



School of Education
Physical Science
Program Outline
For Students Entering 2020-2021 Academic Year

Degree Earned: Bachelor of Science in Education (BSEd)
License Earned: Physical Science, 132020
OAE Exams: 003 Assessment of Professional Knowledge: Adolescence to Young Adult (7-12)
009 Chemistry
035 Physics
GPA Requirements for Graduation: 2.800 Cumulative, 2.800 in EDU Courses, 2.600 in courses required for Physical Science Major

Courses marked with # fulfill the CHM Minor requirements.
CHM Minor requires 22.5 credits.

Name _____ ID# _____ Advisor _____

Course #	Course Title	Hours	Advising Notes (Note: Unless otherwise noted, course is offered in Fall and Spring)
Required Courses in Chemistry:			
CHM 111#	General Chemistry I	4	
CHM 112 #	General Chemistry II <i>Prerequisite: CHM 111</i>	4	
CHM 115#	General Chemistry Lab <i>Prerequisite: CHM 111; Corequisite: CHM 112</i>	1	
CHM 221#	Quantitative Analysis <i>Prerequisites: CHM 112 and CHM 115</i> <i>Corequisite: CHM 225</i>	3	Offered Fall Only
CHM 225#	Quantitative Analysis Laboratory <i>Corequisite: CHM 221</i>	1	Offered Fall Only
CHM 251#	Organic Chemistry I <i>Prerequisite: CHM 112 and CHM 115; Corequisite: CHM 255</i>	4	Offered Fall Only
CHM 252#	Organic Chemistry II <i>Prerequisites: CHM 251 and CHM 255; Corequisite: CHM 256</i>	4	Offered Spring Only
CHM 255#	Organic Chemistry I Laboratory <i>Corequisite: CHM 251</i>	0.5	Offered Fall Minimester B Only
CHM 256#	Organic Chemistry II Laboratory <i>Corequisite: CHM 252</i>	1	Offered Spring Only
CHM 341#	Inorganic Chemistry <i>Grade "C-" or better in CHM 251 and CHM 252</i> <i>Corequisite: CHM 345</i>	3	Offered Fall Even Years Only
CHM 345#	Inorganic Chemistry Laboratory <i>Corequisite: CHM 341</i>	1	Offered Fall Even Years Only
Required Courses in Mathematics:			
MTH 141	Calculus I <i>Prerequisite: MTH 140 or an ACT Math Score of 27 or higher, a SAT Math Section Score of 550 or higher (if taken prior to March 2016), a SAT Math Section Score of 570 or higher (if taken after March 2016), or a SAT Math Test Score of 28.5 or higher, or instructor permission.</i>	4	

Required Courses in Physics:			
PHY 131	<p>General Physics I</p> <p><i>Must be taken concurrently with PHY 151 unless given permission of instructor</i></p> <p><i>Prerequisites: The student is assumed to have had high school mathematics through algebra and pre-calculus</i></p> <p><i>Corequisites: High school physics and familiarity with calculus, or calculus should be taken concurrently</i></p>	4	Offered Fall Only
PHY 132	<p>General Physics II</p> <p><i>Must be taken concurrently with PHY 152 unless given permission of instructor</i></p> <p><i>Prerequisites: The student is assumed to have had high school mathematics through algebra and pre-calculus</i></p> <p><i>Corequisites: High school physics and familiarity with calculus, or calculus should be taken concurrently</i></p>	4	Offered Spring Only
PHY 151	<p>Introductory Physics Lab I</p> <p><i>Must be taken concurrently with PHY 131 unless given permission of instructor</i></p>	1	Offered Fall Only
PHY 152	<p>Introductory Physics Lab II</p> <p><i>Must be taken concurrently with PHY 132 unless given permission of instructor</i></p>	1	Offered Spring Only
PHY 233	<p>Modern Physics</p> <p><i>Prerequisites: The student is assumed to have taken General Physics, Applied College Physics, or the equivalent and to have completed or be taking introductory calculus.</i></p>	4	Offered Fall Only