

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

DATE: October 22, 2014

SUBJECT: Administrative Approval of Curriculum Items

DEAN
UNDERGRADUATE
STUDIES

Clemson University
E101 Martin Hall
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Clemson, SC
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The Undergraduate Curriculum Committee met on October 3, 2014 to approve the attached curriculum/course changes received in the Office of the Provost, October 20, 2014. The purpose of this memorandum is to respectfully request that you review this information and concur by giving final signature approval.

APPROVED:

 DATE 10/27/14
DR. DEBRA JACKSON, INSTITUTIONAL EFFECTIVENESS AND ASSESSMENT

 DATE 11/5/14
DR. ROBERT JONES, VICE PRESIDENT FOR ACADEMIC AFFAIRS & PROVOST

/rft

C: File

Attachments

AGENDA
University Undergraduate Curriculum Committee Meeting
Friday—October 3, 2014 —1:30 PM
E304 Martin Hall

- I. **Call to order**
- II. **Introductions**
- III. **Consideration of September meeting minutes**
- IV. **New Business**
- V. **Old Business**
 - A. Proposed General Education Assessment Protocol
 - B. General Education Attributes
 - C. Internships
- 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**

Agenda Courses/Curricula
 October 3, 2014
 University Undergraduate Curriculum Committee

I. College of Art, Architecture, and Humanities			
A. Department of English			
ENGL 3150	Sci Writing & Comm - change prerequisite		1
ENGL 4000/6000	The English Language - change prerequisite		3
ENGL 4010/6010	Grammar Survey - change prerequisite		5
ENGL 4070/6070	The Medieval Period - change prerequisite		7
ENGL 4080/6080	Chaucer - change prerequisite		9
ENGL 4100/6100	Drama of Engl Renaiss - change prerequisite		11
ENGL 4110/6110	Shakespeare - change prerequisite		13
ENGL 4140/6140	Milton - change prerequisite		15
ENGL 4150/6150	Restoration and 18th Century - change prerequisite		17
ENGL 4160/6160	The Romantic Period - change prerequisite		19
ENGL 4170/6170	The Victorian Period - change prerequisite		21
ENGL 4180/6180	The English Novel - change prerequisite		23
ENGL 4190/6190	Postcolonial and World Lits - change prerequisite		25
ENGL 4200/6200	American Literature - change prerequisite		27
ENGL 4210/6210	American Lit from 1800 to 1899 - change prerequisite		29
ENGL 4250/6250	The American Novel - change prerequisite		31
ENGL 4260/6260	Southern Literature - change prerequisite		33
ENGL 4280/6280	Contemporary Literature - change prerequisite		35
ENGL 4290/6290	Dramatic Literature I - change prerequisite		37
ENGL 4300/6300	Dramatic Literature II - change prerequisite		39
ENGL 4310/6310	Modern Poetry - change prerequisite		41
ENGL 4320/6320	Modern Fiction - change prerequisite		43
ENGL 4330/6330	The Anglo-Irish Lit Tradition - change prerequisite		45
ENGL 4340/6340	Environmental Literature - change prerequisite		47
ENGL 4350/6350	Literary Criticism - change prerequisite		49
ENGL 4360/6360	Feminist Literary Criticism - change prerequisite		51
ENGL 4370/6370	Directed Studies - change prerequisite		53
ENGL 4400/6400	Literary Theory - change prerequisite		55
ENGL 4410/6410	Literary Editing - change prerequisite		57
ENGL 4420/6420	Cultural Studies - change prerequisite		59
ENGL 4440/6440	Renaissance Literature - change prerequisite		61
ENGL 4450/6450	Fiction Workshop - change prerequisite		63
ENGL 4460/6460	Poetry Workshop - change prerequisite		65
ENGL 4470/6470	Playwriting Workshop - change prerequisite		67
ENGL 4480/6480	Screenwriting Workshop - change prerequisite		69
ENGL 4490/6490	Creative Non-Fiction - change prerequisite		71
ENGL 4500/6500	Film Genres - change prerequisite		73
ENGL 4510/6510	Film Theory and Criticism - change prerequisite		75
ENGL 4520/6520	Great Directors - change prerequisite		77
ENGL 4530/6530	Sexuality and the Cinema - change prerequisite		79
ENGL 4550/6550	American Humor - change prerequisite		81
ENGL 4560/6560	Lit and Arts of the Holocaust - change prerequisite		83
ENGL 4590/6590	Special Topics in Language - change prerequisite		85
ENGL 4600/6600	Issues in Writing Technologies - change prerequisite		87
ENGL 4630/6630	Topics in Literature to 1699 - change prerequisite		89
ENGL 4640/6640	Topics in Lit from 1700 to 1899 - change prerequisite		91
ENGL 4650/6650	Topics in Literature from 1900 - change prerequisite		93
ENGL 4750/6750	Writing for Electronic Media - change prerequisite		35
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ENGL 4850/6850	Comp and Lang Stud for Teachers - change prerequisite		103
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ENGL 4880/6880	Genre and Activity Theory - change prerequisite		107
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	ENGL 4900/6900	Adv Tech and Business Writing - change prerequisite		111
	ENGL 4910/6910	Classical Rhetoric - change prerequisite		113
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	ENGL 4940/6940	Writing About Science - change prerequisite		117
	ENGL 4950/6950	Technical Editing - change prerequisite		119
	ENGL 4980/6980	Writing Center Theory and Pract - change prerequisite		121
		English Major - BA - change curriculum requirements		123
B. Department of Languages				
	EAS 1120	Intro to Japanese Lang and Culture - new course	3(3,0)	130
C. Department of Productions Studies in the Performing Arts				
		Theatre Minor - change curriculum requirements		133
II. College of Agriculture, Forestry and Life Sciences				
A. Biological Sciences				
	BIOL 3150	Functional Human Anatomy - change prerequisite	4(3,3)	134
	BIOL 3160	Human Physiology - change prerequisite	4(3,3)	135
		Change of major- Biological Sciences BA		137
		Change of major - Biological Sciences BS		139
B. Microbiology				
	MICR 4100/6100	Soil Microbiology - change prerequisite	3(3,0)	136
III. College of Health and Human Development				
A. Health Science				
	HLTH 4800	Comm, Hlth Promotion - change prerequisite		140
	HLTH 4750	Hlth Operations Mgmt Resource - change prerequisite		142
	HLTH 4200	Hlth Science Intern - change prerequisite		144
	HLTH 4190	Hlth Science Intern Prep Sem - change prerequisite		146
IV. Miscellaneous - Creative Inquiry				
	CU 1200	CI Solving Big Problems - new course	1(1,0)	148
	CU 2200	CI Innovation and Opportunity Feasibility	3(3,0)	150
V. College of Engineering and Science				
A. Bioengineering				
	BIOE 4400/6400	Biotechnology for Bioengineers - change catalog title, change transcript title, change catalog description	3(3,0)	152
B. Chemistry				
	CH 1010/H1010/101	General Chemistry - change prerequisite	4(3,3)	154
	CH 4010/6010	Organometallic Chemistry - change prerequisite	3(3,0)	155
	CH 4020/6020	Inorganic Chemistry - change prerequisite	3(3,0)	156
	CH 4040/6040	Bioinorganic Chemistry - change prerequisite	3(3,0)	157
	CH 4110/6110	Instrumental Analysis - change prerequisite	3(3,0)	158
	CH 4140/6140	Bio analytical Chemistry - change prerequisite	3(3,0)	159
	CH 4210/6210	Advanced Organic Chemistry - change prerequisite	3(3,0)	160
	CH 4250/6250	Medicinal Chemistry - change prerequisite	3(3,0)	162
	CH 4270/4271/6270	Organic Spectroscopy - change prerequisite	3(2,3)	163
	CH 4350/6350	Atomic and Molecular Structure - change prerequisite	3(3,0)	164
	CH 4510/6510	Frontiers in Polymer Chemistry - change prerequisite	3(3,0)	165
C. Environmental Engineering and Science				
	EES 3100	Intro to Nuclear Engineering - new course	3(3,0)	166
	EES 4120	Nuclear Fuel Cycle and Radioactive Waste Mgmt - new co	3(3,0)	169
	EES 4500	Professional Seminar - change prerequisite	1(1,0)	172
	EES 4750	Capstone Design Project - change prerequisite	3(1,6)	173

Agenda Courses/Curricula

October 3, 2014

University Undergraduate Curriculum Committee

D. Materials and Science and Engineering					
		MSE 2100	Introduction to Materials Science - change prerequisite	3(3,0)	174
		MSE 3280	Phase Diagrams for Materials Processing and Applications	3(3,0)	175
		MSE 3950/H3950	Honors Research I - change prerequisite	3(0,0)	176
		MSE 4020/6020	Solid State Materials - change prerequisite	3(3,0)	177
		MSE 4070/4071	Senior Capstone Design - change prerequisite	3(1,6)	178
		MSE 4150/6150	Introduction to Polymer Science and Engineering - change	3(3,0)	179
		MSE 4450	Proactive of Materials Engineering - change prerequisite	1(1,0)	180
		MSE 4900/6900	Selected Topics in Materials Science and Engineering - change prerequi		181
E. Physics and Astronomy					
		PHYS 2000	Introductory Physics - change catalog description	4(3,2)	182
		PHYS 3000	Introduction to Research - change prerequisite and chang	2(2,0)	183
		PHYS 4650/6650	Thermodynamics and Statistical Mechanics - change prer	3(3,0)	185
			Physics BS - change curriculum requirements		186
			Add, change, or delete emphasis area		

University Undergraduate Curriculum Committee
Minutes Meeting
E304 Martin Hall
September 5, 2014, 1:30 PM

Members Present: Jan Murdoch, chair; Joe Mazer, Graciela Tissera, Mike Coggeshall; Angela Morgan; Bob Kosinski; Cheryl Ingram-Smith; Mary Beth Kurz; Andy Tyminski; John Whitcomb; Gordon Cochran; Matt Abrams; Jeff Appling; Cecilia Hamby; Shannon Clark; Donna Barrett; Pam Mack; David Knox; Dan Wueste; and Rhonda Todd

Murdoch convened the meeting at 1:31 PM

Introductions

Murdoch welcomed the committee. Introductions were made.

Approval of minutes

The committee approved the May meeting minutes.

New Business

- A. Proposed General Education Assessment Protocol** (attached) – Murdoch thanked Kosinski and Dominy for their work on this proposal over the summer. Kosinski reminded the committee, with the elimination of the ePortfolio as a graduation requirement there became an issue of proper assessment of General Education. He reported that summer workshops provided an opportunity for them to work on this proposal. Kosinski stated for this proposal to work, faculty must be familiar with the competencies associated with the course they teach. The committee discussed ideas for reporting artifacts. Murdoch requested that committee members carry this proposal back to their colleges.
- B. SACSCOC New Policy Statement** (attached) – Appling reported that he provided a sample of the new policy statement. The statement must appear in any new curriculum and Shannon Clark will make changes as needed for the catalog.
- C. General Education Subcommittee** – Todd provided a copy of the General Education Subcommittee members for the committee. Several corrections were discussed. Todd agreed to redistribute to the committee after the meeting.
- D. General Education Attributes** – Appling reported that this information is not currently available in iRoar. He stated that he populated this list for faculty to evaluate these courses to see if some may need to be deleted, and/or other courses added. The committee expressed concern about how to get faculty to seriously evaluate the acquisition of the competency. Murdoch encouraged committee members to communicate to faculty that courses that do not meet the competency will not be approved by the college or university curriculum committee.
- E. Internships** – Appling reported that courses involving internships are taught fall, spring and summer semesters. Many of these courses have no academic content, but course credit is given. Appling stated that these courses need to be evaluated, a standard set, or guideline established for these internship courses. Murdoch suggested a subcommittee to review and evaluate such courses, and provide some guidelines. Volunteers were Jeff Appling, John Whitcomb, Matt Abrams, Angela Morgan, and someone suggested Katherine Mobley.

C. Committee Reports

- a. Arts & Humanities – Bruce Whisler – The subcommittee suggested denying approval of EAS 1110 for AAH non-lit course credit.
- 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

D. Curriculum/course approval – See attached

Other Business

Committee members discussed issues with the new Course and Curriculum Change System. Appling confirmed that CCIT is ironing out problems, and he recently attended a meeting for phase II. Morgan wanted to know if they can continue to use the old system for a while until issues are resolved. Appling confirmed that the old system is still up and running, but encouraged everyone to use the new system when possible.

Murdoch stated that academic and professional development is not part of General Education credit according to SACS, so if academic and professional development remains part of the programming, we must determine a new way to assess the outcomes.

The meeting adjourned at 3:10 PM.

Minutes respectfully submitted by Rhonda Todd

27 August 2014

PROPOSAL

TO: the University Undergraduate Curriculum Committee

FROM: the “Process” Subcommittee of the Gen Ed Assessment Working Group

SUBJECT: Proposed Gen Ed Assessment Protocol

The end of the ePortfolio graduation requirement means that Clemson must devise a new method to determine whether Gen Ed courses are successfully teaching Gen Ed competencies. The Gen Ed Assessment Working Group is leaning towards requiring Gen Ed courses to give assignments that could demonstrate a competency and then having them submit all or a random sample of the resulting artifacts for later faculty evaluation.

However, this means that more responsibility will shift to the faculty who teach Gen Ed courses. Gen Ed faculty must be aware of the requirements of the competency and the characteristics of a valid artifact.

We suggest that the group propose the following six policies for approval by the University Undergraduate Curriculum Committee:

- a) **Gen Ed faculty need to be aware of the requirements of the competency their courses are teaching** (see example on next page);
- b) **To maintain its Gen Ed status, a Gen Ed course or its laboratory component must give at least one assignment that could potentially demonstrate the competency the course claims to be teaching. This includes both Gen Ed courses listed in the *Announcements* and distributed competency courses listed by departments in their Gen Ed Checklists;**
- c) **This assignment should be designed so it is consistent with the text of the Gen Ed competency and its evaluation rubric;**
- d) **The faculty member teaching the Gen Ed course should give each artifact its normal grade within the course, and then a sample of student artifacts should be submitted (either by the faculty member or by the students themselves) to an “Artifact Repository” where they will be accessible to evaluators;**
- e) **Feedback on evaluation of artifacts from a course should be communicated to the responsible Gen Ed faculty member and to his/her department and college;**

- f) **If the course meets its goals, no response from the instructor is necessary. If it does not meet its goals, the instructor should inform the departmental assessment committee what steps he/she intends to take. These might include modifying the course, starting the process to modify of the competency, or relinquishing the course's Gen Ed status.**

Example of Information Sent to Gen Ed Faculty Member

The following information might be sent to Gen Ed faculty whose courses are responsible for the Natural Sciences competency:

Text of the competency:

Demonstrate the process of scientific reasoning by performing an experiment and thoroughly discussing the results with reference to the scientific literature, or by studying a question through critical analysis of the evidence in the scientific literature.

A successful artifact will:

Exhibit understanding (appropriate for the course level) of the scientific principles behind the experiment or literature survey;
Formulate clear, falsifiable hypotheses;
If reporting on an experiment, use an experimental design capable of testing the hypotheses;
Collect adequate data;
Analyze the data appropriately;
Draw conclusions supported by the data;
Discuss the broader implications of the study.

Further tips to the instructor:

- The typical artifact is a report on a formal laboratory or field study. An artifact of this kind will report on a scientific experiment in which a hypothesis is tested, data are analyzed, and conclusions are drawn about the correspondence of the results to expected outcomes or values.
- Non-experimental (literature survey) papers may be submitted if they critically review natural science research, discuss and analyze issues raised by that research, and are best if they propose questions which arise from this analysis.
- The student's understanding of the science behind the experiment or literature should be evident in the artifact. Artifacts that do not demonstrate scientific knowledge will be regarded as inadequate.
- Worksheets, short-answer assignments, descriptions of routine measurement techniques, book reports, PowerPoint presentations, and lesson plans cannot demonstrate the Natural Sciences competency.

SACSCOC New Policy Statement

Given the SACSCOC CORE Requirement 2.7.1 related to the 150 hours for a combined Bachelor/Master's degree, we need to add a clarification into the policies in the graduate and undergraduate announcement related to the combined degree. I have included the SACSCOC statement below as a reminder. Remember a core requirement must be met in order to be reaffirmed.

From Undergraduate Announcements:

Combined Bachelor's/Master's Plan

Students may reduce the time necessary to earn both degrees by applying graduate credits to both undergraduate and graduate program requirements.

To be eligible, the student must have completed the bachelor's curriculum through the junior year (minimum 90 credits) and have a minimum overall grade-point average of 3.4. A maximum of 12 credit hours of graduate courses in the master's program may be applied to the bachelor's program.

The combined bachelor's/master's degree (documented on GS6BS/MS) must have a minimum combined total of 150 credit hours. This total may contain a maximum of 6 credit hours of thesis research and all credit hours taken after receiving the baccalaureate degree must be at the 6000 level or higher.

As determined by the participating bachelor's program, graduate courses may be applied to the bachelor's degree as electives or technical requirements or by substitution of 7000- or 8000-level courses for required undergraduate courses. Under no circumstances can 6000-level counterparts of 4000-level courses required for the bachelor's degree be counted toward master's requirements. Combined bachelor's/master's plan students are not eligible for graduate appointments for financial aid until their bachelor's degrees have been awarded.

2014-2015

GENERAL EDUCATION SUBCOMMITTEES

Arts & Humanities						
Joe Mazer	jmazer@clemons.edu	404 Strode Tower	656-5254	Assistant Professor	Communication Studies	
Eric Touya	etouya@clemons.edu	505 Strode Tower	656-3540	Assistant Professor	Languages	
Bruce Whisler	bwhisler@clemons.edu	615 Brooks Cent	656-0172	Assistant Professor	Performing Arts	
Mathematics & Natural Science						
Bob Kosinski	rkosn@clemons.edu	147 Long Hall	656-3830	Professor	Biological Science	
Brian Dominy	bdominy@clemons.edu	367 Hunter Lab	656-7702	Associate Professor	Chemistry	
Calvin Williams	calwinw@clemons.edu	O-323 Martin Hall	656-5241	Associate Professor	Mathematical Sciences	
Social Sciences						
Laura R. Olson	lauraol@clemons.edu	230-G Brackett Hall	656-1457	Professor	Political Science	
June Pilcher	jpilche@clemons.edu	410C Brackett Hall	656-4985	Professor	Psychology	
John M. Coggeshall	raucus@clemons.edu	137 Brackett Hall	656-3822	Professor	Sociology & Anthropology	
Cross-Cultural Awareness						
John M. Coggeshall	raucus@clemons.edu	137 Brackett Hall	656-3822	Professor	Sociology & Anthropology	
Yanhua Zhang	yzhang@clemons.edu	313 Strode Tower	656-5387	Associate Professor	Languages	
James M. Burns	burnsj@clemons.edu	120 Hardin Hall	656-5359	Associate Professor	History	
Science, Technology, and Society						
Pamela Mack	pmack@clemons.edu	B-06 Hardin Hall	656-5356	Associate Professor	History	
Ian Walker	iwalker@clemons.edu	320 Fluor Daniel	656-7209	Professor	Electrical & Computer Engineering	
Christine Minor	minorc@CLEMSON.EDU	330-C Long Hall	656-3837	Senior Lecturer	Biological Science	
Ethical Judgement						
Daniel (Dan) Wueste	ernest@clemons.edu	242 Hardin Hall	656-6147	Associate Professor	Philosophy and Religion	
Critical Thinking						
Sarah Winslow	swinslo@clemons.edu	135A Brackett	656-3819	Associate Professor	Sociology & Anthropology	
Communication						
Cameron Bushnell	cbushne@clemons.edu	804 Strode Tower	656-3151	Associate Professor	English	

Approved Courses/Curricula
October 3, 2014
University Undergraduate Curriculum Committee

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A. Department of English				
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A.	Bioengineering			
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Approved Courses/Curricula

October 3, 2014

University Undergraduate Curriculum Committee

D.		Materials and Science and Engineering		
		MSE 2100	Introduction to Materials Science - change prerequisite	3(3,0) 174
		MSE 3280	Phase Diagrams for Materials Processing and Applications	3(3,0) 175
		MSE 3950/H3950	Honors Research I - change prerequisite	3(0,0) 176
		MSE 4020/6020	Solid State Materials - change prerequisite	3(3,0) 177
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		MSE 4150/6150	Introduction to Polymer Science and Engineering - change	3(3,0) 179
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E.		Physics and Astronomy		
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