



Biology Major

Total Credits: 4**3**-4**9**

REQUIRED COURSES (18 CREDITS)

BIOL 1011R, BIO 1011L , Principles of Biology 1 Lecture and Lab () _____	5 Credits
BIO 1012R, BIO 1012L , Principles of Biology 2 Lecture and Lab () _____	5 Credits
CHEM 1045R , General Chemistry 1 Lecture () _____	3 Credits
CHEM 1046R and 1047L , General Chemistry 2 Lecture and Lab () _____	5 Credits

REQUIRED BIO ELECTIVES (18-23 CREDITS)

Adv. Lab #1 () _____	4-5 Credits
Adv. Lab #2 () _____	4-5 Credits
Adv. Lab #3 () _____	4-5 Credits
Adv. Lab #4 () _____	4-5 Credits
Adv. Elective () _____	2-3 Credits

MATH REQUIREMENTS (7-8 CREDITS)

MAT 1410* , 4 Credits or MAT 1412 , 4 Credits () _____	4 Credits
MAT 1413 , 4 Credits or STA 1021 , 3 Credits () _____	3-4 Credits

* This new introductory Calculus course is designed for students majoring in biology, pre health sciences, or any other major **except mathematics/computer science/physics/engineering/chemistry**. It is a course for students who **will not need** calculus 2, but **will** take statistics. This course provides the fundamental concepts of the calculus in the context of applications to the health, life and social sciences, and beyond. The course prerequisite is pre-calculus-high school Algebra and Trigonometry.

* Courses within any given major or minor require a grade of a "C-" or better to fulfill its requirement

Notes:

1. All biology majors going on to graduate school or medical school should take Organic Chemistry (CHE 1213R, 1214R, 1215L), and Physics 1031-1032 R&L.
2. Independent study and summer research in biology do NOT satisfy any biology requirements.
3. Students planning to pursue advance study in the health sciences must be in contact with the YU pre-health advisor, Ms. Lolita Wood-Hill.