

Biological Sciences

Additional Courses and Related Areas Requirement

(for tracks in Biology, Conservation Biology, Entomology, Environmental Toxicology, Evolution & Ecology, Microbiology)

1. Purpose: Students in the Biological Sciences major must complete a total of 52 units of which at least 36 must be upper-division courses in the subject area of the track. The balance of the units are completed with additional units in upper-division biological sciences courses and/or substantive courses in a field or fields related to the track. The purpose of this related area is to add strength and breadth to the major and to meet specific requirements for postgraduate study or a chosen career.

2. Course Selection: Courses applied to the related area should be selected from courses specified in the track, and/or from the Approved List presented on the reverse side of this page (Note: students in the Plant Biology track must select courses specified in the track and not from the Approved List). **Advisor's approval is required for exceptions.**

3. Grade: Courses applied to the related area must be taken for a letter grade if letter grades are offered for the course being considered. However, some courses (e.g., Biology 194, 197, 199) are graded only on an S/NC basis. In these cases, a Satisfactory is acceptable, and these courses may be counted in the related area if they meet the requirements in item four below.

4. 190 to 199 Series Courses: No more than 9 units from 190-series courses may be applied to the related area (the Plant Biology track allows no more than 6 units). These units must be from a department or program in the College of Natural and Agricultural Sciences. **Advisor's approval is required for exceptions.** Advisor's approval must be recorded in your file before undertaking a 190-series course in a department or program outside CNAS.

5. Transfer Courses: Scientifically-oriented, upper-division courses from four-year colleges are acceptable in the related area if the advisor considers them substantive and related to the major. Courses completed at a community college are not acceptable.

Approved List of Courses for the Following Tracks:

Biology
Conservation Biology
Entomology
Environmental Toxicology
Evolution & Ecology
Microbiology

Lower-division Courses

Chemistry (CHEM): 5

Computer Science (CS): 10, 12, 14, 61

Mathematics (MATH): 9C* or 9HC, 10A*, 10B*, 42 or 46

Upper-division Courses

Anthropology (ANTH): 146, 150, 152, 155, 156, 162, 170

Psychology (PSYC): 120, 120L, 124, 125, 126, 127, 146, 160

Any upper-division course from the following departments and programs:

Biochemistry (BCH)

Biology (BIOL)

Botany & Plant Sciences (BPSC)

Cell Biology & Neuroscience (CBNS) [formerly NRSC]

Chemistry (CHEM)

Computer Science (CS)

Conservation Biology (BLCN)

Earth Sciences (GEO)

Entomology (ENTM)

Environmental Sciences (ENSC): except 143A, 143B, 143C, 174

Environmental Toxicology (ENTX)

Mathematics (MATH)

Microbiology (MCBL)

Nematology (NEM)

Physics (PHYS)

Plant Pathology (PLPA)

Soil and Water Sciences (SWSC)

Statistics (STAT)

* An equivalent transfer course with a minimum grade of "C" will satisfy four units of the related area requirement.