

BACHELOR OF SCIENCE IN BIOLOGY (IMPACTED)

Option in Physiology Major Requirements Worksheet

2012-2013 Catalog

Name: _____

Student ID: _____

Note: This checklist is not intended to replace advising from the major department. Students should consult with the major advisor to determine the appropriate sequence of courses. This checklist is to inform students of major requirements and course prerequisites only. CSULB Enrollment Services prepares the Academic Requirements Report, which is the official graduation verification. **Pre-Biology** majors must complete their GE Foundation courses, and the highlighted areas below all with a "C" or better and a cumulative GPA of 2.5, by 60 units to be considered for the major.

Grade	Course #	Course Title	Semester	Prerequisites (<i>ALL</i> Biology Department courses require a "C" or better in every pre-requisite course)
	BIOL 211	Introduction to Evolution and Diversity (4)		CHEM 111A (can also be a corequisite)
	BIOL 212	Introduction to Cell and Molecular Biology (4)		BIOL 211 <i>and</i> CHEM 111A*
	BIOL 213	Introduction to Ecology and Physiology (4)		BIOL 211, 212 <i>and</i> CHEM 111B*
	BIOL 260	Biostatistics (3)		BIOL 211 or BIOL 207 or MICR 200*; MATH 111* or 113* or 119A* or 122*
	CHEM 111A	General Chemistry (5)**		A passing score on the CPT; MATH 113* or 117* or 119A* or 122*
	CHEM 111B	General Chemistry (5)		CHEM 111A*

Take ONE course from EACH block:

	MATH 119A MATH 122	Survey of Calculus I (3) OR Calculus I (4)		MDPT placement** or MATH 113* MDPT placement** or MATH 111* and 113*, or MATH 117*
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Choose ONE

	MATH 119B MATH 123	Survey of Calculus II (3) OR Calculus II (4)		MATH 119A or 122 MATH 122*
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Choose ONE

	PHYS 100A PHYS 151	General Physics (4) OR Mechanics and Heat (4)		MATH 109 or 113 or 117 or 119A or 120 or 122 MATH 122 (can also be a pre/corequisite)
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Choose ONE

	PHYS 100B PHYS 152	General Physics (4) OR Electricity and Magnetism (4)		PHYS 100A PHYS 151; pre/corequisite MATH 123
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Upper Division (for upper division advising, see your major faculty advisor) **Take ALL of the following courses:**

	CHEM 322A	Organic Chemistry (3) (lab required same semester**)		CHEM 111B*
	CHEM 323A	Organic Chemistry Laboratory (1)**		CHEM 111B*
	CHEM 322B	Organic Chemistry (3) (lab required same semester**)		CHEM 322A* <i>and</i> CHEM 323A*
	CHEM 323B	Organic Chemistry Laboratory (1)**		CHEM 322A* <i>and</i> CHEM 323A*
	CHEM 441A	Biological Chemistry (3)**		CHEM 320B* or both CHEM 322B* <i>and</i> 323B*
	CHEM 441B	Biological Chemistry (3)		CHEM 441A*
	BIOL 340	Molecular Cell Biology (3)		BIOL 211, 212; CHEM 320A* or 322A* or 327*
	BIOL 350 BIOL 312	General Ecology (3)** OR Evolutionary Biology		BIOL 211, 212, 213, 260; MATH 119A* or 122* BIOL 211, 212, 213, 260
	BIOL 370	General Genetics (4)		BIOL 211, 212 <i>and</i> either BIOL 260 or CHEM 251*
	BIOL 480	Seminars (1)		Must be taken the same semester the student plans to graduate and with the consent of undergraduate advisor

Take FOUR units from the following PAIRS:

	BIOL 342 BIOL 342L	Human/Mammalian Physiology (3) AND Lab in Human/Mammalian Physiology (1)		BIOL 211, 212, 213. Recommended: PHYS 100A, B BIOL 342 (can be a pre/corequisite)
	BIOL 345 BIOL 345L	Comparative Animal Physiology (3) AND Lab in Comparative Animal Physiology (1)		BIOL 211, 212, 213 BIOL 345 (can also be a corequisite)

Take twelve additional units from the following: BIOL 342, 345, 431, 433, 442, 443, 444, 445, 447, 448, 449; MICR 423, 430. Students contemplating graduate school should consider taking 1-3 units of BIOL 496 in addition to the above requirements. In exceptional cases, students may use 3 units of BIOL 496 towards the twelve additional units but only with prior permission of the advisor for this option.

* Must receive a "C" or better ** See exception or clarification in the catalog

NOTE: See the catalog for courses that do not meet specific or elective requirements for the major

Updated 12/10/12 LM