

**Course Requirements for Secondary Certification
Major and Endorsement in Integrated Science (DI)**

Course Title	Course Number	Sem. Hours	Major	Additional Endorsements
Basic Life Diversity	BIO1500	4	X	X
Basic Life Mechanisms	BIO1510	4	X	X
Introductory Microbiology	BIO 2200	4	X	
Genetics	BIO 3070	4	X	
Ecology and Evolution or Comparative Physiology	BIO 6210 BIO 4120	4 4	X	X
Structure, Bonding and Reactivity	CHM1220	4	X	X
Chemical Principles in the Laboratory	CHM1230	1	X	X
Principles of General/Organic Chemistry	CHM1240	4	X	X
General/Organic Chemistry Laboratory	CHM1250	1	X	X
Organic Chemistry	CHM2220	3	X	
Organic Chemistry Laboratory	CHM2230	2	X	
Laboratory Safety	CHM6740	2	X	X* if not previously taken
The Science of the Earth	GEL1010	4	X	X
Meteorology	GEL1370	3	X	X
Descriptive Astronomy	AST2010	4	X	X
Astronomy Lab	AST2011	1		
General Physics I	PHY2130	3	X	X
General Physics Laboratory	PHY2131	1	X	X
General Physics II	PHY2140	3	X	X
General Physics Laboratory	PHY2141	1	X	X
Undergraduates Students				
Non-Classical Physics	PHY5015	3	X	
Modern Physics Laboratory	PHY3310	1	X	
MAT Students				
Modern Physics for Secondary Educators	PHY7010	4	X	
Modern Physics Laboratory	PHY3310			
Total number of SEMESTER HOURS required for each option offered:			61	42 or 44