

## Engineering Science

The Engineering Science major is for students interested in engineering methods and principles and their application to mathematics and natural sciences. At Stony Brook University, the major is a multidisciplinary study that provides the fundamental framework in physical and chemical sciences, material sciences and engineering, mathematics, and more. Students can pursue specialized, individual academic interests in addition to the core curriculum. For example, many students choose to supplement their studies with a minor in biomaterials, manufacturing engineering, physical metallurgy, or nanotechnology studies.



Because of engineering sciences' versatile and vigorous curriculum, numerous industries in fields like design and manufacturing, material engineering, mechanical engineering, bioengineering, physics, and chemistry actively seek engineering scientists. In addition numerous career fields, a degree in engineering science will also prepare students for graduate studies in engineering and material science, as well as law, business, and medicine.

### Transferable Skills

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- Thinking critically and analytically
- Arithmetic, technical, engineering & scientific knowledge
- Capability to apply knowledge to projects
- Interpret data
- Communication skills to resolve issues
- Solve problems and make detailed observations
- Analytical thinking and problem-solving
- Conveying information clearly and concisely
- Research skills in lab work and data management
- Logical thinking

### Career Communities to Consider

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- Technology & Engineering
- Research
- Education & Helping Professions