

PHYSICS/MATHEMATICS: Bachelor of Science with a Major in Physics/Mathematics  
with Certification in Secondary Education

Core Curriculum Areas A-E for Science Majors	42
Core Curriculum Area F (Grade C or better in all these courses)	18
PHYS 2211, 2212 Principles of Physics I, II	8
MATH 2011, 2012, 2013 Calculus I one hour, II, III	9
CSCI 1301 Principles of Computer Programming I	1
Lower Level Requirements (Grade C or better in all these courses)	12
CHEM 1211 & 1212 (hours not taken in Area D)	0
CSCI 1301 (3 hours from Area F)	3
EDUC 2101 Foundations of Education	3
EDUC 2102 Human Growth and Development	3
SPED 2000 Exceptional Children	3
*EDUC & SPED courses should be taken before junior year	
Physics Concentration: (Grade C or better in all these courses)	21
PHYS 3011 Electronics I	4
PHYS 3040 Advanced Optics	4
PHYS 3251 Theoretical Mechanics I or PHYS 4051 Electromagnetic Theory I	3
PHYS 4511 Quantum Physics I	4
Select two courses from the 3000 & 4000 level Physics courses	6
Mathematics Concentration: (Grade C or better in all these courses)	21
MATH 3020 Differential Equations	3
MATH 3030 Symbolic Logic and Set Theory	3
MATH 4211 Modern Abstract Algebra I	3
MATH 4251 Probability and Statistics I	3
MATH 4280 Linear Algebra	3
MATH 4310 Modern Geometry	3
MATH 4410 History of Mathematics	3
Secondary Teacher Certification (Grade of C or better is required in all these courses)	25
SCED 4101 Technology, Portfolio, and Assessment	3
SCED 4102 Secondary School Curriculum	3
SCED 4301 Secondary Math Pedagogy I	3
SCED 4401 Science Pedagogy I	3
SCED 4901 Secondary Apprenticeship/Seminar	13
Electives (to handle transfers within the University System)	0
Physical Education	<u>5</u>
Total Hours for the Degree	<u>144</u>