

Tentative Course Offering Schedule

| Course | Description | S23 | F23 | S24 | F24 | S25 | F25 | Design & Manufacturing | Dynamics & Controls | Thermal/Fluid Sciences |
|--------|---|-----|-----|-----|-----|-----|-----|------------------------|---------------------|------------------------|
| ME 230 | Adv. Mechanical Engineering Analysis | 1 | 1 | 1 | 1 | 1 | 1 | Required | Required | Required |
| ME 273 | Finite Element Methods in Engineering | 1 | 1 | 1 | 1 | 1 | 1 | Required | Required | Required |
| ME 201 | Mechanical Engineering Project Planning | 1 | 1 | 1 | 1 | 1 | 1 | Usually Required | Usually Required | Usually Required |
| ME 210 | Advanced Thermodynamics | | | | 1 | | | | | ** |
| ME 211 | Advanced Heat Transfer | | | 1 | | | | | | ** |
| ME 221 | Viscous Flow Analysis and Computation | | 1 | | | | 1 | | | ** |
| ME 231 | Optimization and ML in Mech Eng | | 1 | | | | 1 | ** | * | * |
| ME 232 | Deep learning in Mech Eng | | | 1 | | | | ** | * | * |
| ME 233 | Computational Data Analysis for ME | 1 | | | | 1 | | * | * | * |
| ME 240 | Rigid Body Dynamics | | | 1 | | | 1 | * | ** | |
| ME 243 | Vibration of Mechanical Systems | | 1 | | | 1 | | * | ** | |
| ME 250 | Precision Machine Design | | | | 1 | | | ** | | |
| ME 256 | Product Design and Development | 1 | | | | 1 | | ** | | |
| ME 260 | Applied Stress Analysis | 1 | | | 1 | | | ** | | |
| ME 265 | Computer-Aided ME Design | | | 1 | | | 1 | ** | | |
| ME 267 | Engineering Biomechanics | 1 | | | | 1 | | * | * | * |
| ME 268 | 3D Printing and Additive Manufacturing | | 1 | | | | 1 | ** | | |
| ME 271 | Computational Fluid Dynamics for ME | 1 | | | 1 | | | | | ** |
| ME 274 | Advanced Finite Element Methods | | 1 | | | 1 | | ** | | |
| ME 280 | Automatic Control Engineering | | 1 | | 1 | | 1 | | ** | |
| ME 281 | Advanced Control System Design | 1 | | | | 1 | | | ** | |
| ME 282 | Nonlinear and Adaptive Control | | | 1 | | | | | ** | |
| ME 283 | Automatic Control of Manuf. Processes | | | | 1 | | | ** | * | |
| ME 284 | Sensor Technology and Principles | 1 | | | 1 | | | | ** | |
| ME 285 | Mechatronic Systems Engineering | 1 | | 1 | | 1 | | | ** | |
| ME 286 | Autonomous and Connected Vehicles | | | | | | 1 | | ** | |
| ME 297 | Experimental fluid mechanics | | | | 1 | | | | | ** |
| ME 297 | Introduction to fire dynamics | | | 1 | | | | | | ** |

** Highly Recommended
* Recommended

Last Updated 2023-05-23