

MEMORANDUM

TO:

Debra Jackson, Institutional Effectiveness and Assessment

Robert Jones, Vice President for Academic Affairs and Provost

FROM:

Janice W. Murdoch, Chair, Undergraduate Curriculum Committee

DEAN DATE:

UNDERGRADUATE

STUDIES

Clemson University E101 Martin Hall Box 345105 Clemson, SC 29634-5105

P 864-656-3942 F 864-656-1363 June 25, 2015

SUBJECT:

Administrative Approval of Curriculum Items

The Undergraduate Curriculum Committee met on May 1, 2015 to approve the attached curriculum/course changes received in the Office of the Provost, June 25, 2015. The purpose of this memorandum is to respectfully request that you review this information and concur by giving final signature approval.

APPROVED:

Debra B ach DATE 6 30/ DR. DEBRA JACKSON, INSTITUTIONAL EFFECTIVENESS AND ASSESSMENT

/rft

C: File

Attachments

AGENDA

University Undergraduate Curriculum Committee Meeting

Friday—May 1, 2015 —1:30 PM E304 Martin Hall

- II. Introductions
- III. Consideration of April meeting minutes
- IV. New Business
- V. Old Business
 - A. Course and Curriculum Change System Appling
 - B. Update General Education Assessment Ring

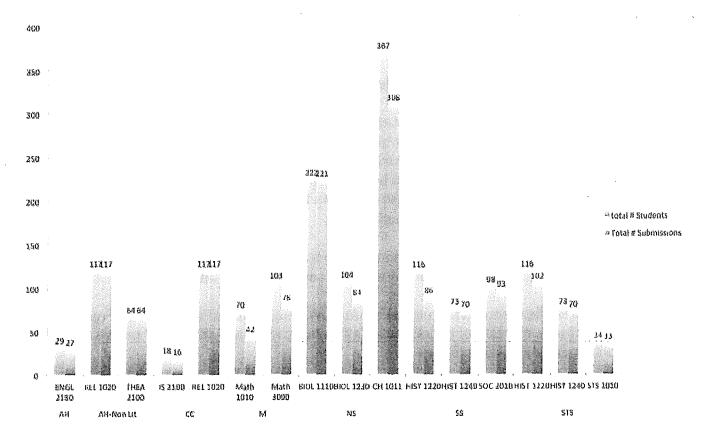
VI. Committee reports

- A. Arts & Humanities Bruce Whisler
- B. Mathematical & Natural Sciences Bob Kosinski
- C. Social Science Laura Olson -
- D. Cross Cultural Awareness Mike Coggeshall
- E. Science & Technology in Society Pam Mack
- F. Ethical Judgment Dan Wueste
- G. Critical Thinking Sarah Winslow
- H. Communication Cameron Bushnell
- VI. Curricula/course approvals attached
- VII. Other business
- VIII. Adjourn

General Education Assessment Pilot Executive Summary

The primary purpose of this study was to review the suggested plan for the assessment of General Education particularly related to collecting evidence, faculty time involved, and the technology used to facilitate this activity. We met monthly either as a group, brown-bag lunches, or one-on-one consultations to monitor the project and document the procedure. Participants were provided professional developments funds and were encouraged take part in the 2015 Summer Assessment. Of the 15 participants, 12 will participate in the 2015 Summer Assessment institute.

Fifteen faculty members participated in the pilot: 7 from AAH, 2 from BBS, 2 from CAFLS, and 3 from CES. Sample courses from all course-related competencies (AH, CC, M, NS, SS, STS) were included in the study. Thirteen courses, some with multiple sections, were included in the study generating 1569 artifacts as presented in the table below. Overall, the submission rate was 89%.



The following methods of uploading artifacts were tested by participants:

- Faculty batch uploads
- Student upload with in-class support from Gail Ring or Bob Brackett
- Student upload with in-class support from the professor

Members Present:

Jan Murdoch, chair; Joe Mazer, Mike Coggeshall; Angela Morgan; Bob Kosinski; Michael Sehorn; Mary Beth Kurz; Brian Dominy; Andy Tyminski; Hugh Spitler; John Whitcomb; Jan Comfort; Cecelia Hamby; Shannon Clark; Pam Mack; David

Knox; Penny Brunner; Jeff Appling; Gail Ring and Rhonda Todd

Guests:

Kristin Goodenow

Murdoch convened the meeting at 1:31 PM

Introductions

Murdoch welcomed the committee.

Approval of minutes

The committee approved the March meeting minutes.

Old Business

A. General Education Assessment – Ring reported that the new system is in place for uploading artifacts. She stated that several faculty members have used the new system without complication. Kosinski stated that he plans to have his laboratory teaching assistants put their students' papers on one computer, and then he will batch upload from there. He asked if it was a problem that the students' names will be on the papers. Ring stated that this should not be a problem since artifacts are chosen at random, and work is not related to an individual student. Ring reported that she currently has eight volunteers for summer assessment. Committee members discussed continuing the process in the fall semester, but members agreed that much would depend on the outcome of the summer assessment.

New Business

- B. Secondary Ed Double Major Issue Hamby explained there are issues with several double major degrees where many of the courses listed are not satisfying the General Education requirement. She stated that this requires an individual substitution for every student. Hamby reported that Stacy Marcus has tried to work with the college to resolve with a blanket substitution, but she was unable to reach an agreement. Goodenow stated that all double majors have this issue with the exception of Math and Biology. Dominy stated that Gowdy plans to work with School of Ed to resolve issues, but the major concern for the college is course equivalency. Murdoch stated that curriculum maps need to change to address any issues for graduating students.
- **B.** Statement added to *Undergraduate Announcements* Murdoch reported that as a matter of information she wanted to share the following statement that has been added to the *Undergraduate Announcements*:

Under the GRADUATION REQUIREMENTS heading, in the catalog: A student may specify up to two completed majors, two minors, and if applicable, two concentration/emphasis areas per degree when applying for graduation. Second (double) majors and additional fields of study will not be retroactively added to a student's record once the degree is conferred.

C. Committee Reports

- a. Arts & Humanities Bruce Whisler
- b. Mathematical & Natural Sciences Bob Kosinski
- c. Social Science Laura Olson
- d. Cross Cultural Awareness Mike Coggeshall
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- f. Ethical Judgment Dan Wueste
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D. Curriculum/course approval – See attached

Other Business

Hamby reported that Cindy Cope had sent an email to deans and associate deans about using a different system for grade corrections to be used in the future. Members of the committee had not seen the email, so Todd agreed to forward the email to the committee following the meeting.

Murdoch reported that SACS recently found out that Clemson gives credit to some GSSM courses, and have expressed concern, so we will be evaluating the process to determine if this needs to stop.

The meeting adjourned at 3:15 PM.

Minutes respectfully submitted by Rhonda Todd

Rhonda Todd

From:

Cecelia Hamby

Sent:

Wednesday, April 01, 2015 4:17 PM

To:

Rhonda Todd; Janice Murdoch

Cc:

Debra Sparacino

Subject:

FW: Sec Ed English double majors

Attachments:

Blanket Substitutions - Chemistry.docx

Rhonda,

In the catalog it states that students majoring in Science Teaching Chemistry, Biology, or Physics can receive a double major in BA/Chemistry, Biology, or Physics. However, there are some issues with the double major in Chemistry and Physics where students are missing several requirements. In the past individual substitutions were processed for students graduating, but in order to streamline the substitutions the College of Education has prepared a blanket waiver to cover these deficiencies. Attached is a draft copy of waiver that was prepared by Stacy Marcus for the College of Education. It appears that the waiver has gotten to a certain point and stopped. Please the email that was received today from Stacy Marcus regarding the status of the waiver. The College is also working on revising their curriculum map to footnote these approved substitutions.

We currently have three students in Science Teaching Chemistry who are registered as a double major and will not be allowed to graduate as a double major if these issues cannot be resolved. I have discussed these issues with Debra and she stated that we needed to bring this to the curriculum committee on Friday.

Cecelia S. Hamby

Academic Records Counselor 104 Sikes Hall Clemson SC 29634 864-656-2174 Enrolled Student Services Records and Registration 102 Sikes Hall Clemson University Clemson, SC 29634

To Whom It May Concern:

For students to receive the Bachelor of Arts double major in Science Teaching: Chemistry and Chemistry, the following courses may substitute for Chemistry BA requirements:

- CH 3300 Introduction Physical Chemistry may be substituted for the CH 3310 Physical Chemistry
 - Rationale: While the approach of the two courses differs in regard to the level of mathematical rigor, the content of the two courses (thermodynamics and chemical kinetics) is very similar. CH 3300 is appropriate for students advancing toward a Science Teaching: Chemistry Bachelor of Arts degree
- EDSC 3270 Practicum in Secondary Science may be substituted for ENGL 3140
 Technical Writing
 - o Rationale: EDSC requires students to observe and reflect on techniques employed by secondary school instructors to teach science. The writing required in this course is technical in the field of study of science teaching majors
- EDSC 4470 Teaching Internship in Secondary Science may substituted for the 6 hour Chemistry requirement
 - O Rationale: Students are required to create and teach chemistry lessons in an assigned public school science classroom
- EDF 3010 Principles of American Education, EDF 3020 Educational Psychology, and EDLT 4980 may substitute for the 9 hour Chemistry arts and humanities/social science requirement
 - o Rationale: students need 9 hours of courses unrelated to the sciences and these courses fill the requirement
- PHYS 2220 Physics with Calculus III may be substituted for the CH 3320 Physical Chemistry
 - o Rationale: Both courses discuss quantum mechanics
- The science teaching statistics requirement may be substituted for the MATH 2060 Calculus of Several Variables requirement
 - Rationale: Students in Science Teaching are not required to take MATH 2060, however are required to take an upper level statistics course to meet the third math requirement in Chemistry
- If students do not have enough hours from excess electives, EDSP 3700 and EDSC 4270 may fill these hours

Rhonda Todd

To:

Rhonda Todd

Subject:

FW: Request for statement to be added to catalog

Happy Friday, Ladies,

I would like to submit the following statement to be inserted in the 1516 undergraduate announcements.

Under the **GRADUATION REQUIREMENTS** heading, in the catalog:

A student may specify up to two completed majors, two minors, and if applicable, two concentration/emphasis areas per degree when applying for graduation. Second (double) majors and additional fields of study will not be retroactively added to a student's record once the degree is conferred.

What is my next step?

LeDon M Wilson

Academic Records Counselor iRoar Implementation Team E-207 Martin Hall Clemson University Clemson, SC 29631-5125 864-656-2306 mwils@clemson.edu

Approved Courses/Curricula April 3, 2015

Co	llege of Architecture, Arts a			
A.	Department of English			
	ENGL 3530	Ethnic Am Lit	3(3,0)	1
	ENGL 3540	Lit Mid East & North Africa	3(3,0)	3
/. Col	llege of Agriculture, Forestr			
A.	Department of Animal a			
	AVS 2020	Introduction to Leadership	2(2,0)	6
	AVS 2021	Introduction to Leadership Laboratory	1(2,0)	8
B.	Department of Biologica			
		BS Biological Science		10
		Biological Sciences		13
	BIOL 4920	Internship in Biological Science		15
c.	Department of Microbio			
	MICR 2050	Introductory Micro		18
	MICR 3050	General Microbiology		20
	MICR 4030/6030	Marine Microbiology	3(3,0)	22
	MICR 4950	Service Learning		24
	MICR 4920	Internship		27
	441	d and not approved at this meeting.		

Approved Courses/Curricula May 1, 2015

			d Humanities			
	A.	Department of Art				
		ART 2050	Beg Life Drawing - change		1	
			Art Minor		3	
	B.	Department of English				
			Creative Writing Minor		5	
		ENGL 4220/6220	Topics in Writing Poetry - new course	3(3,0)	6	
		ENGL 4230/6230	Topics in Writing Fiction - new course	3(3,0)	8	
	-	ENGL 3540	Literature of the Middle East and North Africa - new	3(3,0)	10	
 I.	Colle	ege of Agriculture Forestry	and Life Sciences			
<u>II.</u>	A.	llege of Agriculture, Forestry and Life Sciences Department of Animal and Vet Sciences				
	1	AVS 2020	CAFLS Plus Lecture	3(2,0)	13	
_		AVS 2021	CAFLS Plus Lab	0(2,0)	19	
				-(-/-/		
	B.	Department of Biochemistry				
		BCHM 3010	Molecular Biochem - change prerequisites		25	
		BCHM 3050	Essen Elements Bioch - change prerequisites		27	
		MICR 4501	Adv Micro Lab I - change objectives, outline	3(3,0)	29	
		MICR 4511	Adv Micro Lab II - change objectives, outline	3(3,0)	32	
		MICR 4521	Adv Micro Lab III - change objective, outline	3(3,0)	35	
_	T	GEN 3010	Fundament Gen Lab - delete course	- \- / - /	38	
	1	BCHM 3060	Essen Elem Bio Lab - delete course		40	
	1	GEN 3030	Molec & General Genetics lab - delete course		42	
	+	BCHM 3020	Molec Bioch Lab - delete course		44	
	-	BCHM 4910	Dir Research Biochemistry - change modifier, catalog descr	inton		
*****	-	GEN 4910	Dir Res in Genetics - change modifier, catalog description	рын	46	
		OLN 4310	Dir Nes in Genetics - Change Mounter, Catalog description		48	
	C.	Department of Food Science				
		FDSC 2010	Man and His Food - change method, credit, descrip, prere	3(2,3)	50	
	T	FDSC 2011	Introduction to Food Laboratory - new course	0(0,3)	53	
	1	NUTR 2160	Evidence Based Nutrition - change	0(0)0)	55	
		NUTR 3010	Food and Culture - new course	3(3,0)	57	
	-	NUTR 3020	Nutrition Assessment - new course	4(3,0)	60	
	-	NUTR 3021	Nutrition Assessment Lab - new course	0(3,0)	62	
	1	FDSC 4070/6070	Quantity Food Production - change	0(3,0)	64	
		FDSC 4070/6070	Quantity Food Production Lab - change			
					67	
	-	NUTR 4270	Nutrition Counseling - change	2/2.0	70	
		NUTR 4510/6510	Human Nutrition - change title, descript, prerequisite	3(3,0)	73	
		NUTR 4550/6550	Nutr Metabolism - change title, descrip, prerequisite	3(3,0)	75	
			BS Food Science - change major		77	
			BS Nutrition and Dietetics - change major		80	
			Overview of Nutrition Curriculum		86	
I.	Scho	ol of Education				
••	A.	Elementary Education				
		EDEL 4510	Elem Methods in Science Tchg change prerequisite		87	
		EDEL 4870	Ele Meth Social Studies - change prerequisite		87 89	
		EDEL 4870 EDSP 4900				
		· · · · · · · · · · · · · · · · · · ·	Teaching Writing to Students with Disabilities		91	
_		EDLT 4800	Foundations in Adolescent Literacy - new course		94	
	Colle	ge of Business and Behavio	ral Science			
	A.	Economics				
	-	ECON 4050/6050	Intro to Econometrics - change prerequisites	4(3,3)	97	
			and the manufacture of the manuf	,(3,3)		
·.	Colle	llege of Engineering and Science				
•						
•	A.	Bioengineering BIOE 4510	Creative Inquiry Bioengineering- change catalog description			

	E	SIOE 4910	Research in Bioengineering- change catalog description	1-6	101
B.	Chemistr	ν			
		CH 4360/6360	Computational Quantum Chemistry- new course	3(3,0)	103
C.	Environmental Engineering and Earth Science				
		E 4150/6150	Biosystems Engineering- change credit and prerequisiste	3(3,0)	105
D.	General I	Engineering			
	E	NGR 1000	Major Discovery Seminar- new course		109
	E	NGR 1060	Engineering Discipline and Skills II- change prerequisiste		111
	E	NGR 1070	Programming and Problem Solving I- change prerequisite		113
	E	NGR 1080	Programming and Problem Solving II- change prerequisite		115
	E	NGR 1090	Prog/Problem Solving Apps- change prerequisite		117
	E	NGR 1490	Introduction to Engineering- change prerequisite		120
	E	NGR 1510	Engineering Skills- change prerequisite		121
	E	NGR 1520	Engineering Computer Skills- change prerequisite		123
	E	NGR 1530	Engineering Foundation Skills- change prerequisite		125
	E	NGR 1640	Summer MATLAB Programming- change prerequisite		127
E.	Industria	Engineering			
	18	4460/6460	new course, change catalog description, and prerequisite	3(3,0)	129
	IE	4810/6810	new course, change catalog description, and prerequisite		132
F.	Math Scie	ences			
	S	TAT 4020	Introduction to Statistical Computing- change prerequisite	2	134
G.	Mechanical Engineering				
	N	1E 4000	Senior Seminar- change prerequisite	1(1,0)	136
	N	1E 4560/6560	Additive Manufacturing- new course	3(2,3)	137