

With the exception of Fall 18 this course listing is TENTATIVE and may be subject to change.

FALL 2018		
289LM	Dislocations and Dislocation Dynamics (3)	Pollock
289A	Introduction to Quantum Mechanics for Materials	Van der Ven
289B	Introduction to Structure & Phase Stability	Levi
289E	Special Topics in Structural Materials: Nanomechanics of Crystalline and Disordered Materials (3)	Gianola
286F	Special Topics in Inorganic Materials: Symmetries and Group Theory (3)	Harter
286C	Special Topics in Inorganic Materials: In Situ/In Operando Methods for Materials Science Research (3)	Clement
271A	Synthesis and Properties of Macromolecules (3)	Bates
268A	Semiconductor Lasers I (4)	Klamkin
261	Composite Materials (3)	Zok
253	Liquid Crystal Materials (4)	Safinya
241	Structural Inorganic Chemistry (3)	Stucky
215A	Semiconductor Device Processing (4)	Palmstrom
209A	Crystallography and Diffraction Fundamentals (3)	Speck
207	Mechanics of Materials (3)	Begley
200A	Thermodynamic Foundation of Materials (4)	Saleh
162A	Quantum Description of Electronic Materials (4)	Schuller
100A	Structure and Properties I (3)	Mukherjee
100A	Structure and Properties I (3)	Seshadri
WINTER 2019		
287B	Special Topics in Macromolecular Materials: Electrostatics in Polar Solvents (3)	Pincus
281	Technical Communication and Presentatio Design (3)	Hawker
280A	Synthesis and Electronic Structures of Conjugated Polymers (3)	Bazan
271B	Structure and Characterization of Complex Fluids (3)	Saleh
240	Finite Element Structural Analysis (3)	Beyerlein
220	Mechanical Behavior of Materials (3)	Pollock
219	Phase Transformations (3)	Van der Ven
218	Introduction to Inorganic Materials (3)	Seshadri
215B	Semiconductor Device Processing (4)	Palmstrom
214	Advanced Topics in Equilibrium Statistical Mechanics	Frederickson
211A	Engineering Quantum Mechanics I (4)	Van de Walle
209B	X-Ray Diffraction II: Advanced Methods (3)	Speck
206A	Fundamentals of Electronic Solids I (4)	Mukherjee
204	Introduction to Magnetism and Magnetic Materials (3)	Wilson
200B	Electronic and Atomic Structure of Materials (4)	Harter
186A	Manufacturing and Materials (3)	Levi
162B	Fundamentals of the Solid State (4)	Denbaars
160	Introduction to Polymer Science (3)	Segalman
135	Biophysics and Biomolecular Materials (3)	Safinya
101	Introduction to the Structures and Properties of Materials (3)	Bates
100B	Structure and Properties II (3)	Gianola
10	Materials in Society, the Stuff of Dreams (4)	Stemmer
SPRING 2019		
287A	Special Topics in Macromolecular Materials: Structure and Symmetry (3)	Bates
286M	Special Topics in Inorganic Materials: Experiments in Inorganic Materials (3)	Wilson
286J	Special Topics in Inorganic Materials: Optical Characterization of Materials (3)	Harter
286E	Special Topics in Inorganic Materials: Electrochemistry and Electrochemical Methods (3)	Clement
278	Interactions in Biomolecular Complexes (3)	Safinya
274	Solid State Inorganic Materials (3)	Stucky
272	Mechanical Force and Biomolecules (3)	Saleh
271C	Properties of Macromolecules (3)	Chabynyc
234	Fracture Mechanics (3)	Begley
232	Plasticity (3)	Beyerlein
228	Computational Materials (3)	Van de Walle
227	Metal Organic Chemical Vapor Deposition (3)	Mukherjee
226	Symmetry and Tensor Properties of Materials (3)	Stemmer
217	Molecular Beam Epitaxy and Band Gap Engineering (3)	Palmstrom
209C	Electron Microscopy II: Crystalline Materials (3)	Gianola
206B	Fundamentals of Electronic Solids II (4)	Speck
200C	Structure Evolution (4)	Van der Ven
186B	Introduction to Additive Manufacturing (3)	Begley
100C	Fundamentals of Structural Evolution (3)	Levi

