BS – Manufacturing Engineering  
(SC-Bs/MFGE)  
2016 Catalog year: College of Science and Engineering

Freshman Fall semester
- PHYS 1430 (F,S) Mechanics
- PHYS 2425 (F,S) Electricity & Magnetism
- MATH 2471 (F,S,S) Calculus I
- MATH 2472 (F,S,S) Calculus II
- CHEM 1341 (F,S,S) General Chemistry I
- CHEM 1141 (F,S,S) General Chemistry I
- ENGR 1313 (F,S) Engineering Design Graphics

Freshman Spring semester
- PHYS 1430 (F,S) Mechanics
- PHYS 2425 (F,S) Electricity & Magnetism
- MATH 2471 (F,S,S) Calculus I
- MATH 2472 (F,S,S) Calculus II
- CHEM 1341 (F,S,S) General Chemistry I
- CHEM 1141 (F,S,S) General Chemistry I
- ENGR 1313 (F,S) Engineering Design Graphics

Sophomore Fall semester
- CS 1428 (F,S,S) Foundations of Computer Science I
- ENGR 2300 (F,S,S) Materials Engineering
- MFGE 2332 (F,S,S) Materials Selection

Sophomore Spring semester
- PHYS 2425 (F,S) Electricity & Magnetism
- ENGR 3375 (F,S,S) Engineering Mechanics
- MATH 3323 (F,S,S) Differential Equations
- IE 3320 (F,S) Engineering Statistics

Junior Fall semester
- ENGR 3373 (F,S) Circuits & Devices
- MATH 3377 (S,S) Linear Algebra
- MFGE 3316 (F,S) Computer Aided Design & Modelling

Junior Spring semester
- CS 1428 (F,S,S) Foundations of Computer Science I
- ENGR 3373 (F,S) Circuits & Devices
- MATH 3377 (S,S) Linear Algebra
- MFGE 3316 (F,S) Computer Aided Design & Modelling

Senior Fall semester
- ENGR 3315 (F,S) Engineering Economic Analysis
- MATH 4363 (F,S) Must be senior Concurrent Processes Engineering
- MFGE 4363 (F,S) Concurrent Processes Engineering

Senior Spring semester
- ENGR 3315 (F,S) Engineering Economic Analysis
- MATH 4363 (F,S) Must be senior Concurrent Processes Engineering
- MFGE 4363 (F,S) Concurrent Processes Engineering

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

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-Spring

Required WI courses: MFGE 4363, 4395, 4396

Core courses must be completed:
- __US 1100__
- __COMM 1310__
- __PHIL 1305 or 1320__
- __ENG 1310__
- __ENG 1320__
- __ENG 2310-2360__
- __HIST 1310__
- __HIST 1320__
- __ART/DAN/MU/TH 2313__
- __POS 2310__
- __POS 2320__
- __ECO 2301__

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