Bachelor of Science in Engineering Innovation and Leadership (Electrical Engineering Concentration Starting with Calculus)

Required Semester Credit Hours (SCH): 125

Refer to the University Catalog for all degree requirements at catalog.utep.edu.
Many core curriculum courses are also offered in the summer (Su). Students are encouraged to register early and check Goldmine for course availability.

**Sample Degree Plan**

**Freshman Year**
- **First Semester**
  - RWS 1301 Rhetoic and Comp. I (10F)
  - EL 1301 Eng. Innovation & Lead (10F)
  - MATH 1312* Calculus (10F)
  - CS 1320 Computer Programming (10F)

- **Second Semester**
  - RWS 1302 Rhetoic and Comp. II (10F)
  - HIST 1301 History of U.S. to 1865 (10F)
  - PHYS 2321 & 2121 Introductory Mechanics & Lab (10F)
  - CHEM 1305 General Chemistry (10F)

**Sophomore Year**
- **First Semester**
  - EL 1402* Fund. of Lead Design & Graph (10F)
  - EL 2301* Modeling and Sensation (10F)
  - MATH 2313* Calculus II (10F)
  - MATH 3323* Matrix Algebra (10F)

- **Second Semester**
  - EL 2302* Engineering Measurements (10F)
  - ECE 3373* IE 3373* of EE 3384* (10F)
  - MATH 3326* Differential Equations (10F)
  - CHEM 1305 General Chemistry (10F)

**Junior Year**
- **First Semester**
  - EL 3321* Eng. Design: People to Prod (10F)
  - ECE 2301* Electric Circuits I (10F)
  - MATH 3323* Matrix Algebra (10F)
  - ECE 2103 (10F)

- **Second Semester**
  - EL 3332 Eng. Engr: Prod to People (10F)
  - ECE 2301* Electric Circuits II (10F)
  - MATH 3326* Differential Equations (10F)
  - ECE 2303 & 2103 Digital Design I & Lab (10F)

**Senior Year**
- **First Semester**
  - EL 4396* CD II: Develop & Evaluation (10F)
  - MATH 3305* Professional Practice II (10F)
  - PHIL 2306 Ethics (10F)
  - Rhetoric and Comp. II (10F)

- **Second Semester**
  - EL 4395* CD I: Def & Exploration (10F)
  - MATH 3305* Professional Practice II (10F)
  - PHIL 2306 Ethics (10F)
  - Rhetoric and Comp. II (10F)

*C or better required. Arrow indicates a prerequisite. Color-coded boxes group the course subject. F/Sp/Su indicates the semesters Fall/Spring/Summer. Last Updated: May 2023