

BACHELOR OF SCIENCE DEGREE IN BIOLOGY

ADVISING FORM

CORE-COMPONENT ONE: Foundations of Understanding (0-24 Cr.)

Goal 1: Students will demonstrate the ability to write logically, clearly, precisely and persuasively through accurate reading and observation, and to acquire, organize, present and document information and ideas.

I. Written Communication (0-6)

ENG 101_____ and ENG 102_____ or exemption_____.

Goal 2: Students will demonstrate the ability to write logically, clearly, precisely and persuasively through accurate reading and observation, and to acquire, organize, present and document information and ideas.

II. Oral Communication (0-3)

COM 101_____ or 103_____ or THE 136_____ or exemption_____.

Goal 3: Students will demonstrate competency in a language other than English and an appreciation of the culture of its native speakers.

III. Foreign Language (0-6)

_____101 and _____102 or exemption_____.

Goal 4: Students will demonstrate proficiency in mathematics and an understanding of quantitative reasoning.

IV. Quantitative reasoning (0-6) (two of the following, one must be MAT)

MAT 104_____ 107_____ 112_____ 131_____ 143_____ 151_____ 201_____

ECN 241_____ PSY/SOC 211_____ or exemption

Goal 5: Students will demonstrate skill in using digital technology, such as computers and the Internet, to gather, analyze and present information

V. Computer Use (Note evidence of basic skill.)

Exemption BIO 231/232____ CSC117____ CSC118____ Major-Related_____

CORE-COMPONENT TWO Understanding from Multiple Perspectives (25 Cr.)

I. Humanities (9) - Select one course from each of the following categories.

Goal 6: Students will demonstrate an understanding of literary and fine, visual, or performing arts and their cultural context by expressing an informed response to artistic creations.

____1. Literature: ENG 135, 195, 245, 246; LIT 205, 206, *(ENG235H)

____2. Fine Arts: FIA 115, 245, 246; MUS 115, 245, 246; THE 115

Goal 7: Students will demonstrate the ability to develop a critical perspective, to analyze and evaluate arguments, and to use arguments to arrive at rationally justified belief.

____3. Phil./Sem. Sys: ENG 103; PHI 101, 103, 104, 107, 108, 205, 206.

II. Natural Sciences & Mathematics (10): This part of core will be satisfied with completion of required biology and major related courses.

Goal 8: Students will demonstrate an understanding of the scientific method of inquiry and/or standard experimental techniques and knowledge of the natural sciences.

III. Social Sciences (9) - Select one course from each of the following categories.

(Each student must select at least one "D" course, i.e., a course dealing with cultural diversity.)

Goal 9: Students will demonstrate an understanding of history and heritage; the individual, culture, and society; and social institutions and processes.

Goal 10: Students will develop an awareness of and an appreciation for the importance of interacting effectively with people of diverse backgrounds. (This goal will be met in part through the requirement that students enroll in at least one course designated as a diversity course.)

____1. History and Heritage: HIS 125, 135(D), 145(D), 165(D); ANT 251(D)

____2. Social Institutions and Processes: ECN 141; IST 101(D); GOV 101;

____3. The Individual, Culture, Society: ANT 101(D); PSY 101; SOC 151(D).

CORE-COMPONENT THREE - WRITING PORTFOLIO(6)

I. Integrated Writing - Two writing intensive courses. (Identify).

#1 _____ (taken after completion of 27 credit hours)

#2 _____ (#2 not required for transfers with core complete)

Major Required Courses:		Number of Transfer Credits - _____		
Course	Credit	Grade / Trans. / Exempt	Notes	
A. BIO 211 General Biology I BIO 212 General Biology II	4 3		8 Credits	
BIO 231 Research Methods I BIO 232 Research Methods II	3 3		6 Credits	
B. Cellular/Molecular Biology			One course from each of three categories 11 – 12 Credits	
BIO 321 Genetics	4			
BIO 327 Cell Biology	4			
C. Population Biology				
BIO 323 Principles of Ecology	4			
BIO 329 Evolution	3			
D. Structure/Function				
BIO 322 Developmental Biology	4			
BIO 324 Animal Physiology	4			
E. Organismal Biology BIO 325 Botany			4 Credits	
AND... BIO 432 Principles of Microbiology BIO 433 Parasitology BIO 434 Mycology BIO 436 Biology of Vertebrates BIO 437 Biology of Invertebrates	4 4 4 4 4		One course of these five 4 Credits	
F. Upper Level Biology Electives			Any 300 or 400 level courses (Including those not taken in Category D above) 11 - 12 Credits	
BIO				
BIO				
BIO				
BIO				
G. Senior Experience BIO 450 Senior Research in Biology OR BIO 495 Senior Seminar BIO 470 Practicum in Biology	3 3 3		3 Credits	
BIOLOGY TOTAL	47-49			
Major Related Courses:				
Chemistry CHE 211 General Chemistry I CHE 212 General Chemistry II	4 4		16 Credits	
Physics PHY 151 General Physics I PHY 152 General Physics II	4 4			
OR PHY 261 Physics I PHY 262 Physics II	4 4			
Mathematics MAT 112, PSY/SOC 211 Basic Statistics OR MAT 201 Calculus I	3 3			One course 3 Credits
MAJOR RELATED TOTAL	19			
TOTAL REQUIRED	66-68			