# BACHELOR OF SCIENCE IN BIOLOGY (IMPACTED) Option in Cell and Molecular Biology 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 (ALL Biology Department <br> courses require a cC" or better in every <br> 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 and CHEM 111A* |
|  | BIOL 213 | Introduction to Ecology and Physiology (4) |  | BIOL 211, 212 and CHEM 1111B* |
|  | BIOL 260 | Biostatistics (3) |  | BIOL 211 or BIOL 207 or MICR <br> 200*; MATH 111* or 113* or 119A* or 122* |
|  | CHEM 111A | General Chemistry (5)** |  | A passing score on the CPT; MATH <br> 113* or 117* or 119A* or 122* |
|  | CHEM 111B | General Chemistry (5) | CHEM 111A* |  |

Take ONE course from EACH block set:

Upper Division (for upper division advising, please see your faculty advisor). Take ALL of the following courses:

|  | CHEM 322A | Organic Chemistry (3) |  |
| :--- | :--- | :--- | :--- |
|  | CHEM 323A | Organic Chemistry Laboratory (1)** |  |
|  | CHEM 322B | Organic Chemistry (3) | CHEM 111B* (lab required same semester**) |
|  | CHEM 323B | Organic Chemistry Laboratory (1)** | CHEM 322A* and CHEM 323A* + lab**) |
|  | CHEM 441A | Biological Chemistry (3)** |  |
|  | CHEM 441B | Biological Chemistry (3) | CHEM 322A* and CHEM 323A* |
|  | BIOL 340 | Molecular Cell Biology (3) |  |
|  | BIOL 370 | General Genetics (4) | CHEM 320B* or both CHEM 322B* and 323B* |
|  | BIOL 440L | Molecular Cell Biology Laboratory (3) |  |
|  | BIOL 480 | Seminars (1) |  |

Take ONE course from the following:

|  | BIOL 312 | Evolutionary Biology (3) |  | BIOL 211, 212, 213, 260 |
| :--- | :--- | :--- | :--- | :--- |
|  | BIOL 350 | General Ecology (3) |  | BIOL 211, 212, 213, 260; MATH 119A* or 122* |

Take FIVE courses from the following totaling at least 15 units: MICR 211; BIOL 431, 433, 443, 445, 447, 472, 473, 477; CHEM 547; BIOL/MICR 416, 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 these five courses but only with prior permission of the advisor for this option.

