Bachelor of Science in Engineering Innovation and Leadership  (Metallurgical and Materials 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.

Degree Prerequisite:
- MATH 1508 or MATH 1310
- RWS 1301
- HIST 1301
- PHYS 2320 & 2120
- CS 1320
- Foundational Math/Science

University Core Curriculum:

Freshman Year First Semester (3-5 SCH**)
- MATH 1411 Calculus
- CHEM 1305 General Chemistry
- MATH 1312 Calculus II

Freshman Year Second Semester (16 SCH)
- MATH 2313* Calculus III
- MATH 2326* Differential Equations
- MATH 3323* Matrix Algebra

Sophomore Year First Semester (16 SCH)
- MEE 2434 Mechanics of Materials
- MEE 2303 Intro to Materials Sci & Engineering

Sophomore Year Second Semester (16 SCH)
- MEE 2301* Found of Lead Design & Graphic
- MEE 3302* Modeling and Simulation

Junior Year First Semester (15 SCH)
- MEE 3331* EE 3377 or MECH 2342
- CE 2326 Econ for Engrs & Scientists

Junior Year Third Semester (15 SCH)
- MEE 2321 & 2121 Introductory Electromagnet & Lab
- HIST 1302 History of U.S. since 1865

Senior Year First Semester (0 SCH)
- Summer

Senior Year Second Semester (15 SCH)
- RWS 1301
- HIST 1301
- PHYS 2320 & 2120

Senior Year Third Semester (15 SCH)
- MEE 2302
- HIST 1302
- PHYS 2321 & 2121

Creative Arts
- PHIL 2306 Ethics

American Gov. and Politics
- POLS 2311
- POLS 2310

See University Catalog

Professional Practice I
- Summer

Professional Practice II
- Summer

Sample Degree Plan

** SCH Not counted in total degree required semester credit hours.

*C or better required.

Sample Degree Plan

Arrow indicates a prerequisite.

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