Please type or select the requested information. Print completed forms, add appropriate paper attachments, and route through MSU's curricular process for recommendations and decisions.

- **College:** Science, Engineering and Technology  
- **Department:** Chemistry and Geology  
- **Proposal:** CIP #  
- **Type of Change:** COURSE PROPOSALS  
- **Proposed:** Change in Course—Other  
- **Title Current:** Physical Chemistry II  
- **Title Proposed:**  
- **24-Char. Abbrev:**  

Include a course or program description for the Bulletin (30-40 words maximum for courses, 100 for programs):

- See attached

**Rationale or Justification for change:**

New prerequisites are more representative of skills needed to excel in this course.

---

### **For General Education or Cultural Diversity Courses Only**

**General Education Course:**

<table>
<thead>
<tr>
<th>GE Category #</th>
<th>GE Category Name (Maximum of 3 Categories)</th>
</tr>
</thead>
<tbody>
<tr>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>N/A</td>
<td></td>
</tr>
</tbody>
</table>

- For Writing Intensive Courses, attach a description of the kind and quantity of writing.
- For Upper Division Courses, include a description of the respects in which it is broad and general rather than narrow and specific, and so suitable as GE.

Attach paper copies of the following:
- a. Syllabus or course outline.
- b. Course's student learning outcomes associated with each GE competency or CD designation.
- c. List of strategies to be used to assess students' achievement of each GE competency or CD designation.

### **For New Courses**

- **Instructional Type:** Lecture  
- **Grading Format:**  
- **Course will be offered:**  
- **Fall Semester**  
- **Spring Semester**  
- **Summer Session**  

- **Course content or title is similar to courses in other departments:** (Attach copy of letter of agreement with other program(s) contacted. Indicate the nature of the discussions and/or resolution of differences or potential conflicts.)

Attach paper copies of the following:
- a. Syllabus or course outline.
- b. Course's student learning outcomes.
- c. A list of resources required to offer and support this course.
- d. A description of how teaching this course will affect department staffing.
- e. If 400/500 level course, an explanation of added expectations of graduate students.

---

**Revised September 2002**
# Proposed Chemistry Prerequisites

<table>
<thead>
<tr>
<th>Course</th>
<th>Current Prerequisite</th>
<th>Proposed Prerequisite</th>
</tr>
</thead>
<tbody>
<tr>
<td>441</td>
<td>Pre: CHEM 440</td>
<td>Pre: C or better in CHEM 440, C or better in MATH 122, C or better in PHYS 222</td>
</tr>
</tbody>
</table>
### Signature Page

**Department**
- Recommended (Category/ies)
- Not Recommended (Category/ies)

**Comments:**

**College Curriculum Committee**
- Recommended (Category/ies)
- Not Recommended (Category/ies)

**Comments:**

**College Dean**
- Recommended (Category/ies)
- Not Recommended (Category/ies)

**Comments:**

**General Education Subcommittee**
- Recommended (Category/ies)
- Not Recommended (Category/ies)

**Comments:**

**Undergraduate Curriculum and Academic Policy Committee**
- Recommended (Category/ies)
- Not Recommended (Category/ies)

**Comments:**

**Faculty Association Graduate Committee**
- Recommended
- Not Recommended

**Comments:**

**Graduate Dean**
- Recommended
- Not Recommended

**Comments:**

**Academic Affairs Council**
- Recommended (Category/ies)
- Not Recommended (Category/ies)

**Comments:**

**Senior Vice President and Vice President for Academic Affairs**
- Approved (Category/ies)
- Not Approved (Category/ies)

**Comments:**