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Biology Major (See below for various Tracks)

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Required Courses for All Tracks

BIOL 1011C, 1012C	Biology Principles Lecture + Lab	8 Credits
CHEM 1045C, 1046C	General Chemistry Lecture + Lab	8 Credits

Plus two (2) courses chosen from the following:

COMP 1001C OR 1300C	Introduction to Computer Science	4 credits
MATH 1410 OR 1412	Calculus I	4 credits
MATH 1413	Calculus II	4 credits
STAT 1021	Introduction to Statistics	3 credits

All majors must take the Math Placement Exam.

Up to 2 credits in approved Independent Research/Summer Internship may apply toward the Biology major.

Recommended: One year of Organic Chemistry, one year of Physics, and a semester of Biochemistry or Medical Biochemistry.

Track 1 - General

This track requires **20-22 credits of Advanced Biology courses.**

BIOL 3207C	Cell Biology
BIOL 3513C	Genetics

Plus two (2) additional 4-credit lecture/lab courses **and** either an additional 4-credit lecture/lab course or two lecture-only courses. Chem 1376R - 1376L, Biochemistry Lec/Lab may count.

(over)

Track 2 – Molecular & Cellular

This track requires 24 credits of Advanced Biology courses including **four 4-credit Lec/Lab** courses with the following distribution:

- BIOL 3207C Cell Biology (4 credits) – Fall and Spring
- BIOL 3513C Genetics (4 credits) – Fall and Spring
- BIOL 3521 Molecular Biology (4 credits) – Spring
- The remaining 12 credits may be selected from the following:
 - BIOL 2601 Human Development (2 credits) - Spring
 - BIOL 3230 Immunology (4 credits) (Also offered as a 3 credit lecture-only course)
 - BIOL 3241 Pharmacology (2 credits) – Fall
 - BIOL 3730 Reproductive Biology (2 credits) – Fall
 - BIOL 3750 Medical Biochemistry (3 credits) – Spring
 - BIOL 4023 C Microbiology (4 credits) – Fall and Spring
 - CHEM 1376R-L Biochemistry (lecture only, 3 credits; laboratory, 2 credits) – Lec - Fall; Lab - Spring

Track 3 – Neuroscience

This track requires **15-16 credits of Biology courses plus 19 credits of Psychology courses**. 13 credits of Psychology may also apply toward the general requirements as indicated below. Students pursuing this track should meet with an academic advisor.

- BIOL 3830R Neurobiology (3 credits)
- 12-13 credits chosen from:
 - BIOL 3207C Cell Biology (4 credits)
 - BIOL 3241 Pharmacology (2 credits)
 - BIOL 3513C Genetics (4 credits)
 - BIOL 3728C Human Physiology (4 credits);
 - BIOL 3750 Medical Biochemistry **OR** BIOL1376R Biochemistry (3 credits)
- PSYC 1010 Introductory Psychology*
- PSYC 2100C Experimental Psychology**
- PSYC 2150 Cognitive Psychology**
- PSYC 3804 Psychobiology
- PSYC 3810 Behavioral Neuroendocrinology
- PSYC 3815 Cognitive Neuroscience**

* May apply towards the Foundations category of the General Education requirements.

** These courses may also apply toward the Electives category of the General Education requirements.

Biology Minor

Total Credits: 18-19

Required Courses

BIOL 1011C, 1012 C Biology Principles Lecture + Lab 8 credits

Plus ten (10) additional BIOL credits including two (2) Lecture/Lab courses of 4 credits each 10-11 Credits and one (1) Lecture-only course (2-3 credits); Courses cross-listed in the Department of Biology AND in the Department of Psychology cannot be counted towards the Biology Minor.

Note: “Journal Club” courses of 1 credit each do not count towards the Biology Major or Minor.
BIOL 3221, Nutrition, does not apply toward the Biology Major or Minor.