

Biology, B.A.

ECOLOGY, EVOLUTION & BIODIVERSITY CONCENTRATION -

College of Arts & Sciences

General Education Curriculum (GEC) Requirements

"At - a - Glance"

(Full GEC requirements can be found on pages 48-49)

The GEC contains 24 Learning Objectives organized under five General Education Learning Outcomes (GLOs). To complete the GEC, select at least one course for each objective. Many courses will meet more than one objective, but a minimum of 40 distinct hours in the GEC is required.

1. Effective Written & Oral Communication

- a. Eng 100, 101, 121
- b. Eng 121
- c. Fys 100, 150
- d. Eng 100, 101, 121

2. Critical & Creative Thinking

- a. Eco 100, Phi 151, 152, Psy 100
- b. Eco 100, Phi 151, 152, Pos 101, Psy 100, Soc 100
- c. Eng 121
- d. Art 103, 108, 120, 121, Eng 211
- e. Art/Eng 116, Art 107, Eng 151
- f. Eng 121

3. Quantitative & Scientific Reasoning

- a. Mat 101, 117, 121, 131, 140, 201 or higher, Phy 153,154 ...
- b. Mat 101, 117, 121, 131, 140, 201 or higher, Phy 153,154 ...
- c. Bio 103, 104, 105, 112, 260, 261, 262, 300
- d. Env 110, 120, 125, 201, 301, 302, 308, Chy 111, 112, 122, 221, 222, Gey 112, 114, Phy 153, 154
- e. Bio 105, 112, 113, 260, 261, 262, Chy 111, 112, 122, 221, 222, Env 308, Gey 112, 114, Phy 153, 154

4. Information Literacy

- a. Fys 100, 150
- b. Eng 121
- c. Phi 151, 152, Swk 202

5. Global Consciousness & Intercultural Awareness

- a. Ant 100, 110, Geo 100, Soc 100, Swk 305, Wab 110, Wst 101
- b. Ant 100, 110, Geo 100, 101, Hty 115, 116, 161, 162, Soc 100, 303
- c. Asl 101, Chi 101, 102, Fre 101, 102, 201, 202, Spa 101, 102, Rus 101, Wab 100, 105
- d. Phi 151, 152, Pos 211, Swk 202
- e. Hpr 101, Pos 101, 211, 231
- f. Hty 3XX, 4XX, Pos 301, Hty/Pos 371, 377

BIOLOGY & ENVIRONMENTAL SCIENCE REQUIREMENTS -

33-37 CREDIT HOURS

Bio 112 General Biology I *	4
Bio 113 General Biology II *	4
Bio 200 Research Methods in Biology	3
Bio 261 Human Anatomy & Physiology I* <i>AND</i>	
Bio 262 Human Anatomy & Physiology II	8
<i>OR</i> Bio 306 Comparative Biology	4
Bio 315 Evolution	3
Bio 350 Genetics	4
Bio 410 Advanced Topics in Ecology	3
Ecy 355 General Ecology	4
Env 308 GIS I: Fundamentals of GIS	4

BIODIVERSITY - Complete TWO of the following for 8 credit hours:

Bio 309 Plant Biology	4
Bio 310 Ornithology	4
Bio 316 General Microbiology	4
Bio 360 Vertebrate Biology	4
Bio 445 Invertebrate Biology	4
Gey 322 Paleontology	4

ENVIRONMENTAL INFLUENCES - Complete ONE of the following for 3-4 credit hours:

Env 200 Principles of Sustainable Agriculture	3
Env 210 Soil Science	4
Env 301 Climate Change	3
Env 302 Biodiversity & Climate Change	3
Gey 114 Historical Geology - History of Life	3

Complete ONE of the following for 3-4 credit hours:

Bio 303 Cell Biology	3
Bio 316 General Microbiology	4
Bio 327 Biochemistry	4

BIOLOGY ELECTIVE - Complete TWO of the following for 6-8 credit hours:

Bio XXX - any Bio course higher than Bio 113 (General Biology II)	3/4
Psy 360 Animal Behavior	3

REQUIRED MATH COURSES - 7 CREDIT HOURS

Mat 131 Calculus I	4
Mat 201 Probability & Statistics*	3

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- a. Eng 100, 101 _____
- b. Eng 121 _____
- c. Fys 100, 150 _____
- d. Eng 100, 101 _____

2. Critical & Creative Thinking

- a. Eco 100, Phi 151, 152, Psy 100 _____
- b. Eco 100, Phi 151, 152, Pos 101, Psy 100, Soc 100 _____
- c. Eng 121 _____
- d. Art 103, 120, 121, Eng 211 _____
- e. Art 107, Art/Eng 116, Eng 151 _____
- f. Eng 121 _____

3. Quantitative & Scientific Reasoning

- a. Mat 101, 117, 121, 131, 140, 201 or higher, Phy 153,154 ... _____
- b. Mat 101, 117, 121, 131, 140, 201 or higher, Phy 153,154 ... _____
- c. Bio 103, 104, 105, 112, 260, 261, 262, 300, Hpr 101 _____
- d. Chy 111, 112,122, 221, 222, Env 110, 120, 125, 201, 301, 302, 308, Gey 112, 114, Phy 153, 154 _____
- e. Bio 105, 112, 113, 260, 261, 262, Chy 111, 112, 122, 221, 222, Env 308, Gey 112, 114, Phy 153, 154 _____

4. Information Literacy

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5. Global Consciousness & Intercultural Awareness

- a. Ant 100, 110, Geo 100, Soc 100, Swk 305, Wab 110, Wst 101 _____
- b. Hty 115, 116, 161, 162 _____
- c. Asl 101, Chi 101, 102, Fre 101, 102, 201, 202, Rus 101, Spa 101, 102, Wab 100, 105 _____
- d. Phi 151, 152, Pos 211, Swk 202 _____
- e. Pos 101, 211, 231 _____

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REQUIRED CHEMISTRY COURSES - 16 CREDIT HOURS

Chy 111 General Chemistry I*	4
Chy 122 General Chemistry II*	4
Chy 221 Organic Chemistry I*	4
Chy 222 Organic Chemistry II	4

CAPSTONE - Complete ONE of the following for 3-4 credits:

Bio 400 Biology Senior Project	3
Bio 495 Biology Internship	3
Bio 499 Biology Senior Thesis	3
Env 408 GIS II: Applications & Advanced Spatial Analysis	3

*Course also meets GEC requirement

SELECT GENERAL ELECTIVES TO BRING TOTAL EARNED HOURS TO 120:

Total credits required for degree: 120

Minimum cumulative GPA for graduation: 2.00

Cumulative GPA for major requirements: 2.25