

Schedule of ME & MSE Graduate Courses (Fall 2018 – Spring 2023)

<p><u>2018 Fall</u></p> <p>ME 501 Continuum Mechanics ME 514 Thermodynamics of Solids (MSE 514) ME 521 Fundamentals of Fluids I ME 579 Advanced Topics (Robotics Kinematics and Dynamics) ME 598 Seminar MSE 503 Advanced Topics (Electrochemical Energy Systems) MSE 505 Advanced Materials Science (MATSE 505) MSE 506 Biomaterials (MATSE 506) MSE 515 Electronic Properties of Materials</p>	<p><u>2019 Spring</u></p> <p>ME 513 Crystal Plasticity (MSE 513, MATSE 513) ME 525 Biomechanics (BioEng 425/525) ME 526 Statistical Thermodynamics ME 532 Finite Elements (CE 532) ME 537 Fracture Mechanics and Mechanisms (MSE 537) ME 579 Advanced Topics (Computer Control of Manufacturing Processes) ME 598 Seminar MSE 503 Advanced Topics (Nanoscience & Nanotechnology) MSE 508 Polymer Nanocomposites and Functionalities MSE 517 Thin Films (ME 517)</p>
<p><u>2019 Fall</u></p> <p>ME 516 Conduction and Radiation Heat Transfer ME 530 Elasticity (MSE 530) ME 534 Mechanics of Composite Materials (MSE 534) ME 556 Numerical Modeling in Fluid Mechanics ME 579 Advanced Topics (Machine Vision) ME 598 Seminar MSE 505 Advanced Materials Science (MATSE 505) MSE 506 Biomaterials (MATSE 506) MSE 507 Additive Manufacturing (ME 507)</p>	<p><u>2020 Spring</u></p> <p>ME 515 Advanced Heat Transfer ME 527 Macroscopic Thermodynamics ME 531 Theory of Plasticity (MSE 531) ME 532 Finite Elements (CE 532) <i>CEE teaches</i> ME 579 Advanced Topics (Biomedical Design and Manufacturing) ME 598 Seminar MSE 523 Ceramics Processing MSE 543 Polymer Materials & Engineering (CE 593)</p>
<p><u>2020 Fall</u></p> <p>ME 501 Continuum Mechanics ME 514 Thermodynamics of Solids (MSE 514) ME 521 Fundamentals of Fluids I ME 579 Advanced Topics (Robotics Kinematics and Dynamics) ME 598 Seminar MSE 503 Advanced Topics (Electrochemical Energy Systems) MSE 505 Advanced Materials Science (MATSE 505) MSE 506 Biomaterials (MATSE 506) MSE 515 Electronic Properties of Materials</p>	<p><u>2021 Spring</u></p> <p>ME 513 Crystal Plasticity (MSE 513, MATSE 513) ME 525 Biomechanics (BioEng 425/525) ME 526 Statistical Thermodynamics ME 532 Finite Elements (CE 532) ME 537 Fracture Mechanics and Mechanisms (MSE 537) ME 579 Advanced Topics (Computer Control of Manufacturing Processes) ME 598 Seminar MSE 503 Advanced Topics (Nanoscience & Nanotechnology) MSE 508 Polymer Nanocomposites and Functionalities MSE 517 Thin Films (ME 517)</p>

<p><u>2021 Fall</u></p> <p>ME 516 Conduction and Radiation Heat Transfer ME 530 Elasticity (MSE 530) ME 534 Mechanics of Composite Materials (MSE 534) ME 556 Numerical Modeling in Fluid Mechanics ME 579 Advanced Topics (Machine Vision) ME 598 Seminar MSE 505 Advanced Materials Science (MATSE 505) MSE 506 Biomaterials (MATSE 506) MSE 507 Additive Manufacturing (ME 507)</p>	<p><u>2022 Spring</u></p> <p>ME 515 Advanced Heat Transfer ME 527 Macroscopic Thermodynamics ME 531 Theory of Plasticity (MSE 531) ME 532 Finite Elements (CE 532) <i>CEE teaches</i> ME 579 Advanced Topics (Biomedical Design and Manufacturing) ME 598 Seminar MSE 523 Ceramics Processing MSE 543 Polymer Materials & Engineering (CE 593)</p>
<p><u>2022 Fall</u></p> <p>ME 501 Continuum Mechanics ME 514 Thermodynamics of Solids (MSE 514) ME 521 Fundamentals of Fluids I ME 579 Advanced Topics (Robotics Kinematics and Dynamics) ME 598 Seminar MSE 503 Advanced Topics (Electrochemical Energy Systems) MSE 505 Advanced Materials Science (MATSE 505) MSE 506 Biomaterials (MATSE 506) MSE 515 Electronic Properties of Materials</p>	<p><u>2023 Spring</u></p> <p>ME 513 Crystal Plasticity (MSE 513, MATSE 513) ME 525 Biomechanics (BioEng 425/525) ME 526 Statistical Thermodynamics ME 532 Finite Elements (CE 532) ME 537 Fracture Mechanics and Mechanisms (MSE 537) ME 579 Advanced Topics (Computer Control of Manufacturing Processes) ME 598 Seminar MSE 503 Advanced Topics (Nanoscience & Nanotechnology) MSE 508 Polymer Nanocomposites and Functionalities MSE 517 Thin Films (ME 517)</p>

Note: Course offerings are subject to change without notice