PROGRAM NAME: BIOLOGY ORGANISMAL TRACK

PROGRAM COLLEGE: ARTS AND SCIENCES

CATALOG TERM: 2019-20

Program description:

The two tracks within the biology major serve a student population that is diverse in its academic and career objectives by providing the opportunity to focus on cell and molecular biology or organismal and ecological biology. We also seek to provide students interested in other areas the opportunity to supplement their existing knowledge base with an understanding of human and environmental biology.

NOTE: Individual Programs of Study will vary in consultation with your Advisor and course/section availability each term. The below schedule serves only as an <u>example</u> four year degree plan.

YEAR 1

Fall Semester

Course Name	Credits	Minimum Grade Required	Experience Notes
Core: Written Communication	3		 Join an RU Academy
Core: Mathematics MT1170 Mathematics in the Modern World, MT1190 Pre-Calculus, or MT1800 Calculus I	3-4		 Participate in the Finucane Service Project Attend the New Student Retreat
BL1250/1251: General Biology I and Lab Scientific Causal Mode Lv 1	4	С	
CH2610/2610: General Chemistry I and Lab	4	С	
NS1000: Freshmen in Science Seminar	1		
TOTAL HOURS	15-16		

Spring Semester

Course Name	Credits	Minimum Grade Required	Notes
Core: Scientific-Relational Mode Lv I	3		 Consider joining Tri-Beta, the
Core: Written Communication	3		Biology Honors Society
If EN1140 is taken, this requirement is			
met.			
BL1300/1301: General Biology II and Lab	4	С	
CH2630/2640: General Chemistry II and	4	С	
Lab			
Elective Course	3		
TOTAL HOURS	17		

YEAR 2

Fall Semester

Course Name	Credits	Minimum Grade Required	Notes
Core: Artistic Mode	3		 Sophomores typically take
Core: Historical Mode Lv 1	3		CH2710/20 Organic Chemistry I
BL2000: Introduction to Research	3	С	and Lab along with PH2700/10
Biology Elective Course:	4	С	Physics for the Life Sciences I
BL3100/01: Microbiology and Lab			and Lab.
OR			 Consider undergraduate
BL3030/3031: Human Anatomy and			research with a Biology faculty
Physiology I and Lab			member.
Elective Course	3		
TOTAL HOURS	16		

Spring Semester

Course Name	Credits	Minimum Grade Required	Notes
Core: Literary Mode Lv I	3		Sophomores typically take CH2730/40 Organic Chemistry II and Lab along with PH2700/60 Physics for the Life Sciences II
Core: Philosophy Mode Lv I	3		
BL3610/11: Genetics and Lab	4	С	
Core: Historical Mode or Literary Mode	3		
Lv II			and Lab.
Biology Elective Course:	4	С	
Microbiology and Lab			
OR			
BL3040/41: Human Anatomy and			
Physiology II and Lab			
TOTAL HOURS	17		

YEAR 3

Fall Semester

Course Name	Credits	Minimum Grade Required	Notes
Core: Theological Mode Lv II	3		 Juniors typically take CH 3310
Core: Oral Communication	3		Biochemistry I
BL4200 Parasitology	3	С	
Core: Global Perspectives			
BL3350/51: Plant Biology—even years	3	С	
OR			
BL3640/41: Environmental Biology—odd			
years			
Elective Courses	6		
TOTAL HOURS	18		

Spring Semester

Course Name	Credits	Minimum Grade Required	Notes
Core: Scientific-Relational Mode Lv II	3		
Theological Mode Lv II	3		
BL3200/01 Invertebrate Zoology and	4	С	
Lab—even year spring			
OR			
BL3400/01 Comparative Vertebrate			
Anatomy—odd year spring			

Elective Courses	6	
TOTAL HOURS	16	

YEAR 4

Fall Semester

Course Name	Credits	Minimum Grade Required	Notes
BL3700/01 General Physiology and Lab	4	С	
BL4800: Evolution	3	С	
Core: Scientific-Causal or Relational			
Mode Lv II			
Core: Philosophical Mode Lv II	3		
Elective Courses	6		
TOTAL HOURS	16		

Spring Semester

Course Name	Credits	Minimum Grade Required	Notes
Core: Philosophical Mode or Theological	3		
Mode Lv II			
BL4940: Biology Capstone	1	С	
Biology Systems Course:	3	CC	
BL3230 Animal Behavior			
OR			
BL3900 Field Biology			
Molecular Biology Course:	4		
BL3650/51 Molecular Biology			
OR			
BL3620/21 Cell Biology			
Elective Course	3		
TOTAL HOURS	14		

Credit Hours

• Core Curriculum: (52-56)

• Major: (47—does not include majors courses that are included in the core curriculum)

• Electives (27)

TOTAL Credit Hours: 126-130