

Department of Education

INTEGRATED SCIENCE TEACHER EDUCATION AYA MAJOR/BIOLOGY MINOR

Program Outline For Students Under the 2023-2024 BW Catalog

Degree Earned: Bachelor of Science in Education (BSEd)

License Earned: Integrated Science, 132010

OAE Exams: 003 Assessment of Professional Knowledge: Adolescence to Young Adult (7-12); 024 Integrated Science GPA Requirements for Graduation: 2.800 Cumulative, 2.800 in EDU Courses, 2.600 in required courses for Integrated Science

Program

Name	ID#	Advisor	
Courses marked with # fulfill the BIO minor requirements.			
	BIO minor requires 17 credits which must include BIO 121, BIO 122.		

Course #	Course Title	Hours	Advising Notes (Note: Unless otherwise noted, course is offered in Fall and Spring)
Required Course	es in Astronomy		
AST 121	Astronomy of the Solar System	3	
AST 170	Observational Astronomy Lab Prerequisite or Corequisite: AST 111 or AST 121 or Equivalen	1 t	
Required Course			<u> </u>
BIO 121#	Principles of Biology I	4	
BIO 122#	Principles of Biology II	4	
BIO 211#	Genetics Prerequisites: %6-%/ beccel # BIO 121 a} d BIO 122	4	Offered Fall Only
BIO 263#	Sophomore Biology Seminar Płełe ĕããe•: ‰-‰-l beœ-l ĝ BIO 121 a} d BIO 122	1	
BIO 313#	Ecology Prerequisites: ENG 131, BIO 121, and BIO 122	4	Offered Fall Only
Required Course			·
CHM 111	General Chemistry I	4	
CHM 112	General Chemistry II Prerequisite: CHM 111	3	
CHM 115	General Chemistry Laboratory Prerequisite: CHM 111; Corequisite: CHM 112	1	
CHM 251	Organic Chemistry I Prerequisite: CHM 112 and CHM 115 or permission of the instructor; Corequisite: CHM 255	3	Offered Fall Only
CHM 255	Organic Chemistry I Laboratory Prerequisite: Corequisite: CHM 251	0.5	Offered Fall Minimester B Only
Required Course			
GEO 111	The Dynamic Earth	4	

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Required Courses in Physics:

PHY 131 Physics for Scientists and Engineers I

Prerequisite(s): Four years of high school mathematics, including trigonometry, or MTH 140.

Corequisite(s): Except by permission of the instructor, PHY 151 is to be taken concurrently with PHY 131