# BACHELOR OF SCIENCE IN CHEMISTRY (IMPACTED) <br> Major Requirements Worksheet <br> 2014-2015 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-Chemistry 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.

## Degree Progress Rules

Freshman need to complete Math 122 and CHEM 111A within one calendar year. CHEM 111B and CHEM 220A within two calendar years, all with a grade of "C" or better. Transfer students need to complete CHEM 220A and PHYS 151 within one calendar year, all with a grade of " $C$ " or better.

| Semester | Grade | Course \# | Course Title | Prerequisites |
| :--- | :--- | :--- | :--- | :--- |
|  |  | MATH 122 | Calculus I (4) | MDPT placement or MATH 111 and <br> 113 |
|  |  | MATH 123 | Calculus II (4) | MATH 122 |
|  |  | MATH 224 | Calculus III (4) | MATH 123 or 222 |
|  |  | PHYS 151 | Mechanics and Heat (4) | Pre/corequisite: MATH 122 |
|  |  | PHYS 152 | Electricity and Magnetism (4) | PHYS 151; Pre/Corequisite MATH <br> 123 |

## Select either:

|  |  | CHEM 111A | General Chemistry (5) AND | A passing score on the CPT; <br> Corequisite: MATH 109 or higher <br> CHEM 111A |
| :--- | :--- | :--- | :--- | :--- |
| $\boldsymbol{O R}$ | CHEM 111B | General Chemistry (5) |  |  |

## Take ALL of the following courses:

|  |  | CHEM 220A | Organic Chemistry I (3) | CHEM 111B |
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|  | CHEM 220B | Organic Chemistry II (3) <br> (*lab required same semester) | CHEM 220A <br> Corequisite: CHEM 320L |  |

## Either take ALL of the following:

|  | BIOL 211 | Intro. to Evolution and Diversity (4) <br> AND <br> Intro. to Cell and Molecular Biology (4) | Pre/Corequisite: CHEM 111A <br> BIOL 211, CHEM 111A. <br> Pre/Corequisite: CHEM 111B |
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## OR ONE of the following:

|  |  | BIOL 200 | General Biology (4) | GE Foundation |
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|  |  | BIOL 205 | Human Biology (4) | GE Foundation |
|  |  | BIOL 207 | Human Physiology (4) | GE Foundation |

UPPER DIVISION COURSES (See your faculty advisor.)
Take ALL the following courses:

|  |  | CHEM 320L | Organic Chemistry Laboratory (2) | CHEM 220A; Corequisite: CHEM <br> 220B |
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|  |  | CHEM 331 | Inorganic Chemistry (3) |
| :--- | :--- | :--- | :--- | CHEM 111B | Pre/corequisite: CHEM 331 |
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Take an additional 7 units of chemistry electives including at least one unit of CHEM 496 and 3 units of upperdivision courses. CH E 330, CH E 430, or CH E 475 may be used as chemistry electives.

Students are also advised to take one or more additional courses in mathematics, such as MATH 247, MATH 364A, MATH 370A, MATH 380.

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