

# BIOLOGY MAJOR

## MAJOR CHECKLIST

STUDENT: \_\_\_\_\_ ADVISOR: \_\_\_\_\_

GENERAL EDUCATION REQUIREMENTS (59 credit hours)			
SEMESTER OR TERM	GENERAL ED. REQUIREMENT	COURSE NUMBER & TITLE	CREDIT HOURS
WRITING AND COMPUTER SKILLS (4)			
	College Comp.	ENG 120 College Composition	3
	Tech. Tools	ISD 103 Technology Tools	1
	Advanced Writing	Paper Title:	
FOREIGN LANGUAGE (0-14)			
	Foreign Lang. I		4
	Foreign Lang. II		4
	Foreign Lang. III		3
	Foreign Lang. IV		3
CULTURAL HERITAGE (18)			
	ENG 210 or 215	Literature of Western Civilization	3
	HIS 210 or 215	Western Civilization	3
	PHI 210 or 215	History of Philosophy	3
	ART 210, 215, MUS 210, or THE 215	History of the Arts	3
		Second member of a pair	3
	HIS 220	American Civilization I	3
NATURAL SCIENCES AND MATHEMATICS (10)			
	Physical Science		3-4
	Life Science		3-4
	Laboratory		(a 4 above)
	Mathematics		3
SKILLS FOR LIFE (6)			
	Service	SER	.5
	Service	SER	.5
	Service	SER	.5
	Service	SER	.5
	Physical Activity	PER	1
	Physical Activity	PER	1
	Physical Activity	PER	1
	Health & Wellness	PER 143 Health & Wellness	1
ELECTIVES (6)			
			3
			3

MAJOR REQUIREMENTS (48 credit hours)		
SEMESTER OR TERM	COURSE NUMBER & TITLE	CREDIT HOURS
CORE (36)		
	BIO 201 General Biology I	4
	BIO 202 General Biology II	4
	BIO 211 General Botany	4
	BIO 212 General Zoology	4
	BIO 340 Genetics and Molecular Biology	3
	BIO 343 Molecular Biology Lab	1
	BIO 345 Cell Biology	3
	BIO 360 Ecology	3
	BIO 498 Senior Paper	2
	CHE 201 General Chemistry I	4
	CHE 202 General Chemistry II	4
ELECTIVES (12-14)		

OTHER COURSES TOWARD GRADUATION (Required: 120 credit hours)	

## BACHELOR OF ARTS GRADUATION REQUIREMENTS

1. Complete a minimum of 120 credit hours of study, at least 60 of which or at least the last two full-time semesters before graduation are at SVU. No more than 9 credit hours will be granted for internship courses.
2. Complete all general education requirements.
3. Complete all requirements of at least one major.
4. Earn a minimum grade point average of 2.00 on all course work taken at the University.
5. Comply with all University standards, regulations, and procedures, from the date of matriculation through the date of final graduation.

### BACHELOR'S DEGREE GENERAL EDUCATION REQUIREMENTS (44-58 credit hours)

#### Writing and Computer Skills (4)

1. ENG 120 College Composition (3)
2. ISD 103 Technology Tools (1) (waived for students who demonstrate comparable skills)
3. Advanced Writing: a paper of at least 3000 words that (a) is written for an upper-division Advanced Writing course, (b) satisfies the style standard in the course's discipline, and (c) accounts for the comments of the instructor (Note: This requirement is fulfilled by BIO 498.)

#### Foreign Language (0-14)

1. Second language proficiency at the intermediate level as demonstrated through completion of a fourth semester foreign language course (202) or above, or through assessment test results. Students with some background in a second language who wish to continue in that language at SVU must take a placement test to determine whether to enroll in 101, 102, 201, 202, or above.

#### Cultural Heritage (18)

1. One member of each of the following pairs (9 credit hours):  
ENG 210 & 215 Literature of Western Civilization  
HIS 210 & 215 Western Civilization  
PHI 210 & 215 History of Philosophy
2. One member of either of the following pairs (3 credit hours):  
ART 210 & 215 Art History  
MUS 210 & THE 215 Music & Theatre History
3. Both members of one of the above five pairs (an additional 3 credit hours)
4. HIS 220 American Civilization I (3)

#### Natural Sciences and Mathematics (10)

1. One general education physical science course from chemistry or physics (3-4)
2. One gen. education life science course from biology (3-4)
3. One of the general education physical or life science courses must have a laboratory component.
4. One general education mathematics course (or PHI 223 Introduction to Logic: see course description) (3)

#### Skills for Life (6)

1. Four SER service courses (2) (1 course waived for transfer students with 30-59 credit hours at entry to SVU; 2 courses waived for those with 60 or more credit hours at entry.)
2. Three PER physical activity courses (3)
3. PER 143 Health & Wellness (1)

#### Electives (6)

1. Two general education courses (3-4 credit hours each) **preferably outside of the major** in addition to those used to satisfy requirements in other general education categories

## BIOLOGY Major Requirements (48 Credits)

The Biology major assists students to achieve a broad-based education in the life sciences which emphasizes the various biological principles, related to structural, functional, taxonomical and ecological phenomena. It provides a rich understanding of the natural world, knowledge worth having for its own sake and for the perspective it brings to one's life.

**Program Coordinator:** Dr. Beth Schramm

### Major Requirements (48 -50 credit hours)

#### Core (36 credits):

BIO 201 General Biology I (4)  
BIO 202 General Biology II (4)  
BIO 211 Botany (4)  
BIO 212 Zoology (4)  
BIO 340 Genetics and Molecular Biology (3)  
BIO 343 Molecular Biology Lab (1)  
BIO 345 Cell Biology (3)  
BIO 360 Ecology (3)  
BIO 498 Senior Paper (2)  
CHE 201 General Chemistry I (4)  
CHE 202 General Chemistry II (4)

#### Electives (an additional 12-14 credits from the following):

BIO 304 Disease Process (3)  
BIO 310 Parasitology (4)  
BIO 312 Microbiology (3)  
BIO 315 Medical Entomology (3)  
BIO 331 & 332 Human Anatomy and Physiology I & II (8)  
BIO 335 Histology (4)  
BIO 338 Endocrinology (3)  
BIO 350 Developmental Biology (3)  
BIO 375 R Topics in Biology (Var.)  
BIO 385 R Directed Study (Var.)  
BIO 399 Internship/Practicum (1-3)  
CHE 383 Introduction to Biochemistry (3)

Although not required, PHY 201-202 are strongly recommended for the biology major.