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## MEMORANDUM

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TO: Curriculum Committee

FROM: Jack Kirby 

DATE: February 15, 2013

SUBJECT: Curriculum Proposal #12-13-43, REVISION #1  
Final Faculty Senate Approval 3/5/2013

I recommend approval of the attached REVISION #1 of Curriculum Proposal #12-13-43 from the College of Science and Technology, Department of Biology, Chemistry, and Geoscience.

c: Dr. Christina Lavorata  
Dr. Anthony Gilberti  
Dr. Steven Roof  
Ms. Evie Brantmayer  
Ms. Leslie Lovett






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**MEMORANDUM**

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TO: Curriculum Committee  
FROM: Jack Kirby   
DATE: February 7, 2013  
SUBJECT: Curriculum Proposal #12-13-43

I recommend approval of the attached Curriculum Proposal #12-13-43 from the College of Science and Technology, Department of Biology, Chemistry, and Geoscience.

This proposal adjusts the BS in Biology from 128 credit hours to the new HEPC standard of 120 credit hours and incorporates the new General Studies requirements.

c: Dr. Christina Lavorata  
Dr. Anthony Gilberti  
Dr. Steven Roof  
Ms. Evie Brantmayer  
Ms. Leslie Lovett



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:** 12-13-43

**School/Department/Program:** Biology, Chemistry, and Geoscience

**Preparer/Contact Person:** Steven Roof

**Telephone Extension:** 4363

**Date Originally Submitted:** 02/07/2013

**Revision (Indicate date and label it Revision #1, #2, etc.):** Revision 1 02/15/2013

**Implementation Date Requested:** Fall Semester 2013

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

This is a proposal to restructure the biology curriculum to achieve the HEPC 120 credit hour mandate and add the new FSU general studies program.

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

Nine hours of previously required courses for the major (one math course and one chemistry course) have now been moved to fulfill general studies attributes 1B and 7D. Also, there was an error of addition in the 2012-2013 catalog showing the Required Biology Curriculum at 64 hours instead of the actual 63 hours. Thus only 8 hours are being deleted from previously published totals.

Total hours 8 deleted.

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

NA

Total hours \_\_\_\_\_ 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 Biology  
Current Program

<b>Required Major Courses</b>			<b>HRS</b>
BIOL	1105	Biological Principles I	4
BIOL	1106	Biological Principles II	4
BIOL	2202	General Botany	4
BIOL	2203	General Zoology	4
BIOL	3306	Fundamentals of Ecology	4
BIOL	3368 or 3370	Animal or Plant Physiology	4
BIOL	3380	Genetics	4
BIOL	3390	Molecular Biotechnology	4
BIOL	4485	Senior Seminar	2
CHEM	1105	Chemical Principles	5
CHEM	2200	Foundational Biochemistry	4
CHEM	2201	Organic Chemistry I	4
CHEM	2202	Organic Chemistry II	4
<b>TOTAL Required Major Courses</b> (52 = error in the current catalog)			<b>51</b>
Major Electives (three courses from list below)			12
BIOL	2224	Microbiology	4
BIOL	3312	Advanced Botany	4
BIOL	3315	Invertebrate Zoology	4
BIOL	3316	Vertebrate Zoology	4
BIOL	3330	Aquatic Ecology	4
BIOL	3331	Terrestrial Ecology	4
BIOL	3360	Biochemistry	4
BIOL	4420	Developmental Biology	4
Minor Electives			XX
<b>TOTAL HOURS FOR MAJOR</b> (64 = error in the current catalog)			<b>63</b>
<b>Required General Studies Courses</b>			
First Year Experience			16
ENGL	1104	Written English I	3
ENGL	1108	Written English II	3
INFO	1100	Computer Concepts and Applications	3
MATH	1185 or 1190	Calculus I or Applied Calculus I	4
COMM	2200, 2201, OR 2202	Communication	3
Scientific Discovery (Included in this program of study)			XX
Cultural / Civilization Exploration			9
Society / Human Interactions			6
Artistic / Creative Expression			6
<b>TOTAL GENERAL STUDIES HOURS</b>			<b>37</b>
<b>TOTAL FREE ELECTIVES</b> (27 = error in the current catalog)			<b>28</b>
<b>TOTAL HOURS</b>			<b>128</b>

B.S. Degree in Biology  
Proposed Program

<b>Required Major Courses</b>			<b>HRS</b>	<b>Total</b>
BIOL	1105	Biological Principles I	4	
BIOL	1106	Biological Principles II	4	
BIOL	2202	General Botany	4	
BIOL	2203	General Zoology	4	
BIOL	3306	Fundamentals of Ecology	4	
BIOL	3368 or 3370	Animal or Plant Physiology	4	
BIOL	3380	Genetics	4	
BIOL	3390	Molecular Biotechnology (writing intensive)	4	
BIOL	4485	Senior Seminar	2	
<b>TOTAL Required Major Courses</b>				<b>34</b>
Major Electives (three courses from list below)				<b>12</b>
BIOL	2224	Microbiology	4	
BIOL	3312	Advanced Botany	4	
BIOL	3315	Invertebrate Zoology	4	
BIOL	3316	Vertebrate Zoology	4	
BIOL	3330	Aquatic Ecology	4	
BIOL	3331	Terrestrial Ecology	4	
BIOL	3360	Biochemistry	4	
BIOL	4420	Developmental Biology	4	
<b>Total Major Courses</b>				<b>46</b>
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<b>Other Required Support Courses</b>				
CHEM	1105	Chemical Principles	X	(GS hours)
CHEM	2200	Foundational Biochemistry	4	
CHEM	2201	Organic Chemistry I	4	
CHEM	2202	Organic Chemistry II	4	
MATH	1185 or 1190	Applied Calculus I or Calculus I	X	(GS hours)
<b>Total Other Required Support Courses</b>				<b>12</b>
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Minor Electives				<b>XX</b>
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<b>TOTAL HOURS FOR MAJOR</b>				<b>58</b>

**Recommended and Required General Studies Courses**

Attribute IA – Critical Analysis ENGL 2220 World Literature I (or any course that fulfills this attribute)	3
Attribute IB – Quantitative Literacy MATH 1185 – Applied Calculus or MATH 1190 – Calculus I (Required)	4
Attribute IC – Written Communication ENGL 1104 Written English I (Required)	3
Attribute ID – Teamwork COMM 2200 Intro to Human Communications (or any course that fulfills this attribute)	3
Attribute IE – Information Literacy ENGL 1108 – Written English II (Required)	3
Attribute IF – Technology Literacy TECH 1100 Technology and Society (or any course that fulfills this attribute)	3
Attribute IG – Oral Communication COMM 2200 Intro to Human Communications (or any course that fulfills this attribute)	ID
Attribute III – Citizenship POLI 1103 American Government (or any course that fulfills this attribute)	3
Attribute IV – Ethics ENGL 2220 World Literature I (or any course that fulfills this attribute)	IA
Attribute V – Health PHED 1100 Fitness and Wellness (or any course that fulfills this attribute)	2
Attribute VI – Interdisciplinary POLI 1103 American Government (or any course that fulfills this attribute)	III
Attribute VIIA – Arts INTR 1120 Experiencing the Arts (or any course that fulfills this attribute)	3
Attribute VIIB – Humanities INTR 1120 Experiencing the Arts (or any course that fulfills this attribute)	VIIA
Attribute VIIC – Social Sciences GEOG 2210 Introduction to Geography (or any course that fulfills this attribute)	3
Attribute VIID - Natural Science CHEM 1105 – Chemical Principles I (Required)	5
Attribute VIII – Cultural Awareness GEOG 2210 Introduction to Geography (or any course that fulfills this attribute)	VIIC
<b>TOTAL GENERAL STUDIES HOURS</b>	<b>35</b>
<b>TOTAL FREE ELECTIVES</b>	<b>27</b>
<b>TOTAL HOURS</b>	<b>120</b>