



---

**MEMORANDUM**

---

TO: Curriculum Committee

FROM: Jack Kirby *JRK*

DATE: December 17, 2012

SUBJECT: Curriculum Proposal #12-13-26, REVISION #1  
Final Faculty Senate Approval 01/15/2013

I recommend approval of the attached REVISION #1 of Curriculum Proposal #12-13-26 from the College of Science and Technology, Department of Biology, Chemistry, and Geoscience.

This proposal reduces the total hours needed for a BS in Chemistry from 128 to 120 by eliminating free elective hours. In addition, this proposal incorporates the new General Studies requirements.

c: Dr. Christina Lavorata  
Dr. Anthony Gilberti  
Dr. Andreas Baur  
Ms. Evie Brantmayer




---

## MEMORANDUM

---

TO: Curriculum Committee

FROM: Jack Kirby 

DATE: December 6, 2012

SUBJECT: Curriculum Proposal #12-13-26

I recommend approval of the attached Curriculum Proposal #12-13-26 from the College of Science and Technology, Department of Biology, Chemistry, and Geoscience.

This proposal reduces the total hours needed for a BS in Chemistry from 128 to 120 by eliminating free elective hours. In addition, this proposal incorporates the new General Studies requirements.

---

c: Dr. Christina Lavorata  
Dr. Anthony Gilberti  
Dr. Andreas Baur  
Ms. Evie Brantmayer

**THIS "SHORT" FORM IS FOR LIMITED USE TO FACILITATE TRANSITION TO THE 120 HOUR BACHELOR DEGREE REQUIREMENT OR 60 HOUR ASSOCIATE DEGREE REQUIREMENT. IT WILL ONLY BE AVAILABLE FOR USE DURING ACADEMIC YEAR 2012-2013.**

**ABBREVIATED CURRICULUM PROPOSAL FORM**

**NOTE:** Submit one hard copy and an electronic copy to the Associate Provost **AT LEAST ONE WEEK PRIOR** to the Curriculum Committee meeting when your proposal is to be reviewed.

**Proposal Number:** 12-13-26

**School/Department/Program:** College of Science and Technology/BCG/Chemistry

**Preparer/Contact Person:** Dr. Andreas Baur

**Telephone Extension:** 4127

**Date Originally Submitted:** 12/06/2012

**Revision (Indicate date and label it  
Revision #1, #2, etc.):** 12/11/2012 revision #1

**Implementation Date Requested:** Fall 2013

**PROPOSAL.** Write a brief abstract, not exceeding 100 words, which describes the overall content of the proposal.

**This proposal reduces the total hours needed for a B.S. degree in Chemistry from 128 hours to 120 hours by eliminating free elective hours. In addition, this proposal incorporates the new General Studies requirements.**

Deletion of course(s) or credit(s) from program(s)

Total hours 8 deleted.

Addition of existing course(s) or credit(s) to program(s)

Total hours 0 added.

**Significant course revisions and/or addition of new courses require the completion of the full, unabridged curriculum proposal which can be found in the Forms Repository.**

B.S. Degree in Chemistry  
Current Program

<b>Required Major Courses</b>		<b>HRS</b>
CHEM 1105	Chemical Principles	5
CHEM 2200	Foundational Biochemistry	4
CHEM 2201	Organic Chemistry I	4
CHEM 2202	Organic Chemistry II	4
CHEM 2205	Analytical Chemistry	4
CHEM 3315	Instrumental Analysis	4
CHEM 3301	Physical Chemistry I	4
CHEM 3304	Inorganic Chemistry	4
CHEM 4404	Synthetic Methods and Materials	4
CHEM 4412	Physical Chemistry II	4
BIOL 3360	Biochemistry	4
PHYS 1101 OR 1105	Introduction to Physics I / Principles of Physics I	4-5
PHYS 1102 OR 1106	Introduction to Physics II / Principles of Physics II	4-5
MATH 1185 OR 1190	Applied Calculus I / Calculus I	4
MATH 1186 OR 3315	Applied Calculus II / Calculus II	4
<b>TOTAL Required Major Courses</b>		<b>61-63</b>
Major Electives		0
Minor Electives		0
<b>TOTAL HOURS FOR MAJOR</b>		<b>61-63</b>
<b>Required General Studies Courses</b>		
First Year Experience		15-16
ENGL	1104 Written English I	3
ENGL	1108 Written English II	3
INFO	1100 Computer Concepts and Applications	3
MATH		3-4
COMM	2200, 2201, OR 2202 Communication	3
Scientific Discovery		8
Cultural / Civilization Exploration		9
Society / Human Interactions		6
Artistic / Creative Expression		6
<b>TOTAL GENERAL STUDIES HOURS</b>		<b>33</b>
<b>TOTAL FREE ELECTIVES</b>		<b>32-34</b>
<b>TOTAL HOURS</b>		<b>128</b>

B.S. Degree in Chemistry  
Proposed Program

<b>Required Major Courses</b>		<b>HRS</b>
CHEM 1105	Chemical Principles	5
CHEM 2200	Foundational Biochemistry	4
CHEM 2201	Organic Chemistry I	4
CHEM 2202	Organic Chemistry II	4
CHEM 2205	Analytical Chemistry	4
CHEM 3315	Instrumental Analysis	4
CHEM 3301	Physical Chemistry I	4
CHEM 3304	Inorganic Chemistry	4
CHEM 4404	Synthetic Methods and Materials	4
CHEM 4412	Physical Chemistry II	4
BIOL 3360	Biochemistry	4
PHYS 1101	Introduction to Physics I / Principles of	
OR 1105	Physics I	4-5
PHYS 1102	Introduction to Physics II / Principles of	
OR 1106	Physics II	4-5
MATH 1185	Applied Calculus I / Calculus I (general	
OR 1190	studies requirement)	X
MATH 1186		
OR 3315	Applied Calculus II / Calculus II	4
<b>TOTAL Required Major Courses</b>		<b>57-59</b>
Major Electives		0
Minor Electives		0
<b>TOTAL HOURS FOR MAJOR</b>		<b>57-59</b>

Continued on the next page.

<b>Required General Studies Courses</b>		
Attribute IA – Critical Analysis		3
	ENGL 2220 or any other in IA	
Attribute IB – Quantitative Literacy		4
	MATH 1185/90	
Attribute IC – Written Communication		3
	ENGL 1104 (students exempt from ENGL 1104 consult academic advisor)	
Attribute ID - Teamwork		X
	Major Course – CHEM 4412 (previously CHEM 3302, *see note on the bottom of the page)	
Attribute IE – Information Literacy		3
	ENGL 1108	
Attribute IF – Technology Literacy		3
	BISM 1200 or any other in IF except ENGL 1109	
Attribute IG – Oral Communication		3
	COMM 2200 or 2201 or 2202	
Attribute III - Citizenship		3
	Any course in III	
Attribute IV - Ethics		3
	ENGL 2220 or any course in IV	
Attribute V - Health		2-5
	PHED 1101 or any other course in V	
Attribute VI - Interdisciplinary		3
	Any course in VI	
Attribute VIIA - Arts		3
	Any course or combination of courses in VIIA	
Attribute VIIB - Humanities		3
	HIST 1107/08 or any other course in VIIB	
Attribute VIIC – Social Sciences		3
	GEOG 2210 or any other course in VIIC	
Attribute VIID - Natural Science		X
	Major Course – CHEM 1105	
Attribute VIII – Cultural Awareness		3
	GEOG 2210 or any course in VIII	
Additional General Studies hours		0
<b>TOTAL GENERAL STUDIES HOURS</b>		<b>42-45</b>
<b>TOTAL FREE ELECTIVES</b>		<b>16-21</b>
<b>TOTAL HOURS</b>		<b>120</b>

\*The course number for Physical Chemistry II changed from Chem 3302 to Chem 4412 during the academic year 2011/12. However, the list of approved courses for general studies still uses the old course number.