

# 2017-18 TTU ME Dept: BSME Flowchart

## Freshman

NONE  
**ENGL 1010 (3)**  
Writing 1  
NONE

ENGL 1010  
**ENGL 1020 (3)**  
Writing 2  
NONE

**HUFA 1 (3)**

**HUFA 2 (3)**

NONE  
**ENGR 1020 (1)**  
Connections to Engr.  
NONE

MATH 1720 or 1730  
**ENGR 1120 (2)**  
Programming  
MATH 1910

**HIST 2010/2020**  
NOTE: Only if American History not taken in High School

NONE  
**PHYS 2110 (4)**  
Physics 1  
MATH 1920

MATH 1000 OR ACT MATH >22  
**ENGR 1110 (2)**  
Engr. Graphics  
NONE

MATH 1730 OR ACT MATH >27  
**MATH 1910 (4)**  
Calculus 1  
NONE

NONE  
**CHEM 1110 (4)**  
Gen. Chem. 1  
NONE

## Sophomore

ENGL 1020  
**LIT (3)**  
(World, Amer, Brit.)  
NONE

NONE  
**COMM (3)**  
(PC 2500/COMM 2025)  
NONE

PHYS 2110  
**PHYS 2120 (4)**  
Physics 2  
MATH 2110 OR MATH 2120

MATH 1920, MATH 2010  
**ECE 2010 (3)**  
Circuits 1  
MATH 2120

MATH 1920  
**CEE 2110 (3)**  
Statics  
PHYS 2110

MATH 1910  
**MATH 2010 (3)**  
Matrix Algebra  
NONE

MATH 1920  
**MATH 2120 (3)**  
Diff. E.  
NONE

CHEM 1110  
**ME 3010 (3)**  
Materials  
NONE

CEE 2110, PHYS 2110  
**ME 2330 (3)**  
Dynamics  
NONE

MATH 1920  
**MATH 2110 (4)**  
Calculus 3  
NONE

**Legend for Flowchart:**

- Prerequisites
- Course Number**
- Course Title**
- Co-requisites

## Junior

ENGR 1120, MATH 2010, MATH 2120  
**ME 3001 (3)**  
Mech. Engr. Analysis  
NONE

ECE 2010, PHYS 2120  
**ME 3023 (3)**  
Measurements  
CEE 3110

CEE 2110  
**CEE 3110 (3)**  
Mech. of Materials  
NONE

Junior Standing  
**ME 4910 (1)**  
Prof. & Ethics  
NONE

ME 2330  
**ME 3720 (3)**  
Fluid Mechanics  
NONE

CHEM 1110, MATH 2110  
**ME 3210 (3)**  
Thermo 1  
NONE

ME 2330, ME 3023, ME 3001  
**ME 3050 (3)**  
DMC  
ME 3060

NONE  
**ME 3060 (1)**  
DMC Lab  
ME 3050

CEE 3110, ME 2330, ME 3010  
**ME 4010 (3)**  
Machine Design  
NONE

ME 2330  
**ME 3610 (3)**  
Dynamics of Mach.  
NONE

MATH 2120  
**ME 3710 (3)**  
Heat Transfer  
ME 3210

ME 3210  
**ME 3220 (3)**  
Thermo 2  
NONE

## Senior

**SBS 1 (3)**

**SBS 2 (3)**

**AOE 1 (3)**

**AOE 3 (3)**

**AOE 2 (3)**

**AOE 4 (3)**

**AOE 5 (3)**

**AOE 5 (3)**

ME 3220, ME 3710, ME 3720  
**ME 4720 (3)**  
Thermal Design  
NONE

ME 3023, ME 3710, ME 3720  
**ME 4751 (2)**  
Energy Systems Lab  
NONE

-OR-

ME 3610, ME 4010  
**ME 4020 (3)**  
Applied Mach.  
NONE

Complete 3000-Level ME Courses, ME 4010  
**ME 4410 (3)**  
Senior Design I  
ME 4020 OR ME 4720; ME 3050 & 3060, ME 4910

ME 4020 OR ME 4720; ME 4410, ME 4910 ME 3050 & 3060  
**ME 4420 (3)**  
Senior Design II  
NONE