

With the exception of Fall 19 this course listing is TENTATIVE and may be subject to change.

FALL 2019		
MATRL 289J	Crystal Growth and Solidification (3)	POLLOCK
MATRL 289E	Nanomechanics of Crystalline and Disordered Materials (3)	GIANOLA
MATRL 289B	Introduction to Structure and Phase Stability (3)	LEVI
MATRL 289A	Introduction to Quantum Mechanics for Materials (3)	VAN DER VEN
MATRL 286F	Symmetries and Group Theory (3)	HARTER
MATRL 279	First Principles Calculations for Materials (3)	VAN DE WALLE
MATRL 276A	Biomolecular Materials I: Structure and Function (3)	SAFINYA
MATRL 273	Experiments in Macromolecular Materials (3)	BATES
MATRL 271A	Synthesis and Properties of Macromolecules (3)	HAWKER
MATRL 261	Composite Materials (3)	ZOK
MATRL 241	Structural Inorganic Chemistry (3)	STUCKY
MATRL 215A	Semiconductor Device Processing (4)	PALMSTROM
MATRL 209A	Crystallography and Diffraction Fundamentals (3)	SPECK
MATRL 207	Mechanics of Materials (3)	BEGLEY
MATRL 200A	Thermodynamic Foundation of Materials (4)	SALEH
MATRL 162A	Quantum Description of Electronic Materials (4)	SCHULLER
MATRL 100A	Structure and Properties I (3)	MUKHERJEE
WINTER 2020		
MATRL 289H	Statistical Mechanics of Crystalline Solids (3)	VAN DER VEN
MATRL 287B	Electrostatics in Polar Solvents (3)	PINCUS
MATRL 286N	Functional Inorganic Oxides (3)	CLEMENT
MATRL 281	Technical Communication and Presentation Design (3)	HAWKER
MATRL 280B	Organic Electronic Devices (3)	CHABINYC
MATRL 271B	Structure and Characterization of Complex Fluids (3)	SALEH
MATRL 240	Finite Element Structural Analysis (3)	BEYERLEIN
MATRL 222A	Colloids and Interfaces I (3)	PITENIS
MATRL 220	Mechanical Behavior of Materials (3)	POLLOCK
MATRL 218	Introduction to Inorganic Materials (3)	SESHADRI
MATRL 215B	Semiconductor Device Processing (4)	PALMSTROM
MATRL 211A	Engineering Quantum Mechanics I (4)	VAN DE WALLE
MATRL 209B	X-Ray Diffraction II: Advanced Methods (3)	SPECK
MATRL 206A	Fundamentals of Electronic Solids I (4)	MUKHERJEE
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)	BATES
MATRL 100B	Structure and Properties II (3)	GIANOLA
MATRL 10	Materials in Society, The Stuff of Dreams (4)	STEMMER
SPRING 2020		
MATRL 288I	Extended Defects in Semiconductors (3)	MUKHERJEE
MATRL 287A	Structure and Symmetry (3)	BATES
MATRL 286J	Optical Characterization of Materials (3)	HARTER
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 280A	Synthesis and Electronic Structures of Conjugated Polymers (3)	BAZAN
MATRL 276B	Biomolecular Materials II: Applications (3)	SAFINYA
MATRL 274	Solid State Inorganic Materials (3)	STUCKY
MATRL 271C	Properties of Macromolecules (3)	CHABINYC
MATRL 234	Fracture Mechanics (3)	BEGLEY
MATRL 230	Elasticity/Plasticity (3)	BEYERLEIN
MATRL 227	Metal Organic Chemical Vapor Deposition (3)	DENBAARS
MATRL 222B	Colloids and Interfaces II (3)	PITENIS
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 204	Introduction to Magnetism and Magnetic Materials (3)	WILSON
MATRL 200C	Structure Evolution (4)	VAN DER VEN
MATRL 100C	Fundamentals of Structural Evolution (3)	ZOK