

***Unified Science – Teaching Certification Requirements
(Biology Endorsement – grades 9-12)***

Name:	Student #:
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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	39		
	Unified Science Certification Requirements	41		
	Biology Endorsement Certification Requirements	24		

Unified Science Certification Requirements

Biology (to include Zoology & Botany with labs) 8 hours		Hours	Grade	Sem/Year
BIO 2134 and	General Zoology (S)	4		
BIO 2234	General Botany (F)	4		
Chemistry (with labs) – 10 hours				
CHE 1115 and	General Chemistry I (F)	5		
CHE 1125	General Chemistry II (S)	5		
Physics (with labs) – 8 hours				
PHY 1115 and	General Physics I (F)	5		
PHY 1125	General Physics II (S)	5		
Earth Science (to include Geology and Meteorology) 8 hours				
PHS 1114	Introduction to Earth Science (F/J)	4		
PHS 2214	Meteorology (on demand)	4		
Environmental Science – 4 hours				
BIO 3334 or	Ecology (S)	4		
BIO 2214	Environmental Biology (F, odd)			
History/Philosophy of Science and Technology – 3 hours				
PHS 3303	History/Phil of Science & Tech (F, even)	3		

Biology Endorsement

(requires an additional 24 hours)

BIO 1004	Principles of Biology (F/S) (hours counted in general educ)	*		
Biology Core (22 hours, 10 hours not otherwise counted)				
BIO 1111	Biology Colloquium (F/S)	1		
BIO 2134	General Zoology (S)	*		
BIO 2234	General Botany (F)	*		
BIO 3324	Genetics (F)	4		
BIO 3334	Ecology (S)	*		
BIO 4224	Cell & Molecular Biology (S)	4		
BIO 4471	Seminar in Biology (F)	1		
Biology Electives (minimum 16 hours)				
BIO 2204	Human Anatomy & Physiology I (F)	4		
BIO 3304	Human Anatomy & Physiology II (S)	4		
BIO 3314	Microbiology (F, even)	4		
BIO				
Required Support Courses for Major (12 hours, 2 not otherwise counted)				
CHE 1115	General Chemistry I (F)	*		
CHE 1125	General Chemistry II (S)	*		
SCF 3402	Biology Through the Eyes of Faith (F)	2		

* The hours for this course have been already been counted as General Education or Unified Science requirements.

Note: EDU 4522 Methods of Teaching Science will include: safety, lab techniques and research process skills.

This certificate will allow a teacher to teach any of the beginning sciences (i.e., General Science, Biology I, Chemistry I, or Physics I) and advanced classes in Biology. An endorsement is required for each area in which an advanced class is taught (i.e., Chemistry II, Physics II)

Completion of this program meets all requirements for the BS Biology degree at SBU.