**Example 4-year plan**

**Year 1**

**Fall**
- (4†) MATH 1710, Calc. I
- (3†) CHEM 1410, General Chem.
- (1†) CHEM 1430, General Chem. Lab
- (3*) ENGL. 1310, 1313, 1315, TECM 1700 (Coll. Writing)
- (3*) HIST. 2610, US Hist to 1865

**Spring**
- (3) MATH 1720, Calc. II
- (3) CHEM 1420, General Chem. II
- (3†) PHYS 1710, Mechanics Lab
- (1*) PHYS 1730, Mechanics Lab
- (3*) TECM 2700 (Tech Writing)

**Notes:**
- † = Engineering Foundations
- * = UNT Core

**Year 2**

**Fall**
- (3) MATH 2700, Linear Algebra & Vector Geometry
- (3) MATH 3410, Differential Equations
- (1†) PHYS 1710, Mechanics
- (3) PHYS 2240, Lab. in Wave Motion, Electricity, Magnetism, and Optics
- (3) ENGR 2301, Statics

**Spring**
- (3) PHYS 3010, Modern Physics
- (1) PHYS 2240, Lab. in Wave Motion, Electricity, Magnetism, and Optics
- (4) ENGR 2332, Mechanics of Materials
- (3*) ENGR 1201 (Vijay) Discovery Course

**Year 3**

**Fall**
- (3) MTSE 3010, Bonding and Structure
- (3) MTSE 3020, Microstructure & Characterization of Materials
- (3) MTSE 3030, Thermodynamics and Phase Diagrams
- (3) MTSE 3040, Transport Phenomena in Materials

**Spring**
- (3) MTSE 3050, Mechanical Properties of Materials
- (3) MTSE 3060, Phase Transformations in Materials
- (3) MTSE 3070, Electronic, Optical, and Magnetic Properties
- (3) MTSE 3080, Materials Processing

**Year 4**

**Fall**
- (3) MTSE 4010, Physical Metallurgy Principles (prerequisites: MTSE 3010, 3030, 3040)
- (3) MTSE 4xxx, MTSE Elective
- (3) MTSE 4030, Ceramic Science and Engr. (prerequisites: MTSE 3010, 3020, 3040)

**Spring**
- (3) MTSE 4xxx, MTSE Elective
- (3) MTSE 4060, Materials Selection & Performance (prereq.: MTSE3010, 3040, 3050)
- (3*) MTSE 4100, Senior Res. Proj. II (Capstone) (prereq.: MTSE 4090)
- (3*) Social & Behavioral Science

**Notes:**
- (4†) MATH 1710, Calc. I
- (3) MATH 1720, Calc. II
- (3) MATH 3410, Differential Equations
- (3) PHYS 1710, Mechanics
- (1*) PHYS 1730, Mechanics Lab
- (3*) TECM 2700 (Tech Writing)
- (3*) PSCI 1040, American Government I
- (3*) ENGR 1201 (Vijay) Discovery Course

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