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# MISSOURI UNIVERSITY OF SCIENCE AND TECHNOLOGY

Formerly University of Missouri-Rolla

Agenda Campus Curricula Committee Meeting October 5, 2010 Meeting 3:20 p.m. Room 117 Fulton Hall

## Review of submitted DC forms:

DC 0369, Economics, Bachelor of Science, effective Fall 2011. A proposal to modify the current curriculum for the Bachelor of Science in Economics.

DC 0370, Biological Science, Bachelor of Science, effective Fall 2011. A proposal to modify the current curriculum for the Bachelor of Science in Biological Sciences.

#### Review of submitted CC forms:

CC 8036, History 331, Nazism & Holocaust, effective Spring 2011.

CC 8058, Economics 355, Statistical Models in Actuarial Science, effective Spring 2011.

CC 8060, Geological Engineering 207, Geology and Engineering of Ancient and Modern Peru, effective Spring 2011.

CC 8061, Biological Sciences 470, Advanced Toxicology, effective Spring 2011.

CC 8063, Chemical Engineering 446, Molecular Modeling and Simulation, effective Spring 2011.

CC 8064, Aerospace Engineering 180, Introduction to Aerospace Design, effective Spring 2011.

#### Review of submitted EC forms:

EC 2282, Biological Sciences 201, Issues in Public Health, effective Spring 2011.

CC 2283, Geological Engineering 401, Inca Civilization Geotechnical Engineering Practices, effective Spring 2011.

EC 2286, Philosophy 201, Ancient and Medieval Philosophy, effective Summer 2011.

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# MISSOURI UNIVERSITY OF SCIENCE AND TECHNOLOGY

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#### Tabled Items:

EC 2268, Education 301, Improving Student Achievement in Elementary Mathematics, effective Spring 2011. **Tabled** 

EC 2269, Education 301, Differentiated Instruction, effective Spring 2011. Tabled

EC 2270, Education 301, Transition from School to Post Secondary Placement, effective Spring 2011. Tabled

EC 2271, Education 301, Reaching Students From Poverty, effective Spring 2011. **Tabled** 

CC 8004, Aerospace Engineering 319, Advanced Thermodynamics. Tabled

CC 8017, Finance 490, Graduate Research, effective Fall 2010. Tabled

## New Business:

Revise wording on EC form.

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# Missouri University of Science and Technology

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**DC #** 0369-2010-ECON-000-00 Effective Year: 2010 Effective Term: Summer 🗀 Fall 🖾 Spring 🔲 (Creating or modifying a degree program must be effective for a Fall term) Degree Change Form (DC) This form is to be used for creating or modifying degree programs, emphasis areas, and minors. Title of degree program, emphasis area, or minor: Economics BS **Department:** Economics Briefly describe action requested (Attach documentation as appropriate): Modify Econ BS Degree (and DARS / CAPS Report) with the following changes: 1) Section 12: Replace M&IS 397 (3 credit hours) Capstone Course with the following 2 courses: BUS 397 (1 credit hour) Senior Business Design I BUS 398 (2 credit hours) Senior Business Design II (to reflect changes made to the Capstone Course by the Business Department) 2) Section 13\*: (intermediate courses no longer required) —— INCREASE Free electives to 19 how Remove IS&T 151 and IS&T 286 \*Change heading hours from 12 hrs to 6 hrs to reflect this change. 3) Section 14: Replace Bus Law 230 with Fin 250. 4) Section 18 (Econ Emphasis Courses) Sub-requirement 1: add 'Econ 260'.
Sub-requirement 2: add '2\*\* or'. — any 200 level business counting 5) Add 'must receive "C" or better' stipulation to the following Econ courses: Econ 121, Econ 122, Econ 221, Econ 222, and Econ 211. 0,0000

Recommended by Department: (Chair signature)	Date: 7/6//
Recommended by:  Discipline Specific Curricula Committee (Chair signature)	
Approved by Curricula Committee:(Chair signature)	Date:
Approved by Faculty Senate:(Chair signature)	Date:

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Current

#### Economics — 121

FRESHMAN YEAR  First Semester  English 20-Exposition & Argumentation <sup>1</sup>
Math 12 Business Calculus
SOPHOMORE YEAR         Credit           First Semester         Credit           BUS 110 Mgt & Org. Behavior         .3           Speech 85 Princ of Speech         .3           Stat 211 Stat Tools for Decision Making         .3           IST 141 Info Systems         .3           English 75, 80, 102, 105, 106, 177, or 178 lit         .3           15
Second Semester         BUS 120 Financial Accounting
JUNIOR YEAR           First Semester         Credit           English 65            BUS 230 Business Law         .3           Econ 221 Interm Micro         .3           Econ 222 Interm Macro         .3           Econ 211 Intro To Econ Stat         .3           15
Second Semester  Speech 181 Communication Theory
First Semester Credit English 260
Second Semester  SMIS 397 Capstone <sup>1</sup>

Economics students must earn the grade of "C" or better in all Economics and Finance courses to receive credit toward graduation.

<sup>1</sup>In-Major Writing Intensive

<sup>2</sup>Electives 18 hours of which 12 hours must be Economics to be selected from Econ, 223, Econ 230 or any 300 level Econ Lecture course and accumulate 6

hours from the following Psych 212, Psych 372, Psych 374 or any one 300 level Business Lecture courses. 

Economics 220; English 215, 230, 281, 345, 350; Foreign Language Beyond Second Semester; History 340, 355; Philosophy 25, 35, 75, 212, 340, 355; Any Political Science; Psychology 270, 380; Any Sociology; Speech 235

#### Minor in Economics

Students majoring in other disciplines are encouraged to develop a minor in economics. The formal minor in economics is designed to provide students with a solid understanding of economic principles and concepts and the ability to apply this knowledge to a host of economic, public policy and business problems. This program will be of particular benefit to those students whose major field of study may lead them to pursue a management position or later graduate studies in business.

The minor in economics requires the completion of a minimum of 15 hours of economics course work with a grade of "C" or better. Required courses in the minor program include both Economics 121 and 122 and at least one of the intermediate theory courses, Economics 221 and/or Economics 222. The choice of which intermediate theory course depends on which 300 level economic electives the student, in consultation with the department's minor advisor, selects for their program.

## **Energy/Technology Minor**

## (15 hours)

Required courses:

- Econ 121-Principles of Microeconomics
- Econ 122-principles of Macroeconomics
- Econ 221-Intermediate Microeconomics Theory

#### And 6 hours from:

- Econ 311-Econometrics
- Econ 335-Cost Benefit Analysis
- Econ 340-Environmental & Natural Resource Economics
- Econ 345-Energy Economics

# International Economics Minor (15 hours)

Required courses:

- Econ 121-Principles of Microeconomics
- Econ 122-Principles of Macroeconomics
- Econ 222-Intermediate Macroeconomics Theory

#### And 6 hours from:

- Econ 322-International Trade
- Econ 351-Economic Development
- Econ 360-Comparative Economic Systems

#### **Economics Courses**

- 100 Special Problems (IND 1.0-6.0)Problems or readings on specific subjects or projects in the department. Prerequisite: Consent of instructor required.
- **101 Special Topics** (Variable 0.0-6.0) This course is designed to give the department an opportunity to test a new course. Variable title.

Proposed

## Economics — 121

	FRESHMAN YEAR  First Semester English 20-Exposition & Argumentation <sup>1</sup>		3 3 3
2.	Second Semester Psych 50 General Psychology Math 12 Business Calculus History Free Electives Economics 121 or 122 <sup>4</sup>		4 3 3 <u>3</u>
	SOPHOMORE YEAR First Semester BUS 110 Mgt & Org. Behavior	Credi	it 3 3
¥	Second Semester BUS 120 Financial Accounting		3
¥	First Semester English 65 Finance 250 Econ 221 Interm Micro* Econ 222 Interm Macro* Econ 211 Intro To Econ Stat*	· · · · · ·	3.3.3
	Second Semester  Speech 181 Communication Theory		3 .3 <u>9</u> .5
	SENIOR YEAR  First Semester  English 260		.3 .3
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Second Semester  Bus 397 Senior Business Design I <sup>1</sup> Bus 398 Senior Business Design II <sup>1</sup> Free Electives	<u>1</u> <u>1</u> 	.2
1 <sup>t</sup>	Economics students must earn the grade of better in all Economies and Finance courses to credit toward graduation.	"C" receiv	or /e
_	¹In-Major Writing Intensive		

3510ctives 18 hours of which 12 hours must be Economics to be selected from Econ, 223, Econ 230,

Econ 260 or any 300 level Econ Lecture course and accumulate 6 hours from the following Psych 212, Psych 372, Psych 374 or any one 200 or 300 level Business Lecture courses.

<sup>3</sup>Economics 220; English 215, 230, 281, 345, 350; Foreign Language Beyond Second Semester; History 340, 355; Philosophy 25, 35, 75, 212, 340, 355; Any Political Science; Psychology 270, 380; Any Sociology; Speech 235

'A grade of "C" or better is required for Econ 121, 122, 221, 222, and Econ 211.

#### Minor in Economics

Students majoring in other disciplines are encouraged to develop a minor in economics. The formal minor in economics is designed to provide students with a solid understanding of economic principles and concepts and the ability to apply this knowledge to a host of economic, public policy and business problems. This program will be of particular benefit to those students whose major field of study may lead them to pursue a management position or later graduate studies in business.

The minor in economics requires the completion of a minimum of 15 hours of economics course work with a grade of "C" or better. Required courses in the minor program include both Economics 121 and 122 and at least one of the intermediate theory courses, Economics 221 and/or Economics 222. The choice of which intermediate theory course depends on which 300 level economic electives the student, in consultation with the department's minor advisor, selects for their program.

# **Energy/Technology Minor**

#### (15 hours)

Required courses:

- Econ 121-Principles of Microeconomics
- Econ 122-principles of Macroeconomics
- Econ 221-Intermediate Microeconomics Theory

#### And 6 hours from:

- Econ 311-Econometrics
- Econ 335-Cost Benefit Analysis
- Econ 340-Environmental & Natural Resource
   Economics
- Econ 345-Energy Economics

# International Economics Minor (15 hours)

Required courses:

- Econ 121-Principles of Microeconomics
- Econ 122-Principles of Macroeconomics
- Econ 222-Intermediate Macroeconomics Theory

#### And 6 hours from:

- Econ 322-International Trade
- Econ 351-Economic Development
- Econ 360-Comparative Economic Systems

#### **Economics Courses**

**100 Special Problems** (IND 1.0-6.0)Problems or readings on specific subjects or projects in the

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PREPARED: 07/01/10 - 11:23 MISSOURT UNIVERSITY OF SCIENCE AND TECHNOLOGY OFFICE OF THE REGISTRAR Recommics BS PROGRAM: CDAR6.04 PROGRAM: 18500004 PAGE 1 77777777 CATALOG YEAR: FS2009 Miner.Joe E Xx.1............... ----- COLUMN 2 -----2 COURSES DATE TYPE SCORE %% MSS SSP \*NOOFT MINOR REQUIREMENT - A MINOR WILL BE SELECTED FROM ANY 01/1900 COMP 0020 48 00 00 DISCIPLINE OTHER THAN THE MAJOR WITH THE APPROVAL OF THE STUDENT'S ADVISOR (12 - 15 HRS) \_\_\_\_\_\_ ----- AT LEAST ONE REQUIREMENT HAS NOT BEEN SATISFIED <----- \* 1 SUB-GROUP NO 1 ALL SENIORS ARE REQUIRED TO COMPLETE SENIOR ASSESSMENT \* - 1) NEEDS: 15.0 HOURS \*NO 8 MINIMUM OF 120 HRS REQUIRED (ADDITIONAL HOURS MAY BE GRADUATION. NEEDED TO SATISFY ALL REQUIREMENTS BELOW) 1 SOB-GROUP --> NEEDS: EARNED: 6.0 HOURS - 1) NEEDS: 1 COURSE SELECT FROM: ECON ASSESS \*--> NEEDS: 114.0 HOURS OX 2 CUMULATIVE HRS. A 2.00 GPA REQUIRED TO GRADUATE "NO 9 INDIVIDUAL EXPRESSION (15 HRS) EARNED: 6.0 HOURS 1 SUB-GROUP 2.000 GPA \*--> NEEDS: 5 SUB-GROUPS EXCENTION TO MERCE. NO 3 ALL COURSES TAKEN ON CAMPUS MUST HAVE 2.00 GPA \*
...> NEEDS: 1 SUB-GROUP 2.000 GPA \* SELECT PROM: ART 80,85 MUSIC SÓ THEATRE 90 2.000 GPA \* - 2) NEEDS: 3.0 HOURS - 1) NEEDS: SELECT FROM: ENGLISH 75 , 80 , 102 , 105 , SELECT FROM: \*\*\*\*\*\* \*\*\* 106 , 177 , 178 OK 4 TRANSFERRED COURSES - - 3) PRINCIPLES OF SPEECH ARNED: 6.0 HOURS 1 SUB-GROUP 2.000 GPA \* NEEDS: 3.0 HOURS

SPOS MATH 14 3.0 A T SPOS MATH 15 3.0 A T \* SELECT FROM: SPEM S 85

SPOS MATH 22 0.0 F # SPOS MATH 14A 0.0 F T \* 4) EXPOSITION AND ARGUMENTATION EARNED: 6.0 HOURS NEEDS: 3.0 KOURS OK 5 HONORS AT GRADUATION BASED ON THE UM CUMULATIVE GPA SELECT FROM: ENGLISH 20 + - 5) N±≠⊅s: 3.0 HOURS 3.2 CUM, 3.5 MAGNA, 3.8 SUMMA SELECT FROM: ENGLISH 65 OR TON COM 65 EARNED: .0 HOURS 1 SUB-GROUP \_\_\_\_\_\_\_ NOOPT SCHOOL REQUIREMENTS INCLUDE A 2.00 IN MAJOR FIELD OF STUDY\*NO 10 NATURAL SYSTEMS (13 HRS) 1 SUB-GROUP 2.000 GPA \*--> NEEDS: S SUB-GROUPS ) NEEDS: 2.000 GPA \* - 1) GENERAL PSYCHOLOGY SELECT FROM: ECON \*\*\* --> NEEDS: · 1) NEEDS: NEEDS: 3.0 HOURS SELECT FROM: PSYCH NO 6 LAST 60 HRS SHOULD BE ON CAMPUS. 15 HRS OF THE FINAL 60 \* • 2) NEEDS: 3.0 HOURS MAY BE TRANSFERRED WITH DEPT APPROVAL. MORE THAN 15 HRS \* SELECT FROM: BIO SCI 110 , 231 , 235 , 251 \* - 3) NEEDS: 1 COURSE REQUIRES PROVOST APPROVAL. 1 SUB-GROUP SELECT PROM: MATH + - 4) NEEDS: 3.0 HOURS 1 , 5 , 10 - 1) NEEDS: 60.0 HOURS SELECT FROM: CHEM SELECT FROM: \*\*\*\*\*\*\* \*\*\* GEOLOGY 51 OR GEO ENG 51 GEOLOGY 52 GEO ENG 50 OR GEOL 50 PHYSIC 6 , 7 , 9 , 11 , 21 , 23 PHYSICS 4 , NO 7 COMMUNICATION COMPONENT 2 SUB-GROUPS - 1) ONE COMMUNICATION INTENSIVE COURSE REQUIRED IN THE \* - 5) LAB WITH LIVING OR PHYSICAL COURSE NEEDS: 1 COURSE SELECT FROM: BYO SCT 112 , 211 CHEM 2 4 , 5 GEOLOGY 52 PHYSICS 5 , 8 , 10 , 22 , 24 GEOLOGY 51 OR NEEDS: 1 COURSE SELECT FROM: CRSE LIST NOT AVAILA BLE SEE DEPT GEO ENG 51 - OR) TWO COMMUNICATION EMPHASIZED COURSES REQUIRED IN THE STUDENTS MAJOR \*----2 COURSES \*NO 11 HUMAN INSTITUTIONS (12 HRS) NEED9: SELECT FROM: ECON 345 SEE DEPT \*--> NEEDS: 4 SUB-GROUPS - - 1) NEEDS: 3.0 HOURS FOR OTHER CRSE - 2) ONE COMMUNICATION INTENSIVE COURSE IN OR OUT OF THE SELECT FROM: HISTORY 111 , 112 , 175 , 176 STUDENTS MAJOR - 2) MACROECONOMICS NEEDS: 3.0 HOURS NEEDS: 1 COURSE SELECT FROM: ENGLISH 350 MATH 209 , 303 \* SELECT FROM: ECON 122
MGT SYS 1 , 397 PHYSICS 322 , 332 \* - 3) AMERICAN GOVERNMENT(WILLIAMS LAW) 85 , 283 EDUC 251 \* NEEDS: 3.0 HOURS 222 , 245 , 250 , 251 HISTORY 299 , \* SELECT FROM: POL SCI SP&M S 85 , 283 EDUC 251 ART 310 , 312 , 321 , 322 , 329 , 340 , 341 , \* - 4) NEEDS: 3.0 HOURS
342 , 360 PSYCH 140 ENG MGT 253 \* > NOT FROM: FRENCH 342 , 360 PSYCH 140 ENG MGT 253 ENGLISH 60 , 160 , 65 OR TCH COM 65 BUS 10 , 11 M&IS 397 -> NOT FROM: FRENCH 1 , 2 GERMAN 1 , \*\*\*\*\*\*\* 3 PAGE 2 \*\*\*\*\*\*\* GEOLOGY 324 , 375 , 423 CIV ENG 298 OR \*\* DEGREE AUDIT PRODUCED FOR: ENV ENG 298 OR ARCH ENG 298 TCH COM 65 OR \*\* \*-----ENGLISH 65 TCH COM 390 CIV ENG 298 OR \*\* Registrar's Office FEDERAL LAW

ARCH ENG 298

STUDENTS MAJOR

CHEM 251

- OR) TWO COMMUNICATION EMPHASIZED COURSES IN OR OUT OF THE \*\* Missouri S&T

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OVETON OF THE REGISTRAR MISSOURT UNIVERSITY OF SCIENCE AND TECHNOLOGY PREPARED: 07/01/10 - 11:23 Economics BS PAGE 2 PROGRAM: 18500004 77777777 CATALOG YEAR: FS2009 Miner, Joe E ----- COLÜMIN ---- COLUMN 3 ----RUSSIAN 1 , 2 SPANISH 1 , " - 3) INTRO TO ECON STATISTICS NEEDS: 3.0 HOURS 220 ENGLISH 215 , 230 , SELECT FROM: ECON 211 SELECT FROM: ECON 281 , 345 , 350 HISTORY 340 , 355 PHILOS 225 , 235 , 75 , 212 , 340 , 355 POL SCI \*\*\* PSYCH 308 , 380 \*NO 18 ECONOMICS EMPHASIS (18 HRS OF WHICH 12 MUST BE IN ECON) 2 SUB-GROUPS w \* \* > NEEDS: SOCIOL \*\*\* SP&M S 235 FRENCH \*\*\* - - 1) NEEDS: 12.0 HOURS SELECT FROM: ECON 223 OR 230 OR 3\*\* GERMAN \*\*\* RUSSIAN \*\*\* SPANISH \*\*\* \* - 2) NEEDS: 6.0 HOURS LATIN \*\*\* SELECT FROM: PSYCH 307 , 372 , 374 BUS 3\*\* NO 12 CAPSTONE COURSE 1 SUB-GROUP --> NEEDS: \*NO 19 FREE ELECTIVES (13 HRS) - l) NEEDS: 3.0 HOURS 0 SUB-GROUPS 2.000 GPA \* EARNED: 6.0 HOURS SELECT FROM: MAIS 397 1 SUR-GROUP \* - 1) 6.0 HOURS ADDED 2 COURSES TAKEN 2.000 GPA NO 13 INFORMATION TECHNOLOGY (12 HRB) SPOS MATH 14 3.0 A T SPOS MATH 15 3.0 A T SPOS MATH 22 0.0 F T SPOS MATH 14A 0.0 F T 4 SUB-GROUPS --> NEEDS: SPOS MATH 22 0.0 1 NEEDS: 7.0 HOURS - 1) IMPLEMENTING INFORMATION SYSTEMS: USER PERSPECTIVE WEEDS: 3.0 HOURS -- NOT FROM: MIL ARMY 10 , 20 , 30 , 40 SELECT FROM: ISAT

- 2) IMPLEMENTING INFORMATION SYSTEMS: DATA PERSPECTIVE NEEDS: 3.0 HOURS SELECT FROM: ISAT - 3) INTRO TO MANAGEMENT INFORMATION SYSTEMS NEEDS: 3.0 HOURS SELECT FROM: ISST 50

- 4) WEB AND DIGITAL MEDIA DEVELOPMENT WEEDS: 3.0 HOURS

SELECT FROM: ISST

NO 14 MANAGEMENT (12 HRS) 4 SUB-GROUPS --> NEEDS: - 1) FINANCIAL ACCOUNTING NEEDS: 3.0 HOURS

SELECT FROM: BUS - 2) MICRORCONOMICS NEEDS: 3.0 HOURS SELECT FROM: ECON - 3) MGT & ORGANIZATIONAL BEHAVIOR NEEDS: 3.0 HOURS

SELECT FROM: BUS · 4) BUSINESS LAW NERDS: 3.0 HOURS

SELECT FROM: BUS \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ NO 15 QUANTITATIVE SKILLS (7 HRS)

· > NEEDS:

- 1) BUSINESS CALCULUS NEEDS: 4.0 HOURS SELECT PROM: MATH - 2) STATISTICS

NEEDS: 3.0 HOURS SELECT FROM: STAT 211 \_

NO 16 COMMUNICATION SKILLS (6 HRS) ··> NEEDS: 2 SUB-GROUPS - 1) COMMUNICATION THEORY NEEDS: 3.0 HOURS SELECT FROM: SPAN S 181

2 SUB-GROUPS

- 2) PRACTICUM IN TECHNICAL COMMUNICATION NEEDS: 3.0 HOURS

SELECT FROM: ENGLISH 260 OR TCH COM 260 \_\_\_\_\_\_ NO 17 ROONOMICS CORE (9 HRS) --> NEEDS: 3 SUB-GROUPS

- 1) INTERMEDIATE MICRO ECON NEEDS: 3.0 HOURS SELECT FROM: ECON - 2) INTERMEDIATE MACRO ECON NEEDS: 3.0 HOURS SELECT FROM: ECON 222 MIL AIR 150 , 181 , 250 , 251

SELECT FROM: \*\*\*\*\*\* \*\*\* 

\*OK 20 COURSES THAT STUDENTS HAVE TAKEN AS GRADUATE CREDIT OR MARKED AS REPEATED COURSE GFA ADJUSTED

EARNED: . O HOURS 1 SUB-GROUP \*OK 21 EXTRA TRANSFER COURSES NOT COUNTED TOWARD A DEGREE

w EARNED: . O HOURS

\*OK 22 EXTRA COURSE WORK DONE ON CAMPUS THAT DOES NOT COUNT TOWARD A DEGREE

EARNED: . O HOURS 1 SUB-GROUP 

\*\* DEGREE AUDIT PRODUCED FOR: \* WARNING \*

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MISSOURI UNIVERSITY OF SCIENCE AND TECHNOLOGY OFFICE OF THE REGISTRAR PREPARED: 07/01/10 - 13:44 Economics BS PROGRAM: CDAR6.04 PROGRAM: 18500004 PAGE 1 CATALOG YEAR: F82009 Miner.Joe E ..... COLUMN 2 ----2 COURSES DAME TVDE SCORE %% MSS SSP "NOOPT MINOR REQUIREMENT . A MINOR WILL BE SELECTED FROM ANY 01/1900 COMP 0020 48 00 00 DISCIPLINE OTHER THAN THE MAJOR WITH THE APPROVAL OF THE STUDENT'S ADVISOR (12 - 15 HRS) NO 1 ALL SENIORS ARE REQUIRED TO COMPLETE SENIOR ASSESSMENT " - 1) NEEDS: 15.0 HOURS SELECT FROM: MINO R PRIOR TO GRADUATION. CONTACT YOUR DEPARTMENT FOR INSTRUCTIONS AT THE BEGINNING OF THE SEMESTER OF \*NO 8 MINIMUM OF 120 HRS REQUIRED (ADDITIONAL HOURS MAY BE GRADUATION. NEEDED TO SATISFY ALL REQUIREMENTS BELOW) 1 SUB-GROUP --> NEEDS: 1 COURSE EARNED: 6.0 HOURS I) NEEDS: \* -- > NEEDS: 114.0 HOURS SELECT FROM: ECON ASSESS OK 2 CUMULATIVE HRS. A 2.00 GPA REQUIRED TO GRADUATE \*NO 9 INDIVIDUAL EXPRESSION (15 HRS) 5 SUB-GROUPS EARNED: 6.0 HOURS 1 SUB-GROUP 2.000 GPA \*--> NEEDS: ========= + 1) NEEDS: 3.0 HOURS SELECT FROM: ART NO 3 ALL COURSES TAKEN ON CAMPUS MUST HAVE 2.00 GPA \* 80 , 85 MUSIC 50 1 SUB-GROUP 2.000 GPA " THEATRE 90 ··· NEEDE: 2.000 GPA \* - 2) NPEDS: 3.0 HOURS - 1) NEEDS: SPLECT FROM: ENGLISH 75 , 80 , 102 , 105 , SELECT FROM: \*\*\*\*\*\* \*\*\* 106 , 177 , 178 \* - 3) PRINCIPLES OF SPEECH OK 4 TRANSPERRED COURSES EARNED: 6.0 HOURS 1 SUB-GROUP 2.000 GPA " NEEDS: 3.0 HOURS SPOS MATH 14 3.0 A T SPOS MATH 15 3.0 A T " SELECT FROM: SPAM S SS SPOS MATH 22 0.0 F T SPOS MATH 14A 0.0 F T \* 4) EXPOSITION AND ARGUMENTATION EARNED: 6.0 HOURS NEEDS: 3.0 HOURS SELECT FROM: ENGLISH 20 OK 5 HONORS AT GRADUATION BASED ON THE UM CUMULATIVE GPA \* × - 5) NEEDS: 3.0 HOURS 3.2 CUM, 3.5 MAGNA, 3.8 SUMMA SELECT FROM: ENGLISH 65 OR TCH COM 65 l SOB-GROUP EARNED: .0 HOURS NOOPT SCHOOL REQUIREMENTS INCLUDE A 2.00 IN MAJOR FIELD OF STUDY NO 10 NATURAL SYSTEMS (13 HRS) 1 SUE-GROUP 2.000 GPA \*--> NEEDS: S SUB-GROUPS ··> MEEDA: 2.000 GPA \* - 1) GENERAL PSYCHOLOGY - 1) NEEDS: \* NEEDS: 3.0 HOURS SELECT FROM: MCON \*\*\* SELECT FROM: PSYCH NO 6 LAST 60 HRS SHOULD BE ON CAMPUS. 15 HRS OF THE FINAL 60 \* - 2) NEEDS: 3.0 HOURS SELECT FROM: BIO SCI 110 , 231 , 235 , 351 MAY BE TRANSFERRED WITH DEPT APPROVAL. MORE THAN 15 HRS \* 1 COURSE \* - 3) NEEDS: REQUIRES PROVOST APPROVAL . SELECT FROM: MATH 1 SOB-GROUP --> NEEDS: \* - 4) NEEDS: 3.0 HOURS - 1) NEEDS: 60.0 HOURS 
 SELECT FROM:
 CHEM
 1 , 5 , 10

 GEOLOGY
 51 OR GEO ENG
 51 GROLOGY
 52

 GEO ENG
 50 OR GEOL
 50 PHYSICS
 4 ,
 SELECT FROM: CHEM SELECT FROM: \*\*\*\*\*\* \*\*\* NO 7 COMMUNICATION COMPONENT 6 , 7 , 9 , 11 , 21 , 23 2 SUB-GROUPS - 1) ONE COMMUNICATION INTENSIVE COURSE REQUIRED IN THE \* - 5) LAB WITH LIVING OR PHYSICAL COURSE NEEDS: 1 COURSE SELECT FROM: STO SCI 112 , 211 CHEM STUDENTS MAJOR MEEDS: 1 COURSE 4 , 5 GEOLOGY 52 PHYSICS 5 , SELECT FROM: CRSE LIST NOT AVAILA 8 , 10 , 22 , 24 GROLOGY 51 OR BLE SEE DEPT GEO ENG 51 · OR) TWO COMMUNICATION EMPHASIZED COURSES REQUIRED IN THE \*====**n####**#**#** STUDENTS MAJOR \*NO 11 HUMAN INSTITUTIONS (12 HRS) 2 COURSES NEEDS: SELECT FROM: ECON 345 SEE DEPT w -- > MEEDS: 4 SUB-GROUPS - - 1) NEEDS: 3.0 HOURS for other crse - 2) ONE COMMUNICATION INTENSIVE COURSE IN OR OUT OF THE SELECT PROM: HISTORY 111 , 112 , 175 , 176 \* - 2) MACROECONOMICS STUDENTS MAJOR 1 COURSE NEEDS: 3.0 HOURS NEEDS: SELECT FROM: ENGLISH 350 MATH 209 , 303 SELECT FROM: ECON - 3) AMERICAN GOVERNMENT(WILLIAMS LAW) MGT 3YS 1 , 397 PHYSICS 322 , 332 55 , 483 MDUC 251 \* NEEDS: 3.0 HOURS 222 , 245 , 250 , 251 HISTORY 299 , \* SELECT FROM: POL SCI 90 85 , 283 NEEDS: 3.0 HOURS SPAM 9 ART \* - 4) NEEDS: 3.0 HOURS 310 , 312 , 321 , 322 , 329 , 340 , 341 , -> NOT FROM: FRENCH 2 GERMAN 342 , 360 PSYCH 140 ENG MGT 253 ENGLISH 60 , 160 , 65 OR TCH COM 65 BUS 10 , 11 M&IS 397 \*\*\*\*\*\*\* 3 PAGE 2 \*\*\*\* \*-----GEOLOGY 324 , 375 , 423 CIV ENG 298 OR \*\* DEGREE AUDIT PRODUCED FOR: WARNING ENV ENG 298 OR ARCH ENG 298 TCH COM 65 OR ENGLISH 65 TCH COM 390 CIV ENG 298 OR ARCH ENG 298 CHEM 251 PEDERAL LAW \*\* Registrar's Office \*\* 103 Parker Hall PROHIBITES -- Missouri S&T TRANSMITTAL TO A

THIRD PARTY

- OR) TWO COMMUNICATION EMPHASIZED COURSES IN OR OUT OF THE

STUDENTS MAJOR

From: 573 341 4362 Page: 10/24 Date: 9/14/2010 12:08:17 PM

MISSOURT UNIVERSITY OF SCIENCE AND TECHNOLOGY APPECE OF THE REGISTRAR PREPARED: 07/01/10 - 13:44 Economics BS PROGRAM: CDAR6.04 PAGE 2 PROGRAM: 18500004 27277777 CATALOG YEAR: \$22009 Miner.Jos E - COLUMN ..... COLUMN 3 ----- → 3) INTRO TO ECON STATISTICS 1, RUSSIAN 1 , 2 SPANISH WEEDS: 3.0 HOURS 2 BELECT FROM: ECON 220 ENGLISH 215 , 230 , SELECT FROM: ECON 281 , 345 , 350 HISTORY 340 , 355 . add Econ 260 \*NO 18 ECONOMICS EMPHASIS (18 HRS OF WHICH 12 MUST BE IN ECON) PHILOS 225 , 235 , 75 , 212 , 340 , 355 2 SUB-GROUPS PSYCH 308 , 380 \*--> NEEDS: POL SCI \*\*\* -add 2\*\* or 3PAM S 235 \* - 1) NEEDS: 12.0 HOURS FRENCH \*\*\* \*\*\* SOCIOT OR 230 OR 3--SELECT FROM: ECON 223 GERMAN \*\*\* RUSSIAN \*\*\* SPANISH \*\*\* \* - 2) NEEDS: 6.0 HOURS LATIN \*\*\* , 372 , 374 307 SELECT FROM: PSYCH BUS \$3... 19-add BUS 3"" NO 12 CAPSTONE COURSE --> NEEDS: \*NO 19 FREE ELECTIVES (12 HRS) - 1) NEEDS: 3.0 HOURS 0 SUB-GROUPS 2.000 GPA EARNED: 6.0 HOURS SELECT FROM: MAIS 1 SUB-GROUP =\*--> MEEDS: \_\_\_\_\_\_ \* - 1) 6.0 HOURS ADDED 2 COURSES TAKEN 2.000 GPA NO 13 INFORMATION TECHNOLOGY ( HRS) SPOS MATH 22 0.0
NEEDS: 7.0 HOURS SPOS MATH 14 3.0 A T SPOS MATH 15 3.0 A T 4 SUB-GROUPS ··> WEEDS: 14A 0.0 F T 22 0.0 F T SP08 MATH - 1) IMPLEMENTING INFORMATION SYSTEMS: USER PERSPECTIVE NEEDS: 3.0 HOURS -> NOT FROM: MIL ARMY 10 , 20 , 30 , 40 51 SELECT FROM: ISAT\_\_\_ MIL AIR 150 , 151 , 250 , 251 2) IMPLEMENTING INFORMATION SYSTEMS: DATA PERSPECTIVE SELECT FROM: \*\*\*\*\*\* \*\*\* NEEDS: 3.0 HOURS SELECT FROM: YS&T \*OK 20 COURSES THAT STUDENTS HAVE TAKEN AS GRADUATE CREDIT OR 3) INTRO TO MANAGEMENT INFORMATION SYSTEMS MARKED AS REPEATED COURSE GPA ADJUSTED 4) WEB AND DIGITAL MEDIA DEVELOPMENT \_ REDS: 3.0 HOUPS NEEDS: 3.0 HOURS ≠ EARNED: .0 HOURS 1 SUB-GROUP \*OK 21 EXTRA TRANSFER COURSES NOT COUNTED TOWARD A DEGREE - EARNED: . O HOURS 1 SUB-GROUP SELECT FROM: ISET \*OK 22 EXTRA COURSE WORK DONE ON CAMPUS THAT DOES NOT COUNT NO 14 MANAGEMENT (12 HRS) TOWARD A DEGREE 4 SUB-GROUPS · ·> NEEDS: EARNED: .0 HOURS 1 SUB-GROUP - 1) FINANCIAL ACCOUNTING NEEDS: 3.0 HOURS \*\*\*\*\*\*\*\*\*\*\*\* END OF ANALYSIS \*\*\*\*\*\*\*\*\*\*\*\* SELECT FROM: BUS 2) MICROECONOMICS Add "C" or better stipulation to: NEEDS: 3.0 HOURS SELECT FROM: ECON - 3) MGT & ORGANIZATIONAL BEHAVIOR Econ 121 NEEDS: 3.0 HOURS SELECT FROM: BUS Econ 122 4) BUSINESS LAW NEEDS: 3.0 HOURS SELECT FROM: BUS Econ 221 NO 15 QUANTITATIVE SKILLS (7 HRS) Econ 222 2 SUB GROUPS · · > NEEDS: - 1) BUSINESS CALCULUS NEEDS: 4.0 HOURS Econ 211 SELECT FROM: MATH 2) STATISTICS NEEDS: 3.0 HOURS SELECT FROM: STAT NO 16 COMMUNICATION SKILLS (6 HRS) --> NEEDS: 1) COMMUNICATION THEORY MERDS: 3.0 HOURS SELECT FROM: SPAM S 181 - 2) PRACTICUM IN TECHNICAL COMMUNICATION NEEDS: 3.0 HOURS SELECT FROM: ENGLISH 260 OR TOH COM 260 \_\_\_\_\_\_\_\_\_\_\_\_\_ NO 17 ECONOMICS CORE (9 HRS) 3 SUB-GROUPS --> NEEDS: 1) INTERMEDIATE MICRO ECON NEEDS: 3.0 HOURS ww prores addit produced for: SELECT FROM: ECON FEDERAL LAW \*\* Registrar's Office - 2) INTERMEDIATE MACRO ECON PROHIBITS 103 Parker Mall NEEDS: 3.0 HOURS TRANSMITTAL TO A \*\* Missouri SaT SELECT FROM: ECON THIRD PARTY 2 4-----

\*\*\*\*\*\*\*\* CONTINUED ON COLUMN 4 PAGE

Page: 11/24 From: 573 341 4362

Date: 9/14/2010 12:08:17 PM

## Huffman, Angie L.

From:

Scott, Marcy L.

Sent: To:

Tuesday, July 13, 2010 10:34 AM

Subject:

Huffman, Angle L. RE: pdf649f8.pdf

Angle,

On the proposed catalog page, you can nix that footnote you circled with the question mark (I believe that is left over from when we were part of the Bus School).

In column 2 after Psych 374, you should remove the word 'one' and it should be 'any 200 or 300 level Business lecture courses'.

Honestly, superscript 2 shouldn't begin with the word 'Electives' because it's really Econ emphasis. The way it reads from before makes it easily confused with the Free Electives. Could it be changed to 'Economics emphasis electives, 18 hours of which 12 . . . ??

Thanks Ang, you're a lifesaver!

~marcy

From: Huffman, Angle L.

Sent: Tuesday, July 13, 2010 10:02 AM

To: Scott, Marcy L. Subject: pdf649f8.pdf

Marcy,

You can take a look at the changes I made off the DC form.

Angle

From: 573 341 4362

Page: 12/24

Date: 9/14/2010 12:08:18 PM

From: 573 341 4362

Page: 1/5 Date: 8/31/2010 11:44:51 AM

Effective Year: 2011 Effective Term: Summer	<b>pc #</b> 0370 - 2010 - BiaSa'- <i>aa</i> o-aa erm)
Degree Change For	m (DC)
This form is to be used for creating or modifying degree progra	ams, emphasis areas, and minors.
Title of degree program, emphasis area, or minor: Bachelor of Science, Biological Sciences	
Department: Biological Sciences	
Briefly describe action requested (Attach documentation) We are changing our curriculum to alter the math requirement math through calculus (Math 8 or 14) is required, but we no it required. Given that many students come in with college or A to take fewer hours of math. The key requirement remains the calculus.	onger state that 10 hours of math are
Please note the minor changes (in red) on the following page.	
	,
Recommended by Department: (Chair signature	Date: 8/23/10
Recommended by: The Journey Chair signature  Recommended by: Chair signature	Date: 9/10/2010
Approved by Curricula Committee: (Chair signature	Date:
Approved by Faculty Senate:(Chair signature	Date:

(Revised 1/31/2008)

From: 573 341 4362 Page: 13/24 Date: 9/14/2010 12:08:18 PM

From: 573 341 4362 Page: 2/5 Date: 8/31/2010 11:44:51 AM

## Bachelor of Science Biological Sciences Degree Requirements

A minimum of 130 credit hours is required for a Bachelor of Science degree in Biological Science and an average of at least two grade points per credit hour must be obtained. These requirements for the B.S. degree are in addition to credit received for basic ROTC. The Biological Science B.S. degree must include 46 semester hours of biological sciences course work, to include:

Bio Sc 102-Intro to Bio Sc
Advanced biological sciences or approved course work in other departments for a total of 46 credit hours of biology-related classes
22 semester hours of chemistry to include: Chem 1,2,3, & 4 (General chemistry)
2 semesters of College (General) Physics and labs Phys 31 (21), 22, 35 (25), 26 8 (10)
Calculus: Math 8 (or Math 14) 5 (4)
12 semester hours of humanities, excluding foreign language, and to include: English 20 (entering students will normally take English 20 either semester of the first

Elective credits: In consultation with his or her advisor, each student will elect sufficient additional courses to complete a minimum of 130 credit hours. A minimum grade of "C" is required for each Biological Science course used to fulfill the B.S. degree requirements.

9 semesters hours of social sciences, (to include Hist 112 or 175 or 176 or Pol Sc 90, or equivalent . . . . . . 9 From: 573 341 4362 Pa

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Date: 9/14/2010 12:08:18 PM

From: 573 341 4362

Page: 3/5

Date: 8/31/2010 11:44:52 AM

## Bachelor of Science Biological Sciences Degree Requirements

old version

A minimum of 130 credit hours is required for a Bachelor of Science degree in Biological Science and an average of at least two grade points per credit hour must be obtained. These requirements for the B.S. degree are in addition to credit received for basic ROTC. The Biological Science B.S. degree must include 46 semester hours of biological sciences course work, to include:

Bio Sc 102-Intro to Bio Sc       .1         Bio 110-Gen Bio or Bio Sc 111-Princ Bio       .3         Bio Sc 112-Gen Bio Lab       .2         Bio Sc 113-Biodiversity       .3         Bio Sc 211-Cellular Biology       .3         Bio Sc 212-Cellular Biology Lab       .1         Bio Sc 221-Microbiology       .3         Bio Sc 222-Microbiology Lab       .2         Bio Sc 231-General Genetics       .3         Bio Sc 251-Ecology       .3         Bio Sc 310-Seminar       .1
Advanced biological sciences or approved course work in other departments for a total of 46 credit hours of biology-related classes
20 semester hours of chemistry to include general chemistry (Chem 1,2,3, & 4)
2 semesters of College (General) Physics and labs Phys 31 (21), 22, 35 (25), 268 (10)

The Math/Statistics requirement will be a minimum of 10 credit hours with a requirement for Math 8 or Math 14.

9 semesters hours of social sciences, (to include Hist 112 or 175 or 176 or Pol Sc 90, or equivalent . . . . . 9

Elective credits: In consultation with his or her advisor, each student will elect sufficient additional courses to complete a minimum of 130 credit hours. A minimum grade of "C" is required for each Biological Science course used to fulfill the B.S. degree requirements.

Date: 9/14/2010 12:08:19 PM From: 573 341 4362 Page: 15/24 cc File #8036-2010-Hist-331-11 Effective Year: 2011 Term: Summer 🔲 Fall 🔲 Spring 🖾 Course Change Form (CC) This form is for creating or modifying permanent courses. Course Changes (Check all changes.) Prerequisites 🗌 Credit Hours Course Deletion 🔲 New Course 🖾 Course Number ... Co-listing 🔲 Course Title 🗌 Catalog Description 🔲 Course Information (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.) 1. Department: History and Political Science Proposed: 331 2. Discipline and Course Number: Present: 3. Course Title: Present: Proposed: 331 Abbreviated Course Title: Nazism & Holocaust (24 Spaces or Less. Only needed for New Courses or Title Changes.) 4. Catalog Description (300 Character Spaces or Less.) Present: Proposed: This course focuses on the rise of Nazism and its consequences for politics, society, and culture in Europe. The period's history will be examined from the perspective or perpetrators, victims, and bystanders with emphasis on the Holocaust and its legacy. 5. If course requires field trip check box: 🗌 Total: Lab: Present: Lecture: 6. Credit Hours: Lecture: 3.0 Lab: 0 Total: 3.0 Proposed: 7. Prerequisites: Present: Proposed: Hist 112 Elective for Majors: 🛛 8. Regulred for Majors: 🔲 This course is an important addition to our curriculum, one that will broaden our 9. Justification: offerings in European history and one that reflects an important new area of academic research. 10. Semesters previously offered as an experimental course (101, 201, 301, 401): ES 2007 & F52009 11. List all co-listed courses, initialed by Dept. Chair, if signature does not appear below-3) 2) 1) 5) 4). Recommended by Department (Chair aignature) Recommended by Discipline Specific Curricula Committee

(Revised 1/29/09)

Date:

Date:

(Chair signature)

(Chair signature)

(Chair signature)

Approved by Curricula Committee:

Approved by Faculty Senate: \_\_

From: 573 341 4362 Page: 16/24 Date: 9/14/2010 12:08:19 PM

Effective Term; ES 2010

CC File # 8058-2010-Econ-360-35

# Course Change Form (CC) This form is for creating or modifying permanent courses.

	TITIO TOTAL DE LOS GIOS	,,,,,,			
<u>Course Change</u>	(Check all changes.)			_	
New Course 🗌	Course Deletion 🗌		Hours 🗌	Prerequisites 🛄	
Course Title 🗌	Catalog Description 🗔		Number 🗵	Co-listing 🗍	_
<u>Course Inform</u>	ation (1-9 Must Be Comple			ank if no change is being made.	)
1. School/College			epartment: E		
-	Course Number: Pres		7	osed: 360	
<b>-</b>	Present: Statistical Mode Proposed:	els in Actuarial	Science		
	Course Title: Stat models	in Actua Sci			
	(24 Spaces or Less. Only n	eeded for Nev	v Courses or Ti	tle Changes.)	
	otion (40 Words or Less)				
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Proposed:					
7. Required for Ma	aiors: 🗌 Elective for M	lajors: 🏻			
8. Justification:	· •	•	355 became En	ergy Economics to match it's	3 CO-
	listed partner MiEng 355 (	reference CC	file#7730.) T	hat created 2 Econ 355 cours	ses.
		on 355 (Stat I	Models in Actua	rial Sci) now needs a differe	:nt
O Carrantana musik	number. viously offered as an exper	imantal saurs	- /101 201 2	31 401).	
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Recommended by	D5CC School/Follogo:	y Charles	best-	Date: 9/2/10	
recommended by		(Dcan signature)			
Recommended by	UMR Curricula Committee	:		Date:	
		(Chair signature)		(Action)	
Recommended by	Academic Council:			Date:	
	<del></del>	(Chair signature)		(Action)	

From: 573 341 4362 Page: 17/24 Date: 9/14/2010 12:08:19 PM

From: 573 341 4362

Page: 1/5

Date: 8/31/2010 11:17:57 AM

Effective Yea Term: Summa	ar: 2011 er 🗌 🛮 Fall	□ Spring 🖾		CC File a	*8060-20	010-GE-207-10
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New Course D		se Deletion 🗌	Credit Ho	ours 🗌	Prerequisi	ites 🗆
Course Title	Cata	log Description		lumber 🗆	Co-listing	
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		e Number: Pr		Prof	osed: 207	
3. Course Titl	e: Pr <b>esent</b>	; Geology and	Engineering of And	ient and Mo	darn Peru	
	Propose	d: Geology and	Engineering of And	ient and Mod	dern Peru	
	/24 Soa	Title: Geo Engin ices or Less. Onl	y needed for New 1	Courses or Ti	itle Changes.)	
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Proposed:	relations of	ceciogy, climat	ngineering of the C e, archeology, and ing Break are requ	nistory. A t	Picchu corrido echnical repoi	r, Including the inter- t and a week-long
5. If course r	equires field	trip check box:	<b>A</b>			
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Approved by	Curricula Co	ommittee:	<u> </u>			Date:
			(Chair signature)			Date:
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(Revised 1/29/09)

From: 573 341 4362 Page: 18/24 Date: 9/14/2010 12:08:20 PM

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Course Title 🗌		Description 🞏		lumber 🕰	Co-listing	
Course Inform			d. Leave "Propo	osed" items blai	nk if no change	is peing made.)
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2. Discipline an			nt : 401	Propo	sed: 470	
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	•	dvanced Toxicol	ogy			
Abbreviated	Course Title	e: or Less. Only ne	eded for New	Courses or Tit	le Changes.)	
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Date: \_\_\_\_\_

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(Chair signature)

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Approved by Curricula Committee: \_\_\_\_\_

Approved by Faculty Senate: \_\_\_\_\_

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From: 573 341 4362

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Date: 8/31/2010 11:41:42 AM

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Effective Ye Term: Summ	ar: 2011 er 🔲 🏻 Fall	Spring D	₫	CC File	*8063-2009'-ChE-4	(46-10)
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Course Cha		k all changes.)		_	53	
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Proposed:	Study of me each other Dynamics.	plecular-based	I modeling and simu ale modeling and ot Brownian Dynamics,	ner andinee	odologies and their connections with ring approaches. Molecular nechanics, and application cases in	l
5. If course n	equires field	trip check box	ki 🗀			
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		Proposed:	Lecture: 3	Lab:	Total: 3	
7. Prerequisit Present:		e standing or i	nstructor approval			
Propose	di ChE 445	or instructor	approval			
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9. Justificatio	characi 401 an engine has sec	teristics of bot d is now more ering courses:	h experiment and the complete and polisi	eory. It has ned, and bei and perspect	ience that is between and has the been offered twice before as ChE tter connected to other tives added recently. The subject ers, and industries.	
	ra fered as an e	experimental c	ourse (101, 201, 30	1, 401): Spr	ing 03, Fall 06	
	_	es, initialed b	y Dept. Chair, if sign	Strie does	not appear below.	
1)	2)		3)			
4)	5)	11	(6)	,	Page 5 /4 / Page 6	_
Recommende	ed by Depart	ment	(Chair signature)	<u> </u>	Date: <u>8//6/20/</u> 0	,
Recommende	ed by Discipii	ne Specific Cu	(Chair signature)	Durt 1x	Date: 9-13-10	
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Approved by	Faculty Sena	ate:			Date:	

(Revised 1/29/09)

From: 573 341 4362 Page: 20/24 Date: 9/14/2010 12:08:20 PM

From: 573 341 4362

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cc File #8064-2010-AE-180-31 Effective Year: 2011 Spring 🖾 Term: Summer 🔲 Fall 🔲 Course Change Form (CC) This form is for creating or modifying permanent courses. Course Changes (Check all changes.) Course Deletion 🔲 Credit Hours Prerequisites 🔲 New Course Co-listing Course Number Catalog Description 🔲 Course Title 🛄 Course Information (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.) 1. Department: Mechanical & Aerospace Enginee 2. Discipline and Course Number: Proposed: Present : AE 180 Present: Introduction to Aerospace Design 3. Course Title: Proposed: Abbreviated Course Title: (24 Spaces or Less. Only needed for New Courses or Title Changes.) 4. Catalog Description (300 Character Spaces or Less.) Introduction to methodology of aerospace vehicle design and principles of layout to meet a Present: given specification, mission objective, component sizing, design iteration and building & performance testing of models. Proposed: 5. If course requires field trip check box:  $\Box$ Total: 2 Lecture: 0 Lab: 2 Present: 6. Credit Hours: Total: 2 Lecture: 1 Lab: 1 Proposed: 7. Preroquisites: Present: **AE 161** Proposed: Elective for Majors: 🔲 8. Required for Majors: 🖾 This course should meet once per week for a lecture, in addition to the lab sections 9. Justification: which are currently in place. This will also provide more appropriate designation of instructor and TA duties, which will be beneficial to the process of teaching evaluations. 10. Semesters previously offered as an experimental course (101, 201, 301, 401): 11. List all co-listed courses, initialed by Dept. Chair, if signature does not appear below. 3) 2) 1) a) 4) 5) Recommended by Department Chaîr signature) Recommended by Discipline Specific Curricula Committee (Chair signature) Date: Approved by Curricula Committee: , (Chair signature) Date: Approved by Faculty Senate: (Chair signature) (Revised 1/29/09) This fax was received by GFI FAXmaker fax server. For more information, visit: http://www.gfi.com (Chair Signature)

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Effective Year: 2011

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Date: 8/31/2010 11:44:52 AM

Effective Term: Summer | Fall 🔲 Spring 🗵 BC File #2282-5p2011-BisSi-201

# Experimental Course Form (EC)

This form must be filed with the Secretary to the Campus Curricula Committee, after the department chair's notation, by the appropriate deadline. Filing deadlines for inclusion in the initial release of the Schedule of Classes are as follows:

> Summer and Fall Semester Offerings - January 1 Spring Semester Offerings - August 1

An EC form must be submitted each semester it is to be offered, not to exceed two offerings. An experimental course that is required should be submitted on a CC form. Co-listed offerings should be submitted on one form, originating from the primary discipline.

<b>Department:</b> Bio	logical Sciences	<b>&lt;</b> :		
Discipline and C	ourse Number: 201	Je,		
Course Title: Iss	ues in Public Health			
Abbreviated Titl	e (24 spaces or less	):		
Instructor(s): Y	ue-wern Huang			
Credit Hours:	Lecture: 2 BIO110 or BIO111	Lab: 0	Total: 2	
Prerequisites:	BIO110 or BIO111			
Semester(s) pre	eviously taught: 0	AS		
Due to gobalizatio	raphic barriers and be	: Nile Disease, E come widesprea	bola Hemorrhagic Fever ad. We will discuss the r urity, and the economy GLOBAL	lature of these
List all co-listed 1)	courses: Include init 2)	ials of Dept. Ch	air, if signature is not al 3)	ready included below.
4)	5)		6)	
Department Chair	- Flats	Asorten (Chai	r Signature)	Date: 7/23/10
Discipline Specific	: Curricula Committee:	Daniel (Chal	Fairly rsignature)	Date: <u> 9/10/2010</u>
Curricula Commit	tee:	(Chair	· Signature)	Date:

(Revised 1/31/2008)

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Date: 8/31/2010 11:17:58 AM

Effective Year: 2011

EC FILE # 2283-Sp2011- GE-401

Fatl 🔲 Spring 🖾 Effective Term: Summer 🗀

# Experimental Course Form (EC)

This form must be filed with the Secretary to the Campus Curricula Committee, after the department chair's notation, by the appropriate deadline. Filing deadlines for inclusion in the initial release of the Schedule of Classes are as follows:

> Summer and Fall Semester Offerings - January 1 Spring Semester Offerings - August 1

An EC form must be submitted each semester it is to be offered, not to exceed two offerings. An experimental course that is required should be submitted on a CC form. Co-listed offerings should be submitted on one form, originating from the primary discipline.

Department:	Geological	Sciences	and	Enginee	ring

Discipline and Course Number: GE 401

Course Title: Inca Civilization Geotechnical Engineering Practices

Abbreviated Title (24 spaces or less): Inca Geo Eng Practices

Instructor(s): Anderson and Luna

Credit Hours:

Lecture: 3

Lab:

Total:

Prerequisites: GE 50 or CE 215 or equivalent, and graduate standing

## Semester(s) previously taught:

## Brief Course Description: (40 words or less)

An in-depth study of geotechnical engineering practices within the Cuzco-Machu Plochu corridor, with emphasis on the inter-relationships between tectonics, geology, geomorphology, climate, hydrology, agriculture, quarrying, construction practices, irrigation, culture and history. A week-long field trip to Peru during Spring Break is required.

List all co-listed courses:	include initials of Pel 2명(명)	pt. Chair, if signature is not alread 3)	y included below.
4)	5)	6)	
Department Chair:	July Stor-	(Chair Signature)	Date: 7- <i>N-1</i> 0
Discipline Specific Curricula (			Date: 9-1716
Curricula Committee:		(Chair Signature)	Date:

(Revised 1/31/2008)

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#### 401: Inca Civilization Geotechnical Engineering Practices

Instructors: Neil Anderson, Leslie Gertsch, Ronaldo Luna

Catalog Description: An in-depth study of geotechnical engineering practices within the Inca civilization with emphasis on the Cuzco-Machu Picchu corridor. The course is focused on inter-relationships between tectonics, geology, geomorphology, climate, hydrology, agriculture, quarrying, construction, and irrigation practices, culture and history. A week-long field trip to Peru during Spring Break is required.

#### Course Objectives:

- Understand Inca culture well enough to appreciate how it influenced construction needs and practices.
- Understand regional tectoric activity, geology (emphasis on soils, building materials and precious metals), geomorphology, climate and hydrology well enough to appreciate how they influenced construction needs and practices.
- Understand Inca agricultural needs well enough to appreciate how they influenced construction needs and practices (emphasis on agricultural terraces, drainage, irrigation, aqueducts, reservoirs, food storage and transport).
- Learn the design and construction techniques employed by the Inca (emphasis on quarrying, transport and fitting of building stone, foundation drainage, bridges, the placement of structures, fortification, heating and ventilation). Understand why post-inca infrastructure is much less enduring.

#### Textbook:

ASCE... Kenneth Wright's books on the incas:

#### Grading:

Reading/Homework	20
Pre-trip Report	20
Quiz	20
Group Participation/Trip	20
Term Paper/Final Exam	20
	100

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<sup>&</sup>quot;Tipon: Water Engineering Masterpiece of the Inca Empire..."

<sup>&</sup>quot;Machu Picchu: A Civil Engineering Marvel"

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# 401: Inca Civilization Geotechnical Engineering Practices (two lectures per week plus field trip)

Week 1 (January 11th): Overview of the history of Peru: pre-Inca to recent

Week 2 (January 18th): Inca culture, with emphasis on customs that influenced construction and

agricultural practices, and inter-empire transportation.

Week 3 (January 25<sup>th</sup>): Geology of Peru, with emphasis on the Cusco-Machu Picchu corridor. Focused

on tectonics, building stone, soils and minerals

Week 4 (Feb 1°): Climate of Peru, with emphasis on the Cusco-Machu Picchu corridor. Focused

on climatic variations caused by changes in elevation, rainfall patterns, etc.

Week 5 (Feb 8th): Hydrology of Peru, with emphasis on the Cusco-Machu Picchu corridor.

Focused on transport, Irrigation and flooding.

Week 6 (Feb 15th): Agricultural practices in Inca Empire, with emphasis on soils, climate and

hydrology.

Week 7 (Feb. 22<sup>nd</sup>): Construction of agricultural terraces.

Week 8 (March 1th): trrigation practices, with emphasis on reservoirs and canals.

Week 9 (March 8th): Stone quarrying practices.

Week 10 (March 15th): One class. Quiz.

Week 11(March 22<sup>nd</sup>): Building construction practices, with emphasis on stone structures.

Week 12 (March 29th): Spring Break - FIELD TRIP TO PERU

Week 13: (April 5th): Transportation systems within Inca Empire.

Week 14 (April 12<sup>th</sup>): Bridges, with emphasis on construction.

Week 15 (April 19<sup>th</sup>): Earthquake proof structures.

Week 16 (April 26th): Mining practices, with emphasis on precious metals and salt.

Week 17 (May 3<sup>rd</sup>): Effect of Spanish conquest.

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Effective Year: 2011 Effective Term: Summer ⊠

Fall 🔲

Spring 🗌

EC File # 2286-552011-Phil-201

# **Experimental Course Form (EC)**

This form must be filed with the Secretary to the Campus Curricula Committee, after the department chair's notation, by the appropriate deadline. Filing deadlines for inclusion in the initial release of the Schedule of Classes are as follows:

Summer and Fall Semester Offerings - January 1
Spring Semester Offerings - August 1

An EC form must be submitted each semester it is to be offered, not to exceed two offerings. An experimental course that is required should be submitted on a CC form. *Co-listed offerings should be submitted on one form, originating from the primary discipline*.

Departme	nt: A	irts, Lang	guage and	Philosophy
Discipline	and	Course	Number:	Phil 201

Course Title: Ancient and Medieval Philosophy

Abbreviated Title (24 spaces or less)	): AncMedPhil	10 0 01 1
Abbreviated Title (24 spaces or less) Instructor(s): Jonathan Finch	Ancient/a	medician 1

Credit Hours: Lectu

Lecture: 4 La

ab: Total: 4

Prerequisites: None Entrance Reg.

Semester(s) previously taught: 0

Brief Course Description: (40 words or less)

The class will be taught in Prague. It will begin with the Pre-Socratics before covering Socrates, Plato, Aristotle, Augustine, Aquinas and the major schools of thought. Ancient and Medieval thought are historically inter-related and thus a natural combination.

LIST All co-listed co 1)	ourses: Include Initials of 2)	Dept. Chair, it signature is not aire 3)	sady included below.
4)	1 20 5)	6)	
Department Chair:	White Hay	(Chair Signature)	Date: 8/18/10
Discipline Specific C	urricula Committee:	(Chair signature)	Date: 8/16/10
Curricula Committee		(Chair Signature)	Date:

(Revised 1/31/2008)