UNIVERSITY FACULTY SENATE FORMS

Academic Program Approval

This form is a routing document for the approval of new and revised academic programs. Proposing department should complete this form. For more information, call the Faculty Senate Office at 831-2921.

Submitted by: John L. Burmeister	phone number: 302-831-1130
Department: Chemistry and Biochemistry	email address: jlburm@udel.edu
	EM degree tion, delete major/minor/concentration, revise change, request for permanent status, policy change, etc.)
Effective term: 09F (use format 04F, 05W)	
Current degree: B.A. in Chemistry (Example: BA, BACH, BAC	CJ, HBA, EDD, MA, MBA, etc.)
Proposed change leads to the degree of:	(Example: BA, BACH, BACJ, HBA, EDD, MA, MBA, etc.)
Proposed name: Proposed new name for revised (if applied)	or new major / minor / concentration / academic unit cable)
Revising:	
Undergraduate major / Concentra (E	xample: Applied Music – Instrumental degree BMAS)
Undergraduate minor:(Example: African	Studies, Business Administration, English, Leadership, etc.)
Graduate Program Policy stateme	nt change:(Must attach your Graduate Program Policy Statement)
C. I. A. D af CAm Jan.	
Graduate minor / concentration:_	

Note: all graduate studies proposals must include an electronic copy of the Graduate Program Policy Document, highlighting the changes made to the original policy document.

List new courses required for the new or revised curriculum. How do they support the overall program objectives of the major/minor/concentrations)?

(Be aware that approval of the curriculum is dependent upon these courses successfully passing through the Course Challenge list. If there are no new courses enter "None")

Replace: CHEM-165 Freshman Majors Seminar (0 credits, FYE requirement) with the new

course CHEM-115 Introduction to Chemical Sciences (2credits, DLE requirement) -

see rationale below.

Add: CHEM-465 Senior Seminar (1 credit, fall term).

Explain, when appropriate, how this new/revised curriculum supports the 10 goals of undergraduate education: http://www.ugs.udel.edu/gened/

It addresses all of the Goals of Undergraduate Education, except for #8 and #9.

Identify other units affected by the proposed changes:

(Attach permission from the affected units. If no other unit is affected, enter "None")

None

Describe the rationale for the proposed program change(s):

(Explain your reasons for creating, revising, or deleting the curriculum or program.)

For decades, freshman BS/CHEM, BS/BIOC, and BS/CHEG majors were in lockstep, as far as their required freshman CHEM courses (CHEM-111/112/119/120) were concerned. That changed in 94S, when CHEM-120 Quantitative Chemistry was dropped from the BS/CHEG curriculum. The other shoe will drop during the 2008-2009 academic year, with the removal of CHEM-119 Quantitative Chemistry from BS/CHEG curriculum. (Beginning with the Class of 2012, BS/CHEG majors will take CHEM-220/221 Quantitative Analysis during their sophomore year.)

These major changes have caused our Department to reevaluate the first-year program for our CHEM, BIOC, and XCE majors. We have concluded that they will be better served by CHEM-115, which incorporates and enlarges upon the content of CHEM-165, our Freshman Majors Seminar (for all of our majors – BA/CHEM, BA/XCE, BS/CHEM, and BS/BIOC), and replaces the set of relatively sophisticated CHEM-119 laboratory experiments with a more basic set which is better suited for the needs and background of our freshman BS/CHEM and BS/BIOC majors.

CHEM-115 will therefore satisfy the FYE requirement of all of our CHEM/BIOC/XCE majors, as was the case for CHEM-165.

CHEM-115 Introduction to Chemical Sciences:

Lecture & discussion, 2 credits; lecture & discussion & lab, 3 credits. Introduction to the CHEM/BIOC Department and the chemical professions: curricula, sub-disciplines, related areas, research, and career opportunities. Social events and mentoring. Group calculator and computer sessions, discussions, and presentations. Experimental techniques and procedures.

The course addresses two main objectives, as outlined above:

It will fulfill the FYE requirement for all of our BA/CHEM, BA/XCE, BS/CHEM, and BS/BIOC majors. It will also lay the experimental groundwork for our BS/CHEM and BS/BIOC majors.

(Extended discussions with Prof. Raul Lobo, of the CHEG Department contributed significantly to the changes outlined above.)

Since its inception, many years ago, our BA/CHEM curriculum has lacked a capstone course requirement. The addition of CHEM=465 Senior Seminar will remedy this omission.



DEGREE: BACHELOR OF ARTS

DEPARTMENT OF CHEMISTRY AND BIOCHEMISTRY

OFFICE OF THE ASSOCIATE CHAIRMAN

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MAJOR:	CHEMISTRY		
CURRICULUM	CREDITE		
MAJOR RE A minimum gr in Chemistry. CHEM-165— CHEM 103/1 CHEM 220/2 or 15 CHEM 111/1 CHEM 321/3 or CHEM 331/3 333/334 CHEM 437/4 CHEM 418/2 or	21 Quantitative Analysis and Laboratory	Add: CHEM-115 Introduction to Chemical Sciences	•
	lau/445 Physical Chemistry and Laboratory	Add: CHEM-465 Senvor Seminar (fall term) 1	!
OT .	Analytic Geometry and Calculus A		
ELECTIVES After required	courses are completed, sufficient elective credits must be taken to num credit requirement for the degree		
CREDITS TO TOTAL A MINIMUM OF			

Program Requirements:

(Show the new or revised curriculum as it should appear in the Course Catalog. If this is a revision, be sure to indicate the changes being made to the current curriculum and include a side-by-side comparison of the credit distribution before and after the proposed change.)

ROUTING AND AUTHORIZATION: (Please do not remove supporting documentation.				
Department Chairperson	es 4 upoll	Date 8/.5/08		
Dean of College		Date		
Chairperson, College Curriculum Commi	ttee	Date		
Chairperson, Senate Com. on UG or GR	Studies	Date		
Chairperson, Senate Coordinating Com.		Date		
Secretary, Faculty Senate		Date		
Date of Senate Resolution		Date to be Effective		
Registrar	Program Code	Date		
Vice Provost for Academic Affairs & Inte	ernational Programs	Date		
Provost		Date		
Board of Trustee Notification		Date		
Revised 10/23/2007 /kbs				