Cal Poly Pomona

Name: Plan:

48 units

Chemistry, B.S.

SubPlan/Option: **General Chemistry**

Min. Units Required: 120 units

2019-2020 University Catalog **Degree Curriculum Sheet**

| e Academic Programs website | | |
|--|--|---|
| | | |
| lu/~academic-programs/general- | education-course-listing | s.shtml |
| Communication and Critical Thin | on Requirements, Areas | |
| | | |
| | | |
| uon | | |
| nd Quantitative Reasoning (12 u | nits) | |
| ••• | • | ill B3 |
| | | |
| | | |
| | | |
| | | |
| | | |
| . , | rom sub-areas 1 and/or | 2 |
| | un sub-aleas i allu/Ul | <u>~</u> |
| 0 | ization | |
| s Synthesis | | |
| 12 units) | | |
| sub-area | | |
| nerican Ideals | | |
| | | |
| | ystems, and Ethics | |
| | | |
| , | | |
| <u>General Education</u> | | 21 Units |
| ducation (IGE) program. Student y their major. Please refer to the onal information. | ts should see an advisor University Catalog Gen | r for specific |
| | • | uiromonte |
| | | 110110 |
| · | | |
| <i>'</i> | | |
| · · · · · · · · · · · · · · · · · · · | | |
| | C3 or D4 | |
| tions | | 6 Units |
| equirement may also satisfy GE A | Irea D1 and D2 | |
| yunement may also satisiv GE F | nou DI anu DE. | |
| | Communication and Critical Thir sub-area tion and Quantitative Reasoning (12 u 2, B4, and B5 including 1 unit of tative Reasoning sology Synthesis as (12 units) sub-area and 3 additional units fi g Arts anguages, Philosophy and Civili synthesis 2 units) sub-area herican Ideals d California Government nciples, Methodologies, Value S hesis and Self-Development (3 units) General Education Completion of GE Areas A, C, ducation (IGE) program. Student y their major. Please refer to the inal information. w IGE fulfills General Education Completion of IGE Courses IGE 1100, IGE 1200 IGE 2100, IGE 2400 IGE 2400 IGE 3100 | ntion nd Quantitative Reasoning (12 units) 2, B4, and B5 including 1 unit of lab from B1 or B2 to fulf tative Reasoning blogy Synthesis as (12 units) sub-area and 3 additional units from sub-areas 1 and/or. ng Arts anguages, Philosophy and Civilization s Synthesis 2 units) sub-area rerican Ideals d California Government nnciples, Methodologies, Value Systems, and Ethics hesis and Self-Development (3 units) General Education tial fulfillment of GE Areas A, C, and D available for stud ducation (IGE) program. Students should see an advisor / their major. Please refer to the University Catalog General Ideals if GE fulfills General Education Requirements: Completion of IGE Courses Satisfies GE Requ IGE 1100, IGE 1200 A2 and C2 IGE 2100, IGE 2200 C1 and C2 IGE 2300, IGE 2400 D1 and D3 IGE 3100 C3 or D4 |

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 requirements.

Graduation Writing Test

All persons who receive undergraduate degrees from Cal Poly Pomona must pass the Graduation Writing Test (GWT). The test must be taken by the semester following completion of 60 units for undergraduates.

| Subplen/Ontion Required | |
|--|--|
| PHY1520 - Introduction to Electromagnetism and Circuits (3) PHY1520L - Introductory Laboratory on Electromagnetism and Circuits (1) | |
| | |

Subplan/Option Required

Major Required

CHM1210 - General Chemistry I (3) (B1) CHM1210L - General Chemistry Laboratory I (1) (B3) CHM1220 - General Chemistry II (3) (B1) CHM1220L - General Chemistry Laboratory II (1) (B3)

CHM2210 - Quantitative Analysis (2) CHM2210L - Quantitative Analysis Laboratory (2) CHM2910A - Chemical Communication Activity (1)

CHM3140 - Organic Chemistry I (4) CHM3140L - Organic Chemistry Laboratory I (1) CHM3150 - Organic Chemistry II (3) CHM3150L - Organic Chemistry Laboratory II (1) CHM3270 - Biochemistry I (3) CHM3270L - Biochemistry Laboratory I (1) CHM3420 - Spectroscopic Methods (1) CHM3420L - Spectroscopic Methods Laboratory (1) CHM3430 - Separation Methods (1) CHM3430L - Separation Methods Laboratory (1) CHM3520L - Physical Chemistry Laboratory (2) MAT1140 - Calculus I (4) (B4) MAT1150 - Calculus II (4) (B4) PHY1510 - Introduction to Newtonian Mechanics (3) (B1) PHY1510L - Newtonian Mechanics Laboratory (1) (B3)

CHM3040 - Elements of Physical Chemistry I (3) and CHM3050 - Elements of Physical Chemistry II (3) CHM3110 - Classical Physical Chemistry (3) and CHM3120 - Quantum Physical Chemistry (3)

BIO1150 - Basic Biology (3) (B2) BIO1150L - Basic Biology Laboratory (1) (B3)

Subplan/Option Electives

23 units

10 units

Students may take any 3000-4000 level chemistry courses not already counted in the major required to satisfy units. Up to 12 units may come from outside CHM. See advisor/dept for suggested courses that prepare for specific areas in chemistry or to tailor your curriculum to career goals.