CHEM 153: Physical Chemistry Laboratory

Course Title: Physical Chemistry Laboratory
Abbreviated Course Title: P-chem lab
Course Subject: CHEM
Course Number: 153
School Submitting Request: Natural Sciences
Division: Upper Division
Effective Term: Fall 2011
Discontinuance Term: ----
Lower Unit Limit: 2
Upper Unit Limit: 2
Prerequisites: CHEM 112

Prerequisites with a Concurrent Option:

Corequisites:

Major Restrictions:

Class Level Restrictions:

Introduces students to modern laboratory instrumentation and experimental techniques in physical chemistry. It consists of a number of experiments that use different techniques to explore fundamental concepts in spectroscopy, kinetics, and chemical thermodynamics.

TIE Code:

T: Laboratory-Skills/Techniques

Reasons for Request:

New Course

Brief Explanation of Change(s):

CHEM 114L is being replaced in the curriculum by CHEM 153 and CHEM 155. Both of these courses will be required for all Chemical Sciences majors.

Lecture: 0 contact, 0 non-contact
Lab: 6 contact, 0 non-contact
Seminar: 0 contact, 0 non-contact
Discussion: 0 contact, 0 non-contact
Tutorial: 0 contact, 0 non-contact
Field: 0 contact, 0 non-contact
Studio: 0 contact, 0 non-contact

Total Contact/Non-contact Hours Per Week:

Total Hours Per Week: 6

Grading Options:

Letter Grade Only

In Progress Grading:

Maximum Enrollment: 15

Maximum Enrollment Reason:

Conjoined
<table>
<thead>
<tr>
<th>Cross-listed Schools</th>
<th>----</th>
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<tbody>
<tr>
<td>Can this course be repeated?</td>
<td>No</td>
</tr>
<tr>
<td>How many times?</td>
<td></td>
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**Resource Requirements**

Laboratory space and access to instruments (already available in SE 103). Chemicals and supplies as needed. If the instructor does not teach the labs, one TA for each section (15 students maximum).

**Does this satisfy a General Education Requirement?**

No

**Course Outline and/or Additional Documentation**

[CHEM 153 syllabus.pdf (55Kb)](CHEM%20153%20syllabus.pdf)