BS – Manufacturing Engineering (SC-BF/MFGE)

2017 Catalog year: College of Science and Engineering

**Key**:
- Arrows indicate prerequisites.
- Arrows with dotted lines indicate co-requisites.
- Arrows with dash lines are recommended prerequisites.
- Courses taught in specific semesters are indicated with the following codes:
  - F = Fall
  - S = Summer
  - Spring
  - SU = Summer Session I or II
- Required WI courses: MFGE 4395, 4396
- Additional WI courses: TECH 4330, IE 4360

**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.

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**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
- ENGR 2300 (F,S) Materials Engineering

**Sophomore Fall semester**
- PHYS 1430 (F,S) Mechanics
- MATH 2471 (F,S,Su) Calculus I
- CHEM 1341 (F,S,Su) General Chemistry I

**Sophomore Spring semester**
- PHYS 2425 (F,S) Electricity & Magnetism
- MATH 2472 (F,S,Su) Calculus II
- ENGR 2300 (F,S) Materials Engineering

**Junior Fall semester**
- CS 1428 (F,S,Su) Foundations of Computer Science I
- CHEM 1342/1142
- ENGR 3373 (F,S) Groups & Devices
- ENGR 3375 (F,S,Su) Engineering Mechanics
- MATH 3377 (F,S) Linear Algebra

**Junior Spring semester**
- ENGR 3311 (F,S) ME 4375 also an acceptable prerequisite
- MATH 3323 (F,S,Su) Differential Equations
- IE 3320 (F,S) Engineering Statistics

**Senior Fall semester**
- Choose 3-4 hours: MATH 3373, MATH 3330, PHYS 2485, PHYS 3315, CHEM 1342/1142
- ENGR 3315 (F,S) Engineering Economic Analysis
- IE 3360 (F,S) Methods Engineering & Ergonomics
- IE 4355 (F,S) Facilities Planning

**Senior Spring semester**
- Choose 5 hours manufacturing processes elective: MFGE 4355 (F), IE 4330 (F), MFGE 4391, MFGE 4395, MFGE 4399C, If with prior approval of Manufacturing Program Coordinator
- MFGE 4390 (F,S) Must be senior Manufacturing Engineering Senior Design I
- MFGE 4391 (F,S) Must be senior Manufacturing Engineering Senior Design II
- MFGE 4395 (F,S) Manufacturing Operations Management
- MGT 4330 (F,S) Senior Design II
- MGT 4330 (F,S) Operations Management

**Core courses must be completed**
- US 1100
- COMM 1310
- PHIL 1305 or 1320
- ENG 1310
- ENG 1320
- ART/DAN/MU/TH 2313
- HIST 1310
- HIST 1320
- POSI 2310
- POSI 2320
- ECO 2301 or ECO 2314

US 1100 & ENG 1310 recommended for first semester. HIST 1310/1320 not recommended for first semester.