

**Biology Education – Teaching Certification Requirements
(grades 9-12)**

Name:**Student #:**

Note: SBU reserves the right to amend the curriculum and require teaching certificate candidates to graduate under a program which reflects the state certification requirements in force at the time of graduation.

GPA Requirements:

- ◆ 2.5 overall and in the certificate subject area
- ◆ 2.5 in professional education courses with no grade lower than a "C"

Assessments:

- ◆ ACT/SAT scores
- ◆ APT/MFT, if applicable
- ◆ C-BASE – pass all sections
- ◆ Praxis II – passing score

Professional Education Sequence

Course #	Course Title	Hours	Grade	Semester/ Year
EDU 2113	Educational Psychology (F/S)	3		
EDU 2313	Foundations of Education-Secondary (F/S)	3		
EDU 2141	Field Experience 1 (Observing & Assisting) in the Secondary 9-12 or K-12 School (F/S/J) <i>Pre-enrollment required in EDU department</i> <ul style="list-style-type: none"> ◆ 2.0 GPA ◆ Education file complete ◆ Completed EDU 2113 or 2313 OR be concurrently enrolled in one or both 	1		
EDU 2823	Technology for Educators (F/S)	3		
PSY 4033	Adolescent Development (F)	3		

Before continuing Professional Sequence, the following prerequisites must be met:

- ◆ C-BASE – pass all sections
- ◆ 2.5 overall GPA
- ◆ EDU 2113, 2313, 2141

EDU 3333	Principles & Methods of Secondary School (F/S)	3		
EDU 3341	Field Experience Level 2 in the Secondary School (must be taken concurrently with EDU 3333) (F/S) <i>Pre-enrollment required in EDU department</i>	1		
EDU 3613	Teaching Reading in the Content Area (F/S)	3		
EDU 3833	Behavior & Classroom Management – Secondary (F/S) [EDU 3333 is a recommended pre-requisite]	3		
EDU 4522	Methods of Teaching Science in Middle/Secondary Schools (S, even)	2		

Before beginning Student Teaching Semester, the following prerequisites must be met:

- ◆ Praxis II – passing score

EDU 4691	Student Teaching Seminar (BLOCK) (F/S)	1		
EDU 4832	Assessment and Evaluation of Learners (BLOCK) (F/S)	2		
EDU 4842	Teaching Diverse Learners (BLOCK) (F/S)	2		
EDU 4949	Student Teaching in the Secondary School (BLOCK) (F/S)	10		
TOTALS	Professional Education Sequence	40		
	Biology Certification Requirements	55		

Biology Education Certification Requirements

(55 hours)

Biology core (22 hours)		Hours	Grade	Semester/ Year
BIO 1004	Principles of Biology (hours counted in general educ)	*		
BIO 1111	Biology Colloquium (F/S)	1		
BIO 2134	General Zoology (S)	4		
BIO 2214	Environmental Biology (F, odd)	4		
BIO 2234	General Botany (F)	4		
BIO 3324	Genetics (F)	4		
BIO 3334	Ecology (S)	4		
BIO 4471	Seminar in Biology (F)	1		
Biology elective (12 hours)				
BIO				
BIO				
BIO				
Required Support Courses (14 hours)				
CHE 1115	General Chemistry I (F)	5		
CHE 1125	General Chemistry II (S)	5		
*PHS 1004	Introduction to Physical Science (J/S)	4		
Additional Required Courses (7 hours)				
PHS 1114	Introduction to Earth Science (F/J)	4		
PHS 3303	History & Philosophy of Science & Technology (F, even)	3		

Requirements for Additional Major: BS in Biology

BIO 3012	Methods in Scientific Research (F)	2		
BIO 4224	Cell and Molecular Biology (S)	4		
SCF 3402	Biology through the Eyes of Faith (F)	2		
*PHY 1115/1125 <i>or</i> CHE 3304/3314 <i>or</i> MAT 1195/2255 <i>or</i> CIS 1144/1154	General Physics I (F) and II (S) <i>or</i> Organic Chemistry I (F) and II (S) <i>or</i> Analytics and Calculus I (F/S) and II (F/S) <i>or</i> Computer Science I(F/S) and II (S)	8-10		

*PHY 1115/1125 may be substituted for PHS 1004