



Taking a Deep Dive into SUNY Academic Programs

2025 OpInform





Session Goals

- Explore *select* academic and related programs and careers
- Discover how SUNY campuses are preparing students for career readiness
- Learn how programs and careers align with NYS workforce needs
- Find out about special academic opportunities (accelerated degrees, applied learning)



SUNY by the Numbers

4,000+ Undergraduate Programs of Study

750+ Online Programs of Study

93% of New Yorkers live within 15 miles
of a SUNY campus!



1 Engineering | Semiconductor

2 Nursing | Health | Wellness

3 Agriculture | Conservation |

Sustainability

4 Skilled Trades

5 Unique Programs of Study



Engineering Engineering Technology Semiconductor



Engineering Engineering Technology Semiconductor

Uses math and science to solve problems and create solutions

Focuses on theory, conceptual design, application, implementation

Includes certificate programs and associate, bachelor's, master's, doctoral degrees

Campus program examples



Engineering or Engineering Technology



DIFFERENCE IN CURRICULUM

Engineering programs often focus on theory and conceptual design, while engineering technology programs usually focus on application and implementation.

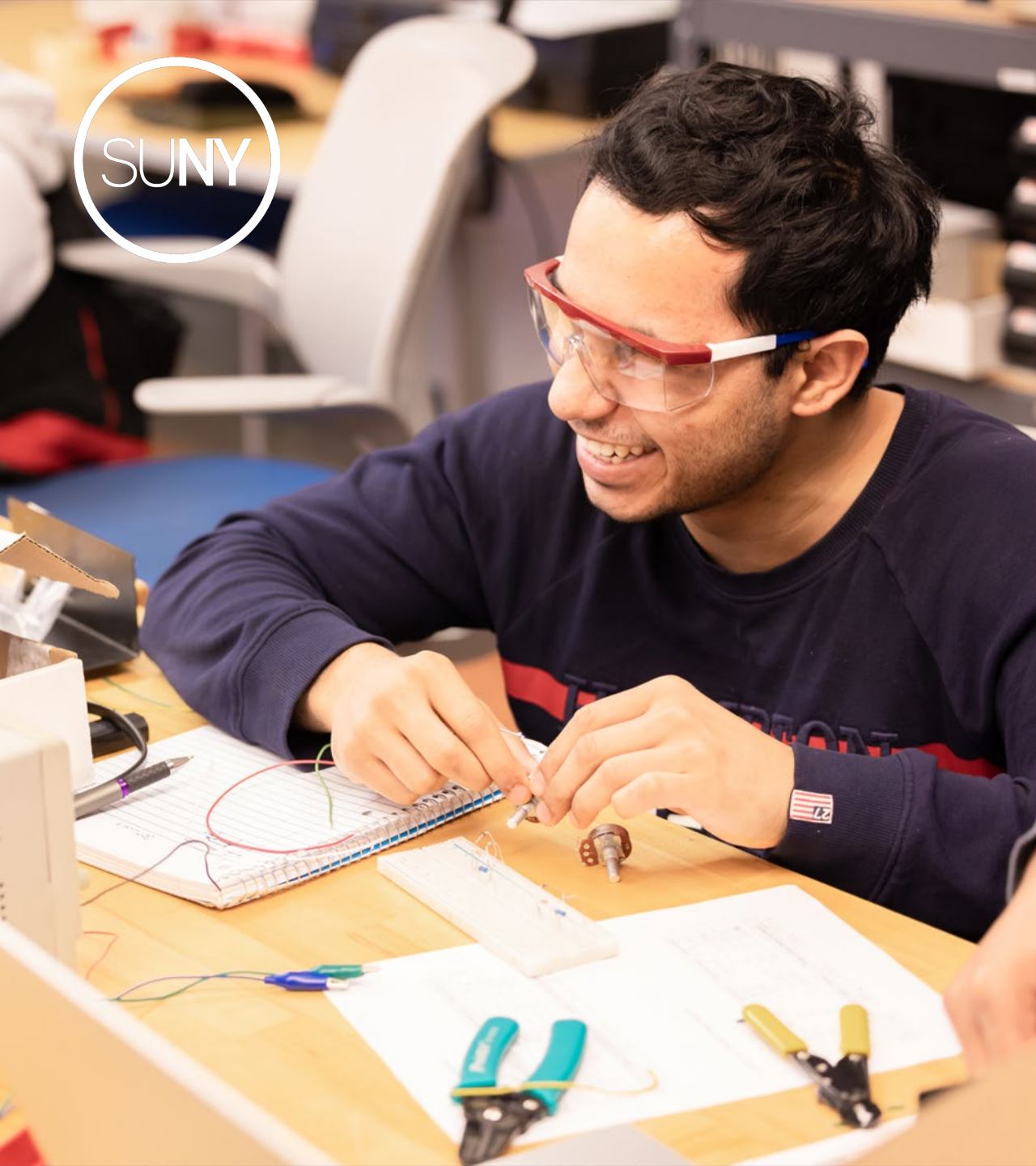
Source: Accreditation Board for Engineering and Technology (ABET)



Areas of Engineering Study



- Aerospace Engineering
- Biomedical Engineering
- Ceramic Engineering
- Chemical Engineering
- Civil Engineering
- Computer Engineering



- Electrical Engineering
- Environmental Engineering
- Industrial Engineering
- Mechanical Engineering
- Nuclear Engineering
- Structural Engineering



Engineering Science



Engineering Science

- Offered by community colleges and technology colleges
- Two years of full-time study
- Curriculum covers the first two years of a bachelor's degree program in engineering



Career Examples

- Agricultural Power Machinery
- Architecture
- Automotive Technology
- Glass Engineering Physics
- Construction Management
- Electrical Construction & Maintenance Electrician
- Land Surveying Technology
- Mechatronics
- Plastics Manufacturing
- Production Worker
- Renewable Materials Science
- Software Developer





Nursing Health Wellness



Nursing Credentials Awarded

- Home Health Aide
- LPN
- RN
- RN to BS
- BS/MS Nursing
- Advanced Certificate
- Doctoral

suny.edu/nursing

SUNY THE STATE UNIVERSITY OF NEW YORK



Nursing Pathway





Health Professions

- Chiropractic
- Clinical Psychology
- Dentistry
- Medicine
- Nursing
- Occupational Therapy
- Optometry
- Osteopathic Medicine
- Nurse Practitioner
- Pharmacy
- Physical Therapy
- Physician Assistant
- Podiatry
- Public Health
- Social Work
- Veterinary Medicine



Allied Health Professions

- Athletic Training
- Audiology
- Cardiovascular Perfusion Technology
- Cytotechnology
- Dental Hygiene
- Diagnostic Medical Sonography
- Dietetics
- Emergency Medical Sciences
- Health Administration
- Health Information Management
- Medical Technology
- Nuclear Medicine Technology
- Occupational Therapy Assistant
- Physical Therapy Assistant
- Radiation Therapy Technology
- Radiography
- Rehabilitation Counseling
- Respiratory Therapy Technology
- Speech-Language Pathology



100 Best Jobs of 2025

- | | | | |
|-----|-------------------------------------|-----|--------------------------------|
| # 1 | Nurse Practitioner | #49 | Orthotist and Prosthetist |
| # 3 | Physician Assistant | #52 | Pharmacist |
| # 7 | Medical and Health Services Manager | #53 | Massage Therapist |
| # 9 | Speech-Language Pathologist | #54 | Registered Nurse |
| #12 | Veterinarian | #58 | Dentist |
| #16 | Nurse Anesthetist | #62 | Diagnostic Medical Sonographer |
| #17 | Veterinary Technologist/Technician | #64 | Physical Therapist Assistant |
| #21 | Physical Therapist | #65 | Community Health Worker |
| #23 | Occupational Therapist | #67 | Pediatrician |
| #28 | Dental Hygienist | #72 | Pharmacy Technician |
| #30 | Genetic Counselor | #79 | Dietitian and Nutritionist |
| #33 | Anesthesiologist | #81 | Medical Records Technician |
| #34 | Psychiatrist | #83 | Medical Assistant |
| #38 | Home Health Aide | #85 | Biomedical Engineer |
| #41 | Optometrist | #87 | Mental Health Counselor |
| #47 | Psychologist | #99 | Nurse Midwife |



Agriculture Conservation Sustainability



Agriculture Conservation Sustainability

Focuses on complex interactions between humans and natural environments

Encompasses physical/natural sciences, physical geography, technical and scientific coursework, ethics, policy, and law

Includes certificate programs and associate, bachelor's, master's, doctoral degrees

Campus program examples





Career Examples

- Agribusiness Management
- Agricultural Automation and Robotics
- Animal Science
- Cannabis Careers
- Energy Systems
- Environmental Planning and Management
- Food Systems & Technology
- Green Building Technology
- Landscape Development
- Tourism and Recreation
- Viticulture and Wine Technology
- Wildlife Science



Skilled Trades



Skilled Trades

Skills-based learning leading to employment

Focus on high-level technical knowledge, hands-on abilities, and formal training or certification for complex tasks

Includes certificate programs, associate and bachelor's degrees, and apprenticeships

Campus program examples





Career Examples

- Automotive Business
- Baking and Pastry Arts
- Carpentry & Masonry
- Child Care
- Coaching
- Construction and Manufacturing
- Culinary Arts
- Electrician
- Fire Science
- Game Design and Development
- Hospitality
- HVAC
- Medical Coding
- Motorsports Technology
- Tourism
- Welding



Unique Program Examples

- 3D Digital Fabrication & Design | Old Westbury
- AI and Geospatial Analytics | University at Buffalo
- Air Traffic Control | Schenectady
- Canine Training and Management | Cobleskill
- Cannabis Production and Management | Farmingdale
- Ceramic Engineering | Alfred
- Funeral Service Administration | Canton
- Industrial & Labor Relations | ILR School at Cornell
- Naval Architecture | Maritime
- Optical Systems Technology | Monroe Community College
- Playwriting and Screenwriting | Purchase
- Professional Golf Management | Delhi
- Remotely Piloted Aircraft Systems | Mohawk Valley Community College
- Toy Design | FIT
- Viticulture & Ecology | ESF



There's a SUNY for that!

A screenshot of the suny.edu/majors website. The header is dark blue with navigation links: ADMISSIONS, WHAT IS SUNY?, WHY DOES SUNY MATTER?, a search bar, SUNY A-Z, and GIVE. Below the header is the SUNY logo and the text "The State University of New York". To the right are buttons for "Apply", "Campuses", and "Programs". The main content area has a breadcrumb trail: ATTEND SUNY / FIND A SUNY PROGRAM / FIND YOUR MAJOR. The "Find Your Major" section features a search bar with "Enter Keyword", "Select Degree", and "Select Campus" dropdowns, and "Search" and "Reset" buttons. Below this are links for "Alternate Search" and "Print All Majors". The "CONNECT TO CAREERS" section displays four categories: SEMICONDUCTOR, SUSTAINABILITY, NURSING, and SKILLED TRADES. At the bottom, there's a section titled "Explore Undergraduate Programs By Interest:" with buttons for "A - Z" and "Interest", and a grid of program categories including AGRICULTURE AND CONSERVATION, ARCHITECTURE AND ENVIRONMENTAL DESIGN, BUSINESS, and COMMUNICATIONS.

suny.edu/majors

