

Engineering

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<https://engineering.temple.edu/academics/departments/engineering-technology-management>

Goals, Objectives & Design Integration

The cross-disciplinary 128 credit Bachelor of Science in Engineering (BSE) combines learning from several areas to create unique skill sets that are highly marketable. The curriculum not only takes courses from several departments and offers concentrations or study plans in engineering but also provides a basis for further study in business, law, medicine or further study in an engineering graduate program. The interdisciplinary concentrations or study plans include:

- Computer Hardware and Software Engineering (study plan)
- Electromechanical Engineering (concentration)
- Energy and Power Engineering (concentration)
- Engineering Fundamentals (study plan)

To give students the opportunity to understand these specialties, the College provides a strong foundation in the basic sciences and mathematics in a common first year. The Department of Engineering, Technology, and Management then aims to bring together the in-demand cross-functional skill sets desired in many industries, including the analysis, design and development of systems for diverse applications. The curriculum emphasizes a rigorous treatment of the mathematical and scientific approach to the solution of engineering problems. The program has design across the curriculum and is capped with an integrated design experience in the form of a senior project.

The Bachelor of Science in Engineering Program shall produce graduates who:

1. will be employed in industries, academia and state or federal government agencies;
2. will advance their professional standing through graduate and/or professional degrees or lifelong learning;
3. will contribute to their profession and to society.

Programs

- Bachelor of Science in Engineering
- Bachelor of Science in Engineering - Electromechanical Engineering Concentration
- Bachelor of Science in Engineering - Energy and Power Engineering Concentration
- Engineering (Undeclared)