

FEB 23 2009

COVER SHEET for GRADUATE INFORMATION ITEMS

Note: If the proposal involves only information items, please use this short "Cover Sheet for Graduate Information Items." However, if information items are an integral part of a larger proposal, please submit them in the package and use the "Cover Sheet for Graduate Curriculum Proposal."

Information items are as follow and do not require Graduate Council approval:

- Adding and/or deleting prerequisites (unless they affect other programs)
- Decreasing number of credit hours for a course
- Shifting a course to variable credit
- Renaming a course
- Renumbering courses within the same 100 sequence
- Shifting topics in a two-semester course
- Making editorial changes
- Cross-listing of courses
- Removing 400-level graduate courses from the approved list

After the appropriate college dean's signature has been obtained, submit the cover sheet and information item memorandum to the Dean of the Graduate School to be forwarded to the University Registrar and the Provost.

From: Dept. of Chemistry, Manuel Santiago Date: 1/29/09

Title of Information: Removal of 400-level graduate courses from the approved list
Item:

Proposed Effective Date: Fall 10 or ASAP

REVIEWED BY:

<u>[Signature]</u> Department Head	<u>1/29/09</u> Date	<input checked="" type="checkbox"/> Approve	<input type="checkbox"/> Neutral	<input type="checkbox"/> Disapprove
<u>[Signature]</u> Dean of College	<u>2/23/09</u> Date	<input checked="" type="checkbox"/> Approve	<input type="checkbox"/> Neutral	<input type="checkbox"/> Disapprove
<u>[Signature]</u> Dean of the Graduate School	<u>2/23/09</u> Date	<input checked="" type="checkbox"/> Approve	<input type="checkbox"/> Neutral	<input type="checkbox"/> Disapprove

RECEIVED BY:

Records Office	<u>LSO</u> Initials	<u>2.24.09</u> Date
Provost Office	<u>[Signature]</u> Initials	<u>2/24/09</u> Date

originator 2/25/09
registrar 2/25/09

UTC
Received
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The Graduate School

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January 30, 2009

To The Graduate Curriculum Committee,

The Department of Chemistry is submitting this request to remove the 400-level courses listed on page 98 of the Graduate Catalog. The original text from the 2008-2009 catalog is:

400-Level Courses May be Taken for Graduate Credit

There must be a substantial difference in expectations and work performance for graduate students. Graduate students will be challenged to read more extensively, to integrate the materials more thoroughly, and will be graded with higher standards and expectations than are undergraduate students.

The syllabus of each course offered for combined credit must contain a statement or statements describing specifically what will be required of graduate students.

All syllabi of courses offered for combined credit must be reviewed by a Graduate Council committee. Only those approved by that committee will be offered for graduate credit.

426 Chemistry in Industry	2
434* Advanced Inorganic Chemistry	4
443* Instrumental Analysis	4
453* Advanced Organic Chemistry	4
466 Biochemistry	3
475 Polymer Chemistry	2
486r Seminar	1
496r Industrial Research	2
497r Research	2
498 Individual Studies	1-4
499r Group Studies	1-4

** Laboratory/Studio course fee will be assessed.*

The reason for this request is that the department would prefer a student receive faculty approval prior to registering for the course. In the past, students have registered for a 400-level course unbeknown to the instructor. The instructor may not be Graduate Faculty thus not qualified to instruct the graduate student.

Gail M. Meyer
UC Foundation Professor and Head

developing strategies will be covered with a focus on how to create and sustain competitive advantage in a dynamic and global environment. The business environment created by the computer simulation will allow the student to apply skills in running a company in head-to-head competition with other student run companies. *Prerequisites: Grade of C or better in BFIN 582, BMGT 583, BMGT 584, BACC 585 BMKT 586, and BMGT 581 or BACC 536 Corequisite: BETR 588*

Chemistry (CHEM)

Courses for Graduate Students Only

501r Advanced Special Topics in Chemistry (3)

Primarily for teachers in M.Ed. program. May be repeated for maximum credit of six hours.

512 Environmental Chemistry (3)

A study of chemical systems of the environment from the perspective of equilibrium, kinetics, stoichiometry and thermodynamics. Case studies will be examined. *Laboratory/Studio course fee will be assessed.*

516 Hazardous and Toxic Wastes (3)

A survey of the nature of chemical, nuclear, and biological waste materials including strategies for disposal, detoxification, and reuse. Legal aspects of waste disposal are discussed. *Laboratory/Studio course fee will be assessed.*

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Communication (COMM)

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400r	Special Topics	
410	Public Communication and Environmental Issues	
420	Senior Seminar	
451	Mass Communication Law and Ethics	
465	Advertising Campaign	
470	Public Relations Campaign	
480	Directed Project	3
485r	Individual Internship	6
497r	Research	1-4
498r	Individual Studies	1-4
499r	Group Studies	1-4

Computational Engineering (ENCM)

501 Introduction to Computational Fluid Dynamics (3)

Elementary aspects of computational fluid dynamics (CFD); review of applicable numerical analysis techniques and fluid dynamics equations; use of model equations; development of basic numerical schemes; obtaining and interpreting numerical solutions to selected equation sets pertinent to the development and use of modern CFD methodologies. *Prerequisites: Graduate standing with major in Engineering, Mathematics, Physics, or Computer Science, and approval of graduate committee.*

510 Computational Fluid Dynamics I (3)

Review of integral and differential form of fluid dynamic equations; transformation from Cartesian to general curvilinear coordinates; review of relevant numerical analysis; development of various numerical schemes as applied to model equations; introduction to development of finite difference and finite volume methods for addressing time-dependent, multi-dimensional, compressible, inviscid (Euler) and viscous (Navier-Stokes) flow fields; introduction to computational boundary conditions; relevant literature. *Prerequisite: approval of instructor.*

516 Grid Generation (3)

Approaches to computational geometry and grid generation; boundary conforming structured grids; unstructured grid systems; data structures; grid transformations; distribution functions; surface grid generation; solution of example grid-generation problems using existing software. *Prerequisite: approval of instructor.*