
**Key**
- **Required Course**
- **Tech Elective**
- **EM/ES Electives**
- **H/S Electives**
- **Math**
- **Science**

**Required for next course:**

**Concurrent:**

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**BEGIN HERE**

- 550.291 Linear Algebra / Differential Equations (or 110.201 and 110.302)
- Mathematics elective – 4 credits
- 560.348 or 550.310 Statistics
- 110.202 Calculus III or 110.211 Honors Multivariable Calculus
- 110.109 Calculus II
- 110.108 Calculus I
- 030.101 Intro to Chemistry
- 530.101/102, 530.105/106 Freshman Experiences and Labs or other intro to engineering options

**FINISH HERE**

- 530.302 / 212 Dynamics and Lab
- 530.201 Statics of Mechanics and Materials
- 530.215 / 216 Mechanics Based Design and Lab or 530.405 Mechanics of Solids / 530.216 MDB Lab
- 530.403/404 Senior Design I/II

**Humanities / Social Science Electives - total 18 credits / six courses required.**
- Humanities / Social Science elective 1
- Humanities / Social Science elective 2
- Humanities / Social Science elective 3
- Humanities / Social Science elective 4
- Humanities / Social Science elective 5
- Humanities / Social Science elective 6

**Intro to programming, if 530.101/102 and 105/106 not taken**

**Technical Electives - total 18 credits required, some electives may carry more than 3 credits, so the elective requirements might be achieved in less than six courses.**
- Technical Elective 1 – 3 credits
- Technical Elective 2 – 3 credits
- Technical Elective 3 – 3 credits
- Technical Elective 4 – 3 credits
- Technical Elective 5 - 3 credits
- Technical Elective 6* - 3 credits

**Basic Science, Mathematics, and Humanities / Social Science in other departments: some courses have science and math prerequisites not mapped here. See isis.jhu.edu/classes for info.**