

CHEM 442 plus CHEM 542-DualList-2018-02-16

- The workflow icon is no longer available. Please click on the Page Status after the orange circle icon near the page title. *

Form Information



The page you originally access is the global template version. To access the template document that progresses through the workflow, please complete the following steps:

First Step: ONLY change the text in the [brackets] so it looks like this: **CRIM 101 Intro to Criminology-CrsRvs-2015-08-10**

- If DUAL LISTED list BOTH courses in the page title***

Second Step: Click "SAVE" on bottom right

- DO NOT TYPE ANYTHING INTO THE FIRST PAGE OTHER THAN THE TEXT IN BRACKETS***
- Please be sure to remove the Brackets while renaming the page***

Third Step: Make sure the word ***DRAFT*** is in yellow at the top of the proposal

Fourth Step: Click on "**EDIT CONTENTS**" (*not EDIT*) and start completing the template. When exiting or when done, click "**SAVE**" (*not Save Draft*) on bottom right

When ready to submit click on the workflow icon and hit approve. It will then move to the chair as the next step in the workflow.

**Indicates a required field*

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|----------------------------|------------|-----------------|---------------|
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| Proposing Department/Unit* | Chemistry | Contact Phone* | 7-4489 |

| | |
|---------------|-------------------------------------|
| Course Level* | graduate-level, undergraduate-level |
|---------------|-------------------------------------|

Dual Listed Section

| | |
|---|--|
| Undergraduate Course Prefix /Number | CHEM 442 |
| Undergraduate Course Title | Advanced Physical Chemistry |
| Undergraduate Course Catalog Description | In-depth exploration and applications of chemical thermodynamics, equilibria, kinetics, quantum mechanics, and spectroscopy. |
| Graduate Course Prefix /Number | CHEM 542 |
| Graduate Course Title | Advanced Physical Chemistry |
| Graduate Course Catalog Description | In-depth exploration and applications of chemical thermodynamics, equilibria, kinetics, quantum mechanics, and spectroscopy. |
| What is the Justification for Dual Listing these particular two course? | Physical Chemistry II (CHEM 442) is a course taken juniors and seniors to satisfy the requirements of the Chemistry BS degree, and it is an option for the chemistry elective requirement for the Pre-medical, Pre-pharmacy and Interdisciplinary tracks. The Chemistry Department wishes to dual-list this course as CHEM 542, so that graduate students who have not yet taken a second semester of Physical Chemistry can meet their needs, and also add to the enrollment of the undergraduate course. |

How will the course be structured?

Briefly explain how the course will be structured so that it meets the needs and appropriate level expectations of students.

In other words, how are you specifically maintaining the quality of education for each classification (level) of student in the class?

Lower Level Class

Evaluation consists of three lecture exams, regular quizzes and homework assignments, and a comprehensive final exam.

Quizzes – 15%

Assignments – 15%

Semester Exams – 50%

Final Exam - 20%

Upper Level Class

In addition to the undergraduate requirements, the graduate students will be required to use the chemical literature to research a topic from the course, and write a 10-page (minimum) paper giving the background and applications of the chosen topic. The undergraduate requirements will be worth 85% of the graduate grade, and the research paper will be worth 15% of the graduate grade.

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Please submit an ihelp if you have any questions <http://ihelp.iup.edu>