

2018-19 TTU ME Dept: BSME Mechatronics Flowchart

Freshman

Sophomore

Senior

NONE
ENGL 1010 (3)
Writing 1
NONE

ENGL 1010
ENGL 1020 (3)
Writing 2
NONE

ENGL 1020 (C or better)
LIT (3)
(World, Amer, Brit.)
NONE

ENGL 1020
PC2500 (3)
ENGL 1020

Legend for Flowchart:

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

SBS 1 (3)

SBS 2 (3)

HUFA 1 (3)

NONE
CSC 1300 (4)
Comp. Pro.
*Take MCU-Based Lab section
MATH 1910

CSC 1300 (C or better)
or CSC 2100 (C or better)
ECE 2110 (3)
Intro to Digital Sys.
NONE

-OR-
NONE
COMM 2025 (3)
NONE

HUFA 2 (3)

* Optional but Encouraged
ECE 3060 (C or better)
ECE 3210 (C or better)
ECE 3260 (1)*
Cont. Sys. Lab
ECE 3210

NONE
ENGR 1020 (1)
Connections to Engr
NONE

ECE 2010 (C or better)
ECE 2011 (1)
Elect. Engr. Lab 1
ECE 2010

Junior

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

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

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

PHYS 2110 (C or better)
ECE 3010 or ME 3050
(C or better)
ECE 3210 (3)*
Cont. Sys. Analysis
NONE

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

MATH 1920
PHYS 2110 (4)
Physics 1
MATH 1920

PHYS 2110,
MATH 2110 or MATH 2120
PHYS 2119 (3)
Physics 2
MATH 2110 or MATH 2120

MATH 1920, (C or better)
MATH 2010 (C or better)
Math 2120 (C or better)
ECE 2010 (3)
Circuits 1
MATH 2120

ECE 2010, ECE 2011,
PHYS 2119
ME 3023 (3)
Measurements
CEE 3110

NONE
ME 3060 (1)
DMC Lab
ME 3050

-OR-
NONE
ME 4810 (3)
Auto Controls
ME 3050

NONE
ENGR 1110 (2)
Engr. Graphics
NONE

MATH 1920 (C or better)
CEE 2110 (3)
Statics
PHYS 2110

CSC 1300, MATH 2010,
MATH 2120
ME 3001 (3)
Mech Engr. Analysis
NONE

CHEM 1110
CEE 2110 (C or better)
ME 3010 (3)
Materials
NONE

ME 2330
ME 3720 (3)
Fluid Mechanics
NONE

ECE 2110 (C or better)
ECE 2011 (C or better)
CSC 2100 or CSC 1300
(C or better)
ECE 3130 (4)
Microcomputer Sys.
NONE

ME 3050, ME 3060,
ECE 2010, ECE 2011
ME 4370 (3)
Mechatronics
NONE

MATH 1730 (C or better)
or ACT (27 or better)
MATH 1910 (4)
Calculus 1
NONE

MATH 1910 (C or better)
MATH 1920 (4)
Calculus 2
NONE

MATH 1920 (C or better)
MATH 2120 (3)
Diff. E.
NONE

MATH 1920 (C or better)
MATH 2110 (4)
Calculus 3
NONE

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

MATH 2120
ME 3710 (3)
Heat Transfer
ME 3210

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

ME 4020 (5020) OR
ME 4720; ME 4410,
ME 4910, ME 3050
& ME 3060
ME 4420 (3)
Senior Design II
ME 4020 (5020)
or ME 4720

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

MATH 1910 (C or better)
MATH 2010 (3)
Matrix Algebra
NONE

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

ME 3210
ME 3220 (3)
Thermo 2
NONE

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