SUNY Engineering Your Career

EXPLORE

Engineering majors use science and math to solve practical problems and help create everything from assembly lines and oil-drilling techniques to spacecraft and MP3 players. A general engineering major at the associate degree level provides solid preparation for any type of engineering degree at the bachelor's level.

Engineering
Binghamton [B]
University at Buffalo [B]

Engineering Science
Adirondack [A]
Alfred State [A]
Broome [A]
Canton [A]
Corning [A]
Dutchess [A]
Erie [A]
Finger Lakes [A]
Fulton-Montgomery [A]
Genesee [A]
Hudson Valley [A]
Jamestown [A]
Jefferson [A]
Monroe [A]
Mohawk Valley [A]
Nassau [A]
Onondaga [A]
Orange [A]
Stony Brook [B]
Suffolk County [A]
Rockland [A]
Tompkins Cortland [A]
Ulster [A]
Westchester [A]

Engineering Studies
Niagara [A]

Engineering 3+2 Programs = Two Bachelor's Degrees:
Discover the best of both worlds . . . the intellectual training of a liberal arts program combined with the technical training of an engineering program. Students attend the first three years at a liberal arts college, followed by two more years in an engineering curriculum at Binghamton University or the University at Buffalo (or at other select universities). The end result is two bachelor's degrees in five years. Students who complete 3+2 engineering programs often find themselves choosing between excellent opportunities in graduate school and industry.

Albany [B]
Buffalo State [B]
Cortland [B]
Fredonia [B]
Geneseo [B]
Oneonta [B]
Oswego [B]
Plattsburgh [B]
Potsdam [B]

BUILD

Building the physical and natural environment through design and infrastructure management.

Architecture
Alfred State [B]
University at Buffalo [B]

Architectural Design and Building
Delhi [B]

Architectural Engineering Technology
Alfred State [A]
Farmingdale [B]

Architectural Studies & Design
Morrisville [A]

Architectural Technology
Alfred State [B]
Delhi [A]
Dutchess [A]
Hudson Valley [A]
Onondaga [A]
Orange [A]

Civil Engineering
University at Buffalo [B]
Stony Brook [B]
SUNYIT [B]

Civil and Environmental Technology
Canton [B]

Civil Engineering Technology
Broome [A]
Canton [A]
Erie [A]
Hudson Valley [A]
Mohawk Valley [A]
Nassau [A]
SUNYIT [A]
Westchester [A]

Construction Engineering Technology
Alfred State [A]

Construction Management
Nassau [C]

Construction Management: Design & Building
Delhi [B]

Construction Management Engineering Technology
Alfred State [B]
Erie [A]
Farmingdale [B]

Construction Technology
Delhi [A]
Erie [A]
Fulton-Montgomery [A]
Hudson Valley [A]
Monroe [A]
Sullivan [A]
Tompkins Cortland [A]

Construction Technology: Architectural Technology
Suffolk County [A]

Construction Technology Management
Canton [A]
Dutchess [A]

Land Surveying Technology
Environmental Science & Forestry [A]

Residential Construction
Morrisville [A]

Surveying Engineering Technology
Alfred State [A, B]

Surveying Technology
Mohawk Valley [A]
Sullivan [A]

SUSTAIN

Applying agricultural and science principles to explore, identify hazards or to improve the natural environment.

Agricultural Engineering Technology
Morrisville [A]

Agricultural Engineering Technology: Agricultural Power Machinery
Cobleskill [A]

Agricultural Mechanics
Morrisville [A]

Environmental Engineering
University at Buffalo [B]

Environmental Resources Engineering
Environmental Science & Forestry [B]

Renewable Energy Technology
Morrisville [A]

ADVANCE

Bridging the gap between medicine, engineering and biomedical research to improve healthcare.

Bioengineering
Binghamton [B]

Biomedical Engineering
University at Buffalo [B]
Stony Brook [B]

Biomaterials Engineering
NYS College of Ceramics at Alfred University [B]

SOAR

Focusing on the design, construction and science of aircraft and spacecraft that stay within the Earth's atmosphere or operate outside of it.

Aeronautical Science – Professional Pilot
Farmingdale [B]

Aerospace Engineering
University at Buffalo [B]

CREATE

Converting raw materials to products and designing plants, equipment and nuclear reactors to perform the work.

Bioprocess Engineering
Environmental Science & Forestry [B]

Paper Engineering
Environmental Science & Forestry [B]

Ceramic Engineering
NYS College of Ceramics at Alfred University [B]

Chemical Engineering
University at Buffalo [B]

Chemical and Molecular Engineering
Stony Brook [B]

Key: B = Bachelor's Degree A = Associate Degree C = Certificate

ENERGIZE

Designing and applying circuitry and equipment for power generation and distribution, machine control and communications.

Electrical & Computer Engineering
Oswego [B]
SUNYIT [B]

Electrical Engineering
Binghamton [B]
University at Buffalo [B]
Maritime [B]
New Paltz [B]
Stony Brook [B]

Electrical Engineering (online only)
Stony Brook [B]

Electrical Engineering Technology
Buffalo State [B]
Alfred State [A, B]
Broome [A]
Canton [A]
Erie [A]
Farmingdale [B]
Hudson Valley [A]
Mohawk Valley [A]
Monroe [A]
Nassau [A]
Onondaga [A]
Suffolk County [A]
SUNYIT [B]
Westchester [A]

Electrical Technology
Fulton-Montgomery [A]

INTEGRATE

Integrating research and education through physics, mathematics, chemistry and biology to provide a platform for multidisciplinary work in electronic and magnetic materials, polymers and composites, biomolecular and biomedical materials, materials and chemistry, nanostructured materials, materials for energy storage and generation and biomaterials, tissue engineering and drug delivery.

Engineering Physics
University at Buffalo [B]

Glass Engineering Science
NYS College of Ceramics at Alfred University [B]

Nanoscale Engineering
Albany [B]

Nanoscale Materials Technology
Schenectady [A]

Nanoscale Science
Albany [B]

Materials Science & Engineering
NYS College of Ceramics at Alfred University [B]

DEVELOP

Developing procedures for completing projects safely, on-time and within budget. Developing mechanical devices and systems for aerospace, air pollution, automotive, air conditioning, bioengineering, chemicals, composites, controls and design projects and industries.

Applied Integrated Technology
Monroe [A]

Automotive Technology
Canton [A]
Columbia-Greene [A]
Corning [A]
Delhi [A]
Erie [A]
Farmingdale [A]
Fulton-Montgomery [A]
Monroe [C]
Morrisville [A, B]
Onondaga [A]

Computer-Aided Drafting and Design
Alfred State [A]
Corning [A, C]
Delhi [A]
Erie [A]
Finger Lakes [A]
Genesee [A, C]
Hudson Valley [A, C]
Jamestown [C]
Mohawk Valley [A, C]
Monroe [C]
Morrisville [A]
Niagara [A, C]
Rockland [C]
Suffolk [C]
Ulster [A, C]
Westchester [C]

Electromechanical Engineering Technology
Broome [A]

Industrial & Systems Engineering
Binghamton [B]

Industrial Engineering
University at Buffalo [B]

Industrial Technology
Buffalo State [B]
Farmingdale (Automotive & Facilities) [B]
Ulster [A, C]

Industrial Technology: Quality Assurance
Broome [A, C]

Industrial Technology Management
Canton [B]

Instrumentation and Control Technology
Finger Lakes [A]

Manufacturing Engineering Technology
Farmingdale [B]

Manufacturing Technology
Corning [A]
Hudson Valley [A]
Mohawk Valley [A]

Mechanical Engineering
Binghamton [B]
University at Buffalo [B]
Maritime [B]
Stony Brook [B]

DEVELOP (cont.)

Mechanical Engineering Technology
Alfred State [A, B]
Broome [A]
Buffalo State [B]
Canton [A]
Erie [A]
Farmingdale [A, B]
Hudson Valley [A]
Mohawk Valley [A]
Morrisville [A]
SUNYIT [B]

Mechanical Technology
Canton [B]
Cayuga [A]
Finger Lakes [A]
Jamestown [A]
Niagara [A]
Onondaga [A]
Westchester [A]

NETWORK

Solving real-world problems, through the combined fields of electrical engineering and computer science, to develop computer systems focused on creating components for computer equipment, networking design and formulating and integrating software.

Computer Engineering
Binghamton [B]
University at Buffalo [B]
New Paltz [B]
Stony Brook [B]

Computer Engineering Technology
Alfred State [A, B]
Farmingdale [B]
Onondaga [A]
SUNYIT [B]

Software Engineering
Oswego [B]

LAUNCH

Designing, constructing and maintaining the operation of boats, ships, oil rigs and other marine vessels, including the structures to support vessels.

Facilities Engineering
Maritime [B]

Marine Engineering
Maritime [B]

Naval Architecture
Maritime [B]

NOTES

All degrees reflect undergraduate programs only. Many engineering graduate degrees are available; to learn more visit www.suny.edu/programsearch

Key: B = Bachelor's Degree A = Associate Degree C = Certificate

For more information about these academic programs, contact SUNY campuses on the Web at **www.suny.edu/contactcampuses**