



BIOLOGY MAJOR (CATALOG MAJORS FALL 2017 AND LATER)

Lower Division Requirements (Life Science Core Curriculum):

Life Sciences 1, 2, 3, 4, 23L OR 7A, 7B, 7C, 23L (Note: LS 1-4 will be phased out after the 2017-18 academic year.)	
Chemistry & Biochemistry 14A, 14B, 14BL, 14C, and 14D OR Chemistry & Biochemistry 20A, 20B, 20L, 30AL, 30A, and 30B (NOTE: Students considering pharmacy school who take the 20/30 series should also take 30C; some pharmacy schools may require 30CL. Also, professional schools may also require 14CL/30BL.)	
Mathematics 3A, 3B, 3C OR Mathematics 31A, 31B, 32A OR Life Sciences 30A, 30B (Some pharmacy schools may require the 31/32 series.)	
Physics 6A, 6B, 6C OR 5A, 5B, 5C OR 1A, 1B, 1C, 4AL, 4BL (Note: Physics 6A will be phased out after Summer 2017; 6B & 6C will be phased out after the 2017-18 academic year.)	
Statistics 13	

Upper Division Requirements: (courses may be applied to ONE category only)

Any course listed, but not applied under Category 2, 3, or 4, may be applied to Category 5.

CATEGORY ONE: Chemistry & Biochemistry. Chemistry & Biochemistry 153A	
CATEGORY TWO: Foundation Courses. Choose TWO COURSES (totaling at least 8 units) from the following list: Ecology & Evolutionary Biology 100, 109, 116, 120 or 185, 121 (Students who have taken EEB 120 cannot take EEB 185.)	
CATEGORY THREE: Laboratory Courses. Choose TWO COURSES (totaling at least 8 units) from the following list: Ecology & Evolutionary Biology 100L*, 101, 103, 105, 109L*, 110, 111, 112, 113A, 114A, 115, 117, 128, 136, 162L* 170**, C174, 181 <i>Four (4) units from a Field Biology Quarter (FBQ) or Marine Biology Quarter (MBQ) may be applied, and the following courses or <u>listed combinations</u> can count as ONE (1) of the required two (2) courses: Physiological Science 166**; Molecular, Cell, & Developmental Biology C150/150AL, Microbiology, Immunology & Molecular Genetics 101+ Microbiology, Immunology & Molecular Genetics 100L (must take BOTH courses to count as ONE course in this Category.)</i> At least ONE course in this Category must be an EE BIOL laboratory course. <i>*EE BIOL 100L, 109L, and 162L are now 4-unit stand-alone lab courses. However, in order to apply these courses to Category 3, the corresponding lecture courses (EE BIOL 100, 109, and 162, respectively) must be taken either as a pre-requisite or as a co-requisite. EE BIOL 100 as a stand-alone course may count towards either Category 2, Category 4, or Category 5, but NOT in all three categories. EE BIOL 109 as a stand-alone course may count towards either Category 2, Category 4, or Category 5, but NOT in all three categories. EE BIOL 162 as a stand-alone course may count towards either Category 4 or Category 5 but NOT in both categories.</i> <i>**Students cannot take both EE BIOL 170 and Physci 166.</i>	
CATEGORY FOUR: UPPER DIVISION EE BIOL ELECTIVES. Choose TWO COURSES (totaling at least 8 units) from the following list: Ecology & Evolutionary Biology 100, 101, 103, 105, 107, 109, 110, 111, 112, 113A, 114A, 115, 116, 117, C119A, C119B, 120 or 185*, 121, 122, C126, M127 (same as Environment M127 and Geography M127), 128, 129, 130, M131 (same as Geography M117), 133, C135, 136, 137, M139 (same as Atmospheric and Oceanic Sciences M105), 142, M145 (same as Earth, Planetary, and Space Sciences M118), 151A, 152, 153, 154, 155, 160, 161, 162, 170, M171 (same as Anthropology M125A), C172, CM173 (same as Earth, Planetary, and Space Sciences M173), C174, 175, 176 (as of Fall 2017 counts as a full course), M178 (same as Bioengineering CM186 or Computational Systems Biology M186 or Computer Science CM186), C179, 180A (counts as one-half course), 180B, 185*, 186, 187, 198A and 198B (must take both courses), or 199 (maximum of 4 units of 199 can count on the major). Life Sciences 107 (only for students who have completed Life Sciences 7A, 7B, 7C; not available for credit for students who completed Life Sciences 4) Molecular, Cell & Developmental Biology 138, 165A. <i>Eight (8) units from a Field Biology Quarter (FBQ) or Marine Biology Quarter (MBQ) may be applied.</i> <i>*Students cannot take both EEB 120 and EEB 185.</i> ANY Ecology & Evolutionary Biology courses not applied under Category 2 or 3 may be applied in this category.	
CATEGORY FIVE: UPPER DIVISION SCIENCE ELECTIVES. Choose THREE COURSES (totaling at least 12 units) from the following list: Anthropology 120 and/or ONE of 124P (formerly numbered 124A), 124S (formerly numbered 124P), 128P (formerly numbered 128A) Atmospheric & Oceanic Sciences M105 (same as EE Biol M139), or one course from 102, 103, 104, 130 Biostatistics 100B (NOTE: <i>Biostatistics 100A is an enforced pre-requisite for 100B</i>) Chemistry & Biochemistry (any upper division course EXCEPT 188SA-199; Chem 153L recommended) Earth, Planetary, and Space Sciences 116 Ecology & Evolutionary Biology (any upper division course EXCEPT 189-196) Human Genetics C144 or one course from Biomedical Research 100HA or 100HB or 100HC (only one from this group is allowed) Life Sciences 107 (only for students who have completed Life Sciences 7A, 7B, 7C; not available for credit for students who completed Life Sciences 4) Mathematics (any upper division course EXCEPT 105A, 105B, 105C, 106, 188SA-199) Microbiology, Immunology & Molecular Genetics (any upper division course EXCEPT 188SA-199) Molecular, Cell & Developmental Biology (any upper division course EXCEPT 188SA-199D) Neuroscience M101A, M101B, M101C, 102, M130, M148 Physics (any upper division course EXCEPT 188SA-199) Physiological Science (any upper division course EXCEPT 188SA-199) Psychology 115 Any remaining units from the Field Biology Quarter or Marine Biology Quarter not applied in Category 3 or 4 may be applied and any course not applied under Category 2, 3, or 4 above may be included in this category.	



NOTE: A maximum of eight (8) units of the Ecology & Evolutionary Biology 198-series or four (4) units of Ecology & Evolutionary Biology 199 may be applied toward the major. Credit for 199 courses from other departments may not be applied. 199 courses with faculty sponsors OUTSIDE the Department of Ecology & Evolutionary Biology do NOT apply on the major unless approved by special petition AFTER the course is completed. Instructions for petitioning non-EE BIOL 199s are available in the Undergraduate Office.

Regarding classes offered by Molecular, Cell & Developmental Biology or Physiological Science (Department of Integrative Biology & Physiology): As of **FALL 2004 and thereafter**, enrollment in ALL upper division (UD) Physiological Science courses will be restricted to their majors during first pass. You must consult the IB&P department about enrollment in courses during second pass for UD elective Physiological Science courses. **Non-Physiological Science majors are restricted from enrolling in Physci 107, 111ABC, and 111L at ALL TIMES.**

Enrollment in Upper Division MCD BIO courses will be restricted to their majors during first pass and will be open to all students during second pass, space permitting. **Non-MCDB majors are restricted from enrolling in MCD BIO 104AL at ALL TIMES.**

MAJOR & DEGREE REQUIREMENTS:

- All **Life Science Core Curriculum** courses must be passed with a letter grade of **C- or better** and must be completed with an **overall GPA of 2.00 (C) or better**. Students receiving a grade below C- in two core curriculum courses, either in separate courses or repetitions of the same course, are subject to dismissal from the major.
- For the **upper division (UD) major requirements**, you must pass each course with a letter grade of D- or better. However, in order to graduate, you are required to maintain a global GPA (UD major requirements) of **2.00 or better**.
- Courses applied to the **upper division (UD) major requirements** may be applied to ONE category only. Courses listed in multiple categories MAY NOT be applied to multiple categories simultaneously.
- A maximum of four (4) units of graduate work may be applied on the major, BUT only if approved by the department.
- A maximum of four (4) units of EE BIOL 199 OR eight (8) units of EE BIOL 198A & 198B may be applied to the major. Credit for 199 courses from other departments may not be applied.
- Each course applied toward the UD major requirements must have a **minimum of four (4) units**. Courses with fewer than four units may be combined to equal one (1) course equivalent, IF they are applicable to the major (e.g., EE BIOL 180, EE BIOL 188). Thus, two (2) courses worth 2 units each (for a total of 4 units) could equal one course requirement on the major. A maximum of one (1) course on the major is allowed in cases where two 2-unit courses are combined to equal one course equivalent. A six-unit course counts as one course on the requirements for the major.
- All courses to be applied on the major must be taken for a letter grade. This includes all courses in the Life Science Core Curriculum and all UD major courses.
- The College requires a total of 60 upper division units for graduation. Thus, you may be required to take additional UD courses (either within or outside of the major) to meet this requirement.

Departmental Honors

An overall GPA of 3.400 and a global GPA of 3.400 in the major are required for graduation with honors in Biology. Highest honors in Biology are awarded to students whose global and overall GPA are 3.600 at graduation and who have satisfactorily completed EE BIOL 198A & 198B. Students do not need to apply for departmental honors. All students are reviewed for honors following the receipt of final transcripts.

**IT IS YOUR RESPONSIBILITY TO BE AWARE OF THE REQUIREMENTS LISTED ON YOUR DPR/DAR
AND TO VERIFY THAT IT IS UP TO DATE!**

ECOLOGY & EVOLUTIONARY BIOLOGY UNDERGRADUATE OFFICE

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