### MAJOR REQUIREMENTS

#### LOWER DIVISION REQUIREMENTS

- **CHEM 6A** (General Chemistry I)
- **PHYS 2A** (Mechanics)
- **PHYS 2B** (Electricity and Magnetism)
- **PHYS 2C** (Flu, Wav, Thrdyn, Optics)
- **PHYS 2D** (Relativity & Quantum)
- **MATH 20A** (Calculus I)
- **MATH 20B** (Calculus II)
- **MATH 20C** (Calculus III)
- **MATH 20D** (Differential Equations)
- **MATH 20E** (Vector Calculus)
- **MATH 18** (Linear Algebra)
- **ECE 5** (Intro to ECE)
- **ECE 15** (Engineering Computation)
- **ECE 25** (Intro to Digital Design)
- **ECE 30** (Intro to Computer Eng)
- **ECE 35** (Intro to Analog Design)
- **ECE 45** (Circuits & Systems)
- **ECE 65** (Components & Circuits Lab)

#### UPPER DIVISION REQUIREMENTS

**BREADTH**

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

**DEPTH**

- **ECE 135A** (Semiconductor Physics)
- **ECE 135B** (Electronic Devices)
- **ECE 136L** (Microelectronics Laboratory)
- **ECE 183** (Optical Electronics)

- **Design Course:** ECE 111, 191, or 190

#### ELECTIVES

- 4 Technical
- 2 Professional

### FALL | WINTER | SPRING | SUMMER

| Year 1 | | | |
| Year 2 | | | |
| Year 3 | | | |
| Year 4 | | | |

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**Major Requirement Notes:**

- All courses used to satisfy major requirements must be taken for a LETTER GRADE.

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**Electrical Engineering:**

**Electronic Devices & Materials Depth**

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**Questions?** Go to `vac.ucsd.edu`

**Updated 2/23/2017**