



2020 Spring Semester

College of Science			
Department of Chemistry			
Course #	Course Name	Undergraduate Course(U) or Graduate Course(G)	Credit
CM6029*	Environmental Chemistry(II)	G	2
CM6047*	Special Topic in Surface Electro-chemistry	G	2
CM6075*	Structural Characterization of Nanomaterials	G	3
CM6077*	Chemistry of Advanced Energy Materials	G	3
CM7001*	Seminar	G	2
Department of Mathematics			
Course #	Course Name	Undergraduate Course(U) or Graduate Course(G)	Credit
MA5043*	Statistical Machine Learning	G	3
MA6024*	Theory of Stochastic Processes II	G	3
MA7066*	Algebra II	G	3
MA7117*	Variation Method	G	3
MA8018*	Differential Equations II	G	3
MA8020*	Numerical Analysis II	G	3
Department of Physics			
Course #	Course Name	Undergraduate Course(U) or Graduate Course(G)	Credit
PH1036B	General Physics A	U	3
PH4029*	Introduction to Fluid Mechanics	U	3
PH6004*	Quantum Mechanics II	G	3
PH6006*	Classical Electrodynamics II	G	3
PH6012*	Statistical Mechanics I	G	3
PH6034*	Solid State Physics II	G	3
PH7029*	High Energy Physics I	G	3
PH7030*	Complex Systems	G	3
PH7044*	Quantum Computation and Quantum Information	G	3
PH7062*	Gravitational Wave and Multi-messenger Astronomy	G	3



PHT016*	Advanced Physical Chemistry (II)	G	3
PHT031*	Colloquium I	G	0
PHT032*	Colloquium II	G	0
PHT039*	Advanced Organic Chemistry I	G	3
PHT041*	Advanced Analytical Chemistry I	G	3
PHT043*	Special Topics on Solid State Physics: Advances and Applications	G	3
PHT050*	Introduction to Recent Trends in Atomic and Molecular Physics	G	3
PHT052*	Characterization, Fabrication, and Manipulation at Nanometer Scale	G	3
PHT061*	Advanced Nanotechnology_Physics	G	3
PHT062*	Advanced Nanotechnology_Chemistry	G	3
PHT072*	Special Studies on Topics about Molecular Science and Technology II	G	0
PHT073*	Seminar Presentation on Topics about Molecular Science and Technology I	G	2
PHT074*	Seminar Presentation on Topics about Molecular Science and Technology II	G	2
PHT075*	Seminar Presentation on Topics about Molecular Science and Technology III	G	2
Department of Optics & Photonics			
Course #	Course Name	Undergraduate Course(U) or Graduate Course(G)	Credit
OS6072*	Electro-Optical Semiconductor Physics and Devices	G	3
OS6076*	Thin Film Design & Fabrication	G	3
OS6077*	Topics on Modern Holography	G	3
OS7104*	Integrated Optics	G	3
OS7149A	Crystal Optics	G	3
OS7160*	Physical Foundations of Semiconductor Optoelectronics	G	3
OS7162*	Ultrafast Optics	G	3



OS7190*	Optical System Design and Simulation II	G	3
Graduate Institute of Astronomy			
Course #	Course Name	Undergraduate Course(U) or Graduate Course(G)	Credit
AS6005*	Advanced Astronomical Observations	G	3
AS6014*	Interstellar Medium	G	3
AS6032*	Modern Observing Techniques	G	3
AS6042*	High Energy Astrophysics	G	3
AS6044*	Data Analysis	G	3
AS6076*	Large-scale Structure and Cosmology	G	3
AS6077*	Stellar Formation and Evolution	G	3
AS6095*	Astroinformatics	G	3
AS6096*	Astronomy Journal Writing	G	2
AS8005*	Radiative Astrophysics	G	3
AS8007*	Seminar III	G	2
AS8008*	Theoretical Astrophysics	G	3

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