Bachelor of Science in Engineering Innovation and Leadership (Civil Engineering Concentration Starting with Precalculus)

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.

The flowchart below may not reflect all student schedules; courses can be shifted to different semesters where applicable.

** SCH Not counted in total degree required semester credit hours. Arrow indicates a prerequisite.

See University Catalog

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### Required Semester Credit Hours (SCH): 125

#### Freshman Year
- First Semester (3-5 SCH**)
  - MATH 1508 Precalculus
  - MATH 1310 Trigonometry & Conics
  - CS 1320 Computer Programming

- Second Semester (17 SCH)
  - EL 1401 Eng. Innovation & Lead
  - PHIS 2320 & 2120 Introductory Mechanics & Lab
  - EL 1402 Fund. of Lead Design & Graph

#### Sophomore Year
- First Semester (16 SCH)
  - RWS 1301 Rhetoric and Comp. I
  - HIST 1301 History of U.S. to 1865
  - PHYS 2321 & 2121 Introductory Electromagnet & Lab
  - CE 2326 Eng. for Engs. & Scientists

- Second Semester (15 SCH)
  - MATH 1312*
  - PHIS 2320 & 2120 Introductory Mechanics & Lab
  - CE 1301* Civil Engineering Fundamentals
  - PHYS 2321 & 2121 Introductory Electromagnet & Lab

#### Junior Year
- First Semester (15 SCH)
  - EL 3303* Professional Practice I
  - EL 3330* Eng. Design: People to Products
  - CE 2315* Statics
  - CE 2330 or MECH 2340

- Second Semester (15 SCH)
  - MATH 2313*
  - MATH 2326* Differential Equations
  - MATH 2332* Matrix Algebra
  - MATH 2334* Mechanics of Materials

#### Senior Year
- First Semester (15 SCH)
  - EL 4395* CD III: Develop & Evaluation
  - P mL 4171 Eng. Ed & Lead Problems
  - CE 2338 or 3336 or 2385

- Second Semester (16 SCH)
  - EL 3005* Prof Practice II
  - EL 3006* CD I: Def & Exploration
  - CE 2338 or MECH 2340

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*C or better required.

F/Sp/Su indicates the semesters Fall/Spring/Summer.

C or better required.

Color-coded boxes group the course subject.

Catalog Year 2023-2024

Sample Degree Plan

Last Updated: May 2023