

Engineering Major Course Requirements



Engineering

Do you like to tinker, tear things apart, and find out what makes them tick? Do you excel in math, science, and technology? Inspire invites you to accept the challenge presented by our four-year engineering program using the internationally acclaimed *Project Lead the Way™* curriculum. Engineering students will learn design principles and 3D solid modeling software, solve problems in applied sciences, build and program robots, and use math skills in hands-on, technologically rich classes and projects.

Foundation Courses – 20 credits required

- Intro to Engineering Design – 1 year / 10 credits
- Electronics / Robotics - 1 year / 10 credits

Breadth Courses – 30 credits required

- Principles of Engineering (PoE) – 1 year / 10 credits
- Computer Science and Software Engineering (CSE) - 1 year / 10 credits
- Biotechnical Engineering (BE/SS) - 1 year / 10 credits
- Digital Electronics (DE) - 1 year / 10 credits

Capstone Course – 10 credits required

- STEM Capstone - 1 year / 10 credits

Additional Required Courses – 80 credits required

- 4 years Mathematics – 40 credits required
- 4 years Science (including Physics) – 40 credits required

Additional Relevant Courses

- Art 1 – 10 credits
 - Art 2 – 10 credits
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