The Science of Discovery

**EARTH**
Across the state or around the world, improve the health of families, animals and the planet. Explore landscaping and horticulture through hands-on degree programs. Feeding, fueling and designing sustainable and aesthetically-pleasing global communities require the brightest minds and passion to make a difference for a better tomorrow. The Earth discipline reinforces that science and society are firmly linked.

- **Agricultural & Food Studies**
  - Monroe C
- **Agricultural Automation and Robotics**
  - Alfred State A
- **Agricultural Business**
  - Alfred State A
  - Cobleskill A
  - Morrisville A
- **Agricultural Business Development**
  - Morrisville B
- **Agricultural Business Management**
  - Cobleskill B
- **Agricultural Entrepreneurship**
  - Alfred State A
- **Agricultural Equipment Technology**
  - Alfred State B
- **Agricultural Mechanics**
  - Morrisville C
- **Agricultural Science**
  - Cobleskill A
  - Morrisville A
  - NYS College of Agriculture and Life Sciences at Cornell University B
- **Agriculture**
  - Animal Industry
    - Cobleskill A
  - Agriculture Education
    - Oneonta A
  - Agriculture Technology
    - Alfred State A
  - Animal Management
    - Niagara A
  - Animal Science
    - Beef & Livestock Studies
      - Cobleskill A
  - Animal Science: Dairy
    - Morrisville A
  - Animal Science: Dairy Production & Management
    - Cobleskill A
  - Animal Science: Equine Racing Management
    - Morrisville A
  - Animal Science: Equine Science & Management
    - Morrisville A
- **Animal Sciences**
  - NYS College of Agriculture & Life Sciences at Cornell B
  - Animal Studies: Equine Studies
    - Cobleskill A
  - Applied Fermentation
    - Cobleskill B
  - Dairy Management
    - Morrisville B
  - Equine Science
    - Morrisville B
  - Food Processing Technology
    - Geneseo B
  - Food Science
    - NYS College of Agriculture and Life Sciences at Cornell University B
  - Food Systems & Technology
    - Cobleskill B
  - Forest Ecosystem Science
    - Environmental Science & Forestry B
  - Forest Health
    - Environmental Science & Forestry B
  - Forest Resource Management: General Forestry
    - Environmental Science & Forestry B
  - Forest Technology
    - Adirondack A
  - Alfred State A
  - Canton A
  - Clinton A
  - Cornell A
  - Dutchess A
  - Environmental Science & Forestry A
  - Finger Lakes A
  - Morrisville B
  - Tompkins Cortland A
  - Golf and Sports Turf Management
    - Delhi B
  - Horticulture
    - Finger Lakes A C
    - Morrisville A
  - Horticulture Business Management
    - Morrisville B
  - Horticulture Sciences
    - Delhi
  - Horticulture Technology Management
    - Farmingdale B
- **Landscape Architecture**
  - Environmental Science & Forestry A
  - Landscape Design & Management
    - Morrisville A
  - Landscape Contracting
    - Cobleskill A
  - Landscape Development
    - Cobleskill A
  - Natural Resources Conservation:
    - Finger Lakes A C
  - Natural Resources Management
    - Environmental Science & Forestry B
  - Ornamental Horticulture
    - Farmingdale B
  - Ornamental Horticulture: Landscape Development
    - Cobleskill A
  - Plant Science
    - Cobleskill B
  - NW College of Agriculture and Life Sciences at Cornell University B
  - Renewable Energy
    - Morrisville B
  - Renewable Materials Science
    - Environmental Science & Forestry B
  - Renewable Resources Technology
    - Morrisville B
  - Solar Thermal Technology
    - Monroe C
- **Sustainability**
  - Monroe B
  - Sustainability Management:
    - Online degree
  - Environmental Science & Forestry B
  - Sustainability Studies
    - Corning A
  - Stony Brook B
  - Sustainable Crop Production
    - Cobleskill A
  - Sustainable Energy Management
    - Environmental Science & Forestry B
  - Sustainable Farming & Food Systems
    - Tompkins Cortland A
  - Turf Management
    - Cobleskill A
  - Turfgrass Management: Golf Turf Management
    - Cobleskill A
  - Turfgrass Management: Sports
    - Turf Management
    - Cobleskill B
  - Veterinary Science Technology
    - Alfred State A
    - Canton A
    - Delhi A
    - Suffolk A
    - Ulster A
  - Veterinary Technology
    - Geneseo A
  - Westchester A
  - Viticulture and Enology
    - NYS College of Agriculture and Life Sciences at Cornell University B
  - Viticulture and Wine Technology
    - Finger Lakes A
    - Winery Operations
    - Niagara County A
  - Wildlife Science
    - Environmental Science & Forestry B

**LIFE**
Life scientists study interactions among living things, such as plants, animals and humans. Their work may take them from a laboratory where they examine microscopic organisms to a rainforest where they observe the behavior of monkeys. Careers in life science cover a broad range of fields from science teacher to immunologist, but all focus on an area of life, whether at the cellular level or the global level.

- **Adolescence Biology**
  - Inclusive Education
    - Brockport B
- **Adolescence Education**
  - Biology
    - Buffalo State A
    - Columbia-Greene A
    - (Jointly registered with New Paltz)
  - Biomedical Science(s)
    - University at Buffalo B
    - Cortland B
    - Plattsburgh B
    - Biomedical Sciences/Pharmacy
    - University at Buffalo and Pharmacy
  - Biophysics
    - Geneseo B
  - Biostatistics
    - Farmingdale B
  - Biotechnological Science
    - Erie: North A
  - Biotechnology
    - University at Buffalo B
    - Cobleskill A
    - Environmental Science & Forestry B
  - Finger Lakes A
  - Hudson Valley A
  - Jamestown A
  - Monroe A
  - Niagara A
  - Schenectady A
  - Tompkins Cortland A C
  - Conservation Biology
    - Cortland B
    - Environmental Science & Forestry B
  - Ecology
    - Plattsburgh B
  - Environmental Biology
    - Environmental Science & Forestry B
  - Fermentation Science
    - Cobleskill B
  - Human Biology
    - Albany A
  - Human Evolutionary Biology
  - Stony Brook B
  - Marine Vertebrate Biology
    - Stony Brook B
  - Medical Biotechnology
    - Upstate Medical University B
  - Middle Childhood: Biology
    - Old Westbury B
  - Molecular Genetics
    - Fredonia A
  - Neurosciences
    - Geneseo B
  - Pharmaceutical Sciences
    - University at Buffalo B
  - Pharmacology & Toxicology
    - University at Buffalo B
  - Pharmacy
    - University at Buffalo B
  - Science, Technology & Society
    - Farmingdale B
    - Morrisville B
  - Zoology
    - Oswego B
  - Veterinary Technology
    - Alfred State A
    - Canton A
    - Geneseo A
    - Old Westbury B
    - Oneonta A
    - Oswego A
    - Plattsburgh B
    - Potsdam A
    - Purchase A
    - Stony Brook B
    - SUNY Poly B
    - Biology
      - Monroe A
      - Nassau A
      - Niagara A

**Key:** B = Bachelor’s Degree A = Associate Degree C = Certificate
### PHYSICAL SCIENCES

Analyzing the nature and properties of energy and non-living matter in any of the following sciences: chemistry, physics, astronomy, and geology.

<table>
<thead>
<tr>
<th>Program</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adolescence Chemistry</td>
<td>Brockport</td>
</tr>
<tr>
<td>Environmental Education</td>
<td>Plattsburgh</td>
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<tr>
<td>Atmospheric Science</td>
<td>Buffalo State</td>
</tr>
<tr>
<td>Earth Science</td>
<td>Cortland</td>
</tr>
<tr>
<td>Physics</td>
<td>Albany</td>
</tr>
<tr>
<td>Chemistry</td>
<td>Binghamton</td>
</tr>
<tr>
<td>Atmospheric Science</td>
<td>Buffalo State</td>
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<tr>
<td>Earth System</td>
<td>Cornell</td>
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<tr>
<td>Geoscience</td>
<td>University at Buffalo</td>
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<tr>
<td>Environmental Science</td>
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<td>Forestry</td>
<td>Oswego</td>
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<tr>
<td>Atmospheric Science</td>
<td>Douglass</td>
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<tr>
<td>Environmental Science</td>
<td>Geneseo</td>
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<tr>
<td>Forestry</td>
<td>Monro</td>
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<tr>
<td>Atmospheric Science</td>
<td>New Paltz</td>
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<tr>
<td>Earth System</td>
<td>Oswego</td>
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<td>Geoscience</td>
<td>Plattsburgh</td>
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<tr>
<td>Forestry</td>
<td>Potsdam</td>
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<tr>
<td>Atmospheric Science</td>
<td>Stoney Brook</td>
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<tr>
<td>Environmental Science</td>
<td>Ulster</td>
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### PHYSICAL SCIENCES (cont.)

<table>
<thead>
<tr>
<th>Program</th>
<th>Location</th>
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</thead>
<tbody>
<tr>
<td>Forensic Chemistry</td>
<td>Buffalo State</td>
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<tr>
<td>Forensic Science (Studies) Technology</td>
<td>Alfred State</td>
</tr>
<tr>
<td>Geochemistry</td>
<td>Hudson Valley</td>
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<tr>
<td>Atmospheric Science</td>
<td>Geneseo</td>
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<tr>
<td>Geoscience</td>
<td>Oswego</td>
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<tr>
<td>Geographic Information Science</td>
<td>University at Buffalo</td>
</tr>
<tr>
<td>Atmospheric Science</td>
<td>Douglass</td>
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<td>Atmospheric Science</td>
<td>Stoney Brook</td>
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</tbody>
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### WATER

Study the complex interaction between humans and natural environments through an integrated curriculum that blends physical and natural sciences, physical geography, technical and scientific coursework, and environmental ethics, policy, and law. New York's waterways provide a natural laboratory that facilitates the understanding of water and atmosphere, giving opportunities for problem-solving of environmental issues at the local, regional, and global level.

<table>
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<tbody>
<tr>
<td>Aquaculture &amp; Aquatic Science</td>
<td>Morrisville</td>
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<tr>
<td>Aquatic &amp; Fisheries Science</td>
<td>Environmental Science</td>
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<tr>
<td>Environmental Science</td>
<td>Forestry</td>
</tr>
</tbody>
</table>

### ENVIRONMENT

Environmental scientists seek to understand earth processes, evaluate alternative energy systems, and explore pollution control and mitigation, natural resource management, and the effects of global climate change. They utilize a systems (integrated, quantitative, and interdisciplinary) approach to analyze and identify solutions to environmental problems and improve the stewardship of environmental resources. Programs also focus on the preparation of the next generation of environmental science and policy leaders.

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<tbody>
<tr>
<td>Civil and Environmental Engineering</td>
<td>Canton</td>
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<tr>
<td>Environmental and Sustainability Sciences</td>
<td>WSU College of Agriculture &amp; Life Sciences at Cornell</td>
</tr>
<tr>
<td>Environmental Biology</td>
<td>Environmental Science &amp; Forestry</td>
</tr>
<tr>
<td>Environmental Design, Policy and Planning</td>
<td>Stoney Brook</td>
</tr>
<tr>
<td>Environmental &amp; Natural Resource Conservation</td>
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For more information about these academic programs, contact SUNY campuses on the web at [www.suny.edu/contactcampuses](http://www.suny.edu/contactcampuses)