

Academic Policies Committee Short Form Proposal Template

Schools/departments should use this short form to submit proposals:

- Needing only APC approval (revision of course descriptions including title, number or prerequisites, alternate year listing in the Catalog and the cross listing of courses); or
- Eliminating (or adding?) 1-3 courses which don't impact other programs or
- Eliminating a minor, concentration, credential program or certificate which doesn't impact other programs (confirmed by direct administrative report - college dean or provost).

All submitted proposals need to adhere to the following template in order to facilitate the work of the Academic Policies Committee.

I. Who - Academic Unit Name: Chemistry Department

II. Impact- This proposal will impact the Biology Department but not the library

III. What - Proposal Summary: The chemistry department desires to accommodate ADT students by making a slight change to the Chemistry B.S. We are proposing to shift CHE 304 (Organic Chemistry II) from an upper division course to a lower division course and change its course number to CHE 296.

IV. When - 2019-2020

V. Why - Proposal Rationale:

Across the country, the majority of courses required for a Bachelor of Science in Chemistry follows the national American Chemical Society (ACS) guidelines. More specifically, the first two years of a Chemistry B.S. typically include two semesters of General Chemistry and two semesters of Organic Chemistry along with two semesters of Calculus and Physics. At PLNU, we have followed these guidelines as closely as possible and have offered a similar set of courses for our freshmen and sophomores.

However, the second semester of organic chemistry (CHE 304) has historically been listed as an upper division course at PLNU thus preventing easy course transfer for future ADT students. We are now proposing to change the course number of CHE 304 to CHE 296 so ADT students can transfer to PLNU with two full years of lower division chemistry courses and start as junior chemistry majors.

The Associate in Science in Chemistry for Transfer Degree requires a minimum of 34 semester units. With the proposed changes, the total number of lower division units for our Chemistry B.S. will grow from 32 to 36 and the total number of upper division units will decrease from 34 to 30. The difference between the ADT requirements and our program is explained by looking at Analytical Chemistry (CHE 213, 3 units) which we offer as a lower division course. It is worth noting that the majority of community colleges also offer this course as a lower division requirement thus ADT students should already have taken this course before they transfer to PLNU. However, students who transfer without Analytical Chemistry will have to take this course at PLNU because CHE 213 is a prerequisite for some upper division chemistry courses.

VI. How – Curricular Changes:

- A. Step 1: Use *track changes* to prepare the proposed catalog text. If you need a copy of your catalog sections sent to you, contact sfruchey@pointloma.edu.
 - B. Step 2: Arrange a meeting with the APC chair and Records liaison to review the catalog text proposal and receive assistance in submission of proposed catalog copy. Include this with your proposal.
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CHEMISTRY B.S.

Lower-Division Requirements

- CHE 152 - General Chemistry I (GE) (4)
- CHE 152L - General Chemistry I Lab (GE) (1)
- CHE 153 - General Chemistry II (3)
- CHE 153L - General Chemistry II Lab (1)
- CHE 213 - Analytical Chemistry (3)
- CHE 294 - Organic Chemistry I (3)
- CHE 294L - Organic Chemistry I Lab (1)
- CHE 296 - Organic Chemistry II (3)
- CHE 296L - Organic Chemistry II Lab (1)
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- MTH 144 - Calculus With Applications (GE) (4)
- **OR**
- MTH 164 - Calculus I (GE) (4)
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- MTH 174 - Calculus II (4)
- PHY 241 - University Physics I (GE) (4)
- PHY 242 - University Physics II (4)

Total: ~~362~~ Units

Upper-Division Requirements

- ~~CHE 304 - Organic Chemistry II (3)~~
- ~~CHE 304L - Organic Chemistry II Lab (1)~~
- CHE 325 - Physical Chemistry I (3)
- CHE 325L - Physical Chemistry I Lab (1)
- CHE 326 - Physical Chemistry II (3)
- CHE 327 - Physical Chemistry II Laboratory (1)

- CHE 351 - Organic Structure Elucidation (2)
- CHE 370 - Instrumental Analysis (2)
- CHE 450 - Advanced Biochemistry (3)
- CHE 450L - Advanced Biochemistry Lab (1)
- CHE 453 - Advanced Organic Chemistry (2)
- CHE 454 - Advanced Organic Chemistry Laboratory (1)
- CHE 466 - Bioinorganic Chemistry (2)
- CHE 467 - Advanced Inorganic Chemistry Laboratory (1)
- CHE 468 - Advanced Inorganic Chemistry (3)
- CHE 495 - Chemistry Seminar (1)
- *Science and/or Math electives beyond those required for the degree must be approved by the department chair (Biology and Physics 300 level or higher, Math 200 level or higher). (4)*

Total: 304 Units

BIOLOGY-CHEMISTRY B.S.

Lower-Division Requirements

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- BIO 210 - Cell Biology and Biochemistry (GE) (4)
 - BIO 211 - Ecological and Evolutionary Systems (GE) (4)
 - BIO 212 - Organismal Biology (3)
 - CHE 152 - General Chemistry I (GE) (4)
 - CHE 152L - General Chemistry I Lab (GE) (1)
 - CHE 153 - General Chemistry II (3)
 - CHE 153L - General Chemistry II Lab (1)
 - CHE 213 - Analytical Chemistry (3)
 - CHE 294 - Organic Chemistry I (3)
 - CHE 294L - Organic Chemistry I Lab (1)
 - CHE 296 - Organic Chemistry II (3)
 - CHE 296L - Organic Chemistry II Lab (1)
 - MTH 144 - Calculus With Applications (GE) (4)

Choose one sequence: 8 Units

- PHY 141 - General Physics I (GE) (4) **AND**
- PHY 142 - General Physics II (GE) (4)
- **OR**
- PHY 241 - University Physics I (GE) (4) **AND**
- PHY 242 - University Physics II (4)

Total: 43 Units

Upper-Division Requirements

- BIO 345 - Genetics (4)
- BIO 380 - Molecular Biology (3)
- BIO 497 - Biology Seminar (1)
- CHE 325 - Physical Chemistry I (3)
- CHE 325L - Physical Chemistry I Lab (1)
- CHE 466 - Bioinorganic Chemistry (2)
- BIO 450 - Advanced Biochemistry (3) **and**
- BIO 450L - Advanced Biochemistry Lab (1)
- **OR**
- CHE 450 - Advanced Biochemistry (3) **and**
- CHE 450L - Advanced Biochemistry Lab (1)

Total: 25-274 Units

Total course/unit additions: 0

Total course/unit deletions: 0

Staffing increase/decrease: 0

Library resourcing impact: 0

Net Financial impact: 0

I have reviewed this proposal and the items above and believe the proposal meets all university requirements, does not impact other departments or programs, and is ready for APC review.

Department or School Direct Report:

_____ Date _____

College Dean or Provost as applicable:

_____ Date _____

Note: Submit completed short form proposal to the APC chair not later than one month prior to the APC meeting at which you hope it can be placed on the agenda.