



MEMORANDUM

TO: Debra Jackson, Institutional Effectiveness and Assessment
Doris R. Helms, Vice President for Academic Affairs and Provost
James F. Barker, President

DEAN
UNDERGRADUATE
STUDIES

FROM: Janice W. Murdoch, Chair, Undergraduate Curriculum Committee *JWM*

DATE: November 27, 2012

SUBJECT: Administrative Approval of Curriculum Items

Clemson University
E101 Martin Hall
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The Undergraduate Curriculum Committee met on November 2, 2012 to approve the attached curriculum/course changes received in the Office of the Provost, November 27, 2012. The purpose of this memorandum is to respectfully request that you review this information and concur by giving final approval.

APPROVED:

Debra S Jackson DATE 1/14/13
DR. DEBRA JACKSON, INSTITUTIONAL EFFECTIVENESS AND ASSESSMENT

Doris R Helms DATE 2/3/13
DR. DORIS HELMS, VICE PRESIDENT FOR ACADEMIC AFFAIRS & PROVOST

Doris R Helms for James F Barker DATE 2/3/13
JAMES F. BARKER, PRESIDENT CLEMSON UNIVERSITY

/rft

C: File

Attachments

AGENDA
University Undergraduate Curriculum Committee Meeting
Friday—November 2, 2012—1:30 PM
E304 Martin Hall

- I. Call to order**
- II. Introductions**
- III. Consideration of October meeting minutes**
- IV. Old Business**
 - A. iRoar Update - Julie Pennebaker**
 - B. QEP Update - Jan Murdoch**
 - C. Revision to Critical Thinking Competency**
- V. New Business**
 - A. Committee Reports**
 - a. Arts & Humanities - Bruce Whisler**
 - b. Mathematical & Natural Sciences - Bob Green**
 - 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 - Michael LeMahieu**
- VI. Curricula/course approvals - attached**
- VII. Other business**
- VIII. Adjourn**

Agenda Courses/Curricula
November 2, 2012
University Undergraduate Curriculum Committee

I. College of Agriculture, Forestry, and Life Sciences

A. Agricultural Mechanization and Business

AGM 319	Agribusiness Decision Analysis - new course	3(3,0)	1
AGM 400	Senior Seminar - new course	1(0,2)	3
	Agricultural Mech and Business - change curriculum requirement		5

B. Animal & Veterinary Sciences

AVS 204	Horse Care Technique - change prerequisites	2(1,2)	7
AVS 205	Horsemanship I - change catalog description	2(0,4)	9
AVS 207	Horsemanship II - delete course		11
AVS 209	Livestock Exhib Tech - change prerequisites	2(1,2)	12
AVS 211	Meat Processing Technique - new course	2(1,2)	14
AVS 417/617	Ani Agribus Develop - change prerequisites	2(1,2)	16
	Animal & Veterinary Sciences - change curriculum requirements		18
	Animal & Veterinary Sciences - change curriculum requirements		21
	Animal & Veterinary Sciences - change curriculum requirements		24

C. Soils & Sustainable Crop Systems

CSENV 455	Seminar - change catalog description	1(1,0)	27
SSCS 101	Surv Soil & Sus Crop - change catalog description	1(1,0)	29
SSCS 102	Acad Prof Dev I - delete		31
SSCS 401	Acad Prof Dev II - change catalog title	1(1,0)	32
	SSCS (Agricultural Biotechnology) - change curriculum requirements		33
	SSCS (Soil/Water Environmental Sci) - change curriculum requirements		35
	SSCS (Sustainable Crop Production) - change curriculum requirements		37

D. Horticulture

HORT 409	Seminar - change catalog title, description, method of instruction, prerequisites	1(1,0)	39
	Horticulture - change curriculum requirements		41
PL PA 310/H310	PL Diseases & People	3(2,3)	46
PL PA 411/611	Plant Dis Dial I - change credit	2(1,3)	47

E. Food Science

NUTR 204	Nutrition Across the Life Cycle - new course	3(3,0)	49
NUTR 427	Nutrition Counseling - new course	1(1,0)	51
	Food Science - change concentration		53
	General Education Checklist - Food Science		55

II College of Architecture, Arts and Humanities

A. Pan African Studies

	Pan African Studies (BA) - new major		57 ✓
	General Education Checklist		61
PAS 400	Hip Hop and African American Contemporary Culture - new	3(3,0)	63
PAS 468	Comparative Racism and Discrimination - new course	3(3,0)	66

B. Performing Arts

	Prod Studio Perf Arts (Music) - change curriculum requirements		69
	General Education Checklist (Music)		74
	Music Minor - change minor requirement		75
MUSIC 142	Music Fundamentals - change catalog title and description		76
	change prerequisites	3(3,0)	76
MUSIC 143	Aural Skills I - new course	1(0,2)	78
MUSIC 144	Music Theory II - new course	3(3,0)	80
MUSIC 145	Aural Skills II - new course	1(0,2)	82

	MUSIC 242	Music Theory - change catalog title, description, prerequisites	3(3,0)	84
	MUSIC 243	Aural Skills - change catalog title, description, prerequisites	1(0,2)	86
	MUSIC 246	Accel Music Theory I - delete course		88
	MUSIC 247	Accel Aural Skill I - delete course		89
	MUSIC 248	Accel Mus Theory III - delete course		90
	MUSIC 249	Accel Aural Skill II - delete course		91
	MUSIC 310	Survey of Music Hist - delete course		92
		Prod Studio Perf Arts (Audio) - change curriculum requirements		93
		General Education Checklist (Audio Technology)		96
	AUDIO 380	Audio Engineering I - change prerequisites	3(2,2)	97
	AUDIO 480	Audio Engineering II - change prerequisites	3(2,2)	98
	AUDIO 499/699	Independent Study - new course	1-3(1-3)	99
		Prod Studio Perf Arts (Theatre)-change curriculum requirements		101
		General Education Checklist (Theatre)		108
		Theatre - change minor requirement		109
C.	English			
	ENG 355	Popular Culture - change catalog title, description, prerequisites	3(3,0)	110
	ENG 443	Theories of World Literature - new course	3(3,0)	112
III	College of Engineering & Science			
A.	Bioengineering			
		Bioengineering - change curriculum requirements		114
B.	Chemistry			
	CH 401/H/601	Organometallic Chemistry	3(3,0)	120
C.	Civil Engineering			
		Civil Engineering - change curriculum requirements		122
	CE 321	Geotechnical Engr. - change prerequisites	4(3,3)	126
	CE 351	Civil Engr. Materials - change prerequisites	4(3,3)	127
	CE 437/637	Sustainable Energy Project - new course	3(3,0)	129
D.	Computer Science			
		Computer Science (BA) - change curriculum requirements		131
		Computer Information Systems - change curriculum requirement		133
E.	Electrical & Computer Engineering			
	ECE 311	Elec Engr Lab III - change prerequisites	1(0,1)	135
F.	Environmental Engineering & Earth Science			
		Environmental Engineering - change in curriculum		136
G.	General Engineering - Catalog changes			
	CES 101	Engr with Recitation - delete course		142
	ENGR 150	Intro to Materials - delete course		143
	EG 490	Top Engr/Comp Graph - delete course		144
		EG 208/H208/L208/209/L209/210/H210/L210 - change department abbreviation		145
		CES 102/H102/L102 - change department abbreviation		146
H.	Industrial Engineering			
	IE 201	System Design - change catalog title	4(3,3)	147
	IE 280	OP Res Methods I - change catalog title	3(3,0)	148
	IE 360	DES/CON of Ind Sys I - change catalog title	3(3,0)	149
	IE 361	DES/Con of Ind Sys II - change catalog title	3(3,0)	150
	IE 381	OP RES Methods II - change catalog title	3(3,0)	151
	IE 430/630	Intro to HC Sys-change catalog title/description/prerequisites	3(3,0)	152
	IE 452/652	Reliability Eng - change prerequisites	3(3,0)	154

Agenda Courses/Curricula

November 2, 2012

University Undergraduate Curriculum Committee

IE 456/656	Supply Chain Design - change prerequisites	3(3,0)	155
IE 460/660	Qual Imp Meth - change prerequisites	3(3,0)	156
IE 465/665	Facil Plan & Des - change prerequisites	3(3,0)	157
IE 487/687	Industrial Safety - change prerequisites	3(3,0)	158
IE 489/689	Ind Ergo and Auto - change prerequisites	3(2,3)	159
I. Mechanical Engineering			
	Mechanical Engineering - change curriculum requirements		160
J. Material Science & Engineering			
MS&E 250	Poly & Fib Sci I - change of catalog title	3(3,0)	162
MS&E 407	Senior Capstone Des. - change method of instruction	3(1,6)	163
MS&E 456/656	Poly & Fib Sci II - change of catalog title and transcript title	3(2,2)	165
MS&E 461/H461	Poly & Feb Sci III - change of catalog and transcript title	3(2,2)	166
MS&E 491	Undergrad Research - change method of instruction, course modifier, and catalog description	3(3,0)	167
IV. College of Health, Education, and Human Development			
NURS 350	Tech & Phil in Nurs - delete course		169
NURS 485	Nurse Extern Pract - delete course		170
NURS 317	Nursing Development - delete course		171
NURS 313	Hlth Assmt/Lifespan - delete course		172
V. College of Business and Behavioral Science			
A. Management			
MGT 440	Negotiations - new course	3(3,0)	173
B. Military Leadership			
ML 211	Cadet Fld Lead Train - delete course		182
	Military Leadership - change minor requirement		183

University Undergraduate Curriculum Committee
Minutes Meeting
E304 Martin Hall
October 5, 2012

Members Present: Jan Murdoch, chair; Michael Silvestri; Eric Touya; Mike Coggeshall; Angela Morgan; Bob Kosinski; Mary Beth Kurz; Brian Dominy; Bob Horton; Roxanne Amerson; Gordon Cochran; Perry Austin; Jeffrey Appling; Cecelia Hamby; Mary Bryant; Donna Barrett; Shannon Clark; Pam Mack; Gail Ring; David Knox and Rhonda Todd

Guests Present: Jimmy Sanderson; Joe Mazer; Karyn Jones; Diane Perpich; and Ben White

Murdoch convened the meeting at 1:31 PM

Welcome and introductions

Approval of minutes

The committee approved the September meeting minutes.

New Business

- A. iRoar Update** – Clark thanked the faculty who have worked to review the prerequisites/co-requisites/concurrent and clarify language. Clark reported that this review has opened up many issues and questions, and as a response changes are happening daily. She apologized for contradictions some may have received as this is new to their department as well. Murdoch stated that changes that produce problems and/or barriers for other majors must be brought to the Curriculum Committee.

QEP Update – Murdoch reported that the QEP Steering Committee is moving forward with sophomore seminars to promote critical thinking, and pilots will be available this spring. Murdoch stated the committee will work on models, structure, and plan faculty workshops. Committee members discussed staffing overloads, sustainability, faculty voting, and curriculum issues. Knox stated that he would like to see assessment testing before and after the pilot seminars. Austin stated that students want to see engagement included in general education reform. Coggeshall questioned what the concerns of students might be. Austin stated that he plans to make a proposal at the December meeting. Murdoch stated that many of these issues and questions need to be taken to their college representatives on the QEP committee. Murdoch stated that modifications and adjustments can be made along the way, but the basic proposal must be to SACS in December 2012.

- B. Suggested Revision of the Critical Thinking Competency** – Kosinski distributed copies of the proposal for changes to the critical thinking competency. Kosinski stated that he volunteered to evaluate eportfolio artifacts during the summer assessment, and it seemed impossible to satisfy the critical thinking competency with just one artifact; therefore, prompting the proposal to change. Committee members discussed concern about the evaluation of the artifacts. Murdoch stated that many of these problems can be alleviated if students will write a thorough rationale

statement about why the artifact will work to meet the competency. The committee discussed some word issues in the proposed document and the final statement and rubric are as follows: *“Demonstrate the ability to assemble evidence relevant to a significant and complex issue, evaluate the quality and utility of the evidence, and use this evidence to come to a logical conclusion about the issue.”*

This not only could apply to a broad range of disciplines, but it suggests its own rubric. This rubric would ask the reviewer to determine if the student:

1. Assembles relevant evidence.
2. Assesses the quality and utility of the evidence.
3. Analyzes the evidence to reach a logical conclusion or solution.

Murdoch encouraged members to discuss the proposal within their college.

C. Committee reports

- a. Arts & Humanities – Bruce Whisler
- b. Mathematical & Natural Sciences – Bob Green
- 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 – Michael LeMahieu

D. Curriculum/course approval – See attached.

Other Business

Morgan stated that BBS is making major changes to the Pre-Business program.

There being no further business, the meeting was adjourned at 3:58 PM.

Minutes respectfully submitted by Rhonda Todd.

Suggested Revision of the Critical Thinking Competency
Robert Kosinski
Biological Sciences

During the summer of 2012, I volunteered to participate in the faculty evaluation of ePortfolios. The students in question had already graduated, so our evaluation was for programmatic assessment only. I was struck by several problems with the Critical Thinking evaluation: the competency as written could not be satisfied with just one artifact, and there was a disconnect between the competency and the rubric used to score it. I would like to suggest some changes to the critical thinking competency that will make the requirements clearer.

Problems with the Present Critical Thinking Competency

The present Critical Thinking competency is, "Demonstrate the ability to critically analyze the quality and utility of knowledge gained throughout the undergraduate experience and apply this knowledge to a wide range of problems." As written, this would require a whole ePortfolio, probably consisting of artifacts from multiple fields, and collected over the course of the student's college career. Nevertheless, we want the student to submit *one* artifact that best demonstrates critical thinking.

The present rubric is another problem. It has three parts, and asks if the artifact a) demonstrates knowledge within the major, b) demonstrates knowledge outside the major, and c) shows the ability to apply knowledge and make evaluative judgments. The student will probably never see this rubric, and the definite requirements for showing knowledge both inside and outside the major are not clear from the wording of the competency.

Suggested Changes to the Competency and Rubric

A group of ePortfolio evaluators from CAFLS and CoES suggested the following wording of the competency:

"Demonstrate the ability to assemble evidence relevant to a significant and complex issue, evaluate the quality and utility of the evidence, and use this evidence to come to a logical conclusion about the issue."

This not only could apply to a broad range of disciplines, but it suggests its own rubric. This rubric would ask the reviewer to determine if the student:

1. Assembles relevant evidence.
2. Assesses the quality and utility of the evidence.
3. Analyzes the evidence to reach a logical conclusion or solution.

Approved Courses/Curricula

October 5, 2012

University Undergraduate Curriculum Committee
Clemson Connect - change to CU 100

LIB 100		0(0,0)	1
I. College of Agriculture, Forestry, and Life Sciences			
A. Agricultural Mechanization and Business			
AGM 419	AG Entrepreneurship -add a crosslisting ELE-419	3(3,0)	2
II College of Architecture, Arts and Humanities			
A. Construction Science & Management			
CSM 498	Current Topics in Construction - change prerequisite	1-3	7
B. English			
	Minor in Film Studies - change requirement		8
C. Communication Studies			
	Sports Communication - New major		9
	Sports Communication - General Education Checklist		13
COMM 324	Communication, Sport, & Society - new course	3(3,0)	15
COMM 325	Sports Communication - change course description	3(3,0)	17
COMM 426	Social Media & Sports Communication - new course	3(3,0)	19
COMM 427	Communication in Sports Organizations - new course	3(3,0)	21
COMM 428	Interpersonal/Family Comm & Sports	3(3,0)	23
D. Philosophy and Religion			
	Religious Studies - New Major - edited		25
	Religious Studies - General Education Checklist-edited		28
REL 300	Studying Religion: Theories and Methods		30
REL 305	Constructing Scripture - new course	3(3,0)	32
REL 399	Junior Research Colloquium - new course	3(3,0)	34
REL 490	Senior Seminar - new course	3(3,0)	36
REL 404	Early Christianity - change course number, add crosslisting	3(3,0)	38
REL 310	Religion in the US - change catalog title, add crosslisting	3(3,0)	40
HIST 373	Prot Reformation - add crosslisting with REL 310	3(3,0)	42
HIST 351	Ancient Near East - add crosslisting with REL 351	3(3,0)	44
	Women's Leadership - New Major		46
	Women's Leadership - General Education Checklist		50
WS 230	Women and Leadership - new course	3(3,0)	52
WS 401	Senior Seminar- new course	3(3,0)	54
WS 490	Creative Inquiry - new course	1-3	56
WS 495	Independent Study - new course	1-1(1-3)	58
III College of Engineering & Science			
A. Chemical and Biomolecular Engineering			
	Chemical Engineering (BS) - change concentration		60
	Chemical Engineering (BS) with Biomolecular Concentration - change curriculum requirements		62
IV College of Business and Behavioral Science			
A. Political Science			
POSC 103/H	Introduction to Political Theory - new course	3(3,0)	64
POSC 449	Political Theory Capitalism - change prerequisites	3(3,0)	74
	Political Theory - change catalog descpt., prerequisites, course modifier		
POSC 450		3(3,0)	76
POSC 453	Amer Pol Thought - change prerequisite	3(3,0)	82
POSC 455	POL THGHT AM FNDRS - change prerequisites	3(3,0)	84
	Political Science (BA) - change curriculum requirements - edited		86

	Political Science (BS) - change curriculum requirements - edited		90
	Political Science - change minor requirements		99
B. Management			
	MGT 411 Project Management - change prerequisites	3(3,0)	101
	MGT 307/H Human Resource Mgt. - change prerequisites	3(3,0)	103