GENERAL EDUCATION PROGRAM

No single transfer course can meet more than one General Education requirement.

Core Courses
(Developmental math courses may be waived on basis of test scores.)
MAT 010 Pre-Algebra
MAT 011 Elementary Algebra
MAT 012 Elementary Algebra II

GSTR 110 Writing Seminar I: Critical Thinking in the Liberal Arts (Transfer students may waive if College Composition was taken as a degree-seeking student at another college and earned a grade of B or higher.)
GSTR 210 Writing Seminar II: Identity and Diversity in the U.S.
GSTR 310 Understandings of Christianity
GSTR 410 Seminar-Contemporary Global Issues

Scientific Knowledge and Inquiry
GSTR 332 Scientific Origins OR
Two (2) approved science courses, from two different disciplines, one of which must be an approved lab course.
The following courses have been approved to meet this requirement: ANR 110, BIO 100, 101, 110, CHM 113, 131, PHY 111, 127, 221

Wellness & Fitness
WELL 101 Principles of Wellness I
WELL 102 Principles of Wellness II
Two (2) ¼-credit HHP activity courses (HHP 200 will satisfy both the SWIM requirement and one of the activity course requirements)

Practical Reasoning (PR & PRQ)
Two (2) courses, at least one firmly grounded in math or statistics (PRQ); the other can be an approved practical reasoning (PR) course or another PRQ course.

Perspectives (Six areas required)
One (1) course in each of the six areas is required. Individual courses may be approved to satisfy more than one perspective, but no single course may satisfy more than two perspective areas.
1) Arts
2) Social Science
3) Western History
4) Religion
5) African American/Appalachian/Women
6) International (choose one option):
   A) Two (2) courses in the same non-English language, one of which may be waived through testing; OR
   B) Two (2) world culture courses, one of which must be grounded in a non-western culture

Active Learning Experience
An approved experience, taken for credit or non-credit (e.g. internships, undergraduate research experiences).

MAJOR REQUIREMENTS

A minimum GPA of 2.0 in the major is required for graduation. For admission to the Major, a minimum combined GPA of 2.37 must be earned BIO 110, 113, and 114; this is not a graduation requirement.

Core Courses (Five total credits)
BIO 110 Modern Biology
BIO 113 Experimental Zoology
BIO 114 Botany
BIO 330: Genetics

Field Course (One course from list)
BIO 310 Ecology
BIO 324 Parasitology
BIO 327 Herpetology
BIO 332 Mammalogy
BIO 342 Field Botany
BIO 344 Dendrology & Forest Ecology
SENS 226 Coral Reef Ecosystems
Approved special topics courses

Capstone Course
BIO 494 Evolution

Required Distribution Courses (Four total credits)
(At least two must be Biology courses. No more than two transfer courses may be used for this requirement.)

BIO 207 Pathophysiology Altered States
BIO 220 Comparative Vertebrate Anatomy
BIO 222 Microbiology
BIO 306 Histology & Histotechnique
BIO 310 Ecology
BIO 323 Principles of Physiology
BIO 324 Parasitology
BIO 325 Neurobiology
BIO 327 Herpetology
BIO 331 Developmental Biology
BIO 332 Mammalogy
BIO 342 Field Botany
BIO 344 Dendrology & Forest Ecology
BIO 441 Cellular & Molecular Biology
BIO Special Topics
ANR 310 Nutritional Studies
CHM 340 Biochemistry I OR
CHM 345 Intro to Biochemistry
CHM 440 Biochemistry II
CFS 221 Nutrition
ECO 250 Applied Statistics
PHY 340 Biophysics
PSY 212 Behavioral Neuroscience
SENS 226 Coral Reef Ecosystems

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Required Collateral Courses (Count outside the major)
(Students interested in the biomedical sciences, especially pre-med, pre-dental, and students pursuing the Molecular, Cellular, and Systems Biology Concentration, should take CHM 131. Students cannot receive earned credit for both CHM 131 and CHM 134.)

CHM 131 Accelerated General Chemistry OR
CHM 134 Accelerated Environmental Chemistry
CHM 221 Organic Chemistry I
CHM 222 Organic Chemistry II
MAT 115 College Algebra w/Modeling (or waiver)

Foreign Language
(Two courses in the same non-English language are required, one of which may be waived by a placement examination. This requirement will also satisfy the international perspective.)

Electives
20 credits outside the major

Learning Goal 1: Understand Fundamental Concepts in Biology
Learning Outcome 1.1: Be able to describe, apply and integrate the fundamental concepts of biology including cell biology, ecology, evolution, genetics, organismal diversity, and organismal structure and function.

Learning Goal 2: Understand the Scientific Method
Learning Outcome 2.1: Recognize and identify steps and articulate process in the scientific method.
Learning Outcome 2.2: Develop the ability to identify and develop research questions/hypotheses, develop appropriate experimental design, conduct independent research, collect and interpret experimental data, and communicate experimental results & conclusions in an oral, written, and/or poster format.

Learning Goal 3: Research Methods, Methodologies, and Experiences
Learning Outcome 3.1: Be able to search for, evaluate, interpret, and communicate scientific information, including primary research journal articles, review articles, and popular scientific literature.
Learning Outcome 3.2: Gain experience with the tools of the biologist, including scientific equipment, library resources, computer applications, Internet resources, etc.
Learning Outcome 3.3: Be able to apply quantitative

Learning Goal 4: Apply Knowledge & Skills
Learning Outcome 4.1: Demonstrate proficiency in written, oral and visual communication skills.
Learning Outcome 4.2: Develop appropriate career skills essential for biologists, including the abilities to: set goals and priorities; work independently and in a group or team; demonstrate courtesy and respect to colleagues; accept responsibility for one's actions.
Learning Outcome 4.3: The ability to listen actively to, review, and evaluate the work of others.
Learning Outcome 4.4: Demonstrate an understanding and appreciation of one's role as a scientifically-literate global citizen and professional.