

MEMORANDUM

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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

DATE:

October 23, 2012

SUBJECT:

Administrative Approval of Curriculum Items

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

P 864-656-3942 F 864-656-1363 The Undergraduate Curriculum Committee met on October 5, 2012 to approve the attached curriculum/course changes received in the Office of the Provost, October 23, 2012. The purpose of this memorandum is to respectfully request that you review this information and concur by giving final approval.

APPROVED:
DIDIA B QUELLO DATE 1/8/12 DR. DEBRA JACKSON, INSTITUTIONAL EFFECTIVENESS AND ASSESSMENT
DATE 12/13/12 DR. DORIS HELMS, VICE PRESIDENT FOR ACADEMIC AFFAIRS & PROVOST
JAMES F. BARKER, PRESIDENT CLEMSON UNIVERSITY
JAMES F. BARKER, PRESIDENT CLEMSON UNIVERSITY

C: File

Attachments

AGENDA

University Undergraduate Curriculum Committee Meeting Friday—October 5, 2012—1:30 PM E304 Martin Hall

- I. Call to order
- II. Introductions
- III. Consideration of September meeting minutes
- IV. Old business
 - A. iRoar Update Julie Pennebaker
 - B. QEP Update Jan Murdoch
- V. New business
 - A. Suggested Revision of the Critical Thinking Competency Bob Kosinski
 - **B.** 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

University Undergraduate Curriculum Committee Minutes Meeting E304 Martin Hall September 7, 2012

Members Present:

Jan Murdoch, chair; Michael Silvestri; Eric Touya; Mike Coggeshall; Angela Morgan; Bob Kosinski; Cheryl Ingram-Smith; Mary Beth Kurz; Brian Dominy; Bob Horton; Roxanne Amerson; Perry Austin; Jeffrey Appling; Julie Pennebaker; Cecelia Hamby; Donna Barrett; Shannon Clark; Pam Mack; Tom Oberdan; and Rhonda Todd

Murdoch convened the meeting at 1:36 PM

Welcome and introductions

Approval of minutes

The committee approved the May meeting minutes.

New Business

A. iRoar Update — Pennebaker distributed copies of Undergraduate Program Codes of Majors and Concentrations, Minor Abbreviations, Subject Codes. Pennebaker and Clark reported they worked with departments one-on-one to develop the codes. Pennebaker reviewed the handout with committee members. She gave an overview of the website:

http://www.registrar.clemson.edu/html/iROARdocs.htm . Morgan requested information about how prerequisites will be viewed. Pennebaker stated that she would like some help from this committee to identify issues with prerequisites and co-requisites. She distributed a copy of Prerequisites, Co-requisites, and Concurrent Enrollment in iRoar. She requested that committee members take this back to their college for discussion and clarification about what they really want and mean by the terms. Pennebaker explained how iRoar will work with concurrent courses (courses with labs). Ingram-Smith had questions about course substitutions and Clark agreed to work with her to resolve the issue.

Pennebaker reported there will be a mock registration on November 27, 28, 29 to test the system. She encouraged faculty to volunteer their students or class time to assist with this process.

Murdoch closed by stating she will give a window for opportunity to resolve many of the problems found with prerequisites, co-requisites, etc.. She reported December will be deadline for making changes without submitting forms.

B. QEP Update – Murdoch reported that the QEP Steering Committee has placed a call for proposals to faculty who would like to do a Critical Thinking pilot. She reported that there will be faculty training involved before implementing the program. The committee discussed the importance of having students and faculty approval before implementing this program. Murdoch encouraged committee members to engage with their two college representatives on the QEP committee for updates and information. Committee members discussed the important aspect of student engagement and creating excitement while issuing them a challenge. Kosinski stated that there are courses currently taught on campus that really do stimulate Critical

Thinking. Committee members wanted to know what kind of deadline they were looking at. Murdoch stated that this is a five year initiative, but mid-December is the deadline for the plan to go to the printer and then to SACS for approval

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. Items in grey are tabled.

Other Business

Coggeshall reported that Anthropology was approved by the CHE Academic Affairs and Licensing Committee and now will go to the full commission of CHE.

Appling stated that LIB 100 has about 4500 students enrolled. He reported that this course was once taught within the Library with face to face workshops with Library personnel. After some assessment the Library determined that the face to face approach was not really reaching the goals they had intended, so they have put the together an on-line tutorial for Library skills, etc. Appling proposed changing the class from LIB 100 to CU 100. Committee members agreed that it sounded like a good idea, so Appling agreed to get the paperwork together and bring to the next meeting.

There being no further business, the meeting was adjourned at 4:05 PM.

Minutes respectfully submitted by Rhonda Todd.

Minutes for Courses/Curricula September 7, 2012

ı.	Colle	ege of Agriculture, Forestry	University Undergraduate Curriculum Committee , and Life Sciences	Credits	Page
11.	Colle	ege of Architecture, Arts an	d Humanities		
	В.	Communication Studies			
		COMM 430	Legal Communication - new course	3(3,0)	1
		COMM 431	Legal Communication Trial - new course	3(3,0)	3
III.	Colle	ege of Engineering & Science	re		
	A.	Electrical and Computer E	ingineering		
		ECE 202	Electric Circuits I change prerequisites	3(3,0)	# 15
		ECE 262	Electric Circuits II - change prerequisites	3(3,0)	6 2 3
		ECE 807	Basic Electric Engineering - change prerequisites	2(2,0)	117211
		ECE 320	Electronics I – change prerequisites	3(3,0)	
		ECE 311	Elec Engr Lab III - change prerequisites	1(0,2)	
		ECE 321	Electronics II - change prerequisites	3(3,0)	10
IV.	Colle	ge of Health, Education an	d Human Development		
٧.		ge of Business and Behavio			
VI.	Libra	ries			
		CU 201	Sustainability Leadership - new course	3(3,0)	11



MINOR ABBREVIATIONS

Legacy Minor Code	Minor	New Minor Abbreviation
1100	Accounting	ACCT
1220	Adult Extension Education	ADEX
1225	Aerospace Studies	AS
1250	Agricultural Business Management	AGBM
1600	Agricultural Mechanization and Business	AGME
5650	American Sign Language Studies	ASLS
2125	Animal and Veterinary Sciences	AVS
1970	Anthropology	ANTH
4010	Architecture	ARCH
4120	Art	ART
2420	Athletic Leadership	AL
2150	Biochemistry	ВІОС
2220	Biological Sciences	BIOS
2510	Business Administration	BUAD
2750	Chemistry	CHEM
2815	Cluster-Engineering	CLEN
2820	Cluster–Life Sciences	CLLS
2830	Cluster-Physical Sciences	CLPH
2840	Cluster–Social Sciences	CLSO
7500	Communication Studies (General)	COSG
7510	Communication Studies (Sports)	COMS
3100	Computer Science	
1700	Crop and Soil Environmental Science	CPSC
3000	Digital Production Arts	CSEN
5505	East Asian Studies	DPA
3400	Economics	EAS
3410	Education	ECON
3600	English	EDUC
3700	Entomology	ENGL
3720	Entrepreneurship	ENT
3810	Environmental Engineering	ENTR
3790	Environmental Science and Policy	ENVE
4690	Equine Business	ENSP
7756	Film Studies	EQUI
3900	Financial Management	FILM
4100	Food Science	FINM
4180	Forest Products	FDSC
4200		FORP
4210	Forest Resource Management	FORM
4300	Genetics	GEN
4400	Geography	GEOG
4950	Geology	GEOL
4578	Global Politics	GLPO
	Great Works	GW
4600	History	HIST
4700	Horticulture	HORT
4760	Human Resource Management	HRM



SUBJECT CODES

Legacy Abbreviation	Subject	New Subject Code
ACCT	Accounting	ACCT
AS	Aerospace Studies	AS
AG ED	Agricultural Education	AGED
AG M	Agricultural Mechanization	AGM
AGRIC	Agriculture	AGR
AFLS	Agriculture, Forestry and Life Sciences	AFLS
ASL	American Sign Language	ASL
AVS	Animal and Veterinary Sciences	AVS
ANTH	Anthropology	ANTH
AP EC	Applied Economics	APEC
ARAB	Arabic	ARAB
ARCH	Architecture	ARCH
ART	Art	ART
AAH	Art and Architectural History	AAH
ASTR	Astronomy	ASTR
AL	Athletic Leadership	AL
AUDIO	Audio Technology	AUD
AU E	Automotive Engineering	AUE
BIOCH	Biochemistry	BCHM
BIO E	Bioengineering	BIOE
BIOSC	Biological Sciences	BIOS
BIOL	Biology	BIOL
BMOLE	Biomolecular Engineering	BMOL
ВЕ	Biosystems Engineering	BE
B T	Biosystems Technology	87
BUS	Business	
MBA	Business Administration	BUS
CVT	Cardiovascular Technology	МВА
CTE	Career and Technology Education	CVT
CCINT	Career Center Internship Program	CTE
CH E	Chemical Engineering	INT
CH	Chemistry	CHE
CHIN	Chinese	СН
CRP	City and Regional Planning	CHIN
C E	Civil Engineering	CRP
CU	Clemson University	CE
AAH		CU
CES	College of Architecture, Arts and Humanities	СААН
OMM	College of Engineering and Science Communication Studies	CES
RD		СОММ
IP SC	Community and Rural Development	CRD
SM	Computer Science	CPSC
O-OP	Construction Science and Management	CSM
	Cooperative Education	СООР
SENV	Crop and Soil Environmental Science	CSEN
DANCE	Dance	DANC
SIGN	Design Studies	DSGN

L&IH	Language and International Health	LIH
L&IT	Language and International Trade	LIT
LATIN	Latin	LATN
LAW	Law	LAW
LS	Leisure Skills	LS
LIB	Library	LIB
EDLT	Literacy	EDLT
MGT	Management	MGT
MKT	Marketing	MKT
MS&E	Materials Science and Engineering	MSE
MTHSC	Mathematical Sciences	MTHS
ME	Mechanical Engineering	ME
MICRO	Microbiology	MICR
EDML	Middle-Level Education	EDML
ML	Military Leadership	
MUSIC	Music	ML
NPL	Nonprofit Leadership	MUSC
NURS	Nursing	NPL
NUTR	Nutrition	NURS
PKGSC	Packaging Science	NUTR
PAS	Pan African Studies	PKSC
PRTM	Parks, Recreation and Tourism Management	PAS
PA	Performing Arts	PRTM
PHIL	Philosophy	PA
PH SC	Physical Science	PHIL
PHYS	Physics	PHSC
PDBE	· · · · · · · · · · · · · · · · · · ·	PHYS
PES	Planning, Design and the Built Environment Plant and Environmental Science	PDBE
PL PA	Plant Pathology	PES
PL PH	Plant Physiology	PLPA
PO ST	Policy Studies	PLPH
PO SC	Political Science	POST
PORT	Portuguese	POSC
PSYCH	Psychology	PORT
P ADM	Public Administration	PSYC
RED	Real Estate Development	PADM
REL	Religion Religion	RED
RCID		REL
RS	Rhetorics, Communication and Information Design Rural Sociology	RCID
RUSS	Russian	RS
STS	······································	RUSS
EDSEC	Science and Technology in Society Secondary Education	STS
soc		EDSC
SSCS	Sociology	SOC
SPAN	Soils and Sustainable Crop Systems	SSCS
ED SP	Spanish	SPAN
SYS E	Special Education	EDSP
THEA	Systems Engineering	SYSE
VT ED	Theatre	THEA
WFB	Vocational-Technical Education	VTED
W S	Wildlife and Fisheries Biology	WFB
	Women's Studies	WS



UNDERGRADUATE PROGRAM CODES MAJORS AND CONCENTRATIONS

COLLEGE OF AGRICULTURE, FORESTRY AND LIFE SCIENCES

BS-AGED-1

BS Agricultural Education

E004

Communication Emphasis

E013

Leadership Emphasis

E022

Teaching Emphasis

BS-AGME-1

BS Agricultural Mechanization and Business

BS-AVS-1

BS Animal and Veterinary Sciences

ANAG

Animal Agribusiness Concentration

EQUI

Equine Business Concentration

PREV

Preveterinary and Science Concentration

BS-BIOC-1

BS Biochemistry

BA-BIOS-1

BA Biological Sciences

E076

Prerehabilitation Sciences Emphasis

BS-BIOS-1

BS Biological Sciences

E077

Entomology Emphasis Prepharmacy Emphasis

E078 E079

Quantitative Biology Emphasis

E080

Toxicology Emphasis

BS-ENR-1

BS Environmental and Natural Resources

COBI

Conservation Biology Concentration

NRE

Natural Resource and Economic Policy Concentration

NRMG

Natural Resources Management Concentration

BS-FDSC-1

BS Food Science

FDST

Food Science and Technology Concentration

NUTD

Nutrition and Dietetics Concentration

BS-FORM-1

BS Forest Resource Management

E148

Land Surveying Emphasis

BS-GEN-1

BS Genetics

B5-HORT-1

BS Horticulture

BS-MICR-1

BS Microbiology

BIOM

Biomedicine Concentration

BS-PKGS-1	BS Packaging Science
E007	Distribution, Transportation and Engineering Technology Emphasis
E130	Food and Health Care Packaging Emphasis
E149	Package Design and Graphics Emphasis
E136	Materials Emphasis
UD-PPFH-1	UD Preprofessional Health Studies
UD-PRPH-1	UD Prepharmacy
UD-PREH-1	UD Prerehabilitation Sciences
BS-SSCS-1	BS Soils and Sustainable Crop Systems
AGBI	Agricultural Biotechnology Concentration
E002	Agricultural Biosystems and Technology Emphasis
E003	Agricultural Biotechnology and Global Society Emphasis
SWES	Soil and Water Environmental Science Concentration
E005	Crop Production Emphasis
E019	Soil and Water Quality Emphasis
E020	Soil Management Emphasis
E021	Soil Science Emphasis
SCRP	Sustainable Crop Production Concentration
E005	Crop Production Emphasis
E010	Integrated Pest Management Emphasis
BS-TURF-1	BS Turfgrass
BS-WFB-1	BS Wildlife and Fisheries Biology

COLLEGE OF ARCHITECTURE, ARTS AND HUMANITIES

	Curt VII 12 MAD LICHMINISTES
BA-ARCH-2	BA Architecture
BA-COMM-2	BA Communication Studies
BS-CSM-2	BS Construction Science and Management
BA-ENGL-2 E062 E063	BA English Literature Emphasis Writing and Publication Studies Emphasis
BA-HIST-2 E009	BA History Public History Emphasis
BLA-LARC-2	BLA Landscape Architecture
BS-LIH-2 E068 E112 E153 E131	BS Language and International Health Chinese Emphasis Spanish Emphasis Health Administration Emphasis Community Development Emphasis
BA-LIT-2 AIEC AIEF AIEG AIEJ	BA Language and International Trade Applied International Economics – Chinese Concentration Applied International Economics – French Concentration Applied International Economics – German Concentration Applied International Economics – Japanese Concentration

AIES INTC INTF INTG INTJ INTS	Applied International Economics – Spanish Concentration International Trade – Chinese Concentration International Trade – French Concentration International Trade – German Concentration International Trade – Japanese Concentration International Trade – Spanish Concentration
TSMC	Tourism – Chinese Concentration
TSMF	Tourism – French Concentration
TSMG	Tourism – German Concentration
LMZT	Tourism – Japanese Concentration
TSMS	Tourism – Spanish Concentration
BA-MLAN-2	BA Modern Languages
E069	American Sign Language Emphasis
E068	Chinese Emphasis
E110	French Emphasis
E111	German Emphasis
E070	Italian Emphasis
E006	Japanese Emphasis
E112	Spanish Emphasis
BA-PHIL-2	BA Philosophy
E071	Law, Liberty and Justice Emphasis
E072	Religious Studies Emphasis
BA-PERF-2	BA Production Studies in Performing Arts
AUDI	Audio Technology Concentration
MUSI	Music Concentration
THEA	Theatre Concentration
BFA-VART-2	BFA Visual Arts

COLLEGE OF BUSINESS AND BEHAVIORAL SCIENCE

BS-ACCT-3	BS Accounting
BA-ECON-3	BA Economics
BS-ECON-3 E132 E146 E144 E140	BS Economics Corporate Finance Emphasis Financial Planning Emphasis Financial Services Emphasis Real Estate Emphasis
BS-FINM-3 BS-GCOM-3	BS Financial Management BS Graphic Communications
ES-MGT-3 E051 E052 E053 E054 E055 E056 E057	BS Management Entrepreneurship Emphasis Human Resources Management Emphasis International Management Emphasis Management Information Systems Emphasis Operations Management Emphasis Supply Chain Management Emphasis General Management Emphasis

BS-MKT-3 BS Marketing

E058 General Marketing Emphasis
 E059 Services Marketing Emphasis
 E060 Sport Marketing Emphasis
 E061 Technical Marketing Emphasis

BA-POSC-3 BA Political Science

BS-POSC-3 BS Political Science

AMPO American Politics Concentration
GLPO Global Politics Concentration
POEC Political Economy Concentration
PADM Public Administration Concentration

PUPO Public Policy Concentration

UD-PREB-3 UD Pre-Business

BA-PSYC-3 BA Psychology

BS-PSYC-3 BS Psychology

BA-SOC-3 BA Sociology

BS-SOC-3 BS Sociology

COLLEGE OF ENGINEERING AND SCIENCE

BS-BIOE-4 BS Bioengineering

BELE Bioelectrical Concentration
BMAT Biomaterials Concentration

BS-BIEN-4 BS Biosystems Engineering

E023 Bioprocess Engineering Emphasis E024 Ecological Engineering Emphasis

BS-CHEN-4 BS Chemical Engineering

BMOL Biomolecular Engineering Concentration

BA-CHEM-4 BA Chemistry

BS-CHEM-4 BS Chemistry

BS-CIVE-4 BS Civil Engineering

E141 Applied Fluid Mechanics Emphasis

E134 Construction Emphasis

E090 Environmental Engineering Emphasis
E162 Geoenvironmental Engineering Emphasis
E133 Structural Engineering Emphasis

E142 Structural Engineering Emphasis
E142 Transportation Engineering Emphasis

BS-CPEN-4 BS Computer Engineering

BS-CIS-4 BS Computer Information Systems

BA-CPSC-4 BA Computer Science

BS-CPSC-4 B5 Computer Science

BS-ELEN-4 BS Electrical Engineering

BS-ENVE-4 BS Environmental Engineering

UD-GENG-4 UD General Engineering

BA-GEOL-4 BA Geology

BS-GEOL-4 BS Geology

ENSC Environmental Science Concentration

HYDR Hydrogeology Concentration

BS-INEN-4 BS Industrial Engineering

BS-MSE-4 BS Materials Science and Engineering

INOR Inorganic Materials Concentration
POLM Polymeric Materials Concentration

BA-MTHS-4 BA Mathematical Sciences

BS-MTHS-4 BS Mathematical Sciences

E081 Abstract Mathematics Emphasis

E082 Actuarial Science/Financial Mathematics Emphasis
E083 Applied and Computational Mathematics Emphasis

BIOL Biology Concentration E088 Computer Science Emphasis

E085 Operations Research/Management Science Emphasis

E086 Statistics Emphasis

BS-ME-4 BS Mechanical Engineering

BA-PHYS-4 BA Physics

BS-PHYS-4 BS Physics

BPHY Biophysics Concentration
E087 Chemistry Emphasis
E088 Computer Science Emphasis

E089 Computer Science Emphasis
E089 Engineering Emphasis

E090 Environmental Engineering Emphasis

E091 Geology Emphasis

E092 Mathematical Sciences Emphasis E093 Physics and Astronomy Emphasis

COLLEGE OF HEALTH, EDUCATION AND HUMAN DEVELOPMENT

BA-ECHE-5 BA Early Childhood Education

BA-ELED-5 BA Elementary Education

E048 Literacy, Culture and Diversity Emphasis E049 Mathematics and Science Emphasis

BS-HLTH-5 BS Health Science

CAIM Cardiovascular Imaging Leadership Concentration
HPED Health Promotion and Education Concentration
HSAD Health Services Administration Concentration
PPHL Preprofessional Health Studies Concentration

BS-MTCH-5 BS Mathematics Teaching

BS-NURS-5 BS Nursing

BS-PRTM-5 BS Parks, Recreation and Tourism Management

CRSC Community Recreation, Sport and Camp Management Concentration

PCAM Parks and Conservation Area Management Concentration

PGM Professional Golf Management Concentration

TR Therapeutic Recreation Concentration
Travel and Tourism Concentration

BA-STCH-5 BA Science Teaching

E098 Biological Sciences Emphasis

E099 Chemistry Emphasis E008 Physics Emphasis

BS-STCH-5 BS Science Teaching

E098 Biological Sciences Emphasis E102 Physical Sciences Emphasis

BA-SECE-5 BA Secondary Education

E050 English Emphasis
E101 Mathematics Emphasis

E108 Social Studies (History) Emphasis

BA-SPED-5 BA Special Education

CERTIFICATE PROGRAMS

CERTO-ASLE-2	CERTU American Sign Language-English Education Interpreting
CERTU-ASLH-2	CERTU American Sign Language for Health Care Practitioners
CERTU-LEAD-5	CERTU Leadership
CERTIL BCCN 4	

CERTU-PSEN-4 CERTU Power Systems Engineering
CERTU-PUBH-5 CERTU Public Health

CERTU-PUBH-5 CERTU Public Health
CERTU-RENE-4 CERTU Renewable Energy

CERTU-SALE-3 CERTU Sales
CERTU-SIXS-4 CERTU Six Sigma

CERTU-SPMO-5 CERTU Sports Psychology and Motivation

CERTU-SCCD-5 CERTU Sports Coaching and Character Development

CERTU-SFAC-5 CERTU Sports First Aid and Conditioning

CERTU-SUBA-3 CERTU Substance Abuse

Prerequisites, Corequisites, and Concurrent Enrollment in iROAR

- Prerequisites will not be enforced for the first year. Reports will be provided to show what will happen with enforcement, which will begin after one year.
- iROAR (Banner) can enforce almost all of Clemson's current prerequisites, corequisites and concurrent enrollment requirements.
- "Enforced" means the system will not allow students to register for the course if they don't meet the requirement(s).
- Some of these requirements are enforced via iROAR's prerequisite and corequisite functions; others are managed by placing restrictions on courses.
- Please review the attached spreadsheet, paying particular attention to the notes and column of things for departments to review (esp. corequisites vs. concurrent enrollment, and consent of instructor phrases).
- There will be a "grace period" until the December 2012 UCC meeting, during which departments may provide clarification to preqs/coreqs/concurrent enrollment without following the usual course approval process. Beginning January 2013, any changes to prerequisites or corequisites must be approved by the Undergraduate or Graduate Curriculum Committee.
- Prerequisites that cannot be enforced (such as "basic swimming skills"), can still be published in the catalog.
- It will be VERY important for departments to carefully review preqs/coreqs/concurrent enrollment courses when iROAR is live. Much course information has been entered in manually. In addition to the potential for human error, many of these requirements are vague and open to interpretation.
- Important note: "Consent of instructor" and "....and consent of instructor" mean that NO STUDENT will be able to register for a course without receiving an override.
- Instructors will always have the ability to provide an override to a student who does not meet a prerequisite or other enrollment restriction.
- Prerequisites and enrollment restrictions cannot be enforced if they are not published.

			do and/or consider
İ	BIOS 2220 Human Anatomy and Physiology I Preq: BIOL 1030/1050 or 1100; CH 1010 and 1020, or 1050 and 1060. BIOS 3010 Molecular Biochemistry Preq: BIOL 1100 and CH 2230 with C or better.	A certain amount of interpretation/assumption was necessary.	Right now, nothing, However, it will be very important for departments to carefully review preqs prior to iROAR going live
Freq: 1cst Score(s) M 14S 11S Elementor Preq: MTP Clemson M	MTHS 1150 Contemporary Mathematics for Elementary School Teachers 1 Prag: MTHS 1040 or salisfactory score on the Clemson Mathematics Placement Test.	iROAR can check test scores, but only if a minimum passing grade and highest possible grade are entered. iROAR can check only test scores that are in a system that integrates with Banner, such as the CMPT. A test given the first day of class isn't the same thing. The following type of preq. cannot be checked: CPSC 2100 Programming Methodology Preq: CPSC 1110 or equivalent; satisfactory performance on a pretest.	If you want test score(s) to be checked, we need: (1) The official name of the test (2) The minimum PASSING grade (3) The highest possible grade
Preq: Class Standing ANTH 423 World Preq: Soph	ANTH 4230, 6230 Women in the Developing World Preq: Sophomore standing.	Unless clearly stated otherwise, we have assumed that "Sophomore standing" means the student must AT LEAST be a sophomore, but could be a junior or senior. If this is not the case for a course, please let us know. (An example: HORT 1020 Experience Horticulture Preq: Freshman or Sophomore standing in Horticulture or Turfgrass. It is clear that only freshmen and sophomores are allowed to enroll. This class will be restricted so only freshmen and sophomores can register.	Review all courses with a class standing preq, and let us know if you do NOT mean the student must be at least the level stated.
	BIOE 8130 Industrial Bioenginecring Preq: Consent of instructor, graduate standing	Prerequisites that say "Graduate standing" are unnecessary. iROAR automatically restricts undergrad students from registering for graduate level courses unless they are given an override by the instructor or appropriate person.	
Preq: Class Standing ARCH 401 with "Graduating Preq: ARC senior" in preq Graduating	ARCH 4010 Architectural Portfolio Preq: ARCH 1010. Coreq: ARCH 4520, 4530; Graduating Senior standing.	Cannot enforce a graduating senior standing. You can leave the wording, so students are aware, but only senior standing can be enforced.	

Preq: Major, Minor, Concentration, Emphasis Area	AGED 1020 Agricultural Education Freshman Seminar Preq: Agricultural Education major. DPA 4000, 6000 Technical Foundations of Digital Production I Preq: Consent of instructor. Not open to Computer Science, Computer Engineering, or Computer Information Systems majors.	Courses can be restricted so students in a certain major, minor, concentration or emphasis area can be allowed OR disallowed from registering for the course. Each of these is called a "field of study" in iROAR. A specific field or fields of study must be specified. Prerequisites such as "Admission to a Teacher Education Program" or "Junior standing in engineering or science" cannot be enforced as such. However, if departments can provide a list of all fields of study that qualify, it can be enforced.	Review prerequisites that are not specific and provide a list of fields of study that meet the qualification. For example, if the preq states students must be in an engineering or science program, simply list all fields of study that meet this requirement: Civil Engineering, Mechanical Engineering, Chemistry, etc.
Preq: Minimum Grade	ACCT 3400 Internal Auditing Theory Preq: ACCT 3110 with a C or better.	Minimum grades are enforced in Banner.	
Preq: "Consent of Instructor" (or advisor, department chair, mentor, dean, director, committee chair, etc. Preq: "and consent of instructor"	ARCH 4260, 6260 Architectural Color Graphics Preq: Consent of instructor. AGM 3710 Agricultural Mechanization Practicum Preq: Consent of department. POSC 3960 Junior Honors Research Preq: Junior standing, membership in Calhoun Honors College, and consent of instructor.	For prerequisites that state "Consent of instructor" or "and consent of instructor," a course attribute of "CONS—Consent of Instructor" will be assigned. Course attributes will show up in the catalog in iROAR when students search for courses. In addition, departmental Registration Coordinators will apply the restriction on each section of the course. Please note: NO STUDENTS WILL BE ABLE TO REGISTER FOR THE COURSE WITHOUT THE APPROPRIATE PERSON PROVIDING AN OVERRIDE.	Review all courses with a preq of "consent of instructor" or "and consent of instructor" and decide if you really want it to require consent (which consists of providing an override) for the course.
Preq: " <u>ar</u> consent of instructor"	BE 4280, 6280 Biochemical Engineering Preg: BE 4100 or CHE 3300 or consent of instructor.	That consent may be granted if an instructor (or another authorized person) deems it appropriate is a given. So "or consent" is assumed. Preqs will no longer include "or consent of instructor."	

Corequisites and Concurrent Enrollment	Corequisite example: EE 2100 Introduction to Biosystems Engineering	Corequisites and Concurrent Enrollment are not the same thing in iROAR.	Given these definitions, it seems that what is called a "corea" currently is in fact meant to be
	Concurrent Enrollment example: CH 3400 Physical Chemistry Laboratory Preq: Concurrent enrollment in CH 3320.	Corequisites are courses that always and forever MUST be taken at together—most commonly lecture/lab combinations, but sometimes "cohorl" classes. So the in the first example to the left, students must take BE 2100 and ENGR 1300 during the same term. Corequisites also "go both	"concurrent emollment" situation. It is highly recommended that departments curefully review all courses that reference a coreq and a concurrent enrollment and clarify what is truly meant. NOTE: All formerly attached "L" labs are considered corequisites of the lecture.
		ways" – they are mutual. So if CH 1020 is a coreq of CH 1021, then CH1021 will also be a coreq of CH 1020.	
		Concurrent Enrollment refers to courses that are designed to be taken together, however, students may take one course prior to the other course, may take both at the same time, or may be registered for	
		one of the courses in a future term. In the second example to the left, students could take CH 3322 before taking CH 3400 or they could take it during the same term, or they could be registered for CH 3320 in an uncoming term.	
Pregs related to Calhoun Honors College.	BUS 2910 Honors Seminar in International Business Preg: Membership in Calhoun Honors College.	Only honors students will be able to register for such courses.	
		The state of the s	177.77
ISSUES	- The state of the	and the second s	
Coreqs with "or"	BIOL 1200 Biological Inquiry Laboratory <u>Coreq:</u> BIOL 1210, 1220, 1230, <u>or</u> 1240.	Because Corequisites are "always and forever," there cannot be an "or."	Review all courses that use "or" with corcqs and determine if concurrent enrollment is meant. If it
		In the example to the left, it seems likely that concurrent enrollment is meant, which can include "or."	is not meant, the coreds simply cannot be enjorced in IROAR.
Different coreqs for the same course.	ENGR 1410 Programming and Problem Solving Preq: CES 102; Coreq: MTHS 1060 or 1070. Careq for honors students: MTHS 1080.	Cannot be enforced. (Unless there is an entire section only for honors students in a given term, then enforcement can take place at the section level.) Can still publish it so honors students are aware of the requirement	
Coreqs containing "or consent of instructor"	AGM 2060 Machinery Management Coreq: MTHS 1020 and PHYS 2070 or consent of instructor.	Consent in this case is implied, as with preqs.	
Preqs that mention departmental honors program.	BE 3000 Biosystems Engineering Honors Sem. Preq: Junior standing in departmental honors program.	This cannot be enforced.	

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:

- 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

		LIB 100	University Undergraduate Curriculum Committee Clemson Connect - change to CU 100	0(0,0)	1		
I.	College of Agriculture, Forestry, and Life Sciences						
	Α.	Agricultural Mechanization AGM 419	and Business AG Entrepreneurship -add a crosslisting ELE-419	3(3,0			
11	Col	ege of Architecture, Arts and	Humanities		2		
	A.	A. Construction Science & Management					
	•••	CSM 498	Current Topics in Construction - change prerequisite	1-3	7		
	В.	English					
			Minor in Film Studies - change requirement		8		
	c.	Communication Studies					
			Sports Communication - New major		9		
		GG5.11 4 66 4	Sports Communication - General Education Checklist		13		
		COMM 324	Communication, Sport, & Society - new course	3(3,0)	15		
			Sports Communication - change course description	3(3,0)	17		
			Social Media & Sports Communication - new course Communication in Sports Organizations - new course	3(3,0)	19		
		COMM 428	Interpersonal/Family Comm & Sports	3(3,0) 3(3,0)	21 23		
	D.	Philosphy and Religion		2(0,0,			
	υ.		Religious Studies - New Major - edited		25		
			Religious Studies - General Education Checklist-edited		28		
			Studying Religion: Theories and Methods		30		
			Constucting 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		
			Women and Leadership - new course	3(3,0)	52		
			Senior Seminar- new course	3(3,0)	54		
			Creative Inquiry - new course	1-3	56		
			Independent Study - new course	1-1(1-3)	58		
111	Coll	ege of Engineering & Science					
	A. Chemical and Biomolecular Engineering Chemical Engineering (BS) - change concentration						
			Chemical Engineering (BS) with Biomolecular Concentration -		60		
			change curriculum requirements		62		
	- II	,					
IV	Coll	llege of Business and Behavioral Science					
	A.	Political Science					
			Introduction to Political Theory - new course	3(3,0)	64		
			Political Theory Capitalism - change prerequisites	3(3,0)	74		
			Political Theory - change catalog descpt., prerequisites, course modifier	2/2 61			
			moditier Amer Pol Thought - change prequisite	3(3,0)	76		
			POL THGHT AM FNDRS - change prerequisites	3(3,0) 3/3.0)	82 97		
			Political Science (BA) - change curriculum requirements - edited	3(3,0)	84 86		

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