

SEAS NATURAL SCIENCE (EUNS)

Code	Title	Course Units
ASTR 1211	Introduction to Astrophysics I	1
ASTR 1212	Introduction to Astrophysics II	1
ASTR 1250	Astronomical Techniques	1
ASTR 3392	Life and Death of Stars	1
BCHE 2280	Physical Models of Biological Systems	1
BIOL 1017	The Biology of Food	1
BIOL 1101	Introduction to Biology A	1.5
BIOL 1102	Introduction to Biology B	1.5
BIOL 1110	Introduction to Brain and Behavior	1
BIOL 1121	Introduction to Biology - The Molecular Biology of Life	1
BIOL 1123	Introductory Molecular Biology Laboratory	.5
BIOL 1124	Introductory Organismal Biology Lab	.5
BIOL 1604	Humans and the Environment	1
BIOL 2001	Essentials of Cell Biology	1
BIOL 2010	Cell Biology	1
BIOL 2110	Molecular and Cellular Neurobiology	1
BIOL 2140	Evolution of Behavior: Animal Behavior	1
BIOL 2201	Essentials of Molecular Biology and Genetics	1
BIOL 2210	Molecular Biology and Genetics	1
BIOL 2410	Evolutionary Biology	1
BIOL 2610	Ecology: From individuals to ecosystems	1
BIOL 2801	Essentials of Biochemistry	1
BIOL 2810	Biochemistry	1
BIOL 3004	Infectious Disease Biology	1
BIOL 3006	Histology	1
BIOL 3054	Developmental Biology	1
BIOL 3313	Essentials of Pathophysiology	1
BIOL 3430	Comparative Vertebrate Anatomy and Evolution	1
BIOL 3625	Marine Biology	1
BIOL 3999	Independent Study	1
BIOL 4004	Immunobiology	1
BIOL 4010	Advanced Cell Biology	1
BIOL 4016	Molecular Mechanisms of Infectious Disease Biology	1
BIOL 4077	The Science and Art of Biotechnology	1
BIOL 4110	Neural Systems and Behavior	1
BIOL 4116	Neural Circuits for Survival	1
BIOL 4210	Molecular Genetics	1
BIOL 4231	Genome Science and Genomic Medicine	1
BIOL 4233	Genes in Conflict: How sex and selfish genetic elements drive genome evolution	1
BIOL 4234	Epigenetics	1
BIOL 4235	The RNA World: A functional and computational analysis	1
BIOL 4313	Energy Transformations and Living off-the-Grid	1
BIOL 4314	Molecular Evolution of Physiological Functions	1
BIOL 4318	Systems Biology: Integrative physiology and biomechanics of the muscular system	1
BIOL 4410	Advanced Evolution	1
BIOL 4411	Evolutionary Ecology	1
BIOL 4430	Evolution and Ecology of Infectious Diseases	1
BIOL 4517	Theoretical Population Biology	1
BIOL 4536	Introduction to Computational Biology & Biological Modeling	1
BIOL 4600	Field Botany	1
BIOL 4615	Freshwater Ecology	1
BIOL 4623	Plant Ecology	1
BIOL 4701	Prokaryotic Microbiology: A Pragmatic View	1
BIOL 4710	Topics in Prokaryotic Biology: From Molecules to Microbiomes	1
BIOL 4825	Biochemistry and Molecular Genetics Superlab	1
BIOL 4999	Advanced Independent Study	1
BIOL 5010	Advanced Cell Biology	1
BIOL 5016	Molecular Mechanisms of Infectious Disease Biology	1
BIOL 5022	Cell Signaling	1
BIOL 5116	Neural Circuits for Survival	1
BIOL 5220	Human Evolutionary Genomics	1
BIOL 5231	Genome Science and Genomic Medicine	1
BIOL 5233	Genes in Conflict: How sex and selfish genetic elements drive genome evolution	1
BIOL 5234	Epigenetics	1
BIOL 5240	Genetic Analysis	1
BIOL 5314	Molecular Evolution of Physiological Functions	1
BIOL 5318	Systems Biology: Integrative physiology and biomechanics of the muscular system	1
BIOL 5410	Evolutionary Biology	1
BIOL 5430	Evolution and Ecology of Infectious Diseases	1
BIOL 5510	Statistics for Biologists	1
BIOL 5517	Theoretical Population Biology	1
BIOL 5535	Introduction to Computational Biology & Biological Modeling	1
BIOL 5536	Fundamentals of Computational Biology	1
BIOL 5600	Field Botany	1
BIOL 5615	Freshwater Ecology	1
BIOL 5720	Topics in Prokaryotic Biology: From Molecules to Microbiomes	1
BIOL 5825	Biochemistry and Molecular Genetics Superlab	1
BIOL 5999	Master's Independent Study	0.5-3
BIOL 7000	Advanced Topics in Current Biological Research	1

BIOL 9999	Independent Study and Research	0.5-4	EESC 4200	Geochemistry	1
CAMB 4310	Genome Science and Genomic Medicine	1	EESC 4320	Atmospheric Chemistry	1
CAMB 4800	Advanced Cell Biology	1	EESC 4360	Environmental Fluid Dynamics	1
CAMB 4830	Epigenetics	1	EESC 4440	Geomicrobiology	1
CAMB 4850	The RNA World: A functional and computational analysis	1	EESC 4630	Hydrology	1
CAMB 5220	Human Evolutionary Genomics	1	EESC 5400	Evolution/Revolution of Land Ecosystems	1
CHEM 1012	General Chemistry I	1	EESC 6200	Advanced Geochemistry	1
CHEM 1022	General Chemistry II	1	EESC 6540	Advanced Paleoecology Discovering Lost Ecosystems	1
CHEM 1101	General Chemistry Laboratory I	.5	ENVS 2390	Freshwater Ecology	1
CHEM 1102	General Chemistry Laboratory II	.5	ESE 1120	Engineering Electromagnetics	1.5
CHEM 2210	Physical Chemistry I	1	GCB 5360	Fundamentals of Computational Biology	1
CHEM 2220	Physical Chemistry II	1	MATH 5940	Mathematical Methods of Physics	1
CHEM 2230	Experimental Physical Chemistry I	1	MSE 2210	Quantum Physics of Materials	1
CHEM 2410	Principles of Organic Chemistry I	1	NRSC 1110	Introduction to Brain and Behavior	1
CHEM 2411	Principles of Organic Chemistry I with Laboratory	1.5	NRSC 2110	Molecular and Cellular Neurobiology	1
CHEM 2420	Principles of Organic Chemistry II	1	NRSC 2140	Evolution of Behavior: Animal Behavior	1
CHEM 2421	Principles of Organic Chemistry II with Laboratory	1.5	NRSC 2233	Neuroethology	1
CHEM 2422	Principles of Organic Chemistry II Laboratory	0	NRSC 2240	Chronobiology and Sleep	1
CHEM 2451	Experimental Organic Chemistry A	.5	NRSC 2260	Neuroendocrinology	1
CHEM 2460	Advanced Synthesis and Spectroscopy Laboratory	1	NRSC 2269	Autonomic Physiology	1
CHEM 2510	Principles of Biological Chemistry	1	NRSC 2270	Drugs, Brain and Mind	1
CHEM 2999	Directed Study and Seminar	1	NRSC 2350	Developmental Neurobiology	1
CHEM 3999	Independent Research	1	NRSC 3310	Functional Neuroanatomy	1
CHEM 5210	Statistical Mechanics I	1	NRSC 3492	Experimental Methods in Synaptic Physiology	1
CHEM 5220	Statistical Mechanics II	1	NRSC 3999	Independent Research	1
CHEM 5230	Quantum Chemistry I	1	NRSC 4110	Neural Systems and Behavior	1
CHEM 5240	Quantum Chemistry II	1	NRSC 4420	Smell and Taste	1
CHEM 5250	Molecular Spectroscopy	0.5	NRSC 4421	Functional Imaging of the Human Brain	1
CHEM 5260	Chemical Dynamics	1	NRSC 4460	Neuroendocrinology Seminar	1
CHEM 5410	Chemical Kinetics	0.5	NRSC 4475	Neurodegenerative Disease	1
CHEM 5411	Physical Organic Chemistry	1	NRSC 4480	Biological Basis of Psychiatric Disorders	1
CHEM 5430	Modern Organic Synthesis	1	NRSC 4481	Behavioral Pharmacology	1
CHEM 5440	Organic Reaction Mechanisms	1	NRSC 4482	Clinical Psychopharmacology	1
CHEM 5510	Biological Chemistry I	1	NRSC 4999	Advanced Independent Research	1
CHEM 5520	Biological Chemistry II	1	PHYS 0150	Principles of Physics I: Mechanics and Wave Motion	1.5
CHEM 5570	Mechanisms of Biological Catalysis	1	PHYS 0151	Principles of Physics II: Electromagnetism and Radiation	1.5
CHEM 5620	Inorganic Chemistry II	1	PHYS 0170	Honors Physics I: Mechanics and Wave Motion	1.5
CHEM 5640	Organometallics	1	PHYS 0171	Honors Physics II: Electromagnetism and Radiation	1.5
CHEM 5650	Main Group Chemistry	1	PHYS 1230	Principles of Physics III: Vibrations and Waves, Special Relativity, and Thermal Physics	1
CHEM 6520	Proposal Writing for Biological and Physical Chemists	0.5	PHYS 1240	Principles of Physics IV: Modern Physics (without laboratory)	1
CHEM 9999	Independent Study and Research	0.5-4	PHYS 1250	Principles of Physics IV: Modern Physics	1.5
CIS 4360	Introduction to Computational Biology & Biological Modeling	1	PHYS 2260	Introduction to Computational Physics	1
CIS 5360	Fundamentals of Computational Biology	1	PHYS 2280	Physical Models of Biological Systems	1
EESC 1000	Earth Systems Science	1	PHYS 2999	Independent Study	1
EESC 1090	Introduction to Geotechnical Science	1.5	PHYS 3351	Analytical Mechanics	1
EESC 2120	Earth Materials: Minerals and Rocks	1			

PHYS 3361	Electromagnetism I: Electricity and Potential Theory	1
PHYS 3362	Electromagnetism II: Magnetism, Maxwell's Equations, and Electromagnetic Waves	1
PHYS 3364	Laboratory Electronics	1
PHYS 4401	Thermodynamics and the Introduction to Statistical Mechanics and Kinetic Theory	1
PHYS 4411	Introduction to Quantum Mechanics I	1
PHYS 4412	Introduction to Quantum Mechanics II	1
PHYS 4414	Laboratory in Modern Physics	1
PHYS 4421	Modern Optics	1
PHYS 4498	Senior Honor Thesis	1
PHYS 5500	Mathematical Methods of Physics	1
PHYS 5503	General Relativity	1
PHYS 5505	Introduction to Cosmology	1
PHYS 5516	Electromagnetic Phenomena	1
PHYS 5518	Introduction to Condensed Matter Physics	1
PHYS 5521	Advanced Laboratory	1
PHYS 5522	Introduction to Elementary Particle Physics	1
PHYS 5526	Astrophysical Radiation	1
PHYS 5530	Modern Optical Physics and Spectroscopy	1
PHYS 5531	Quantum Mechanics I	1
PHYS 5532	Quantum Mechanics II	1
PHYS 5533	Topics in Cosmology	1
PHYS 5561	Electromagnetism I	1
PHYS 5562	Electromagnetism II: Magnetism, Maxwell's Equations, and Electromagnetic Waves	1
PHYS 5580	Biological Physics	1
PHYS 5581	Thermodynamics	1
PHYS 6601	Introduction to Field Theory	1
PHYS 6611	Statistical Mechanics	1
PHYS 6622	Introduction to Elementary Particle Physics	1
PHYS 6632	Relativistic Quantum Field Theory	1
PHYS 6633	Relativistic Quantum Field Theory	1
PHYS 6661	Solid State Theory I	1
PHYS 6662	Solid State Theory II	1
PHYS 6696	Advanced Topics in Theoretical Physics	1
PHYS 9900	Masters Thesis	0
PHYS 9950	Dissertation	0
PHYS 9999	Independent Study	1-3
PSYC 1210	Introduction to Brain and Behavior	1
PSYC 2220	Evolution of Behavior: Animal Behavior	1
PSYC 2250	Drugs, Brain and Mind	1
PSYC 2260	Neuroendocrinology	1
PSYC 3220	Neural Systems and Behavior	1
PSYC 3260	Neuroendocrinology Seminar	1