APPROVED
COMMISSION ON UNDERGRADUATE STUDIES AND POLICIES

College of Science
Department of Biological Sciences
For Students Graduating in Calendar Year 2021
Bachelor of Science in Biological Sciences
Major: Biological Sciences
Option: Ecology, Evolution, and Behavior Option (EEB)

Curriculum for Liberal Education Requirements (38 credits)

I. Writing and Discourse (6 credits)

ENGL	1105	First-Year Writing	(3)	_____	ENGL	1106	First-Year Writing	(3) _____

II. Ideas, Cultural Traditions and Values (6 credits)

_____ (3) _____ _____ (3) _____

III. Society and Human Behavior (6 credits)

_____ (3) _____ _____ (3) _____

IV. Scientific Reasoning and Discovery (8 Credits): Completed within Biological Sciences Major Required Courses

BIOL	1105	Principles of Biology[1*]	(3)	_____	BIOL	1106	Principles of Biology[1*]	(3) _____
BIOL	1115	Principles of Biology Lab[1*]	(1)	_____	BIOL	1116	Principles of Biology Lab[1*]	(1) _____

V. Quantitative and Symbolic Reasoning (6 credits): Completed within Biological Sciences Major Required Courses

MATH	1025	Elementary Calculus*	(3)	_____	MATH	1026	Elementary Calculus*	(3) _____

VI. Creativity and Aesthetic Experience (3 credits)

_____ (3) _____

VII. Critical Issues in a Global Context (3 Credits)

_____ (3) _____

Degree Core Requirements (21 credits)

BIOL	2004	Genetics#	(3)	_____	BIOL	2134	Cell Function Differentiation#*	(3) _____
BIOL	2704	Evolutionary Biology#	(3)	_____	BIOL	2804	Ecology#	(3) _____
CHEM	1035	General Chemistry[1*]	(3)	_____	CHEM	1036	General Chemistry[1*]	(3) _____
STAT	3615	Biological Statistics#	(3)	_____				

Biological Sciences Major Requirements (19 credits)

1. Complete the following courses:

BIOL	1004	Biology Orientation Seminar[2]	(1)	_____				
CHEM	1045	General Chemistry Lab*	(1)	_____	CHEM	1046	General Chemistry Lab*	(1) _____
CHEM	2535	Organic Chemistry#*	(3)	_____	CHEM	2536	Organic Chemistry#*	(3) _____
CHEM	2545	Organic Chemistry Lab#*	(1)	_____	CHEM	2546	Organic Chemistry Lab#*	(1) _____
PHYS	2205	General Physics#*	(3)	_____	PHYS	2206	General Physics#*	(3) _____
PHYS	2215	General Physics Lab#*	(1)	_____	PHYS	2216	General Physics Lab#*	(1) _____

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EEB Option Electives (at least 21 credits)[3]

1. Complete one of BIOL 2304, BIOL 2504, or BIOL 2604

BIOL	2304	Plant Biology#	(3)	_____	BIOL	2604	General Microbiology#	(3)	_____
BIOL	2504	General Zoology#	(3)	_____					

2. Students must complete at least 9 credits of the following organismal biology, behavior, and physiology courses:

BIOL	1034	Biology of Sex	(3)	_____	BIOL	4474	Ethology#	(3)	_____
BIOL	3014	Insect Biology#	(2)	_____	BIOL	4554	Neurochemical Regulation#	(3)	_____
BIOL	3204	Plant Taxonomy#	(3)	_____	BIOL	4574	Social Behav Birds & Mammals#	(3)	_____
BIOL	3404	Introductory Animal Physiology#	(3)	_____	BIOL	4994	Undergraduate Research (A-F)[4]	(3)	_____
BIOL	3454	Introductory Parasitology#	(4)	_____	FIW	4334	Mammalogy#	(4)	_____
BIOL	4354	Aquatic Entomology#	(4)	_____	FIW	4344	Herpetology#	(4)	_____
BIOL	4404	Ornithology#	(4)	_____	FIW	4424	Ichthyology#^	(4)	_____
BIOL	4454	Invertebrate Zoology#	(4)	_____					

3. Students must complete at least 9 credits of the following ecology and evolution courses:

BIOL	2204	Plants and Civilization#	(3)	_____	BIOL	4334	Chemical Ecology#	(3)	_____
BIOL	3254	Med and Vet Entomology#	(3)	_____	BIOL	4564	Infectious Disease Ecology#	(3)	_____
BIOL	4004	Freshwater Ecology#	(4)	_____	BIOL	4594	EEB Senior Seminar#	(3)	_____
BIOL	4114	Global Change Ecology#	(3)	_____	BIOL	4484	Freshwater Biomonitoring#	(4)	_____
BIOL	4134	Evolutionary Genetics#	(3)	_____	BIOL	4824	Bioinformatics Methods#	(3)	_____
BIOL	4164	Environmental Microbiology#	(3)	_____	BIOL	4994	Undergraduate Research (A-F)[4]	(3)	_____
BIOL	4314	Plant Ecology#	(4)	_____	CSES	3114	Soils#	(3)	_____
					FIW	4614	Fish Ecology#	(3)	_____
					FIW	4624	Marine Ecology#	(3)	_____

4. Students must complete at least three laboratory courses from the following list (1-12 credits)[3]:

BIOL	2614	General Microbiology Laboratory#	(2)	_____	BIOL	4354	Aquatic Entomology#	(4)	_____
BIOL	3024	Insect Biology Laboratory#	(2)	_____	BIOL	4454	Invertebrate Zoology#	(4)	_____
BIOL	3114	Field and Laboratory Ecology#	(1)	_____	BIOL	4484	Freshwater Biomonitoring#	(4)	_____
BIOL	3204	Plant Taxonomy#	(3)	_____	BIOL	4824	Bioinformatics Methods#	(3)	_____
BIOL	3264	Med and Vet Ent Lab#	(1)	_____	CSES	3124	Soils Laboratory#	(1)	_____
BIOL	3454	Introductory Parasitology#	(4)	_____	FIW	4334	Mammalogy#	(4)	_____
BIOL	4004	Freshwater Ecology#	(4)	_____	FIW	4344	Herpetology#	(4)	_____
BIOL	4314	Plant Ecology#	(4)	_____	FIW	4424	Ichthyology#^	(4)	_____
BIOL	4404	Ornithology#	(4)	_____					

Degree Core Requirements	**21 Credits**
Biological Science Major Requirements	**19 Credits**
EEB Option Electives	**21-30 Credits**
Total Curriculum for Liberal Education Requirements:	**38 Credits**
Total Free Electives	**9-21 Credits**
Total Credits Required for Graduation	**120 Credits**

[1] Students must earn a grade of "C" or better in BIOL 1105, 1106, 1115, 1116, CHEM 1035, CHEM 1036, or the equivalent. Only two attempts, including course withdrawals with grade of "W", are allowed for each course.

[2] BIOL 1004 is required but will not be used to calculate in-major GPA.

[3] Courses used to complete the laboratory requirement may also count as EEB Option electives (sections 1-2).

[4] A 3-credit BIOL 4994 experience taken for grade of A-F may count EITHER toward EEB elective group 1 OR 2.

^Course has major restriction: students may ask FiW to be added if seats are available.

All BIOL courses (except 1004), any course taken to fulfill EEB Option elective credit, and all required CHEM, MATH, PHYS and STAT courses will be used to calculate in-major GPA.

Some courses listed on this checksheet may have prerequisites, please consult the University Course Catalog, or check with your advisor.

Students must have an in-major and overall GPA of 2.0 to graduate.

***Acceptable Substitutions**

BIOL 1105: BIOL 1005 General Biology
BIOL 1106: BIOL 1006 General Biology
BIOL 1115: BIOL 1015 General Biology Lab OR BIOL 1125 Biological Principles Lab
BIOL 1116: BIOL 1016 General Biology Lab OR BIOL 1126 Biological Principles Lab
BIOL 1105, 1115: BIOL 1205H Honors Biology (4)
BIOL 1106, 1116: BIOL 1206H Honors Biology (4)
BIOL 2134: BIOL 2104 Cell & Molecular Biology
BIOL 2604: BIOL 2604H Honors General Microbiology
BIOL 2704: BIOL 2704H Honors Evolutionary Biology
BIOL 2804: BIOL 2804H Honors Ecology
BIOL 4474: PSYC 2074 Animal Behavior
CHEM 1035-1036: CHEM 1055 -1056 General Chemistry for Majors
CHEM 1045-1046: CHEM 1065-1066 General Chemistry Lab for Majors
CHEM 2535-2536: CHEM 2565-2566 Principles of Organic Chemistry
CHEM 2545-2546: CHEM 2555-2556 Organic Synthesis and Techniques Lab
PHYS 2205, 2215: PHYS 2305 Foundations of Physics I
PHYS 2206, 2216: PHYS 2306 Foundations of Physics I
MATH 1025: MATH 1016 Elem Calculus w/ Trig OR MATH 1205 Calculus OR MATH 1225 Calculus of a Single Variable OR MATH 1525 Elem Calculus w/Matrices
MATH 1026: MATH 2015 Elem Calculus w/ Trig OR MATH 1206 Calculus OR MATH 1226 Calculus of a Single Variable OR MATH 1526 Elem Calculus w/Matrices

Cross-listed Courses on this Checksheet

ALS/BIOL 4554: Neurochemical Regulation
BIO/HORT 2304: Plant Biology
CSES/ENT/BIOL 4164: Environmental Microbiology
CSES/ENSC/GEOS 3114: Soils
CSES 3124 / ENSC 3124 / GEOS 3624: Soils Laboratory
ENT/BIOL 3014: Insect Biology
ENT/BIOL 3024: Insect Biology Laboratory
ENT/BIOL 3254: Med and Vet Entomology
ENT/BIOL 3264: Med and Vet Ent Lab
ENT/BIOL 4354: Aquatic Entomology
ENT/FIW/BIOL 4484: Freshwater Biomonitoring

Satisfactory Progress Toward Degree

1. Students must earn a grade of "C" or better in BIOL 1105, 1106, 1115, 1116, CHEM 1035, CHEM 1036 or equivalent examination, courses taken P/F, and courses completed with a grade of "W"). Only two attempts are allowed for each course.

2. Students must achieve an overall GPA of 2.0 and in-major GPA of 2.2 upon attempting 45 credit hours (including transfer credit, advance placement or IB credit, advance standing credit, credit by examination, courses taken P/F, and courses completed with a grade of "W").

3. All BIOL courses except 1004, any course taken to fulfill Biological Sciences elective credit, and all required CHEM, MATH, PHYS, and STAT courses will be used to calculate in-major GPA.

4. These courses must be completed by the time the student has attempted 72 hours.
   BIOL 1105, 1106, 1115, 1116 or Equivalent
   CHEM 1035, 1036, 1045, 1046 or Equivalent
   MATH 1025, 1026 or Equivalent

College of Science Foreign Language Requirement:

Students who did not successfully complete at least two years of a single foreign, classical, or sign language during high school must successfully complete six semester hours of a single foreign, classical, or sign language at the college level. Courses taken to meet this requirement do not count toward the hours required for graduation. Please consult the Undergraduate Catalog for details.