for Collaboration combines team-based activities and technology.
Highlights and Distinctions

Outstanding placement rate
Ninety-one percent of 2016 Engineering and Computer Science graduates responding to the University's Placement Survey are employed full time in the industry or enrolled in graduate school. Their average starting salary is $60,490.

Comprehensive engineering education
In addition to graduating with a degree in an accredited engineering or computer science program, you can choose from 100 Universitywide minors or pursue options that include the accelerated five-year B.S./MBA program.

Support for your success
With dedicated first-year programs and advisors, the college’s Student Success Center is committed to helping you achieve your academic and career goals. You can:

- enroll in Academic Excellence Workshops that facilitate success in calculus and other key courses.
- live in the Engineering and Computer Science Learning Community, where you can study with other first-year students.
- connect with a Pathfinder (peer advisor) who will help you further develop your interpersonal and leadership skills.

Marketability
With guidance from Career Services and faculty, students are encouraged to participate in paid internships/co-ops or research experiences during the summer. You can also gain an edge with employers by taking part in research alongside faculty, professional clubs, design competitions, and hackathons.

Hands-on experience
These on-campus facilities give life to your designs and support your academic and research aspirations:

- Student Machine Shop and MakerSpace—sites to invent products and prototypes
- Falcone Center for Entrepreneurship, Student Sandbox, and other spaces and programs for student startups and research
- Fidelity Motus 622i flight simulator—one of only a few nationwide
- Syracuse Biomaterials Institute—discover new materials that live in the body
- Construction Engineering Lab—model construction site projects
- Avi and Sandra Nash Classroom for Collaboration
- Syracuse Center of Excellence—innovate environmental and energy technologies
Study Abroad

At Syracuse, engineering and computer science students can study abroad—something that is often challenging at other schools. Consistently ranked as one of the top 25 international education providers in the United States, Syracuse Abroad offers more than 100 programs in 60 countries. As an Engineering and Computer Science student, you can take advantage of:

- Semester programs in Dublin, Florence, Hong Kong, London, Santiago, Strasbourg, or Sydney. You could even spend your first fall semester in Madrid through the first-year Discovery program.
- A summer internship in Dubai or a summer research experience in Strasbourg, France.

“Being an advanced problem solver and collaborating with other engineering disciplines, as well as interacting effectively with customers, are skills that I developed at Syracuse. Engineering and computer science provided the academic and social platform that propelled my career.”
— David Richardson ’08, system engineer, SRC, Inc.

“Professor and mentor John Dannenhoffer demonstrated that hard work, determination, and patience are some of the keys to success. It was these virtues that allowed me to take on a leadership position and gain acceptance into the Aftermarket Engineering Leadership Development Program at Pratt and Whitney upon graduation.”
— Amanda Walkowicz ’16, associate aerospace engineer, Pratt and Whitney

“My current role with Brainlab has required me to become intimately familiar with neurosurgical procedures, troubleshooting proprietary hardware and software issues, and how to consult with surgeons and other hospital staff on the use of our multifaceted platforms. Channeling the learning tactics that I employed throughout my four years at Syracuse was invaluable.”
— Nick Allen ’15, application consultant, Brainlab

syracuse.edu/engineering-technology
Quick Facts/Syracuse University

**Founded in 1870**

**Location:** Main campus is in Syracuse, NY, with U.S. centers in New York City, Los Angeles, and Washington, DC, and seven centers around the world.

**Undergraduate Enrollment:**
14,000+ students representing 118 countries

**Majors:** 200 majors/100 minors within nine undergraduate schools and colleges

**Student-to-Faculty Ratio:** 15:1

**Average Class Size:** 26

**Research:** Syracuse, a Research 1 institution, was awarded $79.3 million in 2016 for research, teaching, and other sponsored programs.

**Study Abroad:** Program consistently ranked one of the top in the U.S. Almost half of Syracuse students study abroad at least once.

**Career Placement:** 91 percent of 2016 seniors responding to the University’s Placement Survey are employed, joining the military, or attending graduate school.

Syracuse University is accredited by the Middle States Commission on Higher Education. For information, please visit msche.org or middlestates.syr.edu/statement-of-accreditation-status.