BS Engineering – Electrical Engineering (EENG) Concentration – 2022

Freshman
- Fall: ENGR 1012 (2) Engineering Graphics
- Spring: ENGR 1016 (2) Introduction to Engineering Design
- Fall: MATH 2171 (4) Calculus I
- Spring: MATH 2152 (3) Calculus II
- Fall: CHEM 1150/1151 (4) General Chemistry I
- Spring: ENGL 1100 (3) Composition

Sophomore
- Fall: ENGR 2000 (1) Engineering Design/PM I
- Spring: ENGR 2011 (1) Linear Algebra Lab
- Fall: MATH 2153 (3) Calculus III
- Spring: ENGR 2514 (4) Circuit Analysis
- Fall: ENGR 2450 (3) Statics
- Spring: ENGR 2410 (3) Digital Circuits
- Fall: ENGR 1000 (1) Intro to Engineering
- Spring: ENGR 2516 (3) Computer Applications in Engineering

Junior
- Fall: ENGR 3000 (2) Engineering Design/PM II
- Spring: ENGR 3750 (3) Power Systems
- Fall: ENGR 3420 (2) Engineering Economics
- Spring: ENGR 3023 (3) Signals and Systems
- Fall: EENG 2410 (2) Engineering Design
- Spring: ENGR 3024 (3) Mechanics of Materials

Senior
- Fall: ENGR 4010 (2) Capstone Design I
- Spring: ENGR 4020 (2) Capstone Design II
- Fall: ENGR 3013 (3) AC Circuits
- Spring: ENGR 3050 (3) Sensors Measurements and Controls
- Fall: ENGR 4510 (3) Control System Design
- Spring: Humanities/Fine Arts Elective (3)

Math/Science: 32 hours
- MATH 2171 (4) Calculus I
- MATH 2152 (3) Calculus II
- MATH 2153 (3) Calculus III
- ENGR 2050 (3) Computer Applications in Engineering
- CHEM 1150/1151 (4) General Chemistry I

General: 27 hours
- ENGR 1000 (1) Intro to Engineering
- ENGR 2070 (3) Materials and Processes
- ENGR 2410 (3) Digital Circuits
- ENGR 2514 (4) Circuit Analysis
- ENGR 2001 (1) Linear Algebra Lab
- ENGR 2516 (3) Computer Applications in Engineering
- ENGR 2518 (3) Computer Applications in Engineering

Revision Date: June 13, 2022

See other side for legend, other important information
Concentration-specific courses are only offered in the semester shown on this sheet.

**Diversity:** At least one elective course must be designated as GD (Global Diversity) and at least one elective course must be designated as DD (Domestic Diversity).

**Humanities/Fine Arts:** Must complete at least one course in the humanities and one course in fine arts.

**Social Sciences:** Must complete courses in at least two different subject areas.

Students may take BIOL 1100/1101 Principles of Biology I/Lab in lieu of BIOL 1050/1051 General Biology I/Lab

Students may use MATH 2154 Engineering Linear Algebra and Differential Equations as a prerequisite in lieu of ENGR 2001 Linear Algebra Lab 1 or MATH 4331 Introduction to Ordinary Differential Equations

Approved technical electives for the **Electrical Engineering Concentration** (as of Fall 2021)

- Any 3000, 4000, or 5000 level engineering class not required for the EENG concentration will count as a technical elective
- CSCI 3300: Introduction to Algorithms and Data Structures
- CSCI 3310: Advanced Data Structures and Data Abstraction
- CSCI 4520: Introduction to Computer Architecture
- CSCI 4530: Computer Networks and the Internet
- CSCI 4540: Introduction to Mobile Communications and Wireless Security
- CSCI 5800: Artificial Intelligence
- ECON 5000: Data Analysis
- MATH 4110: Elementary Complex Variables
- MATH 4201: Introduction to Stochastic Processes
- PHYS 4326: Electricity and Magnetism I
- PHYS 4327: Electricity and Magnetism II
- PHYS 4416: Modern Physics I
- PHYS 4417: Modern Physics II

Note: This chart is for planning purposes only. It is the student’s responsibility to ensure that requirements as detailed in the Undergraduate Catalog are met.