



School of Education  
**Integrated Science**  
 Program Outline  
 For Students Entering 2018-2019 Academic Year

Name \_\_\_\_\_ ID# \_\_\_\_\_ Advisor \_\_\_\_\_

Course #	Course Title	Hours	Advising Notes
<b>Required Courses:</b>			
BIO 121	Principles of Biology I	4	Lab included
BIO 122	Principles of Biology II	4	Lab included
BIO 211	Genetics	4	
BIO 310	Evolution	4	
<b>Required Courses in Chemistry:</b>			
CHM 111	General Chemistry I	4	
CHM 112 & CHM 115	General Chemistry II & General Chemistry Laboratory	5	
CHM 221 & CHM 225	Quantitative Analysis Quantitative Analysis Laboratory	4	
CHM 251 & CHM 255	Organic Chemistry I & Organic Chemistry I Laboratory	4.5	
<b>Required Courses in Physics:</b>			
PHY 131 & PHY 151 <b>OR</b> PHY 145	General Physics I & Introduction to Physics Laboratory I <b>OR</b> Applied College Physics I	5	
PHY 132 & PHY 152 <b>OR</b> PHY 146	General Physics II & Introduction to Physics Laboratory II <b>OR</b> Applied College Physics II	5	
<b>Required Courses in Geology:</b>			
GEO 121I	Physical Geography	4	Lab included
GEO 229	Oceanography	3	
<b>Choose ONE of the following Senior Seminars:</b>			
BIO 463	Biology Senior Seminar	1	
CHM 364	Chemistry Junior Seminar	0.5	
<b>Choose TWO of the following courses Physics courses:</b>			
PHY 233	Modern Physics	4	
PHY 312	Advanced Laboratory	3	Lab included
PHY 331	Physical Mechanics I	3	
PHY 371	Thermal Physics	4	
PHY 362	Physics of Waves	3	
PHY 372	Quantum Physics	3	
<b>Choose ONE of the following Astronomy course sequences (4 credits):</b>			
AST 111 & AST 170 <b>OR</b> AST 121 & AST 170	Astronomy of the Stars & Observational Astronomy Laboratory <b>OR</b> Astronomy of the Solar System & Observational Astronomy Laboratory	4	
AST 131	Exploratory Astronomy	4	Lab included
<b>Additional Teaching Field Requirements:</b>			
<i>Must meet all EDU requirements, including GPA and prerequisite coursework requirements before taking methods</i>			
EDU 356	Special Methods: Science	3	Only offered in Fall semester