MICHIGAN TECH - Mechanical Engineering - Technical Electives

2020-2021 Academic Year (Planned) Semesters/years offered subject to change.

Refer to the schedule of classes in BanWeb for current offerings, pre-requisites, restrictions, and course descriptions.

| EE4777 3 Open-Sou ENG4300 3 Engineerir MEEM4150 3 Intermedia MEEM4170 3 Failure of MEEM4180 3 Engineerir MEEM4200 3 Principles MEEM4201 3 Applied Tr MEEM4202 3 Intermedia MEEM4203 3 Computati MEEM4204 3 Computati MEEM4230 3 Computati MEEM4240 3 Computati MEEM4250 3 Heating/V MEEM4260 3 Fuel Cell MEEM4296 3 Experimer MEEM4404 3 Mechanisi MEEM4405 3 Introductio MEEM4610 3 Advanced MEEM4625 3 Precision MEEM4630 3 Human Fa MEEM4655 3 Production MEEM4655 3 Production MEEM4655 | | Summer 2020 | Fall 2020 | Spring 2021 | Aerospace Engineering Minor | Manufacturing Minor |
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| MEEM46853EnvironmedMEEM46953Additive MMEEM47014AnalyticalMEEM47014AnalyticalMEEM47023Shock andMEEM47043AcousticsMEEM47054IntroducticMEEM47073AutonomoMEEM47083Dynamic SMEEM47093Dynamic SMEEM47073AutonomoMEEM47083Dynamic SMEEM47093IntroducticMEEM47003IntroducticMEEM48203IntroducticMEEM48203IntroducticMEEM48203Naval SysMEEM51103ContinuumMEEM51303NanoscaleMEEM51603ExperimerMEEM51703Finite ElerMEEM52011FundamerMEEM52021FundamerMEEM52031SI EngineMEEM52041Diesel EngMEEM52103AdvancedMEEM52253AdvancedMEEM52303IntermediaMEEM52403ComputatiMEEM52503Internal CMEEM52553Advanced | of Material Handling Systems | | OT OFFERE | D | | SYSTEM |
| MEEM46953Additive MMEEM47014AnalyticalMEEM47023Shock andMEEM47043AcousticsMEEM47054IntroducticMEEM47073AutonomoMEEM47083Dynamic 3MEEM47093Space MeMEEM47203Space MeMEEM47203Space MeMEEM47203Dynamic 3MEEM47203IntroducticMEEM47203IntroducticMEEM47203IntroducticMEEM48203IntroducticMEEM48203IntroducticMEEM48203Naval SysMEEM5103ContinuumMEEM51303NaoscaleMEEM51603ExperimerMEEM51703Finite ElerMEEM52011FundamerMEEM52021FundamerMEEM52031SI EngineMEEM52041Diesel EngMEEM52053AdvancedMEEM52063IntermediaMEEM52073IntermediaMEEM52083AdvancedMEEM52093InternediaMEEM52093InternediaMEEM52093InternediaMEEM52093InternediaMEEM52093InternediaMEEM52093InternediaMEEM52093InternediaMEEM52093InternediaMEEM5209 <t< td=""><td>mentally Responsible Design & Manufacturing</td><td></td><td>OT OFFERE</td><td></td><td></td><td>OTOTEM</td></t<> | mentally Responsible Design & Manufacturing | | OT OFFERE | | | OTOTEM |
| MEEM4701 4 Analytical MEEM4702 3 Shock and MEEM4704 3 Acoustics MEEM4705 4 Introductic MEEM4707 3 Autonomo MEEM4707 3 Space Me MEEM4703 3 Dynamic S MEEM4730 3 Introductic MEEM4820 3 Introductic MEEM4820 3 Naval Sys MEEM5130 3 Naoscale MEEM5150 3 Advanced MEEM5160 3 Experimer MEEM5170 3 Finite Eler MEEM5201 1 Fundamer MEEM5202 1 Fundamer MEEM5203 1 SI Engine MEEM5204 1 Diesel Eng MEEM5205 3 Advanced MEEM5210 3 Advanced | Manufacturing | | | X | | PROCESS |
| MEEM4702 3 Shock and MEEM4704 3 Acoustics MEEM4705 4 Introductic MEEM4707 3 Autonomo MEEM4707 3 Space Me MEEM4703 3 Dynamic S MEEM4704 3 Dynamic S MEEM4707 3 Space Me MEEM4730 3 Dynamic S MEEM4705 4 Analysis 8 MEEM4703 Introductic MEEM4800 3 Introductic MEEM4810 3 Introductic MEEM4800 3 Naval Sys MEEM5100 3 Advanced MEEM5100 3 Experimer MEEM5170 3 Finite Eler MEEM5201 1 Fundamer MEEM5202 1 Fundamer MEEM5203 1 SI Engine MEEM5204 1 Diesel Eng MEEM5205 3 Advanced MEEM5206 3 Intermedia MEEM5207 3 Advanced <t< td=""><td>al and Experimental Modal Analysis</td><td></td><td>Х</td><td></td><td>ELECTIVE</td><td></td></t<> | al and Experimental Modal Analysis | | Х | | ELECTIVE | |
| MEEM4705 4 Introductic MEEM4707 3 Autonomo MEEM4707 3 Space Me MEEM4707 3 Dynamic 3 MEEM4703 3 Dynamic 3 MEEM4705 4 Analysis 8 MEEM4705 4 Analysis 8 MEEM4810 3 Introductic MEEM4820 3 Introductic MEEM4810 3 Introductic MEEM4820 3 Introductic MEEM4820 3 Naval Sys MEEM5110 3 Continuun MEEM5130 3 Natonscale MEEM5160 3 Experimer MEEM5170 3 Finite Eler MEEM5201 1 Fundamer MEEM5202 1 Fundamer MEEM5203 1 SI Engine MEEM5204 1 Diesel Eng MEEM5210 3 Advanced MEEM5223 3 Advanced MEEM5230 3 Advanced MEEM5230 3 Intermadia | and Vibration | | | х | | |
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| MEEM47203Space MeMEEM47303Dynamic SMEEM47303Dynamic SMEEM47754Analysis 8MEEM48103IntroducticMEEM48203IntroducticMEEM48203IntroducticMEEM48503Naval SysMEEM51103ContinuunMEEM51303NanoscaleMEEM51403ExperimerMEEM51503AdvancedMEEM51603ExperimerMEEM51703Finite ElerMEEM52011FundamerMEEM52021FundamerMEEM52031SI EngineMEEM52041Diesel EngMEEM52103AdvancedMEEM52253AdvancedMEEM52303AdvancedMEEM52503InternadicMEEM52503Internadic | tion to Robotics and Mechatronics | | | Х | REM. ELEC. | SYSTEM |
| MEEM4730 3 Dynamic S MEEM4775 4 Analysis 8 MEEM4810 3 Introductic MEEM4810 3 Introductic MEEM4820 3 Introductic MEEM4850 3 Naval Sys MEEM510 3 Continuum MEEM5130 3 Nanoscale MEEM5140 3 Experimer MEEM5150 3 Advanced MEEM5160 3 Experimer MEEM5170 3 Finite Eler MEEM5201 1 Fundamer MEEM5202 1 Fundamer MEEM5203 1 SI Engine MEEM5204 1 Diesel Eng MEEM5205 3 Advanced MEEM5210 3 Advanced MEEM5223 3 Advanced MEEM5230 3 Advanced MEEM5230 3 Advanced MEEM5250 3 Internal C MEEM5250 3 Advanced | nous Systems | | х | | REM. ELEC. | SYSTEM |
| MEEM4775 4 Analysis 8 MEEM4810 3 Introductic MEEM4820 3 Introductic MEEM4820 3 Introductic MEEM4850 3 Naval Sys MEEM5110 3 Continuum MEEM5130 3 Nanoscale MEEM5150 3 Advanced MEEM5160 3 Experimer MEEM5170 3 Finite Eler MEEM5201 1 Fundamer MEEM5202 1 Fundamer MEEM5203 1 SI Engine MEEM5204 1 Diesel Engine MEEM5203 3 Advanced MEEM5204 3 Advanced MEEM5203 3 Advanced MEEM5210 3 Advanced MEEM5230 3 Advanced MEEM5240 3 Computati MEEM5250 3 Internal C | | | | Х | ELECTIVE | |
| MEEM4810 3 Introductic MEEM4820 3 Introductic MEEM4820 3 Introductic MEEM4850 3 Naval Sys MEEM5110 3 Continuun MEEM5130 3 Nanoscale MEEM5150 3 Advanced MEEM5160 3 Experimer MEEM5170 3 Finite Eler MEEM5201 1 Fundamer MEEM5202 1 Fundamer MEEM5203 1 SI Engine MEEM5204 1 Diesel Eng MEEM5203 3 Advanced MEEM5204 3 Intermedia MEEM5203 3 Advanced MEEM5210 3 Advanced MEEM5220 3 Intermedia MEEM5230 3 Advanced MEEM5240 3 Computati MEEM5250 3 Internal C | c System Simulation | | | Х | | |
| MEEM4820 3 Introductic MEEM4850 3 Naval Sys MEEM5110 3 Continuun MEEM5130 3 Nanoscale MEEM5150 3 Advanced MEEM5160 3 Experimer MEEM5170 3 Finite Eler MEEM5180 3 Mechanics MEEM5201 1 Fundamer MEEM5202 1 Fundamer MEEM5203 1 SI Engine MEEM5204 1 Diesel Eng MEEM5203 3 Advanced MEEM5204 1 Diesel Eng MEEM5203 3 Advanced MEEM5210 3 Advanced MEEM5223 3 Advanced MEEM5240 3 Computati MEEM5250 3 Internal Cr | s & Design of Feedback Control Systems | | X | | | |
| MEEM4850 3 Naval Sys MEEM5110 3 Continuum MEEM5130 3 Nanoscale MEEM5150 3 Advanced MEEM5160 3 Experimer MEEM5170 3 Finite Eler MEEM5180 3 Mechanics MEEM5201 1 Fundamer MEEM5202 1 Fundamer MEEM5203 1 SI Engine MEEM5204 1 Diesel Eng MEEM5203 3 Advanced MEEM5204 3 Computati MEEM5203 3 Intermedia MEEM5210 3 Advanced MEEM5225 3 Advanced MEEM5230 3 Internadia MEEM5250 3 Internal Cr MEEM5250 3 Advanced | tion to Aerospace Engineering | | Х | | REQUIRED | |
| MEEM5110 3 Continuun MEEM5130 3 Nanoscale MEEM5150 3 Advanced MEEM5160 3 Experimer MEEM5170 3 Finite Eler MEEM5180 3 Mechanics MEEM5201 1 Fundamer MEEM5202 1 Fundamer MEEM5203 1 SI Engine MEEM5204 1 Diesel Engine MEEM5203 1 Advanced MEEM5203 3 Advanced MEEM5203 3 Advanced MEEM5203 3 Advanced MEEM5204 1 Diesel Engine MEEM5203 3 Advanced MEEM5203 3 Advanced MEEM5203 3 Advanced MEEM5203 3 Advanced MEEM5250 3 Internal Computati MEEM5255 3 Advanced | tion to Aerospace Propulsion | | | Х | ELECTIVE | |
| MEEM5130 3 Nanoscale MEEM5150 3 Advanced MEEM5160 3 Experimer MEEM5170 3 Finite Eler MEEM5180 3 Mechanics MEEM5201 1 Fundamer MEEM5202 1 Fundamer MEEM5203 1 SI Engine MEEM5204 1 Diesel Eng MEEM5205 3 Advanced MEEM5210 3 Advanced MEEM5225 3 Advanced MEEM5240 3 Computati MEEM5250 3 Internal C MEEM5255 3 Advanced | systems and Platforms | | X | | | |
| MEEM5150 3 Advanced MEEM5160 3 Experimer MEEM5170 3 Finite Eler MEEM5180 3 Mechanics MEEM5201 1 Fundamer MEEM5202 1 Fundamer MEEM5203 1 SI Engine MEEM5204 1 Diesel Engine MEEM5205 3 Advanced MEEM5210 3 Advanced MEEM5250 3 Intermedia MEEM5203 3 Advanced MEEM5250 3 Internal Computati MEEM5255 3 Advanced | um Mechanics/Elasticity | | Х | × | | |
| MEEM5160 3 Experimer MEEM5170 3 Finite Eler MEEM5180 3 Mechanics MEEM5201 1 Fundamer MEEM5202 1 Fundamer MEEM5203 1 SI Engine MEEM5204 1 Diesel Engine MEEM5205 3 Advanced MEEM5206 3 Intermedia MEEM5210 3 Advanced MEEM5225 3 Advanced MEEM5200 3 Intermedia MEEM5203 3 Advanced MEEM5203 3 Advanced MEEM5250 3 Internal Computati MEEM5255 3 Advanced | ale Science and Technology | | | X X | | |
| MEEM5170 3 Finite Eler MEEM5180 3 Mechanics MEEM5201 1 Fundamer MEEM5202 1 Fundamer MEEM5203 1 SI Engine MEEM5204 1 Diesel Engine MEEM5210 3 Advanced MEEM5212 3 Intermedia MEEM5223 3 Advanced MEEM5240 3 Computati MEEM5250 3 Internal Computation MEEM5255 3 Advanced | ed Mechanics of Materials nental Stress Analysis | | x | X | <u> </u> | |
| MEEM5180 3 Mechanics MEEM5201 1 Fundamer MEEM5202 1 Fundamer MEEM5203 1 SI Engine MEEM5204 1 Diesel Engine MEEM5210 3 Advanced MEEM5225 3 Advanced MEEM5230 3 Computati MEEM5240 3 Computati MEEM5250 3 Internal C MEEM5255 3 Advanced | lement and Variational Methods in Engineering | | X | | + | |
| MEEM52011FundamerMEEM52021FundamerMEEM52031SI EngineMEEM52041Diesel EngMEEM52103AdvancedMEEM52123IntermediaMEEM52253AdvancedMEEM52303AdvancedMEEM52403ComputatiMEEM52503Internal CMEEM52503Advanced | ics of Composite Materials | N | OT OFFERE | | | |
| MEEM52031SI EngineMEEM52041Diesel EngineMEEM52103AdvancedMEEM52123IntermediaMEEM52253AdvancedMEEM52303AdvancedMEEM52403ComputatiMEEM52503Internal CMEEM52553Advanced | nentals of SI Engines | 3-day short course, Dates TBD | OTOTILK | | | |
| MEEM52031SI EngineMEEM52041Diesel EngineMEEM52103AdvancedMEEM52123IntermediaMEEM52253AdvancedMEEM52303AdvancedMEEM52403ComputatiMEEM52503Internal CMEEM52553Advanced | nentals of Diesel Engines | | OT OFFERE | D | | |
| MEEM5210 3 Advanced MEEM5212 3 Intermedia MEEM5225 3 Advanced MEEM5230 3 Advanced MEEM5240 3 Computati MEEM5250 3 Internal Cr MEEM5255 3 Advanced | ne Control Systems | 3-day short course, Dates TBD | | | | |
| MEEM5210 3 Advanced MEEM5212 3 Intermedia MEEM5225 3 Advanced MEEM5230 3 Advanced MEEM5240 3 Computati MEEM5250 3 Internal Cr MEEM5255 3 Advanced | Engine Control Systems | | OT OFFERE | D | | |
| MEEM52253AdvancedMEEM52303AdvancedMEEM52403ComputatiMEEM52503Internal ComputationMEEM52553Advanced | ed Fluid Mechanics | | Х | | | |
| MEEM52303AdvancedMEEM52403ComputatiMEEM52503Internal ComputationMEEM52553Advanced | diate Thermodynamics | | Х | | | |
| MEEM5240 3 Computati MEEM5250 3 Internal Computation MEEM5255 3 Advanced | ed Power System and Pollution Control | N | OT OFFERE | D | | |
| MEEM5250 3 Internal Co MEEM5255 3 Advanced | ed Heat Transfer | | Х | | | |
| MEEM5255 3 Advanced | ational Fluid Dynamics | | | Х | | |
| | Combustion Engines II | | | Х | | |
| MEEM5265 3 Physical G | ed Powertrain Instrumentation and Experimental Methods | | | Х | ļ | |
| | I Gasdynamics | N | OT OFFERE | | | |
| MEEM5270 3 Advanced | ed Combustion | | | X | | |
| | Storage Systems Change and Two-Phase Flows | | | X X | | |

MICHIGAN TECH - Mechanical Engineering - Technical Electives

2020-2021 Academic Year (Planned) Semesters/years offered subject to change.

Refer to the schedule of classes in BanWeb for current offerings, pre-requisites, restrictions, and course descriptions.

| Course Number | Credits | Title | Summer 2020 | Fall 2020 | Spring 2021 | Aerospace Engineering Minor | Manufacturing Minor |
|------------------|---------|--|------------------------------|--------------------------------|----------------|-----------------------------------|------------------------|
| MEEM5295 | 3 | Advanced Propulsion Systems for Hybrid Electric Vehicles | | | Х | | |
| MEEM5296 | 3 | Powertrain Integration in HEV | | | Х | | |
| MEEM5300 | 3 | Cybersecurity of Industrial Control Systems | | Х | | | |
| MEEM5315 | 3 | Cyber Security of Automotive Systems I | | | Х | | |
| MEEM5401 | 3 | Design for Reliability | N | NOT OFFERED | | | PROCESS |
| MEEM5430 | 3 | Human Factors - Transportation | | NOT OFFERED | | | |
| MEEM5440 | 3 | Advanced Vehicle Dynamics | N | NOT OFFERED | | | |
| MEEM5645 | 3 | Numerical Analysis of Manufacturing Processes | N | NOT OFFERED | | | |
| MEEM5655 | 3 | Introduction to Lean Manufacturing | | | Х | | SYSTEM |
| MEEM5665 | 3 | Micro & Nano Fabrication for Energy | N | NOT OFFERED | | | |
| MEEM5670 | 3 | Experimental Design in Engineering | | Х | | | PROCESS |
| MEEM5680 | 3 | Optimization I | N | NOT OFFERED | | | SYSTEM |
| MEEM5685 | 3 | Environmentally Responsible Design & Manufacturing | N | NOT OFFERED | | | |
| MEEM5700 | 4 | Dynamic Measurement/Signal Analysis | | Х | | | |
| MEEM5701 | 3 | Intermediate Dynamics | | Х | | | |
| MEEM5702 | 3 | Analytical Vibroacoustics | | Х | | | |
| MEEM5703 | 4 | Experimental Methods Vibro-Acoustics | | | Х | | |
| MEEM5715 | 3 | Linear Systems Theory and Design | | Х | | | |
| MEEM5750 | 3 | Model-Based Embedded Control System Design | | Х | | | |
| MEEM5800 | 3 | Advanced Engineering Mathematics with Applications | Full Semester (online) | | | | |
| MEEM5811 | 3 | Automotive Systems | | Х | | | |
| MEEM5812 | 3 | Automotive Control Systems | | | Х | | |
| MSE4120 | 3 | Material & Processing Selection | | | Х | REM. ELEC. | PROCESS |
| MSE4240 | 4 | Introduction to MEMS | | Х | | | PROCESS |
| MSE4310 | 3 | Principles of Metal Casting | | Х | | | PROCESS |
| MSE4430 | 3 | Composite Materials | N | NOT OFFERED | | | |
| MSE4777 | 3 | Open-Source 3-D Printing | | X (2 sections, 1 online) | | | PROCESS |

MEEM Courses By Course Number (including EE and MSE courses on the Aerospace Engineering and Manufacturing minors also)

In addition to the above courses, any 4000+ level courses in the College of Engineering except MET courses are acceptable for ME technical electives. **MET courses are not acceptable for ME technical elective credits**. These prefixes - BE, CM, CEE, EE, ENG, GE, MEEM, MSE - may be used by BSME students for technical elective credits (if allowed to enroll in the course by the offering department) with the following exceptions: BE4900, BE4901, BE4910, BE4930, BE5000, CEE4900, CEE4900, CEE4910, CEE4916, CEE4920, CEE4930, CEE5190, CEE5250, CEE5390, CEE5300, CEE5561, CEE5562, CEE5563, CEE5563, CEE5590, CEE5990, CEE5900, CEE5990, CEE5900, CE5990, CE4900, CM5900, CM5900, CM5900, CM5900, CM5900, CM5900, ENG5900, CM5900, EE4800, EC49010, EC49010, CE4910, EE4800, EE4800, EE4805, EE5290, EE5900, EE5990, EE5991, EE5991, EE5992, EE5994, ENG4060, ENG4000, ENG4900, ENG4900, ENG4900, ENG4910, CM5910, CM5910, ENG4900, ENG5900, ENG5900, ENG5900, ENG5900, CE5990, CE4910, GE4910, GE4930, GE4930, GE4933, GE4934, GE4961, GE4962, GE4970, GE5930, GE5940, GE5950, GE5970, GE5990, GE5995, GE5995, GE5999, MEEM4990, MEEM4901, MEEM4911, MEEM4999, MEEM5010, MEEM5990, MEEM5994, MEEM5994, MEEM5999, MEEM6000, MSE4130, MSE4131, MSE4140, MSE4141, MSE4170, MSE54100, MSE5970, MSE5970, and MSE5990 or any other research/special topics/seminar/etc credits (courses without a specific course description and/or syllabus). Undergraduate students cannot typic