BIOLOGY MAJOR (Fall 2020 and after)

LOWER DIVISION MAJOR PREPARATORY REQUIREMENTS (Life Science Core Curriculum)

Life Sciences 7A, 7B, 7C, 23L OR 1, 2, 3, 4, 23L (if completed before 2017-18)	
Chemistry 14A, 14B, 14BL, 14C, 14D OR 20A, 20B, 20L, 30AL, 30A, 30B	
Life Sciences 30A, 30B, OR Mathematics 3A, 3B, 3C OR Mathematics 31A/31AL, 31B, 32A	
Life Sciences 40 OR Statistics 13 (Note: Should only take LS 40 if LS 30A/30B were completed.)	
Physics 5A, 5B, 5C OR 1A, 1B, 1C, 4AL, 4BL	

UPPER DIVISION (UD) MAJOR REQUIREMENTS – CORE PRINCIPLES

EVOLUTION &	Ecology & Evolutionary Biology 103, 108, 109, 109L, 110, 111, 112, 113A, 113AL, 114A, 115, 117, 118, 120
GENETICS	(or 185), 121, C126, 129, 130, C135, 136, 144, M145 (same as EPSS M118), 160, 171, C174, CM173, 175,
	181, 184
	Anthropology 120, 124P, 124Q, 124S, 128P
	Earth & Planetary Sciences 116
	Life Science 107
	Microbiology, Immunology, & Molecular Genetics CM156, 158
	Molecular, Cell, & Developmental Biology 138, CM156
	Society & Genetics M142
INFORMATION	Ecology & Evolutionary Biology 100, 100L, 116, 120 (or 185), 121, 122, 125, C126, 129, 132*, 134B, C135,
FLOW	136, 137, 153, 156, 162, 162L, 170, 171, C172, C174, 176, M178 (same as C&S BIOL M186), C179, 180A,
	180B, 183
	Anthropology 124P, 128P
	Chemistry C100, 153A, 166
	Life Science 107
	Microbiology, Immunology, & Molecular Genetics 100L, 101, 103AL, 103BL, 109AL, 109BL, 123, 132,
	CM156, 158, C185A
	Molecular, Cell, & Developmental Biology 100, 138, 143, 144, C150, 150AL, CM156, 165B, 168, M175A,
	M175B, M175C, 187AL
	Neuroscience M101A, M101B, M101C, 102
	Physiological Sciences M106, 111A, 111B, CM123, 124, C126, C127, 128, C130, 136, 138, M140, C144,
	M145, 146, 147, 149, C152, 154, 155, 165, 166, 167, 173, 174, 175, M176, 177, M180A, M180B, M180C
	*Offered only as part of the FBQ
STRUCTURE	Ecology & Evolutionary Biology 101, 102*, 103, 105, 106*, 107, 109, 109L, 110, 111, 112, 113A, 113AL,
FUNCTION	113B*, 114A, 114B*, 115, 117, 118, 121, 122, 123A*, 123B*, 124A*, 125, M127, M127L, <i>128</i> , 129, M131
	(same as GEOG M117), 136, 144, M145 (same as EPSS M118), 147, 148, 151A, 151B*, 152, 155, M157,
	160, 161, 162, 162L, 163*, 164*, 165*, 166*, 170 (or PHYSCI 166), 171, <i>C174, 181,</i> 184
	Chemistry C105, 153A, 153D, 153L
	Earth & Planetary Sciences 116
	Geography 108, 111, 112
	Microbiology, Immunology, & Molecular Genetics 100L, 101, 103AL, 103BL, 109AL, 132, CM156, 158,
	168, C185A
	Molecular, Cell, & Developmental Biology 100, 138, M140, C141, 143, 144, 146, C150, 165A, 165B, 168,
	M175A, M175B, M175C
	Neuroscience M101A, M101B, M101C, 102
	Physiological Sciences 107, 108, 111A, 111B, 120, 121, 122, CM123, 124, C126, C127, 128, C130, 136, 138,
	M140, C144, M145, 146, 147, 149, C152, 153, 154, 155, 165, 166***, 167, 173, 174, 175, M176, 177,
	M180A, M180B, M180C
	*Only offered as part of the FBQ/MBQ/FMBQ



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TRANSFORMATIONS	Ecology & Evolutionary Biology 103, 109, 109L, 123A*, 123B*, 124A*, M131 (same as GEOG M117),
OF ENERGY &	M139, M151A, 153, 161, 162, 162L, 170, 184
MATTER	Atmospheric & Oceanic Sciences 102, 103, 104, M105, 130, 145
	Chemistry 103, 110A, 110B, 114, C123A, C123B, 136, C143A, C143B, 144, C145, 153A, 153B, 153C, 153D,
	153L, 154, C159, C164
	Environmental Health Sciences 100
	Microbiology, Immunology, & Molecular Genetics 101
	*Courses offered only as part of FBQ, MBQ, or FMBQ
SYSTEMS	Ecology & Evolutionary Biology 101, 102, 105, 106*, 107, 108, 110, 111, 112, 113A, 113AL, 113B*, 114A,
	114B*, 115, 116, 117, C119A, C119B, 120 (or 185)-, 122, 123A*, 123B*, 124A*, 124B*, 125, C126, M127,
	M127L, 128, 129, M131 (same as GEOG M117), 132*, 133, 136, 137, M139, 142, 144, 147, 148, 151A,
	151B*, 152, 153, 154, 155, 156, 160, 161, 162, 162L, 163*, 164*, 165*, 166*, 170, C172, 176, C177, M178
	(same as C&S BIOL M186), C179, 180A (2 units), 180B, 182*, 183, 184
	Anthropology 124P, 128P
	Atmospheric & Oceanic Sciences 102, 103, 104, M105, 130, 145,
	Biostatistics 100B
	Chemistry 103, 153A, 153L
	Environmental Health Sciences 100
	Earth & Planetary Sciences 116
	Geography 108, 111, 112
	Life Science 107, M174
	Microbiology, Immunology, & Molecular Genetics 100L, 101, 103AL, 103BL, 105, 109AL, 109BL, 123, 132,
	C134, 158, 168, 180A, 180B, C185A
	Molecular, Cell, & Developmental Biology 100, 138, M140, C141, 143, 144, 146, C150, 150AL, CM156,
	160, 165A, 165B, 168, M175A, M175B, M175C, 187AL
	Neuroscience M101A, M101B, M101C, 102
	Physiological Sciences 100, M106, 107, 108, 111A, 111B, 120, 121, 122, CM123, 124, C126, C127, 128,
	C130, M135, 136, 138, M140, C144, M145, 146, 147, 149, C152, <i>153</i> , 154, 155, 165, <i>166</i> , 167, 173, 174,
	175, M176, 177, M180A, M180B, M180C
	Psychology 115, 133B
	Society & Genetics M142 *Courses offered only as part of EBO MBO or EMBO
	*Courses offered only as part of FBQ, MBQ, or FMBQ

RULES FOR NEW BIOLOGY MAJOR

- 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 three core curriculum courses, either in separate courses or repetitions of the same course, are ineligible to pursue the Biology 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.
- A maximum of four (4) units of graduate work may be applied on the major, BUT only if approved by the department.
- Two courses from each Core Principle are required.
 - Courses applied to the upper division (UD) major requirements may be applied to ONE Core Principle only. Courses listed in multiple categories MAY NOT be applied to multiple Core Principles simultaneously.
 - Minimum of 5 Upper Division courses for the major must be taken within the EE BIOL Department.
 - Minimum of 2 lab courses must be taken toward the degree, including a minimum of 1 Upper Division EE BIOL lab course.
 - In order to receive lab credit for EEB 100L, 109L, 113AL, or 162L, the corresponding lecture course (EEB 100, 109, 113A, and 162, respectively) must be completed, either as a pre-requisite or as a co-requisite. The lecture course may be applied to a separate Core Principle.

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- MIMG 101 + MIMG 100L in order to receive lab credit for MIMG 100L, MIMG 101 must also be completed, either as a pre-requisite or as a co-requisite. However, MIMG 100L cannot be applied as a separate Core Principle since it is only three (3) units.
- Credit deductions: students cannot take the following pairs of courses:
 - EE BIOL 120 & 185
 - o EE BIOL 170 & PHYSCI 166
 - MCD BIOL 100 & 165A
- FBQ/MBQ instructors determine which Core Principles their courses will help complete Upper Division requirements for the major (4 requirements total).
- 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. **NO EXCEPTIONS TO THIS POLICY.**
 - Each Primary Investigator (PI) will sign off on a form stating which Core Principle the student's research course should count for, after the student's work and quarter are completed. The research course must be for a minimum of 4 units.
- Regarding classes offered by Molecular, Cell & Developmental Biology and Physiological Science (Department of Integrative Biology & Physiology, IBP): enrollment in ALL upper division (UD) Physiological Science courses will be restricted to their majors during first pass. You must consult the IBP 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 and 111A/B at ALL TIMES.

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.