# Course Inventory Change Request

## New Course Proposal

**Date Submitted:** 09/22/14 9:50 am

**Viewing:**

### Chemistry (CH) 354M

**Last edit:** 09/22/14 9:50 am

**Changes proposed by:** rd24473

<table>
<thead>
<tr>
<th>Academic Level</th>
<th>Upper Division</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Type</td>
<td>Normal Course</td>
</tr>
<tr>
<td>Multiple Semester</td>
<td>Single Term</td>
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</tbody>
</table>

**Title:** Introduction to Computational Methods in Chemistry

**Course Schedule Title:** INTRO TO COMPU METHODS IN CH

**Same As**

**Restrictive Statement**

**Subject-Matter Description**

Construction and implementation of numerical algorithms for solving differential equations which are common in chemistry; topics will include chemical reaction rates, quantum mechanics, molecular dynamics, normal modes of vibration, and Monte Carlo methods. Familiarity with physical chemistry, differential equations, and programming is recommended.

**Contact Hours**

<table>
<thead>
<tr>
<th>Contact Hours</th>
<th>Lecture</th>
<th>Lab</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 hour:</td>
<td>3.0</td>
<td>0</td>
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</tbody>
</table>

**Meeting Statement**

Three lecture hours a week for one semester.

**Degree Plan Statement**

Chemistry 354M and 368: Intro to Computational Methods in Chemistry may not both be counted.

**Repeatable**

No

**Grading Method**

Letter Grade

**Prerequisites**

- **Consent of Graduate Adviser:** No
- **Upper Division Standing:** Yes
- **Consent of Instructor:** No

**Duplicate Course Relations**

**Justification for new course:**

Adding frequently used unnumbered topic to permanent inventory.
Course reviewer comments