# FINLANDIA

# UNIVERSITY

# Suomi College of Arts & Sciences Academic Progress Sheet 2020 – 2021

### DEGREE: BACHELOR OF SCIENCE - Biology

MINOR:

NAME:

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

CORE CURRICULUM REC	39 credits	
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, DRM, ENG (but not ENG 101), FNS, HIS, HUM, MUS, PHL, REL, or foreign language.
- ++Includes courses in ANT, COM, ECN, ENV, GEO, GSS, 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
<b>Biology Co</b>	re Requirements	17 credits
Biology Con BIO 100	re Requirements The Biology Major	<b>17 credits</b> 1
		<b>17 credits</b> 1 4
BIO 100	The Biology Major	<b>17 credits</b> 1 4 4
BIO 100 BIO 111	The Biology Major Biology: Essentials for Life	1 4
BIO 100 BIO 111 BIO 300	The Biology Major Biology: Essentials for Life Ecology	1 4 4

ADVISOR: \_\_\_\_

ANTICIPATED GRAD. DATE:

ectives	14 credits
dits of anatomy and physiology.	
Anatomy & Physiology I	4
Anatomy & Physiology II	4
Comparative Vertebrate Anatomy	4
Animal Physiology	4
ast 6 credits of biology electives.	
Microbiology	4
Cell Biology	3
Topics in Biology^	3
Internship in Biology	3
Biochemistry	3
Evolutionary Biology	3
Senior Seminar	1
	dits of anatomy and physiology. Anatomy & Physiology I Anatomy & Physiology II Comparative Vertebrate Anatomy Animal Physiology ast 6 credits of biology electives. Microbiology Cell Biology Topics in Biology^A Internship in Biology Biochemistry Evolutionary Biology

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

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

#### MINOR AND/OR OPEN ELECTIVES

See the Campus Catalog for available minors and their requirements.

### **TOTAL CREDITS: 120**

22 credits

### **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 MUS, DRM, and WEL 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 ARTS - BIOLOGY 2020 - 2021 SUGGESTED COURSE SEQUENCE

FIRST SEMESTERUNS 115Sisu SeminarBIO 100The Biology MajorBIO 113Biology: Diversity of LifeCHM 115General Chemistry IENG 103College English I	13 CREDITS 1 1 4 4 3	SECOND SEMES BIO 111 ENG 104 CHM 116 MAT 191	STER Biology: Essentials for Life College English II General Chemistry II Calculus I	15 CREDITS 4 3 4 4
THIRD SEMESTER	14 CREDITS	FOURTH SEMES		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 SEMESTER	17 CREDITS	SIXTH SEMESTE	R	14 CREDITS
BIO 300 Ecology	4	BIO 453	Research Methods and Biostatis	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 SEMESTER	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** Т

	COR		Μ		BIOL	OGY ELECTIV	ES
OURSE	<b>CREDITS</b>	SEM./YR.	GRADE	COURSE	<b>CREDITS</b>	SEM./YR.	GRAD
NG 103	3						
IG 104	3						
OM 108	3						
IAT 191	4						
INS 115	1						
REL/FNS	3						
3IO 113	4			SENIOR CA	PSTONE		
Humanities	9			BIO 495	1		
	•			BIO 499	3		
				COURSE	-		
Social Science	s 9			COURSE	<u>CREDITS</u>	SEM./YR.	GRAD
  SUPPO	DRTING AN		DRE COURSES		 		
	DRTING AN	D BIOLOGY CC	DRE COURSES				 
COURSE							
COURSE CHM 115	CREDITS						
COURSE CHM 115 CHM 116	CREDITS 4						
SUPPC COURSE CHM 115 CHM 116 CHM 215 CHM 216	CREDITS 4 4						

PHS 106

BIO 100 BIO 111

BIO 300

BIO 320

BIO 382

BIO 453

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