

# Engineering

## Applied Engineering and Technology Management

---

**Description of major:** The BSE program includes a required core of engineering courses as well as coursework in science and mathematics. In addition, the program requires completion of 1 of 3 concentrations that enable students to tailor the program to meet career goals.

- **Civil Engineering:** aspects of structural analysis of concrete design, wastewater/drinking water system design, hydrology, & transportation engineering.
- **Industrial Engineering:** reliability, maintainability, operations, & production planning.
- **Mechanical Engineering:** machinery dynamics, engineering design/management, heat transfer, & finite elemental analysis.

Engineering application & design considerations are explored with experiential learning, engaging students in research, testing, design, and analysis. Students also develop vital knowledge, skills, & abilities assuring a comprehensive understanding of engineering principles & disciplines

**Math Requirement:** Calculus I, II and III, Differential Equations, Advanced Statistics

**Science and Lab Requirement:** Physics, Chemistry

**Hands on/Lab Based:** Yes

**Theoretical/Analytical:** Yes

**Distance Program:** No

**Accreditation:** Higher Learning Commission

**Popular Jobs Associated:** Engineers, Technical Managers, Supervisors at engineering firms, government offices, manufacturing facilities- there is a critical need for engineers in Indiana.

**Average Salary Range:** Median entry-level salary is \$70,000-\$85,000

### Department or Major Contact Information:

AETM Department  
College of Technology  
Indiana State University  
812-237-9626

