# Major Requirements

## Lower Division Requirements

- **CHEM 6A** General Chemistry I
- **MATH 20A** Calculus I
- **MATH 20B** Calculus II
- **MATH 20C** Calculus III
- **MATH 20D** Differential Equations
- **MATH 18** Linear Algebra
- **PHYS 2A** Mechanics
- **PHYS 2B** Electricity and Magnetism
- **PHYS 2C** Flu, Wav, Thrm, Dyn, Optics
- **PHYS 2D** Relativity & Quantum
- **PHYS 2DL** Physics Lab - Modern Physics

## Upper Division Requirements

- **ECE 100** Linear Electronic Systems
- **ECE 101** Linear Systems Fundamentals
- **ECE 102** Intro Active Circuit Design
- **ECE 103** Fundamentals/Devices & Matris
- **ECE 107** Electromagnetism
- **ECE 109** Eng. Probability & Stats

## Depth: 7 courses

- **MATH 110A**
- **PHYS 110A**
- **PHYS 130A**
- **Phys 100A** (see notes below)
- **PHYS 130B**
- Design Course: ECE 111, 115, 191, or 190

## Electives

3 Professional

2 Technical

(see notes)

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**Please Note:**
- PHYS 2DL and PHYS 130A have prerequisites that are not listed above. PHYS 2DL requires PHYS 2BL or 2CL. PHYS 130A requires PHYS 100A and PHYS 110A. PHYS 100A can be used towards one elective.
- *ECE 123 & 166 or ECE 135A & 135B or ECE 182 & (181 or 183):*
  - The 2 depth courses indicated * are not always offered in fall and winter, consult with the ECE Undergraduate Office for more detailed information or visit our website.
- All courses used to satisfy major requirements must be taken for a LETTER GRADE and completed with a C– or better.
- These plans assume that students have completed equivalent lower division MATH, PHYS and CHEM courses at the community college that are required for the major.
- Depth courses are offered only once a year. Course offerings are subject to change.
- For personalized course plans, please set up an appointment with an advisor.
- **Due to six different college requirements, only major requirements are listed.**