

## Michigan Technological University

### Minor in Aerospace Engineering

Program Code: EMAE, Academic Year 2019-20

Department of Mechanical Engineering – Engineering Mechanics

Total Credits Required: 18

#### Required Courses: 10 credits minimum

Course	Credits
MEEM 2150 Mechanics of Materials (3) <b>OR</b> ENG 2120 Statics-Strengths of Materials* (4)	
MEEM 3201 Energy-Thermal-Fluids II (4) <b>OR</b> ENG 3200 Thermodynamics/Fluid Mechanics* (4)	
MEEM 4810 Intro to Aerospace Engineering (3)	

#### Elective Courses: 4 credits minimum

Course	Credits
ENT 4950 Enterprise Project Work V** (2)	
ENT 4960 Enterprise Project Work VI** (2)	
ENT 4961 Enterprise Project Work VII** (1)	
MEEM 4210 Computational Fluids Eng. (3)	
MEEM 4720 Space Mechanics (3)	
MEEM 4230 Compressible Flow/Gas Dynamics (3)	
MEEM 4820 Intro to Aerospace Propulsion (3)	
MSE 4430 Composite Materials (3)	

#### Remaining Elective Courses: select remaining credits from the following list

Course	Credits
MEEM 4150 Intermediate Mechanics of Materials (3)	
MEEM 4170 Failure of Materials in Mechanics (3)	
MEEM 4180 Engineering Biomechanics (3)	
MEEM 4201 Applied Thermodynamics (3)	
MEEM 4202 Int. Fluid Mech & Heat Transfer (3/4)	
MEEM 4630 Human Factors (3)	
MEEM 4650 Quality Engineering (3)	
MEEM 4701 Analytical & Experimental Modal Analysis (4)	
MEEM 4704 Acoustics and Noise Control (3)	
MEEM 4705 Intro to Robotics and Mechatronics (4)	
MEEM 4707 Autonomous Systems (3)	
MSE 4120 Material and Process Selection in Design (3)	

\*Minor credit cannot be granted for ME majors for these two courses.

\*\*Requires minor advisor approval of project.

Prerequisite courses can be found in the undergraduate catalog.