

# California State Polytechnic University, Pomona

	Degree Curriculum Sheet	
Plan (Major) <u>CHEMISTRY</u>	Catalog Year	Name
Subplan/Option Chemistry	Minimum Units Required	Student ID
Required Core Courses	Required Support Courses	General Education Requireme
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.  CHM 121 - General Chemistry (3) and  CHM 121 - General Chemistry Laboratory (1)  CHM 122 - General Chemistry Laboratory (1)  CHM 123 - General Chemistry Laboratory (1)  CHM 123 - General Chemistry Laboratory (1)  CHM 221/221L - Quantitative Analysis (2/2)  CHM 314 - Organic Chemistry (3)  CHM 315 - Organic Chemistry (3)  CHM 316 - Organic Chemistry (3)  CHM 317L - Organic Chemistry Laboratory (1)  CHM 318L - Organic Chemistry Laboratory (1)  CHM 319L - Organic Chemistry Laboratory (1)  CHM 319L - Spectroscopic Methods (2/2)  CHM 343/343L - Separation Methods (2/2)  CHM 344/344L - Electroanalytical Methods (2/2)  CHM 343/352L - Physical Chemistry/Laboratory (1/2)	The following major support courses should be used to satisfy the indicated GE requirements. If these courses are not used to satisfy GE, the total units to degree may be more than 180 units.  BIO 115/115A/115L - Basic Biology (3/1/1) (B2, B3)  CS 128 - Introduction to C++ (4)  MAT 114 - Analytic Geometry and Calculus I (4) (B4)  MAT 115 - Analytic Geometry and Calculus II (4)  MAT 116 - Analytic Geometry and Calculus III (4)  MAT 216 - Differential Equations (4)  PHY 131 - General Physics (3) (B1) and PHY 131L - General Physics Laboratory (1) (B3)  PHY 132 - General Physics (3) and PHY 133 - General Physics (3) and PHY 133L - General Physics (3) and PHY 133L - General Physics (3) and PHY 133L - General Physics Laboratory (1)  Total Units 37	Area A Communication & Critical T  1. Oral Communication 2. Written Communication 3. Critical Thinking  Area B Mathematics & Natural Scie 1. Physical Science 2. Biological Science 3. Laboratory Activity 4. Math/Quantitative Reasoning 5. Science & Technology Synthes  Area C Humanities (16 units) 1. Visual and Performing Arts 2. Philosophy and Civilization 3. Literature and Foreign Langua 4. Humanities Synthesis  Area D Social Sciences (20 units) 1. U.S. History, Constitution, Ame
CHM 422/422L - Organic Synthesis (2/2) or CHM 424/424L - Organic Analysis (2/2)	Other Requirements	a. United States History b. Introduction to Ameri 2. History, Economics and Politi
CHM 491 - Senior Research Project (3) CHM 492 - Senior Research Project (3)	A reading knowledge of a foreign language, especially German, is strongly	3. Sociology, Anthropology, Ethn

#### Total Units 55

## Required Subplan/Option Core Courses

CHM 311 - Physical Chemistry (3) CHM 312 - Physical Chemistry (3) CHM 313 - Physical Chemistry (3) CHM 353L - Physical Chemistry Laboratory (2)

CHM 493 - Undergraduate Seminar (2)

CHM 401 - Inorganic Chemistry (3) CHM 402 - Inorganic Chemistry (3)

CHM 321/321L - Elements of Biochemistry (3/1)

CHM 327 - Biochemistry (3) and

CHM 327L - Biochemistry Laboratory (1) and

CHM 328 - Biochemistry (3) and

CHM 328L - Biochemistry Laboratory (1)

Two elective courses, approved 300, 400-level or higher, excluding CHM 400, CHM 491, CHM 492, CHM 493 & CHM 499/499A/499L (6-8 units)

Total Units 27-33

recommended for students planning advanced study in Science.

## **Unrestricted Electives**

Select a sufficient number of courses so that the total from "Required Subplan/ Option", "Required Support", "GE", and "Unrestricted Electives" is at least 125

## Total Units 0.5

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## Thinking (12 units)

#### ences (16 units)

- sis
- ige
- erican Ideals
  - an Government
- al Science
- ic & Gender Studies
- 4. Social Science Synthesis

Area E Lifelong Understanding & Self Development (4 units)

#### **Total Units 68**

## **American Institutions**

Courses that satisfy this requirement may also satisfy GE Area D1

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## **American Cultural Perspectives Requirement**

Refer to the University Catalog General Education Program section for a list of courses that satisfy this requirement. Course may also satisfy major, minor, GE, or unrestricted elective require4

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.