University of Wisconsin-Whitewater

Curriculum Proposal Form #4R

# **Change in or Deletion of an Existing Course**

Type of Action (check all that apply)

Pre-requisite Change

Add Cross-listing \*  Technological Literacy

Course Deletion  Title Change   
 Number Change  Writing Requirement

(other) Description Change

**Effective Term**:

**Current Course Number** (*subject area and 3-digit course number)*: CHEM 371   
**Cross-listing *(if applicable)***:

**New Course Number** (*subject area and 3-digit course number*):

**Cross-listing *(if applicable)***:

**\*If adding a cross-listing, include the following:**

Required in the major:   
  
Required in the minor:

Number of credits: Lab hours/week:    
  
Contact hours/week: Repeatable

**Current Course Title**: Physical Chemistry

**New Course Title**:

**25-Character Abbreviation** *(if new title)*:

**Sponsor(s)**: Paul House

**Department(s):** Chemistry

**College(s):**

**List all programs that are affected by this change:**

No other programs affected by this change

If programs are listed above, will this change affect the Catalog and Advising Reports for those programs? If so, have Form 2's been submitted for each of those programs?

(Form 2 is necessary to provide updates to the Catalog and Advising Reports)

NA  Yes  They will be submitted in the future

Proposal Information: ([***Procedures for form #4R***](http://acadaff.uww.edu/UCC/Curriculum_Handbook_09/Procedures_form4R.docx))

1. **Detailed explanation of changes** (use FROM/TO format)

***FROM:***

CHEM 371 PHYSICAL CHEMISTRY 3 u

A continuation of CHEM 370. (Spring only)

Prereq: CHEM 370.

***TO:***

CHEM 371 PHYSICAL CHEMISTRY 3 u

**The general principles governing the behavior of matter are investigated.**

**Topics include the laws of thermodynamics, gases, phase diagrams, chemical**

**equilibrium, electrochemistry, and kinetics.**

**Three hours of lecture weekly. (Spring only)**

**Prereq: CHEM 352. Coreq: MATH 254 and PHYSCS 181 or PHYSCS 141.**

## Justification for action

The change in prerequisites reflects changes in how material is being taught in this course due to changes in three of the chemistry majors math and physics requirements. Based on suggestions from the American Chemical Society, a national professionals organization, the math and physics requirements are in the process of being changed and this will change how CHEM 370 and CHEM 371 are taught. As a result it is reasonable to decouple CHEM 371 from CHEM 370. This will give students more flexibility in scheduling.

The description change reflects the way this course is taught and more precisely describes the topics covered. The original description for CHEM 370 actually described the content of both CHEM 370 and CHEM 371. The new descriptions are more precise. Material covered in the two courses hasn't changed.