

**CURRICULUM IN BIOLOGICAL SCIENCES
 ECOLOGY, ENVIRONMENTAL, and EVOLUTIONARY BIOLOGY CONCENTRATION**

YEAR: 2022 / 2023

YEAR ENTERED SLU: _____

NAME: _____

W# _____

MAJOR HOURS (41) C or Better²

Core Requirements (21 hrs)

GBIO 151 _____ 3 _____
 BIOL 152 _____ 1 _____
 GBIO 153 _____ 3 _____
 BIOL 154 _____ 1 _____
 MIC 205 _____ 3 _____
 MICL 207 _____ 1 _____
²GBIO 200 _____ 3 _____
²GBIO 312 _____ 3 _____
 GBIO 241 _____ 1 _____
 GBIO 341 _____ 1 _____
 GBIO 441** _____ 1 _____

MATHEMATICS (9)

^{1,2}MATH 161 _____ 3 _____
 MATH 162 _____ 3 _____
 MATH 163 _____ 3 _____

or **¹MATH 175 and 200 (10)**

MATH 175 _____ 5 _____
 MATH 200 _____ 5 _____

SOCIAL SCIENCES (6)

(Anth, Econ, Geog, Psyc, Poli, Soc, CJ)

_____ 3 _____
 _____ 3 _____

PHYSICS (8)

PHYS 191 _____ 3 _____
 PLAB 193 _____ 1 _____
 PHYS 192 _____ 3 _____
 PLAB 194 _____ 1 _____

Upper-level Courses (20 hrs) page 2

ENGLISH (12)

ENGL 101
 or 121H _____ 3 _____
 ENGL 102
 or 122H _____ 3 _____
 ENGL 230 or 231 or 232
 _____ 3 _____
 ENGL 322 _____ 3 _____

CHEMISTRY (16)

²CHEM 121 _____ 3 _____
 CLAB 123 _____ 1 _____
 CHEM 122 _____ 3 _____
 CLAB 124 _____ 1 _____
³CHEM 261 _____ 3 _____
³CLAB 263 _____ 1 _____
³CHEM 281 _____ 3 _____
³CLAB 283 _____ 1 _____

FOR. LANGUAGES (6)

_____ 101 _____ 3 _____
 _____ 102 _____ 3 _____

OTHER (12)

ART ELECTIVE (Mus, Art, Dnc, Thea)

_____ _____ 3 _____
 LS 102 _____ 1 _____
 COMM211 _____ 3 _____
 HIST _____ 3 _____
 SE 101 _____ 2 _____

ELECTIVES (10)

SE 101 is not required of transfer or readmitted students with 30 hrs or more. These students are required to take two additional hrs of electives (i.e., 12 hrs instead of 10 hrs).

TOTAL HOURS 120

NOTES: ¹Students with Math ACT <21 take MATH 151 in place of MATH 161. Students who are eligible may take MATH 175 and 200 (10 credit hours) in place of MATH 161, 162, and 163 (9 credit hours). Students who take MATH 175 and 200 are required to take one less hour of electives (i.e., 9 hrs instead of 10 hrs).

²Grade of "C" or better in CHEM 121, MATH 151 or 161, and all Biology courses is required. Also, CHEM 121 and MATH 151 or 161 are prerequisites for GBIO 200, and GBIO 200 is a prerequisite for GBIO 312.

³Students planning on attending medical, dental, or other professional or graduate schools, and students pursuing a minor in Chemistry, should take CHEM 265/267 and CHEM 266/268 in place of CHEM 261/263 and CHEM 281/283. Also, CHEM 265/267 can NOT be used as prerequisites for CHEM 281/283. Also, GBIO 434 or MIC 461 may be taken in place of CHEM 281/283.

**GBIO 441 fulfills requirement for computer literacy

ADDITIONAL COURSES:

AVERAGES

	HA	HE	QP	Average
CUM:	_____	_____	_____	_____
(Adj)	_____	_____	_____	_____
MAJOR	_____	_____	_____	_____
(Adj)	_____	_____	_____	_____
SLU:	_____	_____	_____	_____
(Adj)	_____	_____	_____	_____

ECOLOGY, ENVIRONMENTAL, and EVOLUTIONARY BIOLOGY CONCENTRATION

I. Core Courses (page 1): 21 CREDIT HOURS (Grade of "C" or better required in all courses)

II. Upper-level courses for the Ecology, Environmental, Evolutionary Biology Concentration:

20 CREDIT HOURS from the following courses with approval of advisor (Grade of "C" or better required in all courses)

Group A: Fundamental Courses – total 13 hrs – the following four courses are required

- GBIO 377 Biostatistics 4 hrs
- GBIO 395 General Ecology 3 hrs
- GBIO 397 General Ecology Laboratory 2 hrs
- GBIO 405 Evolutionary Biology 4 hrs

Group B: Electives – minimum 7 hrs from these electives. Only one 200 level course may be selected.

- BOT 205 Introduction to Botany 4 hrs
 - BOT 347 Vascular Plant Systematics 4 hrs
 - BOT 426 Plant Physiology 4 hrs
 - BOT 427 Plant Stress Ecophysiology 4 hrs
 - BOT 429 Native Plants of Louisiana 4 hrs
 - BOT 458 General Mycology 3 hrs
 - BOT 481 Plant Ecology 4 hrs
 - BOT 482 Plant Anatomy 4 hrs
 - GBIO 281 Environmental Awareness 3 hrs
 - GBIO 404 Ecological Methods 3 hrs
 - GBIO 406 Wetlands Ecology 4 hrs
 - GBIO 408 Computational Biology 4 hrs
 - GBIO 410 Introduction to Population Genetics 4 hrs
 - GBIO 418 Community Ecology 4 hrs
 - GBIO 434 Molecular Biology and Biotechnology 4 hrs
 - GBIO 439 Freshwater & Estuary Biology 4 hrs
 - GBIO 442 Marine Biology 4 hrs
 - GBIO 481 Biogeography 3 hrs
 - GBIO 485 Conservation Biology 4 hrs
 - ZOO 301 Invertebrate Zoology 4 hrs
 - ZOO 302 Comparative Anatomy of the Vertebrates 4 hrs
 - ZOO 352 Field Zoology 4 hrs
 - ZOO 392 Animal Physiology 4 hrs
 - ZOO 409 General Entomology 4 hrs
 - ZOO 438 Mammology 4 hrs
 - ZOO 456 Ichthyology 4 hrs
 - ZOO 457 Invertebrate Ecology 4 hrs
 - ZOO 458 Fisheries Ecology & Mgmt 4 hrs
 - ZOO 465 Animal Development 4 hrs
 - ZOO 470 Ornithology 4 hrs
 - ZOO 475 Animal Behavior 4 hrs
 - MIC 313 Microbial Ecology 3 hrs
 - MIC 423 Environmental Microbiology 4 hrs
 - MIC 438 Soil Microbiology 4 hrs
- (NOTE: * these electives require PRIOR approval of student's advisor and Department Head.)
- *GBIO 409 Internship – Variable credits, 1 to 3 hours (Max 3 hours total)
 - *GBIO 450 Research Problems – Variable credits, 1 to 4 hours (Max 4 hours total)
 - *GBIO 493 Special Topics in Biology – Variable credits, 2 to 4 hours

Maximum four credit hours from these courses may be applied to concentration elective requirements.

- CMPS 450 Spatial Database & Applications 3 hrs
- GEOG 495 Introduction to GIS 3 hrs
- POLI 446 Politics & the Environment 3 hrs
- SOC 360 Environmental Sociology 3 hrs