

NAME: _____

ID#: _____

IN EFFECT FALL 2021

**ORGANISMAL BIOLOGY
Integrative Biology Formal Option (IBIO)**

FRESHMAN YEAR

ENGL 1100 English Comp I	3	ENGL 1120 English Comp II	3
CORE HISTORY	3	CHEM 1040 Fund Chemistry II	3
CHEM 1030 Fund Chemistry I.....	3	CHEM 1041 Fund Chem Lab.....	1
CHEM 1031 Fund Chem Lab.....	1	MATH 1610 Calculus 1	4
BIOL 1020 Principles of Biology	3	BIOL 1030 Organismal Biol	3
BIOL 1021 Principles of Biology Lab	1	BIOL 1031 Organismal Biol Lab	1
BIOL 2100 Professional Development I.....	1		
	15		15

SOPHOMORE YEAR

CHEM 2070 Organic Chem I.....	3	CHEM 2080 Organic Chem II.....	3
CHEM 2071 Organic Chem I Lab.....	1	CHEM 2081 Organic Chem II Lab.....	1
CORE LITERATURE	3	CORE HISTORY OR LIT ¹	3
CORE SOCIAL SCIENCE.....	3	BIOL 3000 Genetics.....	3
BIOL 3060 Ecology.....	4	BIOL 3001 Genetics Lab.....	1
	14	BIOL 3030 Evolution & Systematics	3
			14

JUNIOR YEAR

PHYS 1500 Physics I	4	PHYS 1510 Physics II	4
BCHE 5180 Biochemistry I.....	3	BCHE 5190 Biochemistry II	3
BCHE 5181 Biochemistry I Lab.....	1	BCHE 5191 Biochemistry II Lab	1
CORE SOCIAL SCIENCE.....	3	CORE SOCIAL SCIENCE OR HUM ²	3
BIOL 3100, 3200/01, 4010, or 4020.....	4	CORE HUMANITIES.....	3
	15	BIOL 4100 Cell Biology	3
			17

SENIOR YEAR

CORE FINE ARTS.....	3	BIOL 4950 Undergrad Seminar.....	1
Eco/Evo/Diversity Electives	6	Cell/Mol/Microbiology Electives.....	7
Cell/Mol/Microbiology Elective.....	4	Anatomy & Physiology Elective.....	4
Biology Elective.....	3	Biology Elective.....	4
BIOL 4AA0 Professional Development II.....	0	*UNIV 4AA0 SM1.....	0
	16		16

TOTAL HOURS 122

Long range schedules for COSAM courses are online at www.auburn.edu/cosam/students/

Courses in **BOLD** will be used to calculate GPA in major.

Options for courses labeled CORE are in the Auburn University Bulletin (www.auburn.edu/bulletin) under Core Curriculum.

¹ Students must complete a two-course sequence in either HIST or LIT (for example, World History 1 and 2 or American Lit 1 and 2). For complete HIST and LIT sequence options, see the Bulletin.

² If a LIT sequence is chosen, this course must be a CORE SOCIAL SCIENCE. If a HIST sequence is chosen, this course must be a CORE HUMANITIES.

*Taken semester of graduation

Ecology, Evolution, Biodiversity Electives

BIOL	3010	Comp. Anat. 4 hrs. FA SP
BIOL	3040	Marine Systems 3 hrs. SP
BIOL	3100	Plant Biology 4 hrs. FA
BIOL	3200	Microbiology 3 hrs. FA SP
BIOL	3201	Microbiology Lab 1 hr FA SP
BIOL	4010	Invert Biodiversity 4 hrs. FA
BIOL	4020	Vertebrate Biodiversity 4 hrs. FA
BIOL	5090	Conservation Biology 3 hrs. FA
BIOL	5110	Parasitology 4 hrs. FA
BIOL	5120	Systematic Botany 4 hrs. SP
BIOL	5140	Plant Ecology 4 hrs. FA
BIOL	5250	Microbial Evolution 4 hrs. FA
BIOL	5380	General Ichthyology 4 hrs. SP
BIOL	5650	Animal Behavior 3 hrs. FA
BIOL	5740	Herpetology 4 hrs. SP
BIOL	5750	Ornithology 4 hrs. SP
BIOL	5760	Mammalogy 4 hrs. FA
ENTM	4020	Econ Entomology 4 hrs. FA
ENTM	5300	Syst Entomology 4 hrs. FA
ENTM	5370	Urban Entomology 4 hrs. FA
WILD	5280	Avian Ecology Mgt. 2 hrs. FA
WILD	5290	Mammal Ecology Mgt 2 hrs. SP
FISH	5220	Water Science 3 hrs. FA
FISH	5320	Limnology 4 hrs. SP
MATH	2660	Linear Algebra 3 hrs. FA SP
NATR	5250	Wetland Eco and Mgt. 3 hrs. SP
FOWS	5220	Landscape Ecology 3 hrs. SP
NATR	4240	Watershed Mgt. 3 hrs. SP
FOR Y	5470	GIS App Nat.Resource 3 hrs. FA SP

Cellular/Molecular/Microbiology Electives

BIOL	3020	Genomic Biology 4 hrs. SP
BIOL	3200	General Micro. 3 hrs. FA SP
BIOL	3201	General Micro. Lab 1 hrs. FA SP
BIOL	4000	Histology 3 hrs. FA SP
BIOL	4001	Histology Lab 1 hrs. FA SP
BIOL	4101	Cell Biology Lab 2 hrs. FA SP

BIOL	4410	Vertebrate Dev't 5 hrs.
BIOL	5050	Intro. To Biophysics 2 hrs. SP
BIOL	5200	Clinical Micro. 5 hrs. FA
BIOL	5210	Microbial Phys. 3 hrs. SP
BIOL	5220	Molecular Genetics 3 hrs. FA SP
BIOL	5230	Virology 3 hrs. FA SP
BIOL	5260	Prokaryotic Mol Gen. 3 hrs. FA
BIOL	5330	Dev. Genetics 3 hrs. SP
BIOL	5370	Molecular Eco. 3 hrs.
BIOL	5500	Immunology 3 hrs. FA SP
BIOL	5501	Immunology Lab 2 hrs. SP
BIOL	5550	Nanomedicine 2 hrs. SP
BIOL	5521	Gene Express & DNA 2 hrs. FA
CSES	5060	Soil Microbiology 3 hrs. SP
PLPA	3000	Plant Pathology 4 hrs. FA SP

Anatomy & Physiology Electives

BIOL	3010	Comp Anatomy 4 hrs. FA SP
BIOL	4000	Histology 3 hrs. FA SP
BIOL	4001	Histology Lab 1 hrs. FA SP
BIOL	4410	Vertebrate Dev't 5 hrs. FA
BIOL	5210	Microbial Physiology 3 hrs. SP
BIOL	5240	Animal Physiology 4 hrs. FA
BIOL	5600	Biomedical Phys. 5 hrs. FA SP
ANSC	3600	Reprod. Physiology 4 hrs. FA SP

Biology Electives (In addition to courses listed above that starts with BIOL)

BIOL	2500	Anat. & Phys. I 3 hrs. FA SP
BIOL	2501	Anat. & Phys. I Lab 1 hr. FA SP
BIOL	2510	Anat. & Phys. II 3 hrs. FA SP
BIOL	2511	Anat. & Phys. II Lab 1 hr. FA SP
BIOL	4920	Biology Internship 6 hrs. max FA SP
BIOL	4970	Special Topics FA SP variable hours
BIOL	4980	Undergrad Research 6 hrs. max FA SP
BIOL	5800	Computational Bio 3 hrs. FA

