

With the exception of Fall 21 this course listing is TENTATIVE and may be subject to change.

FALL 2021		
MATRL 289J	Crystal Growth and Solidification (3)	POLLOCK
MATRL 286S	Advanced Solid State Physics	DAI
MATRL 286C	In Situ/In Operando Methods for Materials Science Research	CLEMENT
MATRL 279	First Principles Calculations for Materials (3)	VAN DE WALLE
MATRL 276A	Biomolecular Materials I: Structure and Function (3)	SAFINYA
MATRL 271A	Synthesis and Properties of Macromolecules (3)	HAWKER
MATRL 261	Composite Materials (3)	ZOK
MATRL 241	Structural Inorganic Chemistry (3)	STUCKY
MATRL 222A	Colloids and Interfaces I (3)	PITENIS
MATRL 215A	Semiconductor Device Processing (4)	PALMSTROM
MATRL 209A	Crystallography and Diffraction Fundamentals (3)	SPECK
MATRL 207	Mechanics of Materials (3)	BEGLEY
MATRL 200S	Introduction to Structure and Phase Stability (3)	GIANOLA
MATRL 200Q	Introduction to Quantum Mechanics for Materials (3)	VAN DER VEN
MATRL 200A	Thermodynamic Foundation of Materials (4)	BATES
MATRL 185	Materials in Engineering	BEYERLEIN
MATRL 162A	Quantum Description of Electronic Materials (4)	SCHULLER
MATRL 100A	Structure and Properties I (3)	SESHADRI/HARTER
WINTER 2022		
MATRL 289X	Dynamic Mechanical Behavior (3)	ZOK
MATRL 289H	Statistical Mechanics of Crystalline Solids (3)	VAN DER VEN
MATRL 289E	Nanomechanics of Crystalline and Disordered Materials (3)	GIANOLA
MATRL 288A	Topics in Quantum Materials	VAN DE WALLE
MATRL 286?	Advanced Condensed Matter	DAI
MATRL 288?	Power Semiconductor Materials and Devices	KRISHNAMOORTHY
MATRL 281	Technical Communication and Presentation Design (3)	HAWKER
MATRL 280A	Organic Electronic Devices (3)	CHABINYC
MATRL 273	Experiments in Macromolecular Materials	BATES
MATRL 271B	Structure and Characterization of Complex Fluids (3)	SALEH
MATRL 230	Elasticity/Plasticity (3)	BEYERLEIN
MATRL 220	Mechanical Behavior of Materials (3)	POLLOCK
MATRL 218	Introduction to Inorganic Materials (3)	SESHADRI
MATRL 215B	Semiconductor Device Processing (4)	PALMSTROM
MATRL 206A	Fundamentals of Electronic Solids I (4)	SPECK
MATRL 204		WILSON
MATRL 200B	Electronic and Atomic Structure of Materials (4)	HARTER
MATRL 186A	Manufacturing and Materials (3)	LEVI
MATRL 162B	Fundamentals of the Solid State (4)	DENBAARS
MATRL 160	Introduction to Polymer Science (3)	SEGALMAN
MATRL 135	Biophysics and Biomolecular Materials (3)	SAFINYA
MATRL 101	Introduction to the Structures and Properties of Materials (3)	PITENIS
MATRL 100B	Structure and Properties II (3)	STEMER
MATRL 10	Materials in Society, The Stuff of Dreams (4)	CLEMENT
SPRING 2022		
MATRL 287A	Structure and Symmetry (3)	BATES
MATRL 286T	Topological Band Theory	DAI
MATRL 286M	Experiments in Inorganic Materials (3)	WILSON
MATRL 286G	Structural Families of Functional Inorganic Materials (3)	SESHADRI
MATRL 286E	Electrochemistry and Electrochemical Methods (3)	CLEMENT
MATRL 286D	Advanced TEM (3)	STEMMER
MATRL 274	Solid State Inorganic Materials (3)	STUCKY
MATRL 271C	Properties of Macromolecules (3)	CHABINYC
MATRL 270	Biomaterials and Biosurfaces (3)	PITENIS
MATRL 245	Electrochemistry and Electrochemical Methods (3)	CLEMENT
MATRL 242	Symmetries and Group Theory (3)	HARTER
MATRL 240	Finite Element Structural Analysis (3)	BEYERLEIN
MATRL 234	Fracture Mechanics (3)	MCMEEKING
MATRL 227	Metal Organic Chemical Vapor Deposition (3)	DENBAARS
MATRL 217	Molecular Beam Epitaxy and Band Gap Engineering (3)	PALMSTROM
MATRL 211B	Engineering Quantum Mechanics II (4)	VAN DE WALLE
MATRL 209C	Electron Microscopy II: Crystalline Materials (3)	GIANOLA
MATRL 209B	X-Ray Diffraction II: Advanced Methods (3)	SPECK
MATRL 206B	Fundamentals of Electronic Solids II (4)	KRISHNAMOORTHY
MATRL 200C	Structure Evolution (4)	VAN DER VEN
MATRL 186B	Introduction to Additive Manufacturing (3)	BEGLEY
MATRL 100C	Fundamentals of Structural Evolution (3)	LEVI