## California State Polytechnic University, Pomona <br> Degree Curriculum Sheet

Plan (Major) CHEMISTRY
Subplan/Option Industrial Chemistry $\qquad$

Catalog Year 2014-2015
Minimum Units Required $\qquad$
$\qquad$

Name
Student ID

| Required Core Courses |  |  |
| :---: | :---: | :---: |
| Course |  | Units |
| Required of all students. A 2.0 cumulative GPA is required in core courses, including subplan courses, in order to receive a degree in the major. |  |  |
| General Chemistry \& Lab | CHM 121/121L | 3/1 |
| General Chemistry \& Lab | CHM 122/122L | 3/1 |
| General Chemistry \& Lab | CHM 123/123L | 3/1 |
| Quantitative Analysis \& Lab | CHM 221/221L | 2/2 |
| Organic Chemistry | CHM 314 | 3 |
| Organic Chemistry | CHM 315 | 3 |
| Organic Chemistry | CHM 316 | 3 |
| Organic Chemistry Lab | CHM 317L | 1 |
| Organic Chemistry Lab | CHM 318L | 1 |
| Organic Chemistry Lab | CHM 319L | 1 |
| Spectroscopic Methods \& Lab | CHM 342/342L | 2/2 |
| Separation Methods \& Lab | CHM 343/343L | 2/2 |
| Electroanalytical Methods \& Lab | CHM 344/344L | 2/2 |
| Physical Chemistry \& Lab | CHM 352/352L | 1/2 |
| Organic Synthesis \& Lab | CHM 422/422L | 2/2 |
| or Organic Analysis \& Lab | CHM 424/424L | (2/2) |
| Senior Research Project | CHM 491 | 3 |
| Senior Research Project | CHM 492 | 3 |
| Undergraduate Seminar | CHM 493 | 2 |
|  | Total Units | 55 |
| Required Subplan/Option Core Courses |  |  |
| Course |  | Units |
| Elements of Physical Chemistry and Elements of Physical Chemistry or Physical Chemistry and Physical Chemistry and Physical Chemistry | CHM 304/304A | 3/1 |
|  | CHM 305 | 3 |
|  | CHM 311 | (3) |
|  | CHM 312 | (3) |
|  | CHM 313 | (3) |
| Elements of Biochemistry \& Lab or Biochemistry \& Lab or Inorganic Chemistry | CHM 321/321L | 3/1 |
|  | CHM 327/327L | (3/1) |
|  | CHM 401 | (3) |
| The Chemist in Industry | CHM 340 | 4 |
| Two courses from the following: |  | 6-8 |
| Inorganic Chemistry | CHM 402 | (3) |
| Polymer Chemistry | CHM 409 | (3) |
| Intro to Colloid and Surface Chemistry | CHM 413 | (3) |
| Bioanalytical Chemistry | CHM 450 | (4) |
| Biochemical Preparations \& Lab | CHM 452/452L | (1/2) |
| Green Chemistry | CHM 459 | (4) |
| Air Pollution Problems | CHM 460 | (3) |
|  | Total Units | 20-25 |



## Elective Support Courses

| Course | Units |
| :--- | :---: |
| Select a minimum of 6 units from one approved elective package. <br> (See Advisor) | 6 |
|  | Total Units | $\mathbf{6} 9$


| Unrestricted Electives |  |
| :--- | :--- |
| Course | Units |
|  |  |


| Select a sufficient number of courses so that the total from "Required |
| :--- | :--- | :--- |
| Subplan/Option", "Required Support", "GE", and "Unrestricted Electives" |

Support, GE , and Unrestricted Electives
s at least 119 units.

| General Education Requirements |  |
| :--- | :---: |
| Area | Units |
| Area A Communication \& Critical Thinking | 12 |
| 1. Oral Communication |  |
| 2. Written Communication |  |
| 3. Critical Thinking | 16 |
| Area B Mathematics \& Natural Sciences |  |

Select at least one lab course from subarea 1 or 2

1. Physical Science
2. Biological Science
3. Laboratory Activity
4. Math/Quantitative Reasoning
5. Science \& Technology Synthesis

## Area C Humanities

1. Visual and Performing Arts
2. Philosophy and Civilization
3. Literature and Foreign Language
4. Humanities Synthesis

## Area D Social Sciences

1. U.S. History, Constitution, American Ideals
a. United States History
b. Introduction to American Government
2. History, Economics and Political Science
3. Sociology, Anthropology, Ethnic \& Gender Studies
4. Social Science Synthesis

| Area E Lifelong Understanding \& Self Development | 4 |
| ---: | :--- |
| Total Units | 68 |

## American Institutions

Courses that satisfy this requirement may also satisfy GE Area D1

## American Cultural Perspectives Requirement

Refer to catalog for list of courses that satisfy this requirement.
Course may also satisfy major, minor, GE, or unrestricted elective requirements.

[^0]
[^0]:    All persons who receive undergraduate degrees from Cal Poly Pomona must pass the Graduation Writing Test (GWT). The test must be taken by the quarter following completion of 120 units for undergraduates.

