

# BIOLOGY

## MAJOR CHECKLIST

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

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

GENERAL EDUCATION REQUIREMENTS (42-56 credit hours)			
SEMESTER OR TERM	GENERAL ED. REQUIREMENT	COURSE NUMBER & TITLE	CREDIT HOURS
UNIVERSITY WRITING (3)			
	College Comp.	ENG 120 College Composition	3
CIVILIZATION (17)			
	LIB 110	Reason and the Self	3
	LIB 120	America and the Enlightenment	3
	LIB 130	Classics of Western Literature	3
	ART 210, 215, MUS 210, or THE 215	History of the Arts (Choose 1)	3
	HIS 210, 215 or POL 213	Western Civilization (Choose 1)	3
	LIB 490	Contemporary Issues (Sr. Seminar)	2
NATURAL SCIENCES AND MATHEMATICS (10)			
	Physical Science		3-4
	Life Science		3-4
	Laboratory	Taken in conjunction with a 4 credit phy. or life science course	(a 4 above)
	Mathematics		3
FOREIGN LANGUAGE (0-14)			
	Foreign Lang. I		4
	Foreign Lang. II		4
	Foreign Lang. III		3
	Foreign Lang. IV		3
SKILLS FOR LIFE (6)			
	Service	SER 103	1
	Physical Activity	PER	1
	Physical Activity	PER	1
	Physical Activity	PER	1
	Health & Wellness	PER 143 Health & Wellness	1
	Tech. Tools	CSC 103 Technology Tools	1
SOCIAL SCIENCE (3)			
			3
FINE ARTS (3)			
			3

MAJOR REQUIREMENTS (48-50 credit hours)		
CORE (36)		
	BIO 201 General Biology I	4
	BIO 202 General Biology II	4
	BIO 211 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 (59 credit hours)

#### Writing and Computer Skills (4)

1. ENG 120 College Composition (3)
2. 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

#### Foreign Language (14)

1. Semesters I-IV of a foreign language (14) (may be partly or wholly waived for student demonstrating comparable second language abilities)

#### Cultural Heritage (18)

1. Each of the following (9 credit hours):  
LIB 110 Reason and the Self  
LIB 120 America and the Enlightenment  
LIB 130 Classics of Western Literature
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. HIS 210 & 215 Western Civilization I & II  
POL 213 Western Political Thought
3. LIB 490 Contemporary Issues (2) (Sr. Seminar)

#### Natural Sciences and Mathematics (10)

1. One general education physical science course from chemistry or physics (3-4)
2. One general 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. SER 103
2. Three PER physical activity courses (3)
3. PER 143 Health & Wellness (1)
4. CSC 103 Technology Tools (1)

#### Electives (6)

1. Social Sciences (3 credit hours):  
ECN 210 Principles of Microeconomics (3)  
ECN 215 Principles of Macroeconomics (3)  
EDU 250 Human Growth and Development (3)  
FCD 210 Marriage and Family (3)  
FCD 250 Child and Adolescent Development (3)  
GOV 227 Family Social Policy and Law (3)  
PSY 201 General Psychology I (3)

#### 2. Fine Arts (3 credit hours):

- ART 113 Introduction to Studio Art (3)
- ART 120 Introduction to Drawing (3)
- ART 130 Introduction to Painting (3)
- ART 223 Two-Dimensional Design (3)
- MUS 108 Music Fundamentals (3)
- MUS 129R Group Voice Instruction (3)
- MUS 151 Music Theory I (3)
- MUS 167 Conducting Fundamentals (3)
- THE 106 Stagecraft (3)
- THE 110 Acting I (3)

### BIOLOGY MAJOR REQUIREMENTS (48-50 credit hours)

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:** Prof. Richard Gardner

#### MAJOR REQUIREMENTS (48-50 CREDIT HOURS)

##### Core (36):

- 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 credit hours from among the following):

- BIO 228 Human Anatomy (4)
- BIO 304 Disease Process (3)
- BIO 310 Parasitology (4)
- BIO 312 Microbiology (3)
- BIO 315 Medical Entomology (3)
- BIO 328 Human Physiology (4)
- BIO 335 Histology (4)
- BIO 338 Endocrinology (3)
- BIO 350 Developmental Biology (3)
- BIO 375R Topics in Biology (Var.)
- BIO 385F 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.