## BIOLOGY MAJOR (CATALOG MAJORS SPRING 2015 AND LATER)

### Life Science Core Curriculum:
- Life Sciences 1, 2, 3, 23L, and 4
- Chemistry 14A, 14B, 14BL, 14C, and 14D OR Chemistry & Biochemistry 20A, 20B, 20L, 30AL, 30A, and 30B (NOTE: Students considering medical or pharmacy school who take the 20/30 series should also take 30C; some pharmacy schools may require 30Cl. Some professional schools may still require Chemistry 14Cl/30BL.)
- Mathematics 3A, 3B, 3C OR Mathematics 31A, 31B, 32A (Some pharmacy schools may require the 31/32 series.) OR Life Sciences 30A, 30B
- Physics 6A, 6B, 6C OR 1ABC, 4AL, 4BL
- Statistics 13

### Upper Division Requirements: (courses may be applied to ONE category only; courses must be a minimum of FOUR units to count as a stand-alone course)

#### CATEGORY ONE: Biochemistry. Chemistry 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 also take EEB 185.)

#### CATEGORY THREE: Laboratory Courses. Choose TWO COURSES (totaling at least 8 units) from the following list:

Four (4) units from a Field Biology Quarter (FBQ) or Marine Biology Quarter (MBQ) may be applied, and the following courses or listed combinations can count as ONE (1) of the required two (2) courses: Physiological Science166**;

Microbiology, Immunology & Molecular Genetics 101+ Microbiology, Immunology & Molecular Genetics 100L (must take BOTH courses to count as ONE course in this Category.)

At least ONE course in this Category must be an EE BIOL laboratory course.

*As of Fall 2011, EE BIOL 100L is four (4) units and may count as a stand-alone lab course, but EE BIOL 100 must be taken either concurrently (co-requisite) or prior (pre-requisite) to EE BIOL 100L. EE BIOL 100 as a stand-alone course may count towards either Category 2 or Category 4 or Category 5, but NOT in all three categories.

**Students cannot take both EE BIOL 170 and Physiological Science 166.

#### 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, 125, C126, M127 (same as Environment/Geography M127), 128, 129, 130, M131 (same as Geography M117), 133, 135, 136, 137, M139 (same as A&O Sci M105), 142, M145 (same as EPSS M116), 146, 151A, 152, 153, 154, 155, 160, 162, 168, 170, M171 (same as Anthropology M125A), CM173 (same as EPSS CM173), C174, 175, 176 (counts as half a course), C177, C179, 180A (counts as half a course), 180B, 181, 186, 187, 199A and 199B (must take both courses), or 199 (maximum of 4 units of 199 can count on the major).

Molecular, Cell, & Developmental Biology 138, 165A.

Eight (8) units from a Field Biology Quarter (FBQ) or Marine Biology Quarter (MBQ) may be applied.

*Students cannot take both EEB 120 and EEB 185.

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 124A, 124P, 128A
- Atmospheric & Oceanic Sciences ONE of 102, 103, 104, M105 (same as EE Biol M139), 130
- Biomathematics 110 and/or Biostatistics 100B (Biostatistics 100A is an enforced requisite for Biostatistics 100B.)
- Chemistry (any upper division course EXCEPT 189-199; Chem 153L recommended)
- Earth, Planetary, and Space Sciences 116
- Ecology & Evolutionary Biology (any upper division course EXCEPT 189-196)

**NOTE:** Four (4) units from a Field Biology Quarter (FBQ) or Marine Biology Quarter (MBQ) may be applied to Category 5.

Geography 112 and/or ONE of 108 or 111

Human Genetics C144 or Life Sciences 100HA or 100HB or 100HC (only one from this group is allowed)

Mathematics (any upper division course EXCEPT 105A, 105B, 106, 189-199)

Microbiology, Immunology, & Molecular Genetics (any upper division course EXCEPT 189-199)

Molecular, Cell, & Developmental Biology (any upper division course EXCEPT 188-199D)

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

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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 Physi 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. If you receive a grade of D or F in two (2) core curriculum courses, either in separate courses or in repetitions of the same course, you 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 176, 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 Departmental 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 and/or grades.

IT IS YOUR RESPONSIBILITY AS A STUDENT TO BE AWARE OF THE REQUIREMENTS LISTED ON YOUR Degree Progress Report (DPR) or Degree Audit Report (DARS) AND TO VERIFY THAT IT IS UP TO DATE!

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