BS – Manufacturing Engineering

(SC–BS/MFGE)

2015 Catalog year: College of Science and Engineering

**Freshman Fall semester**
- PHYS 1430 (F,S) Mechanics
- MATH 2471 (F,S,Su) Calculus I
- CHEM 1341 (F,S,Su) General Chemistry I
- ENGR 1313 (F,S,Su) Engineering Design Graphics

**Freshman Spring semester**
- PHYS 2425 (F,S) Electricity & Magnetism
- MATH 2472 (F,S,Su) Calculus II
- CHEM 1141 (F,S,Su) General Chemistry II
- ENGR 2300 (F,S,Su) Materials Engineering

**Sophomore Fall semester**
- PHYS 1430 (F,S) Mechanics
- PHYS 2425 (F,S) Electricity & Magnetism
- MATH 3323 (F,S,Su) Differential Equations
- CHEM 1341 (F,S,Su) General Chemistry I
- MATH 3316 (F,S) Computer Aided Design & Model
- MFGE 4363 (F,S) Concurrent Engineering
- MGT 4330 (F,S) Operations Management

**Sophomore Spring semester**
- PHYS 2425 (F,S) Electricity & Magnetism
- MATH 3316 (F,S) Computer Aided Design & Model
- MFGE 4363 (F,S) Concurrent Engineering
- MGT 4330 (F,S) Operations Management

**Junior Fall semester**
- CS 1428 (F,S,Su) Foundations of Computer Science I
- ENGR 3373 (F,S) Groups & Devices
- ENGR 3311 (F,S,Su) Manufacturing Processes (if applicable)
- Materials Engineering
- Manufacturing Engineering
- Manufacturing Economic Analysis
- IE 3360 (F,S) Methods Engineering & Ergonomics
- IE 4355 (F,S) Facilities Planning

**Junior Spring semester**
- ENGR 3315 (F,S) Engineering Economic Analysis
- ENGR 3373 (F,S) Groups & Devices
- MGT 3303 (F,S) Management of Organizations
- IE 3330 (F,S) Quality Engineering
- MFGE 4365 (F,S) Concurrent Engineering
- MFGE 4395 (F,S) Manufacturing Systems Design
- MGT 4330 (F,S) Operations Management

**Senior Fall semester**
- Choose 3-4 hours: MATH 3373, MATH 3330, PHYS 2455, PHYS 3315, CHEM 1342/1442
- ENGR 3311 (F,S,Su) Manufacturing Processes (if applicable)
- Materials Engineering
- Manufacturing Engineering
- Manufacturing Economic Analysis
- IE 3360 (F,S) Methods Engineering & Ergonomics
- IE 4355 (F,S) Facilities Planning
- MFGE 4365 (F,S) Concurrent Engineering
- MFGE 4395 (F,S) Manufacturing Systems Design
- MGT 4330 (F,S) Operations Management

**Senior Spring semester**
- Choose 8 hours manufacturing processes elective:
  - MFGE 4355 (S) TECH 4330 (F)
  - MFGE 4357 (F) MFGE 4394 (F)
  - MFGE 4399A (F) MFGE 4367 (S)
  - MFGE 4399B (F) MFGE 4392 (F)
  - Check prerequisites

**Required WI courses**:
- MFGE 4363 (F,S) Concurrent Engineering
- MFGE 4395 (F,S) Manufacturing Systems Design

**Additional WI courses**:
- MFGE 4365 (F,S) Concurrent Engineering
- MFGE 4395 (F,S) Manufacturing Systems Design

**KEY**:
- Arrows indicate prerequisites.
- Arrows with dashed lines indicate corequisites.
- Arrows with dash lines are recommended prerequisites.
- Courses taught in specific semesters are indicated with the following codes:
  - F-Fall
  - S-Spring
  - Su-Summer Session I or II
- Required WI courses: MFGE 4363, 4395, 4396
- Additional WI courses:
  - MFGE 4363 (F,S) Concurrent Engineering
  - MFGE 4395 (F,S) Manufacturing Systems Design

**Note**: In addition to major courses, students must also complete all core and minor requirements (if applicable) and any other requirements for graduation.

This is not an official degree audit and it is subject to change. This chart is intended to be used by students who start out at Texas State. Please contact the College of Science and Engineering Undergraduate Advising Center for advising.