### Chemistry Major with Standard Chemistry Track Worksheet

(Requirements effective Fall 2016)

This chemistry major requires completion of forty (39) units in Chemistry, as follows:

<table>
<thead>
<tr>
<th>Semester/Year Taken</th>
<th>Course</th>
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#### I. Required Lower Division Courses (21 units):

- CHEM - 111 General Chemistry I (3) + CHEM 112 Lab (1)
- CHEM - 113 General Chemistry II (3) + CHEM 114 Lab (1)
- CHEM - 230 Organic Chemistry I (3) Lecture
- CHEM - 232 Organic Chemistry Lab I (1)
- CHEM - 231 Organic Chemistry II (4) Lecture
- CHEM - 234 Organic Chemistry Lab II (1)
- CHEM - 260 Analytical Chemistry (4) (2 lectures + 2 Labs/wk.)

#### II. Required Upper-division courses (16 units):

- CHEM - 340 Physical Chemistry I (4) Lecture
- CHEM - 341 Physical Chemistry II (4) Lecture
- CHEM - 420 Inorganic Chemistry (4) (3 Lectures + 2 Labs/wk.)

#### III. Additional courses (2 units minimum):

- CHEM - 397 Research Methods & Practice (1) (Can be repeated for a maximum of 4 units)
- CHEM - 410 Integrated Lab (2-4) Lecture + Lab
- CHEM - XXX Chemistry Elective (4)

#### IV. Required supporting courses (16 units):

- MATH - 109 Calculus and Analytic Geometry I (4) Lecture
- MATH - 110 Calculus and Analytic Geometry II (4) Lecture
- PHYS - 110 General Physics I (4) Lecture + Lab
- PHYS - 210 General Physics II (4) Lecture + Lab

**ACS certification requires these additional courses:**

- CHEM – 410 Integrated Lab (4) Lecture + Lab
- CHEM - 397 Research Methods & Practice (1) (Can be repeated for a maximum of 4 units)

Updated 4/5/2016