FINLANDIA

UNIVERSITY

Suomi College of Arts & Sciences Academic Progress Sheet 2021 – 2022

DEGREE: BACHELOR OF SCIENCE - Biology

NAME:

STUDENT NUMBER: _____

CORE CURRICULUM REQUIREMENTS 39		
Proficiencies:		
ENG 103*	College English I	3
ENG 104*	College English II	3
COM 108	Fundamentals of Public Speakin	g 3
MAT 191	Calculus I	4
Perspectives:§		
UNS 115	Sisu Seminar	1
REL/FNS	Religion or Finnish Studies	3
BIO 113	Biology: Diversity of Life	4
Humanities+	Three Courses	9
Social Sciences++	Three Courses	9

* Must be successfully completed before taking WI courses.

- § No more than six credits of one discipline, except up to eight credits of the same foreign language.
- + Includes courses in ARD, COM, DRM, ENG (but not ENG 101), FNS, HIS, HUM, MUS, PHL, REL, or foreign language.
- ++Includes courses in ANT, COM, ECN, ENV, GEO, GSS, HIS, PLS, PSY, and SOC.

BIOLOGY MAJOR REQUIREMENTS 59 credits Finlandia's biology majors develop the skills to study human and environmental biology. Students will pursue an interdisciplinary natural science curriculum, including cell biology, genetics, biodiversity, and ecology. Laboratory and field experiences emphasize science process skills related to critical reading and writing, designing and conducting experiments, and data analysis and interpretation. The biology degree prepares students for careers in health care, industry, or research in the natural sciences, as well as preparation for graduate training including medical fields, environmental law, forensic science, and ecology, among others.

Supporting	Science Courses	24 credits
CHM 115	General Chemistry I	4
CHM 116	General Chemistry II	4
CHM 215	Organic Chemistry I	4
CHM 216	Organic Chemistry II	4
PHS 105	College Physics I	4
PHS 106	College Physics II	4
	• ,	
Biology Cor	e Requirements	17 credits
Biology Cor BIO 100	e Requirements The Biology Major	17 credits 1
		17 credits 1 4
BIO 100	The Biology Major	17 credits 1 4 4
BIO 100 BIO 111	The Biology Major Biology: Essentials for Life	17 credits 1 4 4 4 4
BIO 100 BIO 111 BIO 300	The Biology Major Biology: Essentials for Life Ecology	17 credits 1 4 4 4 4 1

MINOR:

ADVISOR: _____

ANTICIPATED GRAD. DATE:

Biology Ele	14 credits	
Select 8 cred	dits of anatomy and physiology.	
BIO 171	Anatomy & Physiology I	4
BIO 172 OR	Anatomy & Physiology II	4
BIO 241	Comparative Vertebrate Anatomy	4
BIO 251	Animal Physiology	4
Select at lea	st 6 credits of biology electives.	
BIO 273	Microbiology	4
BIO 330	Cell Biology	3
BIO 350	Topics in Biology^	3
BIO 389	Internship in Biology	3
BIO 410	Biochemistry	3
BIO 445	Evolutionary Biology	3
BIO 482	Senior Seminar	1

^Possible topics courses include: Molecular Biology, Developmental Biology, Limnology, Animal Behavior, and Conservation Biology.

Senior Capstone Project		4 credits
BIO 495	Capstone Prep Course	1
BIO 499	Senior Capstone	3

MINOR AND/OR OPEN ELECTIVES 22 credits

See the Campus Catalog for available minors and their requirements.

TOTAL CREDITS: 120

Pre-Professional Preparation

Students pursuing the biology degree can also prepare for admission to graduate school in general medicine, dentistry, veterinary medicine, pharmacy, physical therapy, occupational therapy, chiropracy, and optometry, among others. Admission requirements vary widely among programs and schools, but most require a set of completed prerequisite courses, a high GPA, a competitive score on standardized tests (e.g., GRE, MCAT), and letters of recommendations. Students interested in pursuing a professional program will spend their first semester researching the educational requirements for their particular program of interest at various schools.

ADDITIONAL DEGREE REQUIREMENTS

- □ Count no more than 12 credits of WEL performance towards graduation.
- □ Complete at least 30 of the last 36 credits at Finlandia immediately prior to graduation.
- □ Complete at least 30 credits at the 300/400 level.
- □ Complete at least 18 credits for the major at Finlandia University.
- □ Attain a minimum cumulative GPA of 2.0.
- □ Attain a minimum grade of C- for each course in the major.
- □ Complete at least three WI courses from at least two disciplines.

BACHELOR OF SCIENCE – BIOLOGY 2021 – 2022 SUGGESTED COURSE SEQUENCE

FIRST SEMEST	ER	13 CREDITS	SECOND SEME	STER	15 CREDITS
UNS 115	Sisu Seminar	1	BIO 111	Biology: Essentials for Life	4
BIO 100	The Biology Major	1	ENG 104	College English II	3
BIO 113	Biology: Diversity of Life	4	CHM 116	General Chemistry II	4
CHM 115	General Chemistry I	4	MAT 191	Calculus I	4
ENG 103	College English I	3			
THIRD SEMES	ſER	14 CREDITS	FOURTH SEME	STER	17 CREDITS
BIO XXX	Anatomy and/or Physiology	4	BIO XXX	Anatomy and/or Physiology	4
PHS 105	College Physics I	4	PHS 106	College Physics II	4
REL/FNS	Religion or Finnish Studies	3	BIO XXX	Biology Elective	3
COM 108	Fundamentals of Public Speaking	g 3	Perspectives	Humanities or Social Science	3
		-	Perspectives	Humanities or Social Science	3
FIFTH SEMEST	ER	17 CREDITS	SIXTH SEMEST	ER	14 CREDITS
BIO 300	Ecology	4	BIO 453	Research Methods and Biostati	stics 3
CHM 215	Organic Chemistry I	4	CHM 216	Organic Chemistry II	4
Perspectives	Humanities or Social Science	3	BIO 382	Junior Seminar	1
Perspectives	Humanities or Social Science	3	Perspectives	Humanities or Social Science	3
Minor/Elective	Minor or Open Elective	3	Minor/Elective	Minor or Open Elective	3
SEVENTH SEM	ESTER	15 CREDITS	EIGHTH SEMES	TER	15 CREDITS
BIO 320	Genetics	4	BIO XXX	Biology Elective	3
Perspectives	Humanities or Social Science	3	Minor/Elective	Minor or Open Elective	3
Minor/Elective	Minor or Open Elective	3	Minor/Elective	Minor or Open Elective	3
Minor/Elective	Minor or Open Elective	3	Minor/Elective	Minor or Open Elective	3
BIO 495	Capstone Prep Course	1	BIO 499	Senior Capstone	3
Elective	Open Elective	1			

PROGRAM CHECKLIST

	COR						
COURSE	CREDITS	SEM./YR.	GRADE			BIOL	BIOLOGY ELECTIV
ENG 103	3				COURSE	COURSE CREDITS	COURSE CREDITS SEM./YR.
ENG 104	3						
COM 108	3						
MAT 191	4						
JNS 115	1				_		
REL/FNS	3						
3IO 113	4						
-lumanities	9			SENIOR C	Δ	APSTONE	APSTONE
				BIO 495		1	·
				BIO 499		3	3
							MINOR AND/OR OPEN EL
Social Science	es 9			COURSE		CREDITS	
						OREDITO	
		D BIOLOGY CO					
COURSE	<u>CREDITS</u>	SEM./YR.	<u>GRADE</u>				
CHM 115	4						
CHM 116	4						
CHM 215	4						
CHM 216	4						
PHS 105	4						
PHS 106	4						
BIO 100	1						
BIO 111	4						
BIO 300	4						

CHM 115	4	
CHM 116	4	
CHM 215	4	
CHM 216	4	
PHS 105	4	
PHS 106	4	
BIO 100	1	
BIO 111	4	
BIO 300	4	
BIO 320	4	
BIO 382	1	
BIO 453	3	

Updated:	03/03/2021