

University of Wisconsin Oshkosh
FORM A (Effective February 2003)
COURSE ACTION ROUTING SHEET (Fill out both sides)

- * If this proposal applies to new or revised Plan (Major/Minor/Emphasis/Option/Certification), use **FORM C**
- * If this is a Trial Course, also fill out the **TRIAL COURSE ATTACHMENT**
- * If this proposal applies to General Education, also fill out **GENERAL EDUCATION ATTACHMENT**
- * Separate forms must be completed for components with different catalog (course) numbers

_____ **NEW COURSE:** Complete entire **FORM** and attach syllabus.

COURSE REVISION: Check all changes that apply-complete only appropriate section(s) _____ Catalog Number Change _____ Convert to U/G (dual level)

_____ Units (Credits) _____ Course Deletion
 _____ Course Title (include 30-char. abbrev.) _____ Grading Basis
 _____ Course Description _____ Course Component
 Prerequisites _____ Other (describe)

PS course ID
Offering Number
Subject
Course Number

EFFECTIVE DATE: *Fall, 2008* (Term/Year)

Department: *Chemistry* **Catalog Number:** *365* **Units** (Credits Earned) *3*

STOP Before proceeding, call Registrar's Office at 4160 for catalog number verification/approval.

Course Title: *Biophysical Chemistry*

30-Character Abbreviation (for new course or title change): *Biophysical Chemistry*

Course Description [to appear in University Catalog (bulletin)]: *N/C*

Prerequisites (if any) [to appear in University Catalog (bulletin)]:

Change the prerequisites from: "~~Chemistry 303, Math 172, and Physics 110~~" to "**Chemistry 303, Math 171, and either Physics 108 or 110**"

Justification: Chem 365 is a new course, which has not yet been taught. In preparing for this course, qualified members of the Chemistry faculty have examined textbooks that would likely be used in this course, and they have examined syllabi and example problem sets used at other Universities that offer similar courses. Members of the faculty concluded that a single semester of calculus and a year of non-calculus based college physics would prepare students for the course. The appropriate math/physics prerequisites for this course are Math 171 and either Physics 108 or 110. The Chemistry prerequisite (Chem 303) is unchanged.

For Variable Units (credits) per course offering: Minimum Units (credits) _____ Maximum Units (credits) _____

Repeatable for Credit? No Yes If yes, maximum total units (credits): _____

Grading Basis: Letter Grade Pass/Fail

Check which components this course includes (check all lines that apply):

Lecture
 Laboratory

Discussion*
 Field Experience

Independent/Individual Instruction
 Seminar/Colloquia

How many class hours (per week) are assigned to each of the above checked components?

3 Lecture
 Laboratory

Discussion*
 Field Experience

Independent/Individual Instruction
 Seminar/Colloquia

*Only should be checked if the Discussion component is separate from the Lecture component – most Lecture components include some general discussion.

NOTE: All checked components must be included in scheduling process. (See next page.)

Lecture – An instructional method in which the instructor presents data and little discussion occurs.

Laboratory – Independent activity by a student with a group under faculty supervision in a room with special equipment.

Discussion – Attention of all members to one performance but group interaction occurs frequently. Include problem hours here.

Independent/Individualized Instruction – All course-sections with an enrollment of one student. Independent Study, Thesis, Comprehensive Exam, and music lessons.

Field Experience – Instruction generally occurs in a non-classroom setting. Sections are determined by the span of supervision of a particular faculty member rather than the meeting time and place. Examples include Student Teaching, Internship, Clinical Experience, and Field Work (where that represents the total contact of the course).

Seminar/Colloquia – A group of advanced students at the undergraduate or graduate level studying with a faculty member (or, in the case of colloquia under the leadership of several faculty members) and exchanging the results of their research through discussion, reports, etc.

Type of Course: General Education (requires APGES Committee approval) Trial Course
 Undergraduate Graduate Combined U/G (dual level)

Cross Listed? No Yes If yes, list course(s)

Objectives of course:

This course is designed as a component in the Chemistry Department's new Biomolecular Science emphasis. The specific objective is to introduce students to thermodynamics, kinetics, chemical equilibria, and spectroscopy as these topics pertain to biological molecules, macromolecules and cells.

Outline of course content (attach syllabus):

Are new resources required?

Not specifically for this course.

Will this course become a component in an existing program (*major, minor, emphasis, option, certification*)? If yes, please explain.

Yes. This is to be a required course in the proposed Biomolecular Science Emphasis.

NOTE: If this course is merely being added to an approved list (i.e., add this course to the list of approved electives), you do NOT need to file a Form C. If however this course will change a current program (major, minor, emphasis, option, certification), you MUST fill out Form C (i.e., add this course as a requirement for the major, etc.)

Course content related to other curricula:

- Is content of this course a duplication of course material already offered with the department, between departments, and/or between colleges? If so, has the duplication been discussed with the other unit, and what is the rationale for offering both courses?

No.

- Is course to apply to a major, minor, emphasis, option, certification outside the initiating unit? If so, a written statement from applicable department(s) should attest that the course would be accepted in that program.

Prior to the initiation of the approval process, please contact the Registrar's office at 3007 for consultation about possible impact of proposed changes.

Registrar: _____	Date: _____
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APPROVALS

Department Chair(s): _____	Date: _____
Division Chair: _____	Date: _____
Curriculum Comm. Chair: _____	Date: _____
Dean/College: _____	Date: _____
AVC Graduate School: _____	Date: _____
APGES Committee Chair (if applicable): _____	Date: _____
Provost and Vice Chancellor: _____	Date: _____
Chancellor: _____	Date: _____

[Cross-listed courses require both/all Department Chair signatures. Chair and Dean signatures signify qualified instructional staff, adequate student demand & facilities, appropriate equipment & materials, consideration of exceptional course fees (above \$20), approval of college/school curriculum committee (if applicable), and communication with other affected units.