

Autumn 2021	
Undergraduate: Freshmen/Sophomore/Junior Courses	
Course	Instructor
MSE 170: Fundamentals of Materials Science (4)	Miqin Zhang
MSE 298: Intro to Modern Materials (1)	Lucien N Brush
MSE 310: Intro to MSE (3)	Guozhong Cao
MSE 311: A/B: Integrated UG Lab I (3) (Junior)	Luna Huang
MSE 311 C/D: Integrated UG Lab I (3) (Sophomore)	Fumio S. Ohuchi
MSE 321: Thermodynamics/Phase Equilibrium (4)	Lucien N Brush
MSE 331: Crystallography and Structure (3)	Peter Pauzauskie
MSE 399: Undergraduate Research Seminar (1)	Kannan M. Krishnan
Undergraduate: Senior Year Courses	
Course	Instructor
MSE 442: Materials Processing II (3)	Eleftheria Roumeli
MSE 471: Introduction to Polymer Science and Engineering (3)	Bruce Hinds
MSE 475: Introduction to Composite Materials (3)	Navid Zobeiry
MSE 484: Elect and Opto Polymers (3)	Samson Jenekhe
Undergraduate/Graduate: Elective Courses	
Course	Instructor
MSE/CHEM/CHEM E 466/566: A and B: Energy Materials, Devices,	John Devin MacKenzie
MSE 476/576: Introduction to Optoelectronic Materials (3)	Peter Pauzauskie
MSE 477/542: Data Science and Materials Informatics (3)	Luna Huang/Ting Cao
MSE 498/599: Quantum Theory of Nanomaterials (3)	Ting Cao
MSE 498/599: Composites Maintenance and Manufacturing (3)	Charles Seaton
Graduate: Courses	
Course	Instructor
MSE 502: Sol-Gel Processing (3)	Guozhong Cao
MSE 503: Graduate Thermodynamics (3)	Lucien N. Brush
MSE 510: Bonding, Crystallography, and Symmetry-Related (3)	Kannan M. Krishnan
MSE 520: Seminar (1)	Zobeiry/Roumeli/CaoT
MSE 570: Graduate Tutorial in Materials Science and Engineering (2)	Fumio S. Ohuchi

Winter 2022	
Undergraduate: Freshmen/Sophomore/Junior Courses	
Winter 2021	Instructor
MSE 170: Fundamentals of Materials Science (4)	Bruce Hinds
MSE 312: Integrated Undergraduate Laboratory II (3) A/B	Luna Huang
MSE 312: Integrated Undergraduate Laboratory II (3) C/D (only one will be	Arthur Barnard
MSE 322: Kinetics and Microstructural Evolution (4)	Lucien N Brush
MSE 342: Materials Processing I (3)	Lucien N Brush
MSE 351: Electronic Properties of Materials (3)	Fumio S. Ohuchi
MSE 398: MSE Leadership Seminar	Pozzo/Maddox
Undergraduate: Senior Year Courses	
Course	Instructor
MSE 431: Failure Analysis and Durability of Materials (3)	Dwayne D. Arola
MSE 452: Functional Properties of Materials II (3)	Guozhong Cao
MSE 491: Design in Materials Engineering I (2)	Luna Huang
Undergraduate/Graduate: Elective Courses	
Course	Instructor
MSE 478/543: Materials and Device Modeling (3)	Ting Cao
MSE 498/599: Nanocomposite Materials (3)	Eleftheria Roumeli
MSE 498/599: Composite Structural Engineering (3)	Navid Zobeiry
Graduate courses	
Course	Instructor
MSE 520: Seminar (1)	Zobeiry/Roumeli/CaoT
MSE 539: Renewable Energy (with ME) (3)	John Devin MacKenzie
MSE 541: Defects in Materials (3)	Peter Pauzauskie
MSE 545/CHEM E 545/ CHEM 545 Data Science Methods for Clean Energy Resear	CHEM E Faculty
MSE 546 /CHEM E 546 / CHEM 546 Software Engineering for Molecular Data Scie	CHEM E faculty
MSE 571: Graduate Tutorial in Materials Science and Engineering (2)	Fumio Ohuchi

