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CHEM 2304 Course Proposal

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CHEM 2304 - VIEW COURSE PROPOSAL

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Approvals Received:	Department on 11-16-09 by Jeri Squier (squierj@umn.edu)
Approvals Pending:	Curriculum Committee > Campus Assembly > Catalog
Effective Status:	Active
Effective Term:	1103 - Spring 2010
Course:	CHEM 2304
Institution:	UMNMO - Morris
Campus:	UMNMO - Morris
Career:	UGRD
College:	MDSM - Division of Science and Mathematics
Department:	10565 - UMM-Sci & Math, Div of-Adm

General

Course Title Short:	Organic Chemistry II-Bio Emph
Course Title Long:	Organic Chemistry II with a Biological Emphasis
Max-Min Credits for Course:	4.0 to 4.0 credit(s)
Catalog Description:	Continuation of topics from Chem 2301, with an emphasis on compounds and reactions of biological interest. Topics include spectroscopy, structure and reactivity of aromatic compounds, phosphoryl and acyl group transfer, nucleophilic carbonyl addition, reactions involving enolate and enamine intermediates, coenzyme chemistry, electrophilic addition, beta elimination, oxidation and reduction of organic compounds, and reactions involving free radical intermediates.
Print in Catalog?:	Yes
Additional Course Information (for catalog production):	<no text provided>
Grading Basis:	Stdnt Opt
Honors Course:	No
Delivery Mode(s):	Classroom
Years most frequently offered:	Every academic year
Term(s) most frequently offered:	Spring
Component 1:	LEC (with final exam)
Auto-Enroll Course:	No
Graded Component:	LEC

<u>Academic Progress Units:</u>	Not allowed to bypass limits. 4.0 credit(s)
<u>Financial Aid Progress Units:</u>	Not allowed to bypass limits. 4.0 credit(s)
<u>Repetition of Course:</u>	Repetition not allowed.
<u>Course Prerequisites for Catalog:</u>	2301, Biol 2111 or #
<u>Course Equivalency:</u>	01741 - Chem 2302/Chem 2304
<u>Consent Requirement:</u>	No required consent
<u>Enforced Prerequisites:</u> (course-based or non-course-based)	003105 - prereq 2301, biol 2111
<u>Editor Comments:</u>	11.16.09 - Edited for PSoft. jls
<u>Proposal Changes:</u>	<no text provided>
<u>History Information:</u>	<no text provided>
<u>Assessment and Goals:</u>	<no text provided>
<u>Rationale for Changes or Exceptions:</u>	MANY OF THE STUDENTS WHO TAKE ORGANIC CHEMISTRY II ARE BIOLOGY MAJORS, AND EVEN AMONG THE CHEMISTRY MAJORS MANY HAVE INTERESTS IN THE AREAS OF BIOCHEMISTRY OR HEALTH SCIENCES. THE NEW COURSE WILL PROVIDE AN OPTION FOR THOSE STUDENTS WHO WANT TO STUDY THE FUNDAMENTAL PRINCIPLES OF ORGANIC STRUCTURE AND REACTIVITY WITH MORE OF A FOCUS ON EXAMPLES THAT ARE RELEVANT TO BIOLOGY AND MEDICINE, PARTICULARLY ENZYMATIC REACTIONS AND THE STRUCTURE AND MECHANISM OF DRUGS. IN ADDITION, THE CURRENT CURRICULUM GUIDELINES PROVIDED BY THE AMERICAN CHEMICAL SOCIETY SPECIFY THE IMPORTANCE OF EXPOSING STUDENTS TO TOPICS AT THE INTERFACE OF CHEMISTRY AND BIOLOGY, AND THE INSTRUCTOR'S RESEARCH EXPERTISE LIES IN THIS INTERDISCIPLINARY AREA.

General Education

<u>Faculty Sponsor Name:</u>	Tim Soderberg
<u>Requirement this course fulfills:</u>	SCI - SCI Physical & Biological Sciences without Lab
<u>Provisional Approval:</u>	Not Requested
<u>Regular Approval:</u>	Requested on Oct 14, 2009

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