Electrical Engineering 2024-2025
Power & Renewable Energy Track

MAC1140 & MAC1114 - C or better grades

MAC 2311** Calculus I (4)
MAC 2312** Calculus II (4)
MAC 2313** Calculus III (4)
MAP 2302** Differential Equations (3)

**PHY 2048 & **PHY 2048L Physics for Eng 1 & Lab (4)
**PHY 2049 & **PHY 2049L Physics for Eng 2 & Lab (4)

EEL 3004C** Linear Circuits I (3)
EEL 3123C** Linear Circuits II (3)
EEL 3290 Global Energy Issues (3) PR: EEL 3004C
EEL 3552C Signal Anal & Analog Com (4) PR: EEL 3123C
EEL 3570 Electromagnetic Fields (3) PR: EEL 3004C
EEL 3575C Electrical Machines (4) PR: EEL 3123C
EEL 3742C Robust Control (4) PR: EEL 3657
EEL 4205 Electric Machinery (3) PR: EEL 3004C
EEL 4216 Embedded Systems (3)
EEL 4294 Introduction to Smart Grids (3) PR: EEL 4216

MAC 2311** Engineering Analysis (3)
EEG 3211** Engineering Analysis and Computation (3)

CHS 1440** Principles of Chemistry (4)

EE 3342C** Digital Systems (3)
EE 3801C** Computer Organization (4)

EEL 3801C** Linear Circuits I (3)
EEL 3926L Engineering Design Foundation (1)

STA 3032 Probability / Statistics (3)

Select 2 Junior Electives

Select 3 Senior Electives

All courses with “**” require a grade of C (2.0) or better.
**Electrical Engineering 2024-2025**

**Power & Renewable Energy Track**

**Semester 1**
- MAC1140 & MAC1114 - C or better grades
- MAC 2311** Calculus I (4)
- MAC 2312** Calculus II (4)
- EGN 3420** Engineering Analysis (3)
- CHS 1440** Principles of Chemistry (4)
- EGS 1006C Intro to Engrineering (1)
- EGN 1007C Engr. Concepts and Methods (1)
- Tech Electives See Advisor (13-15)
- Tech Electives See Advisor (15-17)
- Select 2 Junior Electives

**Semester 2**
- MAC 2313** Calculus III (4)
- **PHY 2048 & **PHY 2048L Physics for Eng 1 & Lab (4)
- EEL 3004C** Linear Circuits I (3)
- EEL 3123C** Linear Circuits II (3)
- EEL 3552C Signal Anal & Analog Com (4)
- EEE 3350 Semiconductor Devices (3)
- EEE 3342C** Digital Systems (3)
- EEL 3290 Global Energy Issues (3)
- EEE 3342C** Computer Organization (4)
- EEE 3350 Global Energy Issues (3)
- EEL 3801C** Computer Organization (4)
- Select 2 Junior Electives

**Semester 3**
- MAP 2302** Differential Equations (3)
- EEL 3004C** Linear Circuits I (3)
- EEL 3123C** Linear Circuits II (3)
- EEL 3470 Electromagnetic Fields (3)
- EEL 4216 Fundamentals of Electric Power Systems (3)
- EEL 3926L Engineering Design Foundation (1)
- EEL 4294 Introduction to Smart Grids (3)
- EEL 4750 DSP Fundamentals (3)
- EEL 4205 Electric Machinery (3)
- Select 3 Senior Electives

**Semester 4**
- STA 3032 Probability / Statistics (3)
- EEL 3657 Linear Control Systems (3)
- EEE 3307C Electronics I (4)
- EEL 3612C Robust Control (4)
- EEL 4750 DSP Fundamentals (3)
- EEL 4914 Senior Design I (3)
- EEL 4915L Senior Design II (3)
- Select 3 Senior Electives

**Pending Requirements**
- PREREQUISITE:
- COREQUISITE:
- PREREQUISITE:
- COREQUISITE:

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