

Tentative Long Range Schedule

Fall 2017

| Course | Units | Title | F17 | S18 | F18 | S19 | F19 | S20 | F20 | S21 |
|-----------|-------|---|--------------------------------------|-----|-----|-----|-----|-----|-----|-----|
| ME 101/L | 1/1 | Introduction to Mechanical Engineering and Lab | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| ME 122 | 2 | Energy & Society | Offered pending section availability | | | | | | | |
| ME 125 | 3 | How Things Work | Offered pending section availability | | | | | | | |
| ME 186/L | 1/1 | Computer-Aided Design and Lab | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| ME 209 | 1 | Programming for Mechanical Engineers | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| ME 280 | 3 | Differential Equations for Mechanical Engineers | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| ME 286 | 2 | Mechanical Engineering Design | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| ME 309 | 2 | Numerical Analysis of Engineering Systems | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| ME 330 | 3 | Machine Design | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| ME 335/L | 1/1 | Mechanical Measurements and Lab | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| ME 370 | 3 | Thermodynamics | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| ME 375 | 3 | Heat Transfer I | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| ME 376 | 3 | Heat Transfer in Electrical and Electronic Systems (Not available for BSME credit) | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| ME 384 | 3 | System Dynamics | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| ME 386/L | 2/1 | Computer-Aided Analysis & Design and Lab | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| ME 390 | 3 | Fluid Mechanics | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| ME 415 | 3 | Kinematics of Mechanisms | ■ | | ■ | | ■ | | ■ | |
| ME 430 | 3 | Machine Design Applications | | ■ | | ■ | | ■ | | ■ |
| ME 431/L | 2/1 | Machine Design and Manufacturing | ■ | | ■ | | ■ | | ■ | |
| ME 434 | 3 | Geometric Dimensioning and Tolerancing | | ■ | | ■ | | ■ | | ■ |
| ME 435/L | 2/1 | Mechatronics and Lab | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| ME 436/L | 2/1 | Mechanics and Design of Composites Materials | ■ | | ■ | | ■ | | ■ | |
| ME 460 | 3 | Automotive Engineering | ■ | | ■ | | ■ | | ■ | |
| ME 462 | 3 | Internal Combustion Engines | | ■ | | ■ | | ■ | | ■ |
| ME 470 | 3 | Thermodynamics II | ■ | | ■ | | ■ | | ■ | |
| ME 475 | 3 | Heat Transfer II | | ■ | | ■ | | ■ | | ■ |
| ME 482 | 3 | Fundamentals of Alternative Energy and Fuel Cell Technology | ■ | | ■ | | ■ | | ■ | |
| ME 483 | 3 | Solar, Wind and Geothermal Energy | | ■ | | ■ | | ■ | | ■ |
| ME 484/L | 2/1 | Control of Mechanical Systems | | ■ | | ■ | | ■ | | ■ |
| ME 485 | 3 | Introduction to Environmental Engineering | | ■ | | ■ | | ■ | | ■ |
| ME 486A/B | 2/2 | Senior Design in Mechanical Engineering | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| ME 490 | 3 | Fluid Dynamics | ■ | | ■ | | ■ | | ■ | |
| ME 491 | 1 | Thermal Fluids Lab | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| ME 492 | 3 | Fundamentals of Energy Systems Design | | | | | | | | |
| ME 493 | 3 | Hydraulics | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| ME 501A | 3 | Seminar in Engineering Analysis I | ■ | | ■ | ■ | ■ | | ■ | ■ |
| ME 501B | 3 | Seminar in Engineering Analysis II | | ■ | | | | ■ | | |
| ME 503 | 3 | Biomedical Instrumentation | | | | | | | | |
| ME 515 | 3 | Dynamics of Machines | | ■ | | ■ | | ■ | | ■ |

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|-------------|-------|---|--------------------------------------|-----|-----|-----|-----|-----|-----|-----|
| ME 520 | 3 | Robotic Mechanisms & Control | ■ | | | | ■ | | | |
| ME 522 | 3 | Autonomous Intelligent Vehicles | | | ■ | | | | ■ | |
| ME 531 | 3 | Mechanical Design with Composites | ■ | | ■ | | ■ | | ■ | |
| ME 532 | 3 | Mechanical Design with Polymers | | ■ | | ■ | | ■ | | ■ |
| ME 575 | 3 | Applied Heat Transfer and Mass Transfer | | ■ | | ■ | | ■ | | ■ |
| ME 579 | 3 | Municipal Solid Waste Management & Engineering Design | | | | | | | | |
| ME 583 | 3 | Thermal Fluid Systems Design | | | ■ | | | | ■ | |
| ME 584 | 3 | Modeling & Simulation of Dynamic Systems | | | ■ | | | | ■ | |
| ME 590 | 3 | Advanced Fluid Dynamics | | | ■ | | | | ■ | |
| ME 593 | 3 | Compressible Flow | ■ | | | | ■ | | | |
| ME 630 | 3 | Computer-Aided Machine Design | | | | ■ | | | | ■ |
| ME 670 | 3 | Advanced Thermodynamics | Offered pending section availability | | | | | | | |
| ME 675A | 3 | Conduction & Radiative Heat Transfer | | | ■ | | | | ■ | |
| ME 675B | 3 | Convective Heat & Mass Transfer | | | | ■ | | | | ■ |
| ME 678 | 3 | Transport Phenomena | | | | | | | | |
| ME 683 | 3 | Energy Processes | | | | | | | | |
| ME 684 | 3 | Design & Control of Dynamics Processes | ■ | | | | ■ | | | |
| ME 686A | 3 | Advanced Modeling, Analysis & Optimization I | Offered pending section availability | | | | | | | |
| ME 686B | 3 | Advanced Modeling, Analysis & Optimization II | Offered pending section availability | | | | | | | |
| ME 692 | 3 | Computational Fluid Dynamics | | ■ | | | | ■ | | |
| ME 694A/B/C | 1/2/3 | Seminar in Mechanical Engineering | Offered on Demand | | | | | | | |
| ME 696A/B/C | 1/2/3 | Directed Graduate Studies | Offered on Demand | | | | | | | |
| ME 697 | 3 | Directed Comprehensive Studies | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| ME 698A/B/C | 1/2/3 | Thesis - Graduate Project | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| ME 699A/B/C | 1/2/3 | Independent Study | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| AE 472 | 3 | Aero- Propulsion | | ■ | | | | ■ | | |
| AE 480 | 3 | Introduction to Aerospace Engineering | ■ | | ■ | | ■ | | ■ | |
| AE 486 A/B | 2/2 | AE Senior Design | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| AE 572 | 3 | Rocket Propulsion | | | | ■ | | | | ■ |
| AE 586 | 3 | Aircraft Design | | ■ | | | | ■ | | |
| AE 589 | 3 | Aerodynamics | ■ | | | | ■ | | | |
| AE 672 | 3 | Advanced Aero Propulsion | | | ■ | | | | ■ | |