

# Biology, B.A.

## PRE-MEDICAL 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 .....
- 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, 108, 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

- 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. 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 .....

### BIOLOGY REQUIREMENTS - 35 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*	4
Bio 262 Human Anatomy & Physiology II*	4
Bio 316 General Microbiology	4
Bio 327 Biochemistry	4
Bio 350 Genetics	4
Ecy 335 General Ecology	4

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

Bio 300 Human Nutrition*	3
Bio 303 Cell Biology	3
Bio 306 Comparative Physiology	4
Bio 336 Neurobiology	4
Bio 360 Vertebrate Biology	4

#### Complete TWO other Bio courses at 200-level or higher for 6-8 credits:

Bio XXX	3/4
Bio XXX	3/4

### REQUIRED MATH COURSES - 7 CREDIT HOURS

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

### 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

### REQUIRED PHYSICS COURSES - 8 CREDIT HOURS

Phy 153 General Physics I*	4
Phy 154 General Physics II*	4

#### CAPSTONE - Complete ONE of the following for 3 credit hours:

Bio 400 Biology Senior Project	3
Bio 495 Biology Internship	3
Bio 499 Biology Senior Thesis	3

\*Course also meets GEC requirement

Students planning to take the MCAT for medical school should enroll in Soc 100 Introduction to Sociology, Psy 100 Introduction to Psychology, and Psy/Soc 200 Social Psychology (Psy 100 and Soc100 fulfill General Learning Outcomes)

#### 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**