

**Course Requirements for Secondary Certification
Major and Endorsement in Physics (DE)**

Course Title	Course Number	Sem. Hours	Secondary		Additional Endors.
			Maj.	Min.	
General Physics	PHY2130 PHY2131	4		X	X
General Physics	PHY2140 PHY2141	4		X	X
Non-Classic Physics for Educators Offered in Fall	PHY5015	3		X	X
Modern Physics Lab	PHY3310	1		X	X
General Physics	PHY2170 PHY2171	4	X		
General Physics	PHY2180 PHY2181	4	X		
Modern Physics	PHY3300 PHY3310	4	X		
Mechanical Phenomena	PHY5200	3	X		
Classical Physics for Secondary School Educators	PHY6100	3		X	X
Optics	PHY5340 PHY5341	5	X		
Electromagnetic Fields I	PHY6600	3	X		
Electronics and Electrical Measurement	PHY5620	4	X		
Two Physics Electives: Einstein, Relat. & Quant (3) The Sounds of Music (4) Energy Generation and Consumption (4)	PHY1040 PHY3100 PHY6120	7	X	X	X
Total Number of SEMESTER HOURS required for each option offered:			35	22	22
Additional Courses Required					
An Introduction to Life	BIO1050	4	X		
Chem Struct, Bond, & React	CHM1220 CHM1230	5	X		
Laboratory Safety	CHM6740	2	X	X**	X**
Science of the Earth	GEL1010	4	X		
Science Elective		4	X		

Math Courses Required:					
Calculus I	MAT2010	4	X		
Elem. Probab. & Statist	MAT2210	4	X		
Elementary Functions	MAT1800	4		X	X