

Math/Science Recommendations for NRE Students

This is not an all-inclusive list, just some suggested classes to satisfy the Math/Science Elective in the NRE undergraduate curriculum.

Class Number	Class Name	Pre-reqs
BIOL 1510	Biological Principles	None
BIOL 1520	Intro to Organismal Biology	None
BIOL 4015	Cancer Bio/Tech	CHEM 1310 or PHYS 2211 or BIOL 1510 or BIOL 1520
CHEM 1212K	Chemical Principles II	CHEM 1310 or CHEM 1211K
CHEM 2311	Organic Chemistry I	CHEM 1311 or CHEM 1212K
CHEM 2312	Organic Chemistry II	CHEM 2311
CHEM 2380	Synthesis Lab I	CHEM 1212K and CHEM 2312
CHEM 3411	Physical Chemistry I	CHEM 1311 or CHEM 1212K
CHEM 3511	Survey of Biochemistry	CHEM 1315 or CHEM 2312 or CHEM 2313
CHEM 3700	Alternative Energy	CHEM 1310 and PHYS 2211 and PHYS 2212
EAS 2600	Earth Processes	None
EAS 2750	Physics of the Weather	None
EAS 4220	Environmental Geochemistry	MATH 1552 and CHEM 1212K
EAS 4331	Physical Volcanology	PHYS 2211 and MATH 2552
EAS 4410	Climate & Global Change	None
EAS 4460	Satellite & Radar Meteorology	PHYS 2212 and MATH 2552
EAS 4655	Atmospheric Dynamics	PHYS 2212 and MATH 2551 and MATH 2552
MATH 3012	Applied Combinatorics	MATH 1552 and MATH 1553
MATH 4221	Stochastic Processes I	MATH 3670
MATH 4305	Linear Algebra	MATH 1552 and MATH 1553
MATH 4347	Partial Differential Eqns I	MATH 2552 and MATH 1553
MATH 4581	Math Methods in Engr	MATH 2552
MATH 4640	Numerical Analysis I	MATH 2552
PHYS 2213	Intro to Modern Physics	PHYS 2212
PHYS 3122	Electro & Magnetostatics	PHYS 2212 and MATH 2552
PHYS 3143	Quantum Mechanics I	PHYS 2212 and MATH 2552
PHYS 3201	Classical Mechanics I	PHYS 2212 and MATH 2552
PHYS 4142	Statistical Mechanics	PHYS 3141 and PHYS 3143
PHYS 4261	Atomic Physics	PHYS 3143
PHYS 4263	Nuclei, Particles & Fields	PHYS 3143