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

YEAR: 2021 / 2022 YEAR ENTERED SLU:_____

NAME:_____ W#_____

MAJOR HOURS (41) C or Better[2]
Core Requirements (21 hrs)
GBIO 151 ___3___
BIOL 152___1___
GBIO 153 ___3___
BIOL 154 ___1___
MIC 205 ___3___
MICL 207 ___1___
[2]GBIO 200___3___
[2]GBIO 312 ___3___
GBIO 241 ___ 1___
GBIO 341___1___
GBIO 441**___1___

Upper-level Courses (20 hrs) page 2
_____ ___ ___
_____ ___ ___
_____ ___ ___
_____ ___ ___
_____ ___ ___

CHEMISTRY (16)
[2]CHEM 121 _____3___
CLAB 123 _____1___
CHEM 122 _____3___
CLAB 124 _____1___
[3]CHEM 261 _____3___
[3]CLAB 263 _____1___
[3]CHEM 281 _____3 ___
[3]CLAB 283 _____1___

MATHEMATICS (9)
[1,2]MATH 161 ___3___
MATH 162___3___
MATH 163___3___

or **[1]MATH 175 and 200 (10)**
MATH 175___5___
MATH 200___5___

ENGLISH (12)
ENGL 101
or 121H ___3___
ENGL 102
or 122H ___3___
ENGL 230 or 231 or 232
___3___
ENGL 322 ___3___

FOR. LANGUAGES (6)
_____101 ___3___
_____102 ___3___

ELECTIVES (10)
_____
_____
_____
_____

SOCIAL SCIENCES (6)
(Anth, Econ,Geog, Psyc, Poli, Soc)
_____3_____
_____3_____

PHYSICS (8)
PHYS 191___3___
PLAB 193___1___
PHYS 192___3___
PLAB 194 ___1___

OTHER (12)
ART ELECTIVE (Mus,Art,Dnc,Thea)
_____ ___3___
LS 102 ___1___
COMM211 ___3___
HIST___ ___3___
SE 101 ___2___
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 electvies (i.e., 12 hrs instead of 10 hrs).

TOTAL HOURS 120

NOTES: [1]Students 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).
[2]Grade 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.
[3]Students 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.
**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 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