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

Many core curriculum courses are also offered in the summer (Su). Students are encouraged to register early and check Goldmine for course availability.

Refer to the University Catalog for all degree requirements at catalog.utep.edu.

Bachelor of Science in Engineering Leadership (Metallurgical and Materials Engineering Concentration)

Required Semester Credit Hours (SCH): 125

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

*Cor better required.

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

Arrow indicates a prerequisite.

- **MATH 1508** Pre-calculus
- **MATH 1310** Calculus
- **HIST 1301** History of U.S. to 1865
- **PHYS 2420** Introductory Mechanics
- **PHYS 2421** Introductory Electromagnet
- **CE 2326** Eco for Engs & Scientists
- **CS 1320** Computer Programming for Sci/Engr
- **PHIL 2306** Ethics
- **Creative Arts**
- **EL 1405** Fund of Eng Lead and Lead.
- **RWS 1301** Rhetoric and Comp. I
- **RWS 1302** Rhetoric and Comp. II
- **AIR 2301** Modeling & Simulation
- **AIR 3302** Engineering Measurements
- **AIR 3303** Intro to Materials Sci & Engineering
- **MME 2303** Mechanics of Materials
- **MME 2305** Material & Energy Balance
- **MME 2306** Leadshp.
- **MME 3312** Biomat., Biomat. Printing & Dev
- **MME 4309** Senior Project
- **MME 4316** Senior Project
- **See University Catalog**
- **MME 2303** Intro to Materials Sci & Engineering
- **MME 3309** Electronic Materials Science
- **MME 3310** Biomat., Biomat. Printing & Dev
- **MME 4309** Senior Project

**University Core Curriculum**

- **UNIV 1301** Seminar Inquiry
- **RWS 1301** Rhetoric and Comp. I
- **RWS 1302** Rhetoric and Comp. II
- **HIST 1302** History of U.S. since 1865
- **PHYS 2420** Introductory Mechanics
- **PHYS 2421** Introductory Electromagnet
- **CE 2326** Eco for Engs & Scientists
- **CS 1320** Computer Programming for Sci/Engr
- **PHIL 2306** Ethics
- **Creative Arts**

**Engineering Leadership Major**

- **MATH 1508** Pre-calculus
- **MATH 1310** Calculus
- **CHEM 1305** General Chemistry
- **MATH 2313** Calculus III
- **MATH 2326** Differential Equations
- **MATH 3323** Matrix Algebra
- **MATH 1411** Calculus
- **MATH 1312** Calculus II
- **MATH 2313** Calculus III
- **MATH 2326** Differential Equations
- **MATH 3323** Matrix Algebra
- **MATH 1411** Calculus
- **MATH 1312** Calculus II
- **MATH 2313** Calculus III
- **MATH 2326** Differential Equations
- **MATH 3323** Matrix Algebra
- **MATH 1411** Calculus
- **MATH 1312** Calculus II
- **MATH 2313** Calculus III
- **MATH 2326** Differential Equations
- **MATH 3323** Matrix Algebra

Sample Degree Plan 2020-2021