

**Michigan Technological University****Minor in Aerospace Engineering**

Program Code EMAE, Academic Year 2021-22

Department of Mechanical Engineering – Engineering Mechanics

Total Credits Required: 18

**Required Courses: 10 credits minimum**

Course	Credits
MEEM 2150 Mechanics of Materials <b>OR</b> ENG 2120 Statics-Strengths of Materials*	3/4
MEEM 3201 Intro Fluid Mechanics & Heat Transfer <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 4202 Int. Fluid Mech & Heat Transfer	3/4
MEEM 4210 Computational Fluids Eng.	3
MEEM 4701 Analytical & Experimental Modal Analysis	4
MEEM 4720 Space Mechanics	3
MEEM 4230 Compressible Flow/Gas Dynamics	3
MEEM 4820 Intro to Aerospace Propulsion	3
MSE 4430 Composite Materials	3
MEEM 5180 Mechanics of 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 4630 Human Factors	3
MEEM 4650 Quality Engineering	3
MEEM 4702 Shock and Vibration	3
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.