

FINLANDIA
UNIVERSITY

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

DEGREE: BACHELOR OF ARTS – Biology

MINOR: _____

NAME: _____

ADVISOR: _____

STUDENT NUMBER: _____

ANTICIPATED GRAD. DATE: _____

CORE CURRICULUM REQUIREMENTS 39 credits

Proficiencies:

ENG 103*	College English I	3
ENG 104*	College English II	3
COM 108	Fundamentals of Public Speaking	3
MAT 145 or higher	College Algebra or higher	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 51 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 16 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
OR		
PHS 105	College Physics I	4

Biology Core Requirements 17 credits

BIO 100	The Biology Major	1
BIO 111	Biology: Essentials for Life	4
BIO 300	Ecology	4
BIO 320	Genetics	4
BIO 382	Junior Seminar	1
BIO 453	Research Methods and Biostatistics	3

Biology Electives 14 credits

Select 8 credits of anatomy and physiology.

BIO 171	Anatomy & Physiology I	4
BIO 172	Anatomy & Physiology II	4
OR		
BIO 241	Comparative Vertebrate Anatomy	4
BIO 251	Animal Physiology	4

Select at least 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 30 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, chiropractic, 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

<p>FIRST SEMESTER 13 CREDITS</p> <p>UNS 115 Sisu Seminar 1 BIO 100 The Biology Major 1 BIO 113 Biology: Diversity of Life 4 ENG 103 College English I 3 CHM 115 General Chemistry I 4</p> <p>THIRD SEMESTER 14-15 CREDITS</p> <p>BIO XXX Anatomy and/or Physiology 4 REL/FNS Religion or Finnish Studies 3 COM 108 Fundamentals of Public Speaking 3 PHS 105/Elective College Physics I/Elective 3-4 Minor/Elective Minor or Open Elective 1</p> <p>FIFTH SEMESTER 15 CREDITS</p> <p>BIO 300 Ecology 4 CHM 215 Organic Chemistry I 4 BIO 382 Junior Seminar 1 Perspectives Humanities or Social Science 3 Minor/Elective Minor or Open Elective 3</p> <p>SEVENTH SEMESTER 17 CREDITS</p> <p>BIO 320 Genetics 4 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 BIO 495 Capstone Prep Course 1</p>	<p>SECOND SEMESTER 15 CREDITS</p> <p>BIO 111 Biology: Essentials for Life 4 ENG 104 College English II 3 CHM 116 General Chemistry II 4 Math MAT 145 or higher 4</p> <p>FOURTH SEMESTER 16 CREDITS</p> <p>BIO XXX Anatomy and/or Physiology 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</p> <p>SIXTH SEMESTER 15-16 CREDITS</p> <p>BIO 453 Research Methods and Biostatistics 3 CHM 216/Elective Organic Chemistry II/Elective 3-4 Perspectives Humanities or Social Science 3 Perspectives Humanities or Social Science 3 Minor/Elective Minor or Open Elective 3</p> <p>EIGHTH SEMESTER 15 CREDITS</p> <p>BIO XXX Biology Elective 3 Minor/Elective Minor or Open Elective 3 Minor/Elective Minor or Open Elective 3 Minor/Elective Minor or Open Elective 3 BIO 499 Senior Capstone 3</p>
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PROGRAM CHECKLIST

CORE CURRICULUM				BIOLOGY ELECTIVES			
COURSE	CREDITS	SEM./YR.	GRADE	COURSE	CREDITS	SEM./YR.	GRADE
ENG 103	3	_____	_____	_____	_____	_____	_____
ENG 104	3	_____	_____	_____	_____	_____	_____
COM 108	3	_____	_____	_____	_____	_____	_____
MAT _____	4	_____	_____	_____	_____	_____	_____
UNS 115	1	_____	_____	_____	_____	_____	_____
REL/FNS	3	_____	_____	_____	_____	_____	_____
BIO 113	4	_____	_____	_____	_____	_____	_____
Humanities	9	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
Social Sciences	9	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
SUPPORTING AND BIOLOGY CORE COURSES				MINOR AND/OR OPEN ELECTIVES			
COURSE	CREDITS	SEM./YR.	GRADE	COURSE	CREDITS	SEM./YR.	GRADE
CHM 115	4	_____	_____	_____	_____	_____	_____
CHM 116	4	_____	_____	_____	_____	_____	_____
CHM 215	4	_____	_____	_____	_____	_____	_____
CHM 216/PHS 105	4	_____	_____	_____	_____	_____	_____
BIO 100	1	_____	_____	_____	_____	_____	_____
BIO 111	4	_____	_____	_____	_____	_____	_____
BIO 300	4	_____	_____	_____	_____	_____	_____
BIO 320	4	_____	_____	_____	_____	_____	_____
BIO 382	1	_____	_____	_____	_____	_____	_____
BIO 453	3	_____	_____	_____	_____	_____	_____