

Campus Curricula Committee Meeting Agenda

November 2, 2016

9:00-10:30 a.m., 216 Parker Hall

Review of submitted Course Change forms:

File# 4337	AERO ENG 2790: Introduction to Spacecraft Design
File# 437.1	BIO SCI 1213: Principles of Biology
File# 4231.3	CER ENG 3110: Introduction to Biomedical Engineering
File# 2561.1	GEOLOGY 4010: Seminar
File# 2432.1	GEOPHYS 5096: Global Tectonics
File# 1695.1	MATH 1215: Calculus For Engineers II
File# 1800.1	MATH 6375: Theory of Partial Differential Equations
File# 2562.1	PET ENG 4010: Ethics and Professionalism
File# 4353.0	PSYCH 5002: Ethics and Professional Responsibilities
File# 2342.1	PSYCH 5010: Seminar in Industrial / Organizational Psychology
File# 249.1	PSYCH 5201: Psychometrics
File# 4354.0	PSYCH 5202: Applied Data Analysis
File# 4083.1	PSYCH 5210: Advanced Research Methods
File# 4355.0	PSYCH 5400: Advanced Cognitive Psychology
File# 133.1	PSYCH 5601: Small Group Dynamics
File# 547.5	PSYCH 5602: Organizational Development
File# 129.1	PSYCH 5700: Job Analysis and Performance Management
File# 4356.0	PSYCH 5740: Occupational Health and Safety
File# 4357.0	PSYCH 6000: Special Problems
File# 4358.0	PSYCH 6001-1: Special Topics
File# 4359.0	PSYCH 6602: Job Attitudes, Emotions, and Discretionary Behaviors
File# 2573.4	PSYCH 6610: Leadership, Motivation, and Culture
File# 4360.0	PSYCH 6700: Training and Development
File# 4081.10	PSYCH 6702: Personnel Selection
File# 652.10	STAT 5425: Introduction to Biostatistics



Review of submitted Degree Change forms:

File# 153.39	CP ENG-BS: Computer Engineering BS
File# 242.7	HISTORY-BS: Bachelor of Science in History
File# 234.13	INORGPS-MS: Industrial Organizational Psychology MS
File# 104.9	NU ENG-BS: Nuclear Engineering BS

Review of submitted Experimental Course forms:

File# 4346	ART 3001.003: Great Directors
File# 4340	ECON 4001.003: Introduction to Health Economics
File# 4341	ECON 6001.001: Health Economics
File# 4336	ELEC ENG 5001.004: Introduction to Nanotechnology: From atoms to systems-materials, devices and applications
File# 4320	ENV ENG 5001.001: STEAM Diplomacy
File# 3989	HISTORY 3001.001: History of Las Vegas, Nevada
File# 4344	HISTORY 3001.002: History of Science in Latin America
File# 4335	MECH ENG 5001.002: Modeling of Energy Materials
File# 4334	MUSIC 3001.001: Wartime Music and Musicians in Europe
File# 4348	PET ENG 6001.002: Reactive Transport Modeling
File# 4343	POL SCI 4001.002: STEAM Diplomacy
File# 4362	SPANISH 2001.001: Contemporary Latin America

Course Inventory Change Request

New Course Proposal

Date Submitted: 09/21/16 11:04 am

Viewing: **AERO ENG 2790 : Introduction to Spacecraft Design**

File: 4337

Last edit: 10/06/16 9:32 am

Changes proposed by: isaac

Requested	Spring 2017
Effective Change Date	
Department	Mechanical & Aerospace Engineering
Discipline	Aerospace Engineering (AERO ENG)
Course Number	2790
Title	Introduction to Spacecraft Design
Abbreviated Course Title	Intro Spacecraft Design

Catalog Description

In Workflow

1. RMECHENG Chair
2. CCC Secretary
3. Engineering DSCC Chair
4. Pending CCC Agenda post
5. CCC Meeting Agenda
6. Campus Curricula Committee Chair
7. FS Meeting Agenda
8. Faculty Senate Chair
9. Registrar
10. Ishelton
11. Peoplesoft

Approval Path

1. 09/21/16 11:45 am
James Drallmeier (drallmei):
Approved for RMECHENG Chair
2. 09/22/16 8:45 am
Shauntae Ellis (smetg6):

Approved for CCC
Secretary
3. 09/30/16 9:02 am
sraper: Approved
for Engineering
DSCC Chair

Intro. to basics of spacecraft design, including design requirements, subsystem definition, and vehicle design synthesis. Lab work includes design and fabrication of a small spacecraft payload that is flight tested on a high altitude balloon to 100,000 feet. Post-flight data reduction and analysis.

Prerequisites

A grade "C" or better in Aero Eng. 2861.

Field Trip

Statement

Field trip will be required for balloon launch/retrieval.

Credit Hours	LEC: 1	LAB: 1	IND: 0	RSD: 0
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Total: 2

Required for	Yes
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Majors

Elective for	No
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Majors

Justification for

new course:

Aerospace Technical Committee voted on October 29, 2015, to make the course permanent and required for Aerospace majors.

Semesters

previously

offered as an

experimental

course

Spring 2016, Spring 2015

Co-Listed

Courses:

Course Reviewer

Comments

smetg6 (10/06/16 9:32 am): Added period to the prerequisites.

Key: 4337

[Preview Bridge](#)

Course Inventory Change Request

Date Submitted: 08/30/16 3:20 pm

Viewing: **BIO SCI 1213 : Principles of Biology**

File: 437.1

Last edit: 10/05/16 10:10 am

Changes proposed by: shannonk

Programs

referencing this
course

[BIO SC-BA: Biological Sciences BA](#)

[BIO SC-BS: Biological Sciences BS](#)

[COMP HEALTH-MI: Computational Health](#)

[GEOL-MI: Geology Minor](#)

[PRE-MED-MI: Pre-Medicine Minor](#)

Other Courses

referencing this
course

In The Prerequisites:

[BIO SCI 1219 : General Biology Lab](#)

[BIO SCI 2243 : Sleep: Function and Dysfunction](#)

[BIO SCI 2252 : Vegetation of the Ozarks](#)

[BIO SCI 2263 : Ecology](#)

[BIO SCI 2333 : Nutrition](#)

[BIO SCI 2372 : Issues in Public Health](#)

[BIO SCI 2383 : Plant Biology](#)

[BIO SCI 3333 : Human Anatomy and Physiology I](#)

[BIO SCI 3343 : Human Anatomy and Physiology II](#)

[BIO SCI 4333 : Exercise Physiology](#)

[BIO SCI 5323 : Bioinformatics](#)

[COMP SCI 5700 : Bioinformatics](#)

In Workflow

1. **RBIOLSCI Chair**

2. **CCC Secretary**

3. **Sciences DSCC
Chair**

4. **Pending CCC
Agenda post**

5. CCC Meeting
Agenda

6. Campus Curricula
Committee Chair

7. FS Meeting
Agenda

8. Faculty Senate
Chair

9. Registrar

10. Ishelton

11. Peoplesoft

Approval Path

1. 08/30/16 3:22 pm
Yue-Wern Huang
(huangy):

Approved for
RBIOLSCI Chair

2. 08/31/16 1:30 pm
Shauntae Ellis
(smetg6):

Approved for CCC
Secretary

Requested	Fall 2017 2014
Effective Change Date	
Department	Biological Sciences
Discipline	Biological Sciences (BIO SCI)
Course Number	1213
Title	Principles of Biology
Abbreviated Course Title	Principles of Biology

3. 10/05/16 10:11 am
Ilene Morgan (imorgan):
Approved for Sciences DSCC Chair

Catalog

Description

A comprehensive study of the general principles of the biology of plants, animals, and protists including population biology and regulation mechanisms. An in-depth study of the fundamental principles governing all living organisms from the molecular to the population level. Required for Biological Sciences majors. Cannot also receive credit for Bio Sci 1113.

Prerequisites

Biological Science majors only. ~~Entrance requirements.~~

Field Trip

Statement

Credit Hours	LEC: 3	LAB: 0	IND: 0	RSD: 0
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Total: 3

Required for Majors	Yes No
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Elective for Majors	No
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Justification for change:

Biological Sciences offers a non-majors course, General Biology BIO SCI 1113, which can fulfill science elective requirements for other majors. This course is filled to capacity, and when students from other departments register for Principles rather than General Biology it prevents our majors from enrolling in a course they need for the degree

Semesters

previously

offered as an

experimental

course

Co-Listed

Courses:

Course Reviewer

Comments

smetg6 (08/31/16 1:30 pm): Changed from Fall 2014 to Fall 2017

Course Inventory Change Request

Date Submitted: 10/04/16 12:39 pm

Viewing: **CER ENG 3110 : Introduction to Biomedical Engineering**

File: 4231.3

Last approved: 09/21/15 3:55 am

Last edit: 10/06/16 2:56 pm

Changes proposed by: smiller

Requested	Spring 2017 2016
Effective Change Date	
Department	Materials Science & Engineering
Discipline	Ceramic Engineering (CER ENG)
Course Number	3110
Title	Introduction to Biomedical Engineering
Abbreviated Course Title	Intro to BioMed Engr

Catalog Description

In Workflow

1. **RMATSENG Chair**
2. **CCC Secretary**
3. **Engineering DSCC Chair**
4. **Pending CCC Agenda post**
5. **CCC Meeting Agenda**
6. Campus Curricula Committee Chair
7. FS Meeting Agenda
8. Faculty Senate Chair
9. Registrar
10. Ishelton
11. Peoplesoft

Approval Path

1. 10/06/16 8:54 am
mjokeefe:
Approved for
RMATSENG Chair
2. 10/06/16 2:32 pm
Shauntae Ellis
(smetg6):
Approved for CCC
Secretary

- 3. 10/06/16 2:54 pm
sraper: Approved
for Engineering
DSCC Chair
- 4. 10/06/16 2:56 pm
Shauntae Ellis
(smetg6):
Approved for
Pending CCC
Agenda post

History

- 1. Sep 21, 2015 by
smiller
-

This course will provide an introduction to the interdisciplinary field of biomedical engineering. The molecular, cellular, physiological and engineering principles that govern the field will be covered. Applications will include biomaterials, tissue engineering, biomechanics, bioimaging, bioinstrumentation, bio-nanotechnology and artificial organs.

Prerequisites

Junior standing or above.

Field Trip

Statement

Credit Hours	LEC: 3	LAB: 0	IND: 0	RSD: 0
Total: 3				
Required for Majors	No			
Elective for Majors	Yes			

Justification for
change:

Co-List as Bio Sci 3110 and Chem Eng 3210

Semesters

previously
offered as an
experimental
course

Not applicable

Co-Listed

Courses:

Course Reviewer

Comments

smetg6 (10/06/16 2:56 pm): Changed start term to SP 17 from SP 16

Key: 4231

[Preview Bridge](#)

Course Inventory Change Request

Date Submitted: 09/08/16 9:50 pm

Viewing: **GEOLOGY 4010 : Seminar**

File: 2561.1

Last edit: 09/19/16 3:40 pm

Changes proposed by: liukh

Programs

referencing this
course

[GL&GPH-BS: Geology and Geophysics BS](#)

Other Courses

referencing this
course

In The Catalog Description:

[GEO ENG 4010 : Seminar](#)

[PET ENG 4010 : Ethics and Professionalism](#)

Requested

Spring 2017 ~~Fall 2014~~

Effective Change

Date

Department

Geosciences and Geological and Petroleum
Engineering

Discipline

Geology (GEOLOGY)

Course Number

4010

Title

Seminar

Abbreviated

Seminar

Course Title

In Workflow

1. RGEOSENG Chair

2. CCC Secretary

**3. Sciences DSCC
Chair**

**4. Pending CCC
Agenda post**

5. CCC Meeting
Agenda

6. Campus Curricula
Committee Chair

7. FS Meeting
Agenda

8. Faculty Senate
Chair

9. Registrar

10. Ishelton

11. Peoplesoft

Approval Path

1. 09/10/16 11:57
pm

Francisca Oboh-
Ikuenobe
(ikuenobe):

Approved for
RGEOSENG Chair

2. 09/13/16 3:45 pm
Shauntae Ellis
(smetg6):

Catalog
Description

Approved for CCC
Secretary
3. 10/05/16 10:11
am
Ilene Morgan
(imorgan):
Approved for
Sciences DSCC
Chair

Discussion of current topics. Required for two semesters during senior year. (Course cannot be used for graduate credit).

Prerequisites

Senior standing.

Field Trip

Statement

Credit Hours LEC: 0 LAB: 0 IND: 0 RSD: 0

Total: 0-6

Required for **Yes**~~No~~

Majors

Elective for No

Majors

Justification for
change:

The two courses have different requirements in terms of student participation and assignments.

Semesters
previously
offered as an
experimental
course

Co-Listed

Courses:

~~GEO ENG 4010 - Seminar~~

~~PET ENG 4010 - Ethics and Professionalism~~

Course Reviewer

Comments

Key: 2561

[Preview Bridge](#)

Course Inventory Change Request

Date Submitted: 09/15/16 10:01 pm

Viewing: **GEOPHYS 5096** ~~4096~~: **Global Tectonics**

File: 2432.1

Last edit: 10/06/16 1:58 pm

Changes proposed by: liukh

Programs

referencing this
course

[GL&GPH-BS: Geology and Geophysics BS](#)

Requested **Spring 2017** ~~Fall 2014~~

Effective Change

Date

Department Geosciences and Geological and Petroleum
Engineering

Discipline Geophysics (GEOPHYS)

Course Number **5096** ~~4096~~

Title

Global Tectonics

Abbreviated Global Tectonics

Course Title

Catalog

Description

In Workflow

1. **RGEOSENG Chair**

2. **CCC Secretary**

3. **Sciences DSCC
Chair**

4. **Pending CCC
Agenda post**

5. CCC Meeting
Agenda

6. Campus Curricula
Committee Chair

7. FS Meeting
Agenda

8. Faculty Senate
Chair

9. Registrar

10. Ishelton

11. Peoplesoft

Approval Path

1. 09/15/16 10:05
pm

Francisca Oboh-
Ikuenobe
(ikuenobe):

Approved for
RGEOSENG Chair

2. 09/16/16 8:16 am
Shauntae Ellis
(smetg6):

Approved for CCC
Secretary

3. 10/05/16 10:13
am

Ilene Morgan
(imorgan):

Approved for
Sciences DSCC
Chair

4. 10/06/16 1:58 pm

Shauntae Ellis
(smetg6):

Rollback to
Sciences DSCC
Chair for Pending
CCC Agenda post

5. 10/06/16 2:02 pm

Ilene Morgan
(imorgan):

Approved for
Sciences DSCC
Chair

An integrated view of the Earth's structure and dynamics with an emphasis on information gained through geophysical methods. Topics include seismology, heat flow, gravity, rheological and compositional structure, plate motions and intermotions, and mantle driving mechanisms for plate tectonics.

Prerequisites

Geology 3310.

Field Trip

Statement

Credit Hours

LEC: 3

LAB: 0

IND: 0

RSD: 0

Total: 3

Required for
Majors **Yes**~~No~~

Elective for
Majors No

Justification for
change:

Given the recent advancement in global tectonic theory and practice, as well as the recent campus emphasis on experiential learning, we would like to add a one-hour lab component (i.e., 2 hours of lecture and 1 hour lab).

A change of course number to 5096 is requested so that the course can be taken by both undergraduate and graduate students.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

ikuenobe (09/15/16 5:23 pm): Rollback: A DCC form is also required because this is a core course.

imorgan (10/04/16 9:41 am): It is too late to change lecture to lecture/lab for Spring 2017, so the department elected to make the course number change (non-affecting) effective Spring 2017 and will make their other change on another CC form.

smetg6 (10/06/16 1:58 pm): Rollback: It is too late to change a lecture to lecture/lab for Spring 2017 at this time

Course Inventory Change Request

Date Submitted: 08/31/16 10:43 am

Viewing: **MATH 1215 : Calculus For Engineers II**

File: 1695.1

Last edit: 10/05/16 10:13 am

Changes proposed by: imorgan

Catalog Pages

referencing this
course

[Freshman Engineering Program](#)

Programs

referencing this
course

[AE ENG-BS: Aerospace Engineering BS](#)

[AP MATH-BS: Applied Mathematics BS](#)

[ARC ENG-BS: Architectural Engineering BS](#)

[CH ENG-BS: Chemical Engineering BS](#)

[CMP SC-BS: Computer Science BS](#)

[CP ENG-BS: Computer Engineering BS](#)

[CR ENG-BS: Ceramic Engineering BS](#)

[CV ENG-BS: Civil Engineering BS](#)

[EL ENG-BS: Electrical Engineering BS](#)

[ENG MG-BS: Engineering Management BS](#)

[EV ENG-BS: Environmental Engineering BS](#)

[GE ENG-BS: Geological Engineering BS](#)

[GL&GPH-BS: Geology and Geophysics BS](#)

[MC ENG-BS: Mechanical Engineering BS](#)

[MI ENG-BS: Mining Engineering BS](#)

[MT ENG-BS: Metallurgical Engineering BS](#)

In Workflow

1. **RMATHEMA
Chair**
2. **CCC Secretary**
3. **Sciences DSCC
Chair**
4. **Pending CCC
Agenda post**
5. CCC Meeting
Agenda
6. Campus Curricula
Committee Chair
7. FS Meeting
Agenda
8. Faculty Senate
Chair
9. Registrar
10. Ishelton
11. Peoplesoft

Approval Path

1. 08/31/16 10:44
am
sclark: Approved
for RMATHEMA
Chair
2. 08/31/16 1:32 pm
Shauntae Ellis
(smetg6):

[NU ENG-BS: Nuclear Engineering BS](#)

[PE ENG-BS: Petroleum Engineering BS](#)

Other Courses

referencing this
course

In The Prerequisites:

[AERO ENG 3131 : Aerodynamics I](#)

[CHEM ENG 2100 : Chemical Engineering Material & Energy Balances](#)

[CIV ENG 2200 : Statics](#)

[ECON 5337 : Financial Mathematics](#)

[ELEC ENG 2100 : Circuits I](#)

[MATH 2222 : Calculus with Analytic Geometry III](#)

[MATH 3108 : Linear Algebra I](#)

[MATH 3109 : Foundations Of Mathematics](#)

[MATH 5737 : Financial Mathematics](#)

[MECH ENG 2519 : Thermodynamics](#)

[MECH ENG 2527 : Thermal Analysis](#)

[MECH ENG 3313 : Machine Dynamics](#)

[MECH ENG 3411 : Modeling and Analysis of Dynamic Systems](#)

[NUC ENG 2105 : Introduction To Nuclear Engineering](#)

[STAT 3113 : Applied Engineering Statistics](#)

[STAT 3115 : Engineering Statistics](#)

Approved for CCC
Secretary

3. 10/05/16 10:14
am

Ilene Morgan
(imorgan):

Approved for
Sciences DSCC
Chair

Requested	Fall 2017 2014
Effective Change Date	
Department	Mathematics & Statistics
Discipline	Mathematics (MATH)
Course Number	1215
Title	Calculus For Engineers II
Abbreviated Course Title	Calc For Engrs II

Catalog

Description

Continuation of Math ~~1214. 014.~~ **1214.** Transcendental functions, techniques of integration, sequences, series including power series, polar coordinates, polar and parametric equations. Applications in physical science and engineering. Credit will be given for only one of Math 1215 or Math 1221.

Prerequisites

Math 1160 and either Math 1208 or Math 1214 both with a grade of "C" or better; or by placement exam.

Field Trip

Statement

Credit Hours	LEC: 3	LAB: 1	IND: 0	RSD: 0
Total: 4				

Required for Majors	No Yes
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Elective for Majors	No
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Justification for change:

Correction of a typo in the description.

Semesters previously offered as an experimental course

Co-Listed Courses:

Course Reviewer

Comments

smetg6 (08/31/16 1:32 pm): Changed from Fall 2014 to Fall 2017

Key: 1695

[Preview Bridge](#)

Course Inventory Change Request

Date Submitted: 09/22/16 2:11 pm

Viewing: **MATH 6375 : Theory Of Partial Differential Equations**

File: 1800.1

Last edit: 09/22/16 2:11 pm

Changes proposed by: imorgan

Requested	Fall 2017 2014
Effective Change Date	
Department	Mathematics & Statistics
Discipline	Mathematics (MATH)
Course Number	6375
Title	Theory Of Partial Differential Equations
Abbreviated Course Title	Theo Of Part Diff Equa

Catalog Description

In Workflow

1. **RMATHEMA Chair**
2. **CCC Secretary**
3. **Sciences DSCC Chair**
4. **Pending CCC Agenda post**
5. CCC Meeting Agenda
6. Campus Curricula Committee Chair
7. FS Meeting Agenda
8. Faculty Senate Chair
9. Registrar
10. Ishelton
11. Peoplesoft

Approval Path

1. 09/22/16 2:12 pm
sclark: Approved for RMATHEMA Chair
2. 09/22/16 2:25 pm
Shauntae Ellis (smetg6):
Approved for CCC Secretary

3. 10/05/16 10:12
am
Ilene Morgan
(imorgan):
Approved for
Sciences DSCC
Chair

Sobolev spaces; existence, uniqueness, ~~Classical wave, potential,~~ and regularity of weak solutions to linear ~~heat equations; classification into~~ elliptic, parabolic, and hyperbolic PDEs; selected topics. ~~types; existence and uniqueness proofs.~~

Prerequisites

Math **6417**. ~~4209.~~

Field Trip

Statement

Credit Hours	LEC: 3	LAB: 0	IND: 0	RSD: 0
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Total: 3

Required for Majors	No
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Elective for Majors	No
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Justification for change:

The description of the course is being updated to reflect the current research directions of the department. The new prerequisite is necessary for the updated course material.

Semesters
previously
offered as an
experimental
course

Co-Listed

Courses:

Course Reviewer

Comments

Key: 1800

[Preview Bridge](#)

Course Inventory Change Request

Date Submitted: 09/06/16 1:51 pm

Viewing: **PET ENG 4010 : Ethics and Professionalism-Seminar**

File: 2562.1

Last edit: 09/06/16 1:51 pm

Changes proposed by: caolila

Programs
referencing this
course

[PE ENG-BS: Petroleum Engineering BS](#)

Other Courses
referencing this
course

In The Catalog Description:

[GEO ENG 4010 : Seminar](#)

[GEOLOGY 4010 : Seminar](#)

Requested Effective Change Date	Spring 2017 Fall 2014
Department	Geosciences and Geological and Petroleum Engineering
Discipline	Petroleum Engineering (PET ENG)
Course Number	4010
Title	Ethics and Professionalism-Seminar

In Workflow

1. **RGEOSENG Chair**
2. **CCC Secretary**
3. **Engineering DSCC Chair**
4. **Pending CCC Agenda post**
5. CCC Meeting Agenda
6. Campus Curricula Committee Chair
7. FS Meeting Agenda
8. Faculty Senate Chair
9. Registrar
10. Ishelton
11. Peoplesoft

Approval Path

1. 09/07/16 11:39 am
Francisca Oboh-Ikuenobe (ikuenobe):
Approved for
RGEOSENG Chair
2. 09/07/16 11:51 am
Shauntae Ellis

Abbreviated
Course Title

Ethics and Prof-Seminar

(smetg6):

Approved for CCC
Secretary

Catalog
Description

3. 09/22/16 1:51 pm
srafer: Approved
for Engineering
DSCC Chair

Topics related to Ethics and Professionalism. Lifelong learning, teamwork and discussion of current events. ~~Discussion of current topics.~~ (Course cannot be used for graduate credit).

Prerequisites

Senior standing in Pet Eng.

Field Trip
Statement

Credit Hours
Total: 1

LEC: ~~1-0~~

LAB: 0

IND: 0

RSD: ~~0-1~~

Required for
Majors

Yes ~~No~~

Elective for
Majors

No

Justification for
change:

Despite being co-listed for years, Petroleum Engineering has always conducted a separate class time apart from the departmental Geology seminar, to cover topics which are assessed for ABET. The petroleum course needs to be recognized as fundamentally different from the speakers seminar offered by Geology. We are also having problems with students switching to Geology, to avoid the essays and other work required in the ABET-assessed course.

Semesters
previously
offered as an

experimental
course

This course is routinely offered in the Fall for petroleum students.-

Co-Listed

Courses:

~~GEOLOGY 4010~~ - Seminar

~~GEO-ENG 4010~~ - Seminar

Course Reviewer

Comments

Key: 2562

[Preview Bridge](#)

Course Inventory Change Request

New Course Proposal

Date Submitted: 10/03/16 11:36 am

Viewing: **PSYCH 5002 : Ethics and Professional Responsibilities**

File: 4353

Last edit: 10/06/16 10:24 am

Changes proposed by: weidnern

Requested	Fall 2017
Effective Change Date	
Department	Psychological Science
Discipline	Psychology (PSYCH)
Course Number	5002
Title	Ethics and Professional Responsibilities
Abbreviated Course Title	Prof. Responsibility

Catalog Description

In Workflow

1. **RPSYCHOL Chair**
2. **CCC Secretary**
3. **Social Sciences DSCC Chair**
4. **Pending CCC Agenda post**
5. CCC Meeting Agenda
6. Campus Curricula Committee Chair
7. FS Meeting Agenda
8. Faculty Senate Chair
9. Registrar
10. Ishelton
11. Peoplesoft

Approval Path

1. 10/04/16 11:34 am
murray: Approved for RPSYCHOL Chair
2. 10/04/16 11:37 am
Shauntae Ellis (smetg6):

Approved for CCC
Secretary
3. 10/05/16 3:46 pm
Barry Flachbart
(barryf):
Approved for
Social Sciences
DSCC Chair

Case studies examining the ethical practice of psychology in organizations will be discussed. This will include covering both the legal and ethical standards surrounding the consulting and practice of I-O psychology and personnel management in organizations.

Prerequisites

Graduate standing.

Field Trip

Statement

Credit Hours	LEC: 1	LAB: 0	IND: 0	RSD: 0
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Total: 1

Required for	Yes
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Majors

Elective for	No
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Majors

Justification for

new course:

This new course is included in the Degree Change Proposal for the Industrial-Organizational Psychology MS degree program. This is a content area which deserves its own seminar focusing specifically on practicing psychology in organizations and the important ethical responsibilities included in doing so.

Semesters

previously

offered as an

experimental
course

Co-Listed

Courses:

Course Reviewer

Comments

murray (10/03/16 11:15 am): I changed the class from RSD to Lecture and made it required. - Susan Murray

murray (10/03/16 11:15 am): Rollback: see changes

smetg6 (10/06/16 10:24 am): Added a period to the prerequisite box & changed the order of the both to both the in the course description box

Key: 4353

[Preview Bridge](#)

Course Inventory Change Request

Date Submitted: 10/02/16 4:45 pm

Viewing: **PSYCH 5010 : Seminar in Industrial / Organizational Psychology**

File: 2342.1

Last edit: 10/06/16 10:25 am

Changes proposed by: weidnern

Programs
referencing this
course

[INORGPS-MS: Industrial Organizational Psychology MS](#)

Requested	Fall 2017 2014
Effective Change Date	
Department	Psychological Science
Discipline	Psychology (PSYCH)
Course Number	5010
Title	Seminar in Industrial / Organizational Psychology
Abbreviated Course Title	Seminar I/O Psychology

Catalog
Description

In Workflow

1. **RPSYCHOL Chair**
2. **CCC Secretary**
3. **Social Sciences DSCC Chair**
4. **Pending CCC Agenda post**
5. CCC Meeting Agenda
6. Campus Curricula Committee Chair
7. FS Meeting Agenda
8. Faculty Senate Chair
9. Registrar
10. Ishelton
11. Peoplesoft

Approval Path

1. 10/03/16 11:15 am
murray: Approved for RPSYCHOL Chair
2. 10/03/16 11:16 am
Shauntae Ellis (smetg6):

Approved for CCC
 Secretary
 3. 10/05/16 3:46 pm
 Barry Flachbart
 (barryf):
 Approved for
 Social Sciences
 DSCC Chair

Review of the most recent theoretical and applied research in advanced personnel and organizational psychology. Topics will include personnel selection, training and performance appraisal, job attitudes, motivation, work groups and teams, leadership, organizational culture, and organizational development.

Prerequisites

Graduate standing. ~~Nine hours of psychology.~~

Field Trip

Statement

Credit Hours	LEC: 0	LAB: 0	IND: 0	RSD: 3
Total: 3				

Required for Majors **Yes**~~No~~

Elective for Majors No

Justification for change:

This change is included as part of our Degree Change for the Industrial-Organizational Psychology MS degree. The change in prerequisite is because this will be the first course taken by our MS graduate students as they enter the program.

Semesters previously offered as an

experimental
course

Co-Listed

Courses:

Course Reviewer

Comments

smetg6 (10/06/16 10:25 am): Added period to prerequisite box.

Key: 2342

[Preview Bridge](#)

Course Inventory Change Request

Date Submitted: 10/02/16 4:41 pm

Viewing: **PSYCH 5201 : Psychometrics**

File: 249.1

Last edit: 10/06/16 10:27 am

Changes proposed by: weidnern

Catalog Pages
referencing this
course

[Psychology](#)

Programs
referencing this
course

[INORGPS-MS: Industrial Organizational Psychology MS](#)

[PSYMETR-MI: Psychometrics Minor](#)

Requested Fall **2017** ~~2014~~

Effective Change

Date

Department Psychological Science

Discipline Psychology (PSYCH)

Course Number 5201

Title
Psychometrics

Abbreviated Psychometrics

Course Title

In Workflow

1. RPSYCHOL Chair

2. CCC Secretary

3. Social Sciences

DSCC Chair

**4. Pending CCC
Agenda post**

5. CCC Meeting
Agenda

6. Campus Curricula
Committee Chair

7. FS Meeting
Agenda

8. Faculty Senate
Chair

9. Registrar

10. Ishelton

11. Peoplesoft

Approval Path

1. 10/03/16 11:15
am
murray: Approved
for RPSYCHOL
Chair

2. 10/03/16 11:19
am
Shauntae Ellis
(smetg6):

Catalog
Description

Approved for CCC
Secretary
3. 10/05/16 3:46 pm
Barry Flachbart
(barryf):
Approved for
Social Sciences
DSCC Chair

An examination of statistical methods used to develop and refine measures of human performance, aptitudes, and personality. Topics include reliability and validity, data reduction, measuring inter-relationships among variables (e.g., factor analysis, multiple regression), and testing group differences.

Prerequisites

Psych **5202**. ~~1101 and Psych 2200~~

Field Trip
Statement

Credit Hours	LEC: 3	LAB: 0	IND: 0	RSD: 0
Total: 3				

Required for Majors	Yes No
------------------------	--------------------------

Elective for Majors	No
------------------------	----

Justification for
change:

This change is included as part of our Degree Change for the Industrial-Organizational Psychology MS degree. The change in prerequisite is because this course will now directly follow a newly proposed Psych 5202 Applied Data Analysis course and the content will build upon that material.

Semesters
previously
offered as an

experimental
course

Co-Listed

Courses:

Course Reviewer

Comments

smetg6 (10/06/16 10:27 am): Added period to prerequisite box.

Key: 249

[Preview Bridge](#)

Course Inventory Change Request

New Course Proposal

Date Submitted: 10/02/16 5:04 pm

Viewing: **PSYCH 5202 : Applied Data Analysis**

File: 4354

Last edit: 10/06/16 10:29 am

Changes proposed by: weidnern

Requested	Fall 2017
Effective Change Date	
Department	Psychological Science
Discipline	Psychology (PSYCH)
Course Number	5202
Title	Applied Data Analysis
Abbreviated Course Title	Applied Data Analysis

In Workflow

1. **RPSYCHOL Chair**
2. **CCC Secretary**
3. **Social Sciences DSCC Chair**
4. **Pending CCC Agenda post**
5. CCC Meeting Agenda
6. Campus Curricula Committee Chair
7. FS Meeting Agenda
8. Faculty Senate Chair
9. Registrar
10. Ishelton
11. Peoplesoft

Catalog Description

Approval Path

1. 10/03/16 11:16 am
murray: Approved for RPSYCHOL Chair
2. 10/03/16 11:20 am
Shauntae Ellis (smetg6):

Approved for CCC
Secretary
3. 10/05/16 3:46 pm
Barry Flachbart
(barryf):
Approved for
Social Sciences
DSCC Chair

This course will focus on those statistical methods most useful for advanced research in psychology. We will learn to use R, a powerful, open-source statistical programming platform, and work through examples with psychological data sets including such techniques as correlation, ANOVAs, regression, and chi-squared.

Prerequisites

Graduate standing.

Field Trip

Statement

Credit Hours	LEC: 3	LAB: 0	IND: 0	RSD: 0
--------------	--------	--------	--------	--------

Total: 3

Required for	Yes
--------------	-----

Majors

Elective for	No
--------------	----

Majors

Justification for

new course:

This new course is included as part of the Degree Change Proposal for the Industrial-Organizational Psychology MS degree program. I-O Psychologists need to be strong methodologically and the available course offerings at S&T have been insufficient to meet their needs. This has caused us to have numerous complaints from our students and we have had to take measures to supplement their education in this area. In particular, this course will focus on application of statistics to analyses

human attitudes and behaviors using methods and techniques critical for I-O psychologists to understand.

Semesters

previously

offered as an

experimental

course

Co-Listed

Courses:

Course Reviewer

Comments

smetg6 (10/06/16 10:29 am): Added period to prerequisite box.

Key: 4354

[Preview Bridge](#)

Course Inventory Change Request

Date Submitted: 10/02/16 4:00 pm

Viewing: **PSYCH 5210 ~~6210~~: Advanced Research Methods**

File: 4083.1

Last approved: 09/29/14 4:09 am

Last edit: 10/02/16 4:00 pm

Changes proposed by: weidnern

Requested	Fall 2017 2014
Effective Change Date	
Department	Psychological Science
Discipline	Psychology (PSYCH)
Course Number	5210 6210
Title	Advanced Research Methods
Abbreviated Course Title	Adv Research Methods

Catalog Description

In Workflow

1. **RPSYCHOL Chair**
2. **CCC Secretary**
3. **Social Sciences DSCC Chair**
4. **Pending CCC Agenda post**
5. CCC Meeting Agenda
6. Campus Curricula Committee Chair
7. FS Meeting Agenda
8. Faculty Senate Chair
9. Registrar
10. Ishelton
11. Peoplesoft

Approval Path

1. 10/03/16 11:16 am
murray: Approved for RPSYCHOL Chair
2. 10/03/16 11:20 am
Shauntae Ellis (smetg6):

Approved for CCC Secretary
 3. 10/05/16 3:46 pm
 Barry Flachbart (barryf):
 Approved for Social Sciences DSCC Chair

History
 1. Sep 29, 2014 by Lahne Black (lahne)

Research methods and techniques, with an emphasis on conducting psychological research in organizational settings. Topics discussed include: ethics, reliability and validity in measurement and application, proper uses of experimental, quasi-experimental, and survey methodologies, as well as advanced methodologies IRT, SEM, HLM, and Meta-Analyses. ~~Advanced techniques class, including advanced analysis of variance, multiple regression, multiple and partial correlation, analysis of covariance and the examination of some quasi-research designs.~~

Prerequisites

Graduate standing.

Field Trip

Statement

Credit Hours	LEC: 3	LAB: 0	IND: 0	RSD: 0
--------------	--------	--------	--------	--------

Total: 3

Required for Majors	Yes
---------------------	-----

Elective for Majors	No
---------------------	----

Justification for
change:

This is a change included as part of our Degree Change for the Industrial-Organizational Psychology MS degree. The number and description of the course will now more accurately reflect the course requirements and objectives.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 4083

[Preview Bridge](#)

Course Inventory Change Request

New Course Proposal

Date Submitted: 10/02/16 5:09 pm

Viewing: **PSYCH 5400 : Advanced Cognitive Psychology**

File: 4355

Last edit: 10/05/16 8:09 am

Changes proposed by: weidnern

Requested	Fall 2017
Effective Change Date	
Department	Psychological Science
Discipline	Psychology (PSYCH)
Course Number	5400
Title	Advanced Cognitive Psychology
Abbreviated Course Title	Adv. Cog. Psych.

Catalog Description

In Workflow

1. **RPSYCHOL Chair**
2. **CCC Secretary**
3. **Social Sciences DSCC Chair**
4. **Pending CCC Agenda post**
5. CCC Meeting Agenda
6. Campus Curricula Committee Chair
7. FS Meeting Agenda
8. Faculty Senate Chair
9. Registrar
10. Ishelton
11. Peoplesoft

Approval Path

1. 10/03/16 10:20 am
murray: Approved for RPSYCHOL Chair
2. 10/03/16 10:27 am
Shauntae Ellis (smetg6):

Approved for CCC
Secretary
3. 10/05/16 3:46 pm
Barry Flachbart
(barryf):
Approved for
Social Sciences
DSCC Chair

This course covers cognitive processes and their application to various practical situations. Theory and research are presented on attention, perception, memory, problem solving, decision making and language. An emphasis is placed on understanding how these processes impact daily life.

Prerequisites

Prerequisite: Psych 4400 or graduate standing.

Field Trip

Statement

Credit Hours	LEC: 3	LAB: 0	IND: 0	RSD: 0
Total: 3				
Required for Majors	No			
Elective for Majors	Yes			

Justification for new course:

This new course is included in the Degree Change Proposal for the Industrial-Organizational Psychology MS degree program. This is a content area which will be offered as an elective. It will be a useful elective for any I-O Psychology practitioner to have taken and will cover information which is complementary to several other courses and topic areas included in the program of study.

Semesters previously

offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 4355

[Preview Bridge](#)

Course Inventory Change Request

Date Submitted: 10/04/16 10:41 am

Viewing: **PSYCH 5601 : Small ~~Advanced~~-Group Dynamics**

File: 133.1

Last edit: 10/05/16 8:09 am

Changes proposed by: weidnern

Catalog Pages
referencing this
course

[Psychology](#)

Programs
referencing this
course

[INORGPS-MS: Industrial Organizational Psychology MS](#)

Requested Fall **2017** ~~2014~~

Effective Change
Date

Department Psychological Science

Discipline Psychology (PSYCH)

Course Number 5601

Title
Small ~~Advanced~~-Group Dynamics

Abbreviated **Small ~~Advanced~~-Group**
Course Title Dynamics

In Workflow

1. **RPSYCHOL Chair**

2. **CCC Secretary**

3. **Social Sciences
DSCC Chair**

4. **Pending CCC
Agenda post**

5. CCC Meeting
Agenda

6. Campus Curricula
Committee Chair

7. FS Meeting
Agenda

8. Faculty Senate
Chair

9. Registrar

10. Ishelton

11. Peoplesoft

Approval Path

1. 10/04/16 11:34
am
murray: Approved
for RPSYCHOL
Chair

2. 10/04/16 11:37
am
Shauntae Ellis
(smetg6):

Catalog
Description

Approved for CCC
Secretary
3. 10/05/16 3:46 pm
Barry Flachbart
(barryf):
Approved for
Social Sciences
DSCC Chair

~~An in-depth review of the concepts and theories related to group dynamics. This course covers~~ **Topics include** group **perception, identification, leadership, goals, communication within groups, group** structure, **conflict, cohesion, commitment, performance,** norms, **roles, influence, leadership, decision making, controversy, conflict resolution, power, diversity issues,** and **decisions, and groups' relations, networks, and work teams. team development.** **Students consider both theory and applications to their lives and organizations through observational, research, team and applied assignments.** ~~Students will consider theoretical implications and practical applications of topics in group dynamics in the form of independent reading, research proposals, and observational assignments.~~

Prerequisites

Psych 4601 or graduate standing.

Field Trip

Statement

Credit Hours

LEC: 3

LAB: 0

IND: 0

RSD: 0

Total: 3

Required for

Yes ~~No~~

Majors

Elective for

No

Majors

Justification for
change:

This change is included as part of our degree change for the Industrial-Organizational Psychology MS program. This name better reflects that this course will focus more on teams and smaller groups in organizations than the original name does.

Semesters

previously
offered as an
experimental
course

Co-Listed

Courses:

Course Reviewer

Comments

Course Inventory Change Request

Date Submitted: 10/02/16 4:14 pm

Viewing: **PSYCH 5602 : Organizational Development Processes: Research and Practice**

File: 547.5

Last approved: 05/24/16 4:57 am

Last edit: 10/05/16 8:10 am

Changes proposed by: weidnern

Catalog Pages
referencing this
course

[Engineering Management](#)
[Psychology](#)

Programs
referencing this
course

[INORGPS-MS: Industrial Organizational Psychology MS](#)

Requested	Fall 2017 2015
Effective Change Date	
Department	Psychological Science
Discipline	Psychology (PSYCH)
Course Number	5602
Title	Organizational Development Processes: Research and Practice

In Workflow

1. **RPSYCHOL Chair**
2. **CCC Secretary**
3. **Social Sciences DSCC Chair**
4. **Pending CCC Agenda post**
5. CCC Meeting Agenda
6. Campus Curricula Committee Chair
7. FS Meeting Agenda
8. Faculty Senate Chair
9. Registrar
10. Ishelton
11. Peoplesoft

Approval Path

1. 10/03/16 10:48 am
murray: Approved for RPSYCHOL Chair
2. 10/03/16 10:50 am
Shauntae Ellis (smetg6):

Abbreviated Course Title **Org. Development** ~~Org Process: Rsrch & Practice~~

Approved for CCC Secretary
 3. 10/05/16 3:46 pm
 Barry Flachbart (barryf):
 Approved for Social Sciences DSCC Chair

Catalog Description

History

- 1. May 24, 2016 by nstone (547.1)

Examination of the field of **organizational development theories and interventions.**

~~Organizational Psychology.~~ An emphasis is placed on research methods and application of practices related to individual processes, group processes, **and** organizational **structures and functions that impact change and development strategies and interventions.** ~~structure and function.~~

Prerequisites

Psych 4602 or graduate standing.

Field Trip

Statement

Credit Hours LEC: 3 LAB: 0 IND: 0 RSD: 0

Total: 3

Required for **Yes** ~~No~~

Majors

Elective for No

Majors

Justification for

change:

This change is included as part of our Degree Change for the Industrial-Organizational Psychology MS degree. The change in name and description will

better reflect the specialization of this course area. New courses are also proposed to to pick up areas of content previously covered by this course.

Semesters

previously
offered as an
experimental
course

Co-Listed

Courses:

Course Reviewer
Comments

Key: 547

[Preview Bridge](#)

Course Inventory Change Request

Date Submitted: 10/02/16 4:21 pm

Viewing: **PSYCH 5700 : Job Analysis and Performance Management-Advanced Industrial Psychology**

File: 129.1

Last edit: 10/05/16 8:10 am

Changes proposed by: weidnern

Catalog Pages
referencing this
course

[Psychology](#)

Programs
referencing this
course

[INORGPS-MS: Industrial Organizational Psychology MS](#)

Requested Fall **2017** ~~2014~~
Effective Change
Date
Department Psychological Science
Discipline Psychology (PSYCH)
Course Number 5700

Title
Job Analysis and Performance Management-Advanced Industrial Psychology

In Workflow

1. **RPSYCHOL Chair**
2. **CCC Secretary**
3. **Social Sciences DSCC Chair**
4. **Pending CCC Agenda post**
5. CCC Meeting Agenda
6. Campus Curricula Committee Chair
7. FS Meeting Agenda
8. Faculty Senate Chair
9. Registrar
10. Ishelton
11. Peoplesoft

Approval Path

1. 10/03/16 11:18 am
murray: Approved for RPSYCHOL Chair
2. 10/03/16 11:20 am
Shauntae Ellis (smetg6):

Abbreviated **J.A. and Perf. Mgmt.**
 Course Title ~~Advanced Industrial~~
~~Psychology~~

Approved for CCC
 Secretary
 3. 10/05/16 3:46 pm
 Barry Flachbart
 (barryf):
 Approved for
 Social Sciences
 DSCC Chair

Catalog
 Description

A focus on the scientific measurement of job performance. An in-depth **discussion examination** of the **science and methods field** of **appropriate job and task analysis will be discussed.** ~~Industrial psychology.~~ **Additionally, students will focus on current issues in performance management and appraisal including scientific findings related to both objective and subjective measures of performance.** ~~An emphasis is placed on research methods and application of practices related to Job Analysis, Recruitment, Selection, Training, and Performance Appraisal.~~

Prerequisites

Psych 4700 or graduate standing.

Field Trip
 Statement

Credit Hours LEC: 3 LAB: 0 IND: 0 RSD: 0
 Total: 3

Required for **Yes** ~~No~~
 Majors

Elective for No
 Majors

Justification for
 change:

This change is included as part of our Degree Change for the Industrial-Organizational Psychology MS degree. The change in name and description will better reflect the specialization of this course area. New courses are also being proposed to address areas of content previously covered in this course.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 129
[Preview Bridge](#)

Course Inventory Change Request

New Course Proposal

Date Submitted: 10/02/16 5:16 pm

Viewing: **PSYCH 5740 : Occupational Health and Safety**

File: 4356

Last edit: 10/06/16 10:36 am

Changes proposed by: weidnern

Requested	Fall 2017
Effective Change Date	
Department	Psychological Science
Discipline	Psychology (PSYCH)
Course Number	5740
Title	Occupational Health and Safety
Abbreviated Course Title	Occ. Health and Safety

Catalog Description

In Workflow

1. **RPSYCHOL Chair**
2. **CCC Secretary**
3. **Social Sciences DSCC Chair**
4. **Pending CCC Agenda post**
5. CCC Meeting Agenda
6. Campus Curricula Committee Chair
7. FS Meeting Agenda
8. Faculty Senate Chair
9. Registrar
10. Ishelton
11. Peoplesoft

Approval Path

1. 10/03/16 11:18 am
murray: Approved for RPSYCHOL Chair
2. 10/03/16 11:21 am
Shauntae Ellis (smetg6):

Approved for CCC
Secretary
3. 10/05/16 3:46 pm
Barry Flachbart
(barryf):
Approved for
Social Sciences
DSCC Chair

This course will cover the ethical, legislative, technical, behavioral, and management aspects of health and safety practice in human resources. Topics include workplace safety, ergonomics, accident investigation, occupational stress, government regulatory agencies, employee assistance programs, wellness programs, and behavioral based safety.

Prerequisites

Graduate standing.

Field Trip

Statement

Credit Hours	LEC: 3	LAB: 0	IND: 0	RSD: 0
Total: 3				
Required for Majors	No			
Elective for Majors	Yes			

Justification for new course:

This new course is included in the Degree Change Proposal for the Industrial-Organizational Psychology MS degree program. This course will be offered as an elective and is specifically noted as an important competency in the Guidelines for Education and Training In I-O Psych on which the curriculum revision is being based.

Semesters previously

offered as an
experimental
course

Co-Listed

Courses:

Course Reviewer

Comments

smetg6 (10/06/16 10:36 am): added period to prerequisite box

Key: 4356

[Preview Bridge](#)

Course Inventory Change Request

New Course Proposal

Date Submitted: 10/02/16 5:28 pm

Viewing: **PSYCH 6000 : Special Problems**

File: 4357

Last edit: 10/06/16 10:42 am

Changes proposed by: weidnern

Requested	Fall 2017
Effective Change Date	
Department	Psychological Science
Discipline	Psychology (PSYCH)
Course Number	6000
Title	Special Problems
Abbreviated Course Title	Special Problems

In Workflow

1. **RPSYCHOL Chair**
2. **CCC Secretary**
3. **Social Sciences DSCC Chair**
4. **Pending CCC Agenda post**
5. CCC Meeting Agenda
6. Campus Curricula Committee Chair
7. FS Meeting Agenda
8. Faculty Senate Chair
9. Registrar
10. Ishelton
11. Peoplesoft

Catalog Description

Approval Path

1. 10/03/16 11:19 am
murray: Approved for RPSYCHOL Chair
2. 10/03/16 11:21 am
Shauntae Ellis (smetg6):

Approved for CCC
Secretary
3. 10/05/16 3:46 pm
Barry Flachbart
(barryf):
Approved for
Social Sciences
DSCC Chair

Problems or readings on specific subjects or projects in the department.

Prerequisites

Consent of instructor required.

Field Trip

Statement

Credit Hours	LEC: 0	LAB: 0	IND: 0 - 6	RSD: 0
--------------	--------	--------	------------	--------

Total: 0 - 6

Required for	No
--------------	----

Majors

Elective for	Yes
--------------	-----

Majors

Justification for

new course:

This new course is included in the Degree Change Proposal for the Industrial-Organizational Psychology MS degree program. We have had problems before where we had to offer a Psych 5000 in place of a core 6000 level course and then had to later request an exception to the required 9 credit hours of 6000 level credit in order for a student to graduate. This course will help us to avoid that problem in the future.

Semesters

previously

offered as an

experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

smetg6 (10/06/16 10:42 am): Indicated that it is an elective for major.

Key: 4357

[Preview Bridge](#)

Course Inventory Change Request

New Course Proposal

Date Submitted: 10/02/16 5:32 pm

Viewing: **PSYCH 6001-1 : Special Topics**

File: 4358

Last edit: 10/06/16 10:44 am

Changes proposed by: weidnern

Requested	Fall 2017
Effective Change Date	
Department	Psychological Science
Discipline	Psychology (PSYCH)
Course Number	6001
Title	Special Topics
Abbreviated Course Title	Special Topics
Topics Titles	

Catalog Description

In Workflow

1. **RPSYCHOL Chair**
2. **CCC Secretary**
3. **Social Sciences DSCC Chair**
4. **Pending CCC Agenda post**
5. CCC Meeting Agenda
6. Campus Curricula Committee Chair
7. FS Meeting Agenda
8. Faculty Senate Chair
9. Registrar
10. Ishelton
11. Peoplesoft

Approval Path

1. 10/03/16 10:19 am
murray: Approved for RPSYCHOL Chair
2. 10/03/16 10:28 am
Shauntae Ellis (smetg6):

Approved for CCC
Secretary
3. 10/05/16 3:46 pm
Barry Flachbart
(barryf):
Approved for
Social Sciences
DSCC Chair

This course is designed to give the department an opportunity to test a new graduate level course. Variable title.

Prerequisites

Field Trip Statement

Credit Hours	LEC: 0 - 6	LAB: 0	IND: 0	RSD: 0
Total: 0 - 6				
Required for Majors	No			
Elective for Majors	Yes			

Justification for new course:

This new course is included in the Degree Change Proposal for the Industrial-Organizational Psychology MS degree program. This course is being included so that if needed we can try out a new 6000 level course in the future.

Semesters
previously
offered as an
experimental
course

Co-Listed

Courses:

Course Reviewer

Comments

smetg6 (10/06/16 10:44 am): Indicated that it is an elective for Majors

Key: 4358

[Preview Bridge](#)

Course Inventory Change Request

New Course Proposal

Date Submitted: 10/02/16 5:41 pm

Viewing: **PSYCH 6602 : Job Attitudes, Emotions, and Discretionary Behaviors**

File: 4359

Last edit: 10/06/16 10:46 am

Changes proposed by: weidnern

Requested	Fall 2017
Effective Change Date	
Department	Psychological Science
Discipline	Psychology (PSYCH)
Course Number	6602
Title	Job Attitudes, Emotions, and Discretionary Behaviors
Abbreviated Course Title	Emotions and Behavior

Catalog Description

In Workflow

1. **RPSYCHOL Chair**
2. **CCC Secretary**
3. **Social Sciences DSCC Chair**
4. **Pending CCC Agenda post**
5. CCC Meeting Agenda
6. Campus Curricula Committee Chair
7. FS Meeting Agenda
8. Faculty Senate Chair
9. Registrar
10. Ishelton
11. Peoplesoft

Approval Path

1. 10/03/16 11:24 am
murray: Approved for RPSYCHOL Chair
2. 10/03/16 11:25 am
Shauntae Ellis (smetg6):

Approved for CCC
Secretary
3. 10/05/16 3:46 pm
Barry Flachbart
(barryf):
Approved for
Social Sciences
DSCC Chair

Theory and research surrounding employee attitudes, emotions, and behaviors with an emphasis on antecedents and outcomes of: job satisfaction, engagement, organizational justice, trait and state positive and negative affect, organizational citizenship, counterproductive work, and proactive behaviors and the Implications for both employees and organizations.

Prerequisites

Psych 5010.

Field Trip

Statement

Credit Hours	LEC: 3	LAB: 0	IND: 0	RSD: 0
Total: 3				
Required for Majors	Yes			
Elective for Majors	No			

Justification for new course:

This new course is included in the Degree Change Proposal for the Industrial-Organizational Psychology MS degree program. This content area builds more depth of topics previously crammed into Psych 5602. Offering it will allow us to better meet the needs and expectations for education in I-O Psychology.

Semesters previously

offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer

Comments

smetg6 (10/06/16 10:46 am): Added period to prerequisite box.

Key: 4359

[Preview Bridge](#)

Course Inventory Change Request

Date Submitted: 10/02/16 4:25 pm

Viewing: **PSYCH 6610 : Leadership, Motivation, and Culture** ~~Advanced Leadership Theory & Practice~~

File: 2573.4

Last approved: 11/03/14 3:53 am

Last edit: 10/06/16 10:53 am

Changes proposed by: weidnern

Catalog Pages
referencing this
course

[Engineering Management](#)
[Psychology](#)

Programs
referencing this
course

[INORGPS-MS: Industrial Organizational Psychology MS](#)

Requested **Fall 2017** ~~01/13/2015~~

Effective Change
Date

Department Psychological Science

Discipline Psychology (PSYCH)

Course Number 6610

Title

In Workflow

1. **RPSYCHOL Chair**
2. **CCC Secretary**
3. **Social Sciences DSCC Chair**
4. **Pending CCC Agenda post**
5. CCC Meeting Agenda
6. Campus Curricula Committee Chair
7. FS Meeting Agenda
8. Faculty Senate Chair
9. Registrar
10. Ishelton
11. Peoplesoft

Approval Path

1. 10/03/16 11:25 am
murray: Approved for RPSYCHOL Chair
2. 10/03/16 11:27 am
Shauntae Ellis (smetg6):

Leadership, Motivation, and Culture ~~Advanced Leadership Theory & Practice~~

Abbreviated Course Title **Advanced Leadership Adv**
~~Leadership Theory & Pract~~

Catalog Description

Approved for CCC Secretary
3. 10/05/16 3:46 pm
Barry Flachbart (barryf):
Approved for Social Sciences DSCC Chair

History

1. Nov 3, 2014 by nstone (2573.1)

Examination of research **related to leadership, motivation, and surrounding** the **impact major theories** of **organizational culture on organizational performance will be discussed.** ~~leadership.~~ **The course will focus on the application of psychological theories to enhance organizational functioning and to promote positive workplace behaviors.** ~~Topics include leadership measurement of traits and skills, major theories of leadership including LMX, Charismatic, Transformational, and Authentic Leadership Theories. An emphasis is given on researching leadership topics and applying findings of leadership research in organizations.~~

Prerequisites

Psych 5010. ~~Psych 4610 or graduate standing.~~

Field Trip Statement

Credit Hours LEC: 3 LAB: 0 IND: 0 RSD: 0
Total: 3

Required for Majors Yes

Elective for Majors No

Justification for
change:

This change is included as part of our Degree Change for the Industrial-Organizational Psychology MS degree. The change in name and description better reflect the specialization of this course content. This course will now be addressing both different leadership styles as well as major impacts that leaders have upon organizations. The additional Prerequisite is because this course will now be treated as an advanced course in the program requiring previous experience in I-O Psychology graduate coursework.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

smetg6 (10/06/16 10:53 am): Added period to prerequisite box.

Course Inventory Change Request

New Course Proposal

Date Submitted: 10/02/16 5:45 pm

Viewing: **PSYCH 6700 : Training and Development**

File: 4360

Last edit: 10/06/16 10:55 am

Changes proposed by: weidnern

Requested	Fall 2017
Effective Change Date	
Department	Psychological Science
Discipline	Psychology (PSYCH)
Course Number	6700
Title	Training and Development
Abbreviated Course Title	Training and Development

In Workflow

1. **RPSYCHOL Chair**
2. **CCC Secretary**
3. **Social Sciences DSCC Chair**
4. **Pending CCC Agenda post**
5. CCC Meeting Agenda
6. Campus Curricula Committee Chair
7. FS Meeting Agenda
8. Faculty Senate Chair
9. Registrar
10. Ishelton
11. Peoplesoft

Catalog Description

Approval Path

1. 10/03/16 11:24 am
murray: Approved for RPSYCHOL Chair
2. 10/03/16 11:25 am
Shauntae Ellis (smetg6):

Approved for CCC
Secretary
3. 10/05/16 3:47 pm
Barry Flachbart
(barryf):
Approved for
Social Sciences
DSCC Chair

Psychological theories of learning will be covered. Students will learn how evaluate training needs in an organization as well as how to subsequently develop, implement, and validate a training program in an organizational context.

Prerequisites

Psych 5700.

Field Trip

Statement

Credit Hours	LEC: 3	LAB: 0	IND: 0	RSD: 0
Total: 3				

Required for Majors	Yes
------------------------	-----

Elective for Majors	No
------------------------	----

Justification for new course:

This new course is included in the Degree Change Proposal for the Industrial-Organizational Psychology MS degree program. This course will address an important area of I-O psychology and allow us to expand on material only partially covered in Psych 5700 previously. This is another core area suggested in the Guidelines for education and training in I-O Psychology.

Semesters previously offered as an

experimental
course

Co-Listed

Courses:

Course Reviewer

Comments

smetg6 (10/06/16 10:55 am): Added a period to the prerequisite box.

Key: 4360

[Preview Bridge](#)

Course Inventory Change Request

Date Submitted: 10/02/16 4:36 pm

Viewing: **PSYCH 6702 : Personnel Selection**

File: 4081.1

Last approved: 06/30/14 3:55 am

Last edit: 10/06/16 10:56 am

Changes proposed by: weidnern

Programs

referencing this
course

[INORGPS-MS: Industrial Organizational Psychology MS](#)

Requested Fall **2017** ~~2014~~

Effective Change
Date

Department Psychological Science

Discipline Psychology (PSYCH)

Course Number 6702

Title
Personnel Selection

Abbreviated Personnel Selection
Course Title

Catalog
Description

In Workflow

1. RPSYCHOL Chair

2. CCC Secretary

3. Social Sciences

DSCC Chair

**4. Pending CCC
Agenda post**

5. CCC Meeting
Agenda

6. Campus Curricula
Committee Chair

7. FS Meeting
Agenda

8. Faculty Senate
Chair

9. Registrar

10. Ishelton

11. Peoplesoft

Approval Path

1. 10/03/16 10:19
am

murray: Approved
for RPSYCHOL
Chair

2. 10/03/16 10:28
am

Shauntae Ellis
(smetg6):

Approved for CCC
Secretary

3. 10/05/16 3:47 pm

Barry Flachbart
(barryf):

Approved for
Social Sciences
DSCC Chair

History

1. Jun 30, 2014 by
Lahne Black
(lahne)

Current trends and methods in personnel recruitment and selection including classification, and promotion will be examined. An emphasis will be placed on legal and methodological considerations that can impact proper testing and assessment procedures. Cognitive abilities, personality, physical abilities, and other non-cognitive assessments will be discussed. ~~Developing and using assessment tools for personnel selection, classification, and promotion; measuring the impact of cultural variables on test performance; early identification of managerial potential; and emphasis on alternatives to cognitive abilities testing, including physical fitness and personality assessment.~~

Prerequisites

Psych 5700. ~~Graduate standing.~~

Field Trip

Statement

Credit Hours	LEC: 3	LAB: 0	IND: 0	RSD: 0
Total: 3				

Required for Majors	Yes
------------------------	-----

Elective for Majors	No
------------------------	----

Justification for
change:

This change is included as part of our Degree Change for the Industrial-Organizational Psychology MS degree. The description has been updated to better reflect the course content and the change in prerequisite is because this course will now be treated as an advanced course in the program requiring previous experience in I-O Psychology graduate coursework.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

smetg6 (10/06/16 10:56 am): Added a period to the prerequisite box.

Course Inventory Change Request

Date Submitted: 09/12/16 10:37 am

Viewing: **STAT 5425 : Introduction to Biostatistics**

File: 652.1

Last edit: 09/12/16 10:37 am

Changes proposed by: imorgan

Programs

referencing this
course

[BIO SC-BA: Biological Sciences BA](#)

[BIO SC-BS: Biological Sciences BS](#)

[BIOMED-MI: Biomedical Engineering Minor](#)

Requested Fall **2017** ~~2014~~

Effective Change

Date

Department Mathematics & Statistics

Discipline Statistics (STAT)

Course Number 5425

Title

Introduction to Biostatistics

Abbreviated Introduction to Biostatistics

Course Title

Catalog

Description

In Workflow

1. **RMATHEMA
Chair**

2. **CCC Secretary**

3. **Sciences DSCC
Chair**

4. **Pending CCC
Agenda post**

5. CCC Meeting
Agenda

6. Campus Curricula
Committee Chair

7. FS Meeting
Agenda

8. Faculty Senate
Chair

9. Registrar

10. Ishelton

11. Peoplesoft

Approval Path

1. 09/12/16 10:37
am

sclark: Approved
for RMATHEMA
Chair

2. 09/13/16 3:45 pm
Shauntae Ellis
(smetg6):

Approved for CCC
Secretary
3. 10/05/16 10:12
am
Ilene Morgan
(imorgan):
Approved for
Sciences DSCC
Chair

Introduction to common biostatistical methods for designing research studies, collecting and analyzing data, with application to problems originating from the biological, environmental, and health sciences. Topics include randomization, means comparisons, ANOVA, regression, and analysis of count data.

Prerequisites

A grade of "C" or better in Math 1120, Math 1140, Math 1208, Math 1212, or Math 1214. ~~1140 or equivalent.~~

Field Trip

Statement

Credit Hours LEC: 3 LAB: 1 IND: 0 RSD: 0

Total: 4

Required for No

Majors

Elective for **Yes**~~No~~

Majors

Justification for

change:

We want to strengthen the grade requirement for college algebra, but we also want students with calculus credit (which indicates satisfactory algebra skills) to pass the PERC check without having to give them special permission.

Semesters

previously

offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 652

[Preview Bridge](#)

Program Change Request

Date Submitted: 04/27/16 5:24 pm

Viewing: **CP ENG-BS : Computer Engineering
BS**

File: 153.39

Last approved: 04/25/16 2:11 pm

Last edit: 10/06/16 9:42 am

Changes proposed by: stanleyj

Catalog Pages

Using this

Program

[Computer Engineering](#)

Start Term	Fall 2017 2016
Program Code	CP ENG-BS
Department	Electrical and Computer Engineering
Title	

In Workflow

1. RELECENG Chair
2. CCC Secretary
3. Engineering DSCC Chair
4. Pending CCC Agenda post
5. CCC Meeting Agenda
6. Campus Curricula Committee Chair
7. FS Meeting Agenda
8. Faculty Senate Chair
9. Registrar
10. kristyg

Approval Path

1. 09/20/16 4:43 pm
Daryl Beetner
(daryl): Approved for RELECENG Chair
2. 09/22/16 8:45 am
Shauntae Ellis
(smetg6): Approved for CCC Secretary
3. 09/30/16 9:02 am
srafer: Approved for Engineering DSCC Chair
4. 10/06/16 9:43 am
Shauntae Ellis
(smetg6): Approved for Pending CCC Agenda post

History

1. Aug 6, 2014 by Stanley (stanleyj)
2. Aug 13, 2014 by pantaleoa
3. Sep 21, 2015 by kleb6b
4. Apr 25, 2016 by Stanley (stanleyj)

Computer Engineering BS

Program Requirements and Description

Bachelor of Science Computer Engineering¹

Entering freshmen desiring to study Computer Engineering will be admitted to the Freshman Engineering Program. They will be permitted to state a Computer Engineering preference, which will be used as a consideration for available freshman departmental scholarships. The focus of the Freshman Engineering program is on enhanced advising and career counseling, with the goal of providing to the student the information necessary to make an informed decision regarding the choice of a major.

For the Bachelor of Science degree in Computer Engineering a minimum of 128 credit hours is required. These requirements are in addition to credit received for algebra, trigonometry, and basic ROTC courses. An average of at least two grade points per credit hour must be attained. At least two grade points per credit hour must also be attained in all courses taken in Computer Engineering.

Each student's program of study must contain a minimum of 21 credit hours of course work in general education and must be chosen according to the following rules:

1. All students are required to take one American history course, one economics course, one humanities course, and . The history course is to be selected from [HISTORY 1200](#), [HISTORY 1300](#), [HISTORY 1310](#), or [POL SCI 1200](#). ~~POL-SCI-1200~~. The economics course may be either [ECON 1100](#) ~~ECON 1100~~ or [ECON 1200](#). The humanities course must be selected from the approved lists for art, English, foreign languages, music, philosophy, speech and media studies, or theater.
2. Depth requirement. Three credit hours must be taken in humanities or social sciences at the 2000 level or above and must be selected from the approved list. This course must have as a prerequisite one of the humanities or social sciences courses already taken. Foreign language courses numbered 1180 will be considered to satisfy this requirement. Students may receive humanities credit for foreign language courses in their native tongue only if the course is at the 4000 level. All courses taken to satisfy the depth requirement must be taken after graduating from high school.
3. The remaining two courses are to be chosen from the list of approved humanities/social sciences courses and may include one communications course in addition to [ENGLISH 1120](#).
4. Any specific departmental requirements in the general studies area must be satisfied.
5. Special topics and special problems and honors seminars are allowed only by petition to and approval by the student's department chairman.

The Computer Engineering program at Missouri S&T is characterized by its focus on the scientific basics of engineering and its innovative application; indeed, the underlying theme of this educational program is the application of the scientific basics to

engineering practice through attention to problems and needs of the public. The necessary interrelations among the various topics, the engineering disciplines, and the other professions as they naturally come together in the solution of real world problems are emphasized as research, analysis, synthesis, and design. These interrelations are presented and discussed through classroom and laboratory instruction.

Free Electives Footnote:

Each student is required to take three hours of free electives in consultation with his/her academic advisor. Credits which do not count towards this requirement are deficiency courses (such as algebra and trigonometry), and extra credits in required courses. Any courses outside of engineering and science must be at least three credit hours.

Freshman Year			
First Semester	Credits	Second Semester	Credits
FR ENG 1100 ²	1	MECH ENG 1720	3
MATH 1214 ³	4	MATH 1215 ³	4
CHEM 1310	4	PHYSICS 1135 ^{3,4}	4
CHEM 1319	1	ECON 1100 or 1200	3
HISTORY 1200 , or 1300 , or 1310 , or POL SCI 1200	3	Elective-Hum or Soc (any level) ⁵	3
ENGLISH 1120	3		
	16		17
Sophomore Year			
First Semester	Credits	Second Semester	Credits
ELEC ENG 2100 ^{3,6,7}	3	COMP ENG 2210 ^{3,6,8}	3
ELEC ENG 2101 ^{3,6}	1	COMP ENG 2211 ^{3,6}	1
MATH 2222 ³	4	ELEC ENG 2120 ^{3,7,9}	3
COMP SCI 1570 ³	3	MATH 3304 ³	3
COMP SCI 1580 ³	1	COMP SCI 1510 ³	3
PHYSICS 2135 ^{3,4}	4	COMP SCI 1200 ³	3
	16		16
Junior Year			
First Semester	Credits	Second Semester	Credits
COMP ENG 3110	3	COMP ENG Elective A ^{3,14}	3
COMP ENG 3150	3	ELEC ENG 3410 ^{3,6,9}	3
COMP ENG 3151 ^{3,6,8}	1	COMP SCI 3800 or 2500 ³	3
ELEC ENG 2200 ^{3,6,7}	3	STAT 3117 ¹²	3
ELEC ENG 2201 ^{3,6,7}	1	Communication Elective ¹³	3

Mathematics Elective ¹⁰	3		
SP&M S 1185 ¹³	3		
	17		15
Senior Year			
First Semester	Credits	Second Semester	Credits
COMP ENG 5410 or COMP SCI 5600 ³	3	COMP ENG Elective D ^{3,15,16}	3
COMP ENG Elective C ^{3,15,16}	3	COMP ENG Elective E ^{3,15,16}	3
COMP ENG 4096 ^{3,17}	1	COMP ENG 4097 ^{3,17}	3
Elective-Hum or Soc (any level) ⁵	3	Elective-Hum or Soc (upper level) ⁵	3
Engineering Science Elective ¹¹	3	Free Elective ¹⁸	3
COMP ENG Elective B ^{3,19}	3		
	16		15
Total Credits: 128			

Notes: Student must satisfy the common engineering freshman year requirements and be admitted into the department.

1	The minimum number of hours required for a degree in Computer Engineering is 128.
2	Students that transfer to Missouri S&T after their freshman year are not required to enroll in Freshman Engineering Seminars.
3	A minimum grade of "C" must be attained in MATH 1214 , MATH 1215 , MATH 2222 , and MATH 3304 , PHYSICS 1135 and PHYSICS 2135 (or their equivalents), COMP SCI 1570 , COMP SCI 1580 , COMP SCI 1510 , COMP SCI 1200 , Comp Sci 2500 COMP SCI 3800 , COMP ENG 2210 , COMP ENG 2211 , COMP ENG 3150 , COMP ENG 3551 , COMP ENG 3110 , COMP ENG 5410 or COMP SCI 5600 , COMP ENG 4096 , and ELEC ENG 2100 , ELEC ENG 2101 , ELEC ENG 2120 , ELEC ENG 2200 , ELEC ENG 2201 , ELEC ENG 3410 , and ELEC ENG 3411 , and the COMP ENG electives A, B, C, D and E. Also, students may not enroll in other courses that use these courses as prerequisites until the minimum grade of "C" is attained.
4	Students may take PHYSICS 1111 and PHYSICS 1119 in place of PHYSICS 1135 . Students may take PHYSICS 2111 and PHYSICS 2119 in place of PHYSICS 2135 .
5	All electives must be approved by the student's advisor. Students must comply with the general education requirements with respect to selection and depth of study. These requirements are specified in the current catalog.
6	Students who drop a lecture course prior to the deadline to drop a class must also drop the corequisite lab course.
7	Students must earn a passing grade on the ELEC ENG Advancement Exam I (associated with ELEC ENG 2100) before they enroll in ELEC ENG 2120 or ELEC ENG 2200 and ELEC ENG 2201 .
8	Students must earn a passing grade on the COMP ENG Advancement Exam (associated with COMP ENG 2210) before they enroll in any course with COMP ENG 2210 and COMP ENG 2211 as prerequisites.
9	Students must earn a passing grade on the ELEC ENG Advancement Exam II (associated with ELEC ENG 2120) before they enroll in ELEC ENG 3410 and ELEC ENG 3411 .

10	Students must take one of the following courses: MATH 3103 , MATH 3108 , MATH 3109 , MATH 5302 , MATH 5603 , MATH 5105 , MATH 5106 , MATH 5107 , MATH 5108 , MATH 4209 , MATH 4211 , MATH 5215 , MATH 5222 , MATH 5325 , MATH 4530 , MATH 5737 , MATH 5351 , MATH 5154 , MATH 4096 , MATH 5483 , MATH 5585 , STAT 5644 , STAT 5346 , STAT 5353 .
11	Students must take MECH ENG 2340 , MECH ENG 2519 , MECH ENG 2527 , PHYSICS 2311 , PHYSICS 2401 , CHEM 2210 , BIO SCI 2213 , or BIO SCI 2223 . The following pairs of course are substitutions for any single course: CIV ENG 2200 and MECH ENG 2350 , PHYSICS 2305 and PHYSICS 4311 , PHYSICS 2305 and CER ENG 4240 , or PHYSICS 2305 and NUC ENG 3205 .
12	Students may replace STAT 3117 with STAT 3115 or STAT 5643 .
13	Student must take English 3560 or English 1160. Students may replace SpMS 1185 with the ROTC sequence of Mil Army 4250 and 4500 or Mil Air 4110 and 4120
14	Comp Eng Elective A must be a 4000 or 5000-level Comp Eng, Elec Eng, or Comp Sci course with at least a 3-hour lecture component. This normally includes all Comp Eng and Elec Eng 4000 or 5000-level courses except Comp Eng or Elec Eng 4000, 4099, 4096, and 4097 or Comp Sci 5000, 4010, 5600, and 4099.
15	Comp Eng Electives C, D, and E must be 3000, 4000 or 5000-level courses from an approved list of science, mathematics, and engineering courses. In particular, this list includes all 3000, 4000 or 5000-level Comp Eng, Elec Eng and Comp Sci courses except required courses in Comp Eng, Elec Eng, and Comp Sci and except Comp Eng 4096 and 4097, Elec Eng 2800, 1002, 1003, 4096, and 4097, and Comp Sci 2002 and 4600/5600). Comp Eng Electives C, D, and E must include at least six hours of engineering or computer science courses.
16	COMP ENG Electives C, D, and E cannot include more than three hours of COMP ENG 4000 , COMP ENG 4099 , ELEC ENG 4000 , or ELEC ENG 4099 .
17	Students pursuing dual degrees in COMP ENG and ELEC ENG may take either COMP ENG 4096 or ELEC ENG 4096 and COMP ENG 4097 or ELEC ENG 4097 . Students may not receive credit for both COMP ENG 4096 and ELEC ENG 4096 or COMP ENG 4097 and ELEC ENG 4097 in the same degree program.
18	Students are required to take at least three credit hours. Elec Eng 2800 level, ELEC ENG 4096 , ELEC ENG 4097 , COMP ENG 4096 and COMP ENG 4097 may not be used for free electives. No more than one credit hour of COMP ENG 3002 or ELEC ENG 3002 may be applied to the BS degree for free electives.
19	Comp Eng Elective B must be a 4000 or 5000 level COMP ENG course with at least a 3-hour lecture component, excluding COMP ENG 4096 and COMP ENG 4097 .

Emphasis Areas for Computer Engineering

Note: The following emphasis areas identify courses from which a student may opt to develop a specific emphasis. It is not required that students obtain an emphasis specialty within computer engineering.

Computational Intelligence

Highly Recommended		
COMP ENG 5310	Computational Intelligence	3
ELEC ENG 5370	Introduction to Neural Networks and Applications	3

COMP ENG 6310	Markov Decision Processes	3
Suggested		
ELEC ENG 5330	Fuzzy Logic Control	3
COMP ENG 5450	Digital Image Processing	3
COMP ENG 5460	Machine Vision	3

Computer Architecture and Embedded Systems

Highly Recommended		
COMP ENG 5110	Principles of Computer Architecture	3
COMP ENG 5120	Digital Computer Design	3
COMP ENG 5151	Digital Systems Design Laboratory	3
COMP ENG 5160	Embedded Processor System Design	3
COMP ENG 5170	Real-Time Systems	3
Suggested		
COMP ENG 5610	Real-Time Digital Signal Processing	3
COMP ENG 5130	Advanced Microcomputer System Design	3
ELEC ENG 3100	Electronics I	3
COMP SCI 3100	Software Engineering I	3

Integrated Circuits and Logic Design

Highly Recommended		
COMP ENG 2210	Introduction to Digital Logic	3
COMP ENG 5210	Introduction To VLSI Design	3
COMP ENG 5220	Digital System Modeling	3
COMP ENG 6210	Digital Logic	3
Suggested		
ELEC ENG 3100	Electronics I	3
COMP ENG 5110	Principles of Computer Architecture	3
COMP ENG 5151	Digital Systems Design Laboratory	3
COMP ENG 5120	Digital Computer Design	3
COMP ENG 5130	Advanced Microcomputer System Design	3
COMP ENG 5510	Fault-Tolerant Digital Systems	3

Networking, Security, and Dependability

Highly Recommended		
COMP ENG 5420	Introduction to Network Security	3
COMP ENG 5430	Wireless Networks	3
COMP ENG 6440	Network Performance Analysis	3
COMP ENG 6510	Resilient Networks	3
Suggested		
COMP ENG 5510	Fault-Tolerant Digital Systems	3

Justification for request

Undergraduate students can pursue breadth and depth of knowledge in hardware and/or software oriented emphasis areas in their Comp Eng BS degree programs. Updating the current requirement of "Comp Sci 3800-Operating Systems" with "Comp Sci 3800-Operating Systems or Comp Sci 2500-Algorithms" enhances this flexibility and provides fundamental knowledge for Computer Engineering undergraduate students in the respective hardware and software areas. Since none of the Computer Engineering core undergraduate courses requires Comp Sci 3800 as a prerequisite, the proposed requirement change does not impact the ability of Computer Engineering undergraduate students to take required courses. This change was approved by the Computer Engineering faculty on April 19, 2016.

Supporting Documents

Course Reviewer Comments

smetg6 (09/23/16 8:55 am): In the junior year, second semester removed the word Algorithms from Comp Sci 2500 per S. Raper's request.

sraper (09/23/16 12:33 pm): Put Comp Sci 2500 into footnote 3 via email approval from Joe Stanley.

smetg6 (10/06/16 9:42 am): Changed Start Term to Fall 2017

Program Change Request

Date Submitted: 09/20/16 4:05 pm

Viewing: **HISTORY-BS : Bachelor of Science in History**

File: 242.7

Last approved: 07/27/16 9:41 am

Last edit: 09/20/16 4:05 pm

Changes proposed by: dewittp

Catalog Pages

Using this

Program

[History](#)

Start Term	Spring 2017 Fall 2016
Program Code	HISTORY-BS
Department	History and Political Science
Title	Bachelor of Science in History

Program Requirements and Description

Bachelor of Science History

Students must take a minimum of 120 hours for a Bachelor of Science degree in history, and obtain a grade point average of 2.0. These requirements for the B.S. are in addition to credit received for basic ROTC.

The B.S. in history requires the following:

1. ENGLISH 1120 (entering students will normally take ENGLISH 1120 within their first year of study) and one other writing intensive course outside their major, which may include ENGLISH 1160, ENGLISH 1170, or ENGLISH 3560. (6 hours)
2. Math and Sciences. The general requirements for a B.S. call for at least 18 hours in biological, physical (chemistry, geology, physics), and mathematical (mathematics, statistics, computer science, and information science and technology) sciences. The B.S. in

In Workflow

1. RHISTORY Chair
2. CCC Secretary
3. Arts & Humanities DSCC Chair
4. Pending CCC Agenda post
5. CCC Meeting Agenda
6. Campus Curricula Committee Chair
7. FS Meeting Agenda
8. Faculty Senate Chair
9. Registrar
10. kristyg

Approval Path

1. 09/20/16 4:59 pm sfogg: Approved for RHISTORY Chair
2. 09/22/16 8:46 am Shauntae Ellis (smetg6): Approved for CCC Secretary
3. 09/22/16 10:48 am Petra Dewitt (dewittp): Approved for Arts & Humanities DSCC Chair

History

1. Jun 27, 2016 by Petra Dewitt (dewittp)
2. Jul 27, 2016 by Crystal Wilson (wilsoncry)

history requires at least one course from each of the biological and physical sciences, one lab, and at least one math course at the level of college algebra or higher. In addition to these requirements, students may count STAT 1115, up to 3 hours from psychology classes (PSYCH 2200 preferred), and up to 3 hours from history of science and technology classes (HISTORY 2510, HISTORY 3510, or HISTORY 2530), but may not use them to satisfy another requirement. (18 hours)

3. Humanities. Students must take 12 hours in humanities other than history with at least one course from literature, philosophy, and fine arts (Art, Music, or Theater Appreciation). Students may take courses in language and humanities other than history to meet the 12 hours requirement. (12 hours)

4. Social Sciences. Students must take 12 hours in social sciences. Students must take POL SCI 1200 and at least one course in two from the three areas: economics, political science, and psychology. At the discretion of the major adviser, students may transfer up to 3 hours of Sociology to meet the 12 hours requirement. (12 hours)

5. History. Students must take 37 hours in required history courses, including HISTORY 1790, HISTORY 1100, HISTORY 1200, HISTORY 1300, HISTORY 1310, ~~HISTORY 2790~~, and HISTORY 2790. ~~4097~~. The student must earn a grade of C or better in these required courses. (37)

6. History Electives. Students must take at least ~~21~~ ~~18~~ hours in history electives, including at least 6 hours in American history and at least 6 hours in European history. Nine of these ~~21~~ ~~18~~ hours of history electives must be at or above the 3000 level. (~~21~~ ~~18~~ hours)

7. Electives Credit. Each student will elect sufficient additional courses to complete a minimum of 120 credit hours, which may include up to 12 hours in engineering courses at the discretion of the major adviser. At least 9 hours of these electives must be at the 3000 or above level, although substitutions may be permitted at the discretion of the major adviser. All electives must accumulate to at least a 2.0 grade point average.

Justification for request

History 4097, or Senior Project, is no longer a required course, but remains an optional course encouraged for students who go on to graduate school. CC form was approved fall 2016 before new BS degree achieved approval.

Supporting Documents

Course Reviewer Comments

Program Change Request

Date Submitted: 10/02/16 3:43 pm

Viewing: **INORGPS-MS : Industrial Organizational Psychology MS**

File: 234.13

Last approved: 07/24/15 5:33 pm

Last edit: 10/03/16 11:28 am

Changes proposed by: weidnern

Catalog Pages

Using this

Program

[Psychology](#)

Start Term	Fall 2017 2015
Program Code	INORGPS-MS
Department	Psychological Science
Title	

In Workflow

1. RPSYCHOL Chair
2. CCC Secretary
3. Social Sciences DSCC Chair
4. Pending CCC Agenda post
5. CCC Meeting Agenda
6. Campus Curricula Committee Chair
7. FS Meeting Agenda
8. Faculty Senate Chair
9. Registrar
10. kristyng

Approval Path

1. 10/03/16 11:26 am murray: Approved for RPSYCHOL Chair
2. 10/03/16 11:29 am Shauntae Ellis (smetg6): Approved for CCC Secretary
3. 10/05/16 3:46 pm Barry Flachbart (barryf): Approved for Social Sciences DSCC Chair
4. 10/06/16 10:00 am Shauntae Ellis (smetg6): Approved for Pending CCC Agenda post

History

1. Apr 17, 2014 by Lahne Black (lahne)
2. Apr 17, 2014 by Lahne Black (lahne)
3. Apr 24, 2014 by Lahne Black (lahne)
4. Apr 24, 2014 by Lahne Black (lahne)
5. Apr 24, 2014 by Lahne Black (lahne)
6. May 7, 2014 by Lahne Black (lahne)
7. Jul 8, 2014 by pantaleoa
8. Jul 29, 2014 by pantaleoa
9. Jun 19, 2015 by nstone
10. Jun 23, 2015 by pantaleoa
11. Jul 24, 2015 by pantaleoa
12. Jul 24, 2015 by pantaleoa

Industrial Organizational Psychology MS

Program Requirements and Description

Master of Science in Industrial-Organizational Psychology

Admission Requirements

Students interested in the M.S. in I-O psychology program should review the admissions requirements listed on our website (<http://psych.mst.edu/graduate/indorgpsych/>).

Program Requirements

The M.S. in industrial-organizational psychology requires **40** ~~a minimum of 36~~ credit hours **which includes a** ~~and allows students to select one of three non-thesis tracks (leadership in technological organizations, human factors, or psychometrics) or the~~ **non-thesis** ~~or~~ option. Students will complete **24 credit** ~~15~~ hours of core courses, **10** ~~9~~ hours of methods courses, **and either 6** ~~9~~ hours of **elective credits** ~~specialization courses within the track~~ or **6 hours of the** ~~thesis~~ **credits. Applied internship experiences are suggested, but not required as part** ~~option requirements, and 3 hours of electives from within any~~ of the **program. The program**

will take at least 2 years to complete and classes are offered both on-campus and via distance. ~~three specialization emphasis (track) areas-~~

Core Courses (24 hours)	
PSYCH 5010	Seminar in Industrial / Organizational Psychology
PSYCH 5601	Small Group Dynamics
PSYCH 5602	Organizational Development
PSYCH 5700	Job Analysis and Performance Management
PSYCH 6610	Leadership, Motivation, and Culture
PSYCH 6702	Personnel Selection
PSYCH 6602 Employee Affect and Behavior	Course PSYCH 6602 Employee Affect and Behavior Not Found
Psych 6700 Training and Development	Course Psych 6700 Training and Development Not Found
Methods Courses (10 hours)	
PSYCH 5201	Psychometrics
PSYCH 6210	Course PSYCH 6210 Not Found
STAT 5353	Statistical Data Analysis
PSYCH 5002 Ethics and Professional Responsibilities	Course PSYCH 5002 Ethics and Professional Responsibilities Not Found
PSYCH 5202 Applied Data Analysis	Course PSYCH 5202 Applied Data Analysis Not Found
5000-level or 6000-level PSYCH, ENG-MGT, IS&T, or STAT course pertaining to thesis topic (to be approved by student's academic advisor)	
PSYCH 6085	Internship
Electives or Thesis (6 hours)	
Human Factors (non-thesis)	
PSYCH 5710	Advanced Human Factors
PSYCH 5720	Advanced Human-Computer Interaction
PSYCH 5730	Environmental Psychology: Research and Practice
PSYCH 6085	Internship
PSYCH 6099	Research
ENG-MGT 5316	Safety Engineering Management
ENG-MGT 6310	Human Systems Integration
ENG-MGT 6113	Advanced Personnel Management
ERP 5110	Enterprise Resource Planning Systems Design and Implementation

ERP-5310	Supply-Chain-Management-Systems-in-an-ERP-Environment
ERP-5210	Performance-Dashboard,-Scorecard-and-Data-Visualization
IS&T-5885	Human-Computer-Interaction
IS&T-5886	Prototyping-Human-Computer-Interactions
IS&T-5887	Human-Computer-Interaction-Evaluation
IS&T-6680	Advanced-Web-and-New-Media-Studies
IS&T-6887	Research-Methods-in-Business-and-IS&T
Leadership-in-Technical-Organizations-emphasis-(non-thesis):	
PSYCH-4992	Cross-Cultural-Psychology
<u>PSYCH 5600</u>	Advanced Social Psychology
PSYCH-5603	Advanced-Social-Influence
PSYCH-6611	Leadership-for-Engineers
PSYCH-6085	Internship
PSYCH-6099	Research
ENG-MGT-5110	Managerial-Decision-Making
ENG-MGT-5512	Legal-Environment
ENG-MGT-6510	Technological-Innovation-Management
ENG-MGT-6113	Advanced-Personnel-Management
IS&T-5251	Technological-Innovation-Management-and-Leadership
IS&T-5168	Law-and-Ethics-in-E-Commerce
Psychometrics-emphasis-(non-thesis)	
PSYCH-5200	Theories-and-Practice-of-Psychological-Measurement
PSYCH-6085	Internship
PSYCH-6099	Research
STAT-5643	Probability-And-Statistics
STAT-5644	Mathematical-Statistics
STAT-5346	Regression-Analysis
STAT-6344	Design-And-Analysis-Of-Experiments
STAT-6545	Multivariate-Statistical-Methods
STAT-6553	Linear-Statistical-Models-I
STAT-6554	Linear-Statistical-Models-II
Thesis-Option-(9-hours):	
Psych 5400 Advanced Cognitive Psychology	Course Psych 5400 Advanced Cognitive Psychology

	Not Found
Psych 5740 Occupational Health and Safety	Course Psych 5740 Occupational Health and Safety Not Found
Students completing a thesis would need to complete the following in place of electives:	
<u>PSYCH 6099</u>	Research

~~Electives (3 hours): Three hours of electives from within any of the three specialization emphasis areas Thesis or internship experience: Students in one of the three specialization emphasis areas are not required to complete a thesis. There is a thesis option, which requires the completion of a thesis. The thesis will be a research project on an I-O topic selected by the student in consultation with his or her advisor. Students in one of the specialization areas may complete a thesis, but it will require hours beyond the minimum of 36 credit hours. Internships are encouraged, but not required of the students and also will require hours beyond the minimum of 36 credit hours.~~

⁴ ~~To be designated by advisor~~

Justification for request

The new proposed curriculum will allow us to properly address the recently approved (April, 2016) Guidelines for Education and Training in Industrial-Organizational Psychology (attached) which sets the standards for education in this field. The new curriculum moves from a 36 credit hour program to a 40 credit hour program in order to be more competitive with other similar programs which are often 42-47 credit hours. The new courses and course changes included in the curriculum allow for additional specialization needed to keep pace with expectations in the field of I-O. See the attached "I-O MS Curriculum for DC form" for additional details, justifications, and an overview of the feasibility of the new curriculum.

Supporting Documents

Course Reviewer Comments

smetg6 (10/03/16 11:28 am): Changed to FS 2017

Program Change Request

Date Submitted: 04/07/16 3:31 pm

Viewing: **NU ENG-BS : Nuclear Engineering BS**

File: 104.9

Last approved: 07/21/15 12:11 pm

Last edit: 09/22/16 1:54 pm

Changes proposed by: leehk

Catalog Pages

Using this

Program

[Nuclear Engineering](#)

Start Term	Fall 2015 2017
Program Code	NU ENG-BS
Department	Mining & Nuclear Engineering
Title	

In Workflow

1. **RMINNUCL Chair**
2. **CCC Secretary**
3. **Engineering DSCC Chair**
4. **Pending CCC Agenda post**
5. **CCC Meeting Agenda**
6. Campus Curricula Committee Chair
7. FS Meeting Agenda
8. Faculty Senate Chair
9. Registrar
10. kristyg

Approval Path

1. 08/25/16 9:03 am Braden lusk (blusk): Approved for RMINNUCL Chair
2. 08/31/16 1:33 pm Shauntae Ellis (smetg6): Approved for CCC Secretary
3. 09/22/16 1:54 pm sraper: Approved for Engineering DSCC Chair
4. 10/06/16 10:08 am Shauntae Ellis (smetg6): Approved for Pending CCC Agenda post

History

1. Aug 6, 2014 by

Lahne Black (lahne)
2. Jul 21, 2015 by
pantaleoa

Nuclear Engineering BS

Program Requirements and Description

Bachelor of Science Nuclear Engineering

Entering freshmen desiring to study nuclear engineering will be admitted to the Freshman Engineering Program. They will, however, be permitted, to state a nuclear engineering preference, which will be used as a consideration for available departmental scholarships.

For the bachelor of science degree in nuclear engineering a minimum of 128 credit hours is required. These requirements are in addition to credit received for algebra, trigonometry, and basic ROTC courses. A student must maintain an average of at least two grade points overall and for all courses taken in nuclear engineering.

Each student's program of study must contain a minimum of 18 credit hours of course work from the humanities and the social sciences areas and should be chosen according to the following rules:

1. All students are required to take one American history course and one economics course. The history course is to be selected from [HISTORY 1200](#), [HISTORY 1300](#), [HISTORY 1310](#), or [POL SCI 1200](#). The economics course may be either [ECON 1100](#) or [ECON 1200](#).
2. Students must take [ENGLISH 1120](#). Students are also required to take one humanities course to be selected from "The Approved List of Humanities and Social Science Courses for Engineering Degrees" maintained by the office of undergraduate studies.
3. Of the remaining hours, six credit hours must be taken in humanities or social sciences at the 1000 level or above and must be selected from "The Approved List of Humanities and Social Science Courses for Engineering Degrees" maintained by the office of undergraduate studies. One of these courses must have as a prerequisite one of the humanities or social sciences courses already taken. Foreign language courses numbered 1180 can be considered to be one of these courses. (Students may receive humanities credit for foreign language courses in their native tongue only if the course is at the 4000 level.)
4. Skill courses are not allowed to meet humanities and social sciences requirements except in foreign languages. Students who select the foreign language option are urged to take more than one course.
5. Special topics, special problems courses and honors seminars are allowed only by petition to and approval by the student's department chair.

The nuclear engineering program at Missouri S&T is characterized by its focus on the scientific basics of engineering and its innovative application. The necessary interrelations among the various topics, the engineering disciplines, and the other professions as they naturally come together in the solution of real world problems are emphasized as research, analysis, synthesis, and design are presented and discussed through classroom and laboratory instruction.

Freshman Year

First Semester	Credits	Second Semester	Credits
Freshman Chemistry Requirement ¹	5	Elective-Hum or Soc Sci ³	3
ENGLISH 1120	3	HISTORY 1200 , or 1300 , or 1310 , or POL SCI 1200	3
FR ENG 1100	1	PHYSICS 1135	4
MATH 1214	4	MECH ENG 1720	3
NUC ENG 1105 ²	1	MATH 1215	4
	14		17
Sophomore Year			
First Semester	Credits	Second Semester	Credits
CIV ENG 2200	3	STAT 3111 , or 3113 , or 3115 , or 3117	3
Elective ⁶	3	ECON 1100 or 1200	3
MATH 2222	4	NUC ENG 2406	1
NUC ENG 2105	2	CIV ENG 2210	3
PHYSICS 2135	4	MATH 3304	3
		PHYSICS 2305	3
	16		16
Junior Year			
First Semester	Credits	Second Semester	Credits
Elective-Hum or Soc Sci ³	3	ENGLISH 1160 or 3560	3
COMP SCI 3200 (or any 3000-level MATH or 5000-level STAT)	3	NUC ENG 4312	3
MET ENG 2110	3	NUC ENG 3223	3
NUC ENG 3205	3	NUC ENG 4203	3
NUC ENG 3221	3	NUC ENG 4229	3
		Technical Electives-3000 or 4000 level ⁵	3
	15		18
Senior Year			
First Semester	Credits	Second Semester	Credits
Elective-Hum or Soc Sc ³	3	Elective-Hum or Soc Sci ³	3
NUC ENG 4428	2	Technical Elective-4000 level ⁵	3
NUC ENG 4207	3	Free Elective ⁴	6
Elective-4000 level MATH	3	NUC ENG 4438	2
NUC ENG 4496	1	NUC ENG 4497	3

NUC ENG 4241	3	
	15	17
Total Credits: 128		

Note: Minimum credit hours for graduation is 128.

1	CHEM 1310 and CHEM 1319 or CHEM 1351 and CHEM 1100 or an equivalent training program approved by Missouri S&T.
2	Nuclear Engineering students are expected to take Nuclear Technology Applications (NUC ENG 1105) during their Freshman year. However, transfer students are exempt.
3	Humanities and Social Science to be taken in accordance with the policy described above.
4	Courses which do not count towards this requirement are remedial courses such as algebra and trigonometry, physical education courses, extra credits in required courses, and basic Air Force and Army ROTC courses (courses taught in the first two years of the ROTC program).
5	Any Math, Science, or Engineering courses.
6	The programming elective consists of a lecture and lab combination, and may be selected from COMP SCI 1970 and COMP SCI 1980 , or COMP SCI 1971 and COMP SCI 1981 , or COMP SCI 1972 and COMP SCI 1982 , or COMP SCI 1570 and COMP SCI 1580 . Note that COMP SCI 1570 and COMP SCI 1580 requires one more credit hour than the other options.

Fundamentals of Engineering Exam: All nuclear engineering students must take the Fundamentals of Engineering Examination prior to graduation. A passing grade on this examination is not required to earn a B.S. degree, however, it is the first step toward becoming a registered professional engineer. This requirement is part of the Missouri S&T assessment process as described in assessment requirements found elsewhere in this catalog.

Justification for request

Comp Sci 1972 and Comp Sci 1982 are classes in Matlab programming methods, which are useful for engineering problem solving. By including these classes as alternatives to the recommended programming electives, nuclear engineering students are being provided with the opportunity to take classes relevant and useful to their degree program and engineering career.

Supporting Documents

Course Reviewer Comments

smetg6 (08/31/16 1:33 pm): Changed start to Fall 2017

sraper (09/22/16 1:54 pm): This is a tentative approval as there were questions concerning Foot note 1 "Chem 1100 or equivalent training program. This should be discussed at the CCC meeting and whether that foot note should be modified. Email comments will be brought to the meeting.

Key: 104

Course Inventory Change Request

New Experimental Course Proposal

Date Submitted: 09/29/16 3:33 pm

Viewing: **ART 3001.003 : Great Directors**

File: 4346

Last edit: 09/30/16 9:41 am

Changes proposed by: amt253

Requested Spring 2017

Effective Change

Date

Department Arts, Languages, & Philosophy

Discipline Art (ART)

Course Number 3001

Topic ID 003

Experimental

Title

Great Directors

Experimental Great Directors

Abbreviated

Course Title

Instructors Andrew Tohline

Experimental

Catalog

Description

In Workflow

1. **RPHILOSO Chair**
2. **CCC Secretary**
3. **Arts & Humanities DSCC Chair**
4. **Pending CCC Agenda post**
5. CCC Meeting Agenda
6. Campus Curricula Committee Chair
7. Registrar

Approval Path

1. 09/29/16 4:19 pm
Audra Merfeld-Langston
(audram):
Approved for RPHILOSO Chair
2. 09/30/16 9:18 am
Shauntae Ellis
(smetg6):
Approved for CCC Secretary
3. 09/30/16 9:41 am
Petra Dewitt
(dewittp):
Approved for Arts

This course will examine the personal style and thematic visions of 7 great directors from across film history. We will select from such artists as Altman, Bergman, Bunuel, Chaplin, Eisenstein, Fellini, Ford, Godard, Hawks, Hitchcock, Keaton, Kiarostami, Kubrick, Kurosawa, Lang, Lee, Marker, Ray, Scorsese, Tarkovsky, Tarantino, Varda, Welles, or others.

Prerequisites

Art 1185 (or instructor approval)

Field Trip

Statement

Credit Hours

LEC: 3

LAB: 0

IND: 0

RSD: 0

Total: 3

Justification for

new course:

Developing new courses for a film minor.

Semester(s)

previously taught

Edited effective date

Co-Listed

Courses:

Course Reviewer

Comments

smetg6 (09/30/16 9:18 am): Edited topic ID

Course Inventory Change Request

New Experimental Course Proposal

Date Submitted: 10/05/16 3:39 pm

Viewing: **ECON 4001.003 : Introduction to Health Economics**

File: 4340

Last edit: 10/06/16 2:34 pm

Changes proposed by: marcys

Requested	Spring 2017
Effective Change Date	
Department	Economics
Discipline	Economics (ECON)
Course Number	4001
Topic ID	003
Experimental Title	Introduction to Health Economics
Experimental Abbreviated Course Title	Intro to Health Econ
Instructors	Dr. Bonnie Bachman

Experimental Catalog Description

In Workflow

1. **RECONOMI Chair**
2. **CCC Secretary**
3. **Social Sciences DSCC Chair**
4. **Pending CCC Agenda post**
5. CCC Meeting Agenda
6. Campus Curricula Committee Chair
7. Registrar

Approval Path

1. 10/06/16 2:31 pm Gregory Gelles (gelles): Approved for RECONOMI Chair
2. 10/06/16 2:34 pm Shauntae Ellis (smetg6): Approved for CCC Secretary
3. 10/07/16 8:25 am Kristy Giacomelli (kristyg): Approved for Social Sciences DSCC Chair

Explores the health care market in the U.S. and globally by addressing economic principles, concepts and theories used in the supply and demand of health and medical services. Examines the role of insurance, government, financing and production in the health industry.

Prerequisites

ECON 1100/Principles of Microeconomics or ECON 1200/Principles of Macroeconomics.

Field Trip

Statement

n/a

Credit Hours

LEC: 3

LAB: 0

IND: 0

RSD: 0

Total: 3

Justification for

new course:

This course covers a very important and timely topic. Presently, there is considerable public debate on the justification for affordable care and other healthcare options. This course will be designed to provide students with a solid economic basis for discussing this important public topic.

Semester(s)

previously taught

Co-Listed

Courses:

Course Reviewer

Comments

smetg6 (10/05/16 3:36 pm): Rollback: Had to correct the Econ Chair

smetg6 (10/06/16 2:34 pm): added period to prerequisite box.

smetg6 (10/06/16 2:34 pm): Added Topic ID number

Course Inventory Change Request

New Experimental Course Proposal

Date Submitted: 10/05/16 3:40 pm

Viewing: **ECON 6001.001 : Health Economics**

File: 4341

Last edit: 10/06/16 2:35 pm

Changes proposed by: marcys

Requested	Spring 2017
Effective Change Date	
Department	Economics
Discipline	Economics (ECON)
Course Number	6001
Topic ID	001
Experimental Title	Health Economics
Experimental Abbreviated Course Title	Health Economics
Instructors	Dr. Bonnie Bachman

Experimental Catalog Description

In Workflow

1. **RECONOMI Chair**
2. **CCC Secretary**
3. **Social Sciences DSCC Chair**
4. **Pending CCC Agenda post**
5. CCC Meeting Agenda
6. Campus Curricula Committee Chair
7. Registrar

Approval Path

1. 10/06/16 2:31 pm
Gregory Gelles (gelles): Approved for RECONOMI Chair
2. 10/06/16 2:35 pm
Shauntae Ellis (smetg6): Approved for CCC Secretary
3. 10/07/16 8:25 am
Kristy Giacomelli (kristyg): Approved for Social Sciences DSCC Chair

Explores the health care market in the U.S. and globally by addressing economic principles, concepts and theories used in the supply and demand of health and medical services. Examines the role of insurance, government, financing and production in the health industry. Research project or written case study required.

Prerequisites

Graduate standing.

Field Trip

Statement

n/a

Credit Hours

LEC: 3

LAB: 0

IND: 0

RSD: 0

Total: 3

Justification for

new course:

This course covers a very important and timely topic. Presently, there is considerable public debate on the justification for affordable care and other healthcare options.

This course will be designed to provide students with a solid economic basis for discussing this important public topic.

Semester(s)

previously taught

Co-Listed

Courses:

Course Reviewer

Comments

smetg6 (10/05/16 3:36 pm): Rollback: Had to fix the Econ Chair within the system

smetg6 (10/06/16 2:35 pm): added period to prerequisite box

Course Inventory Change Request

New Experimental Course Proposal

Date Submitted: 09/20/16 10:29 am

Viewing: **ELEC ENG 5001.004 : Introduction to Nanotechnology: From atoms to systems-materials, devices and applications**

File: 4336

Last edit: 10/06/16 9:44 am

Changes proposed by: martins

Requested Spring 2017

Effective Change
Date

Department Electrical and Computer Engineering

Discipline Electrical Engineering (ELEC ENG)

Course Number 5001

Topic ID 004

Experimental

Title

Introduction to Nanotechnology: From atoms to systems-materials, devices and applications

Experimental Intro Nanotechnology

Abbreviated

Course Title

Instructors Dr. Ian Ferguson

Experimental

Catalog

In Workflow

1. RELECENG Chair
2. CCC Secretary
3. Engineering DSCC Chair
4. Pending CCC Agenda post
5. CCC Meeting Agenda
6. Campus Curricula Committee Chair
7. Registrar

Approval Path

1. 09/21/16 9:56 am
Daryl Beetner (daryl): Approved for RELECENG Chair
2. 09/22/16 8:47 am
Shauntae Ellis (smetg6): Approved for CCC Secretary
3. 09/30/16 9:02 am
srafer: Approved for Engineering DSCC Chair

Description

General introduction to the field of nanotechnology with some emphasis on energy devices and renewable energy applications. Review of historical development from an engineering perspective. Cover topics from fundamental properties of nanomaterials and their processing, and fabrication techniques for nano-devices and systems along with recent advances.

Prerequisites

Elec Eng 2200 or equivalent or graduate standing.

Field Trip

Statement

N/A

Credit Hours

LEC: 3

LAB: 0

IND: 0

RSD: 0

Total: 3

Justification for

new course:

Nanotechnology revolution was initiated by reduction in device size in silicon (Moore's Law) & sense that smaller could lead to increasing functionality. A similar revolution has also occurred in the development of optoelectronic devices such as LEDs and lasers enabled applications in lighting, optical communication, etc. This revolution has continue & this course will cover topics that range from the science of nanostructures to their engineering applications. This course will take a phenomenological and/or qualitative approach focusing on an understanding of the technology rather than that of a detailed understanding of the underlying quantum mechanics. Concepts discussed will be nanomaterials scale effect, process-structure-property relationships, charge transport mechanisms & the characterization of nanostructures. Advanced materials/device fabrications topics will also be considered including different materials processing methods from gas, vapor & solid phases including the scalability to nano-manufacturing techniques. Nanomaterials properties, processing methods & devices will be discussed with regards to specific applications with a particular focus on energy related applications. There is not a similar course at Missouri S&T.

Semester(s)

previously taught

None

Co-Listed

Courses:

Course Reviewer

Comments

smetg6 (10/06/16 9:44 am): Added a period to the prerequisites

Key: 4336

[Preview Bridge](#)

Course Inventory Change Request

New Experimental Course Proposal

Date Submitted: 09/26/16 9:15 am

Viewing: **ENV ENG 5001.001 : STEAM Diplomacy**

File: 4320

Last edit: 10/12/16 10:49 am

Changes proposed by: oertherd

Requested Spring 2017

Effective Change

Date

Department Civil, Architectural, and Environmental Engineering

Discipline Environmental Engineering (ENV ENG)

Course Number 5001

Topic ID 001

Experimental

Title

STEAM Diplomacy

Experimental STEAM Diplomacy

Abbreviated

Course Title

Instructors Daniel B. Oerther

Experimental

Catalog

Description

In Workflow

1. **RCIVILEN Chair**
2. **CCC Secretary**
3. **Engineering DSCC Chair**
4. **Pending CCC Agenda post**
5. CCC Meeting Agenda
6. Campus Curricula Committee Chair
7. Registrar

Approval Path

1. 09/26/16 3:31 pm
Joel Burken
(burken):
Approved for
RCIVILEN Chair
2. 09/29/16 4:05 pm
Shauntae Ellis
(smetg6):
Approved for CCC
Secretary
3. 10/12/16 10:49
am
sraper: Approved
for Engineering
DSCC Chair

Aims to excite science, technology, engineering, art (design), and math students to consider diplomatic craft and foreign policy to further professional business interests as well as to contribute to creating a more secure, democratic, and prosperous world for the benefit of the American people and the international community.

Prerequisites

Junior or Senior standing

Field Trip

Statement

None

Credit Hours

LEC: 3

LAB: 0

IND: 0

RSD: 0

Total: 3

Justification for

new course:

The Renaissance was known as an integrative period of unified knowledge where individuals such as Michelangelo seamlessly merged the fields of art and design through advances in mathematics, science, technology, and engineering. The Renaissance also witnessed the birth of diplomacy where state appointed actors conducted negotiations to keep peace, facilitate trade, and promote economics, culture, human rights, and the shared environment. In the early 21st century, environmental challenges - including climate change, water rights, environmental health, food and nutrition security, and sustainable energy - represent simultaneously the greatest threats as well as the greatest opportunities for personal, professional, and national gain. Recently, the U.S. National Research Council released, "Diplomacy for the 21st Century: Embedding a Culture of Science and Technology Throughout the Department of State." This manifesto calls for increased capacity among scientists, technologists, mathematicians, and engineers to engage in diplomatic craft and foreign policy, and it calls for professional diplomats to improve their understanding of STEM. Leveraging the recent experience of Professor Daniel Oerther as a Jefferson Science Fellow at the US Department of State, this experimental course will utilize a case study approach to illuminate the modern history of science diplomacy, the US Foreign Service, and the United Nations system by examining relevant environmental engineering projects including: the expansion of the Panama Canal; the Antarctic Treaty System, the Montreal Protocol on Ozone Depleting Substances, and the Port State Measures Agreement. The US

Science Envoys systems, the Center for Science Diplomacy of the AAAS, and the White House Office of Science and Technology Policy will be additional topics covered as part of the course. While demand for such a course exists, we currently offer no similar courses at S&T.

Semester(s)

previously taught

None

Co-Listed

Courses:

CIV ENG 5001 - Special Topics

POL SCI 4001 - Special Topics

Course Reviewer

Comments

burken (09/15/16 4:38 pm): Rollback: Jr or Senior Status. Not in Arch E. Thanks and sorry this takes too long.

smetg6 (09/29/16 4:05 pm): Updated Course Number

sraper (10/12/16 10:49 am): It should be noted that two committee members had strong reservations about this EC/Course. However, by the process rules for this committee, if I receive no comments after one week, the assumption is other committee members approve. Therefore I will approve, but will bring the expressed written comments to the CCC meeting where this is discussed so that other members are aware of the concerns.

Course Inventory Change Request

New Experimental Course Proposal

Date Submitted: 09/26/16 2:09 pm

Viewing: **HISTORY 3001.001 : History of Las Vegas, Nevada**

File: 3989

Last edit: 10/06/16 9:53 am

Changes proposed by: dewittp

Requested	Spring 2017
Effective Change Date	
Department	History and Political Science
Discipline	History (HISTORY)
Course Number	3001
Topic ID	001
Experimental Title	History of Las Vegas, Nevada
Experimental Abbreviated Course Title	History of Vegas
Instructors	Larry Gragg

Experimental Catalog Description

In Workflow

1. **RHISTORY Chair**
2. **CCC Secretary**
3. **Arts & Humanities DSCC Chair**
4. **Pending CCC Agenda post**
5. CCC Meeting Agenda
6. Campus Curricula Committee Chair
7. Registrar

Approval Path

1. 09/26/16 2:16 pm
sfogg: Approved for RHISTORY Chair
2. 09/29/16 4:06 pm
Shauntae Ellis (smetg6): Approved for CCC Secretary
3. 09/29/16 5:32 pm
Petra Dewitt (dewittp): Approved for Arts & Humanities DSCC Chair

The course will use the history of Las Vegas to explore urbanization, Americans' leisure time activities, entertainment and popular culture, compulsive gambling, government support for economic development, civic promotion, and organized crime in the twentieth century.

Prerequisites

Field Trip

Statement

Credit Hours	LEC: 3.0	LAB: 0.0	IND: 0.0	RSD: 0.0
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Total: 3.0

Justification for new course:

Department requested.

In order to be taught a second time the course requires a course number update from the old three digit to the new four digit system.

Semester(s)

previously taught

Spring 2014

Co-Listed

Courses:

Course Reviewer

Comments

smetg6 (09/29/16 4:06 pm): Updated Topic ID

smetg6 (10/06/16 9:53 am): Corrected the spelling for gambling and government in the catalog description box

Course Inventory Change Request

New Experimental Course Proposal

Date Submitted: 09/26/16 2:43 pm

Viewing: **HISTORY 3001.002 : History of Science in Latin America**

File: 4344

Last edit: 10/06/16 9:56 am

Changes proposed by: sheppardka

Requested	Spring 2017
Effective Change Date	
Department	History and Political Science
Discipline	History (HISTORY)
Course Number	3001
Topic ID	002
Experimental Title	History of Science in Latin America
Experimental Abbreviated Course Title	Hist. Lat. Am. Science
Instructors	Kathleen Sheppard

Experimental Catalog Description

In Workflow

1. **RHISTORY Chair**
2. **CCC Secretary**
3. **Arts & Humanities DSCC Chair**
4. **Pending CCC Agenda post**
5. CCC Meeting Agenda
6. Campus Curricula Committee Chair
7. Registrar

Approval Path

1. 09/26/16 2:47 pm
sfogg: Approved for RHISTORY Chair
2. 09/29/16 4:06 pm
Shauntae Ellis (smetg6):
Approved for CCC Secretary
3. 09/29/16 5:46 pm
Petra Dewitt (dewittp):
Approved for Arts & Humanities DSCC Chair

Introductory survey course in the history of science in what we now call Latin America. Throughout the semester, students will focus on the search for knowledge about the natural world, from the ancient world to present in Central and South America.

Prerequisites

HIST 1100 or HIST 1200 or HIST 1300 or HIST 1310.

Field Trip

Statement

Credit Hours	LEC: 3	LAB: 0	IND: 0	RSD: 0
Total: 3				

Justification for new course:

Experimental course as part of a new minor project: Latin American Studies with Technical Applications.

Semester(s) previously taught

None

Co-Listed Courses:

Course Reviewer

Comments

smetg6 (09/29/16 4:06 pm): Edited Topic ID

dewittp (09/29/16 5:46 pm): updated catalogue description

smetg6 (10/06/16 9:56 am): Added period to prerequisite box

Course Inventory Change Request

New Experimental Course Proposal

Date Submitted: 09/12/16 10:06 am

Viewing: **MECH ENG 5001.002 : Modeling of Energy Materials**

File: 4335

Last edit: 10/06/16 10:04 am

Changes proposed by: nisbett

Requested Spring 2017

Effective Change

Date

Department Mechanical & Aerospace Engineering

Discipline Mechanical Engineering (MECH ENG)

Course Number 5001

Topic ID 002

Experimental

Title

Modeling of Energy Materials

Experimental Modeling Energy Material

Abbreviated

Course Title

Instructors Dr. Jonghyun Park

Experimental

Catalog

Description

In Workflow

1. **RMECHENG Chair**
2. **CCC Secretary**
3. **Engineering DSCC Chair**
4. **Pending CCC Agenda post**
5. CCC Meeting Agenda
6. Campus Curricula Committee Chair
7. Registrar

Approval Path

1. 09/12/16 12:28 pm
James Drallmeier (drallmei):
Approved for RMECHENG Chair
2. 09/13/16 3:47 pm
Shauntae Ellis (smetg6):
Approved for CCC Secretary
3. 09/30/16 9:02 am
sraper: Approved for Engineering DSCC Chair

This course introduces the basic principles of energy materials by focusing on their modeling and simulations. Modeling of the key fundamental physics on those systems including transport process, structural change, and phase transition will be studied, along with different length scale simulation tools including continuum and sub-continuum approaches.

Prerequisites

Civ Eng 2210, Mech Eng 2519, or consent of instructor for majors that do not require either of these courses; or graduate standing.

Field Trip

Statement

Credit Hours

LEC: 3

LAB: 0

IND: 0

RSD: 0

Total: 3

Justification for

new course:

This is an important and developing area of study complementary to current research on campus.

Semester(s)

previously taught

None

Co-Listed

Courses:

Course Reviewer

Comments

smetg6 (09/13/16 3:47 pm): Added Topic ID #

smetg6 (10/06/16 10:04 am): Added a period to the prerequisite box.

Course Inventory Change Request

New Experimental Course Proposal

Date Submitted: 09/14/16 9:14 am

Viewing: **MUSIC 3001.001 : Wartime Music and Musicians in Europe**

File: 4334

Last edit: 09/20/16 8:31 am

Changes proposed by: lorief

Requested	Summer 2017
Effective Change Date	
Department	Arts, Languages, & Philosophy
Discipline	Music (MUSIC)
Course Number	3001
Topic ID	001
Experimental Title	Wartime Music and Musicians in Europe
Experimental Abbreviated Course Title	Wartime Music in Europe
Instructors	Lorie L. Francis

Experimental Catalog Description

In Workflow

1. **RPHILOSO Chair**
2. **CCC Secretary**
3. **Arts & Humanities DSCC Chair**
4. **Pending CCC Agenda post**
5. CCC Meeting Agenda
6. Campus Curricula Committee Chair
7. Registrar

Approval Path

1. 09/19/16 11:24 am
Audra Merfeld-Langston (audram):
Approved for RPHILOSO Chair
2. 09/20/16 8:31 am
Shauntae Ellis (smetg6):
Approved for CCC Secretary
3. 09/20/16 12:16 pm
Petra Dewitt

(dewittp):
Approved for Arts
& Humanities
DSCC Chair

Emphasizing the period of WWII, this course will explore the banned and forgotten musicians and composers of Europe. After on-campus coursework and orientation, students are required to travel to Europe to visit sites that are relevant to the music and musicians of wartime Europe.

Prerequisites

None

Field Trip

Statement

Course includes mandatory trip to Germany and Austria. Students are responsible for all associated trip costs.

Credit Hours	LEC: 3	LAB: 0	IND: 0	RSD: 0
Total: 3				

Justification for new course:

Expand music and performing arts curriculum at S&T; provide departmental experiential learning opportunities for students.

Semester(s)

previously taught

None

Co-Listed

Courses:

Course Reviewer

Comments

Course Inventory Change Request

New Experimental Course Proposal

Date Submitted: 09/30/16 12:31 pm

Viewing: **PET ENG 6001.002 : Reactive Transport Modeling**

File: 4348

Last edit: 10/03/16 8:22 am

Changes proposed by: reflori

Requested Spring 2017

Effective Change

Date

Department Geosciences and Geological and Petroleum Engineering

Discipline Petroleum Engineering (PET ENG)

Course Number 6001

Topic ID 002

Experimental

Title

Reactive Transport Modeling

Experimental Reactive Trans Modeling

Abbreviated

Course Title

Instructors Peyman Heidari

Experimental

Catalog

Description

In Workflow

1. **RGEOSENG Chair**
2. **CCC Secretary**
3. **Engineering DSCC Chair**
4. **Pending CCC Agenda post**
5. CCC Meeting Agenda
6. Campus Curricula Committee Chair
7. Registrar

Approval Path

1. 09/30/16 2:32 pm
Francisca Oboh-Ikuenobe (ikuenobe):
Approved for RGEOSENG Chair
2. 10/03/16 8:22 am
Shauntae Ellis (smetg6):
Approved for CCC Secretary
3. 10/12/16 10:53 am
srafer: Approved for Engineering DSCC Chair

Basic principles of reactive transport modeling for subsurface systems, including important reactive systems in various applications, formulation of reactive transport equations, and numerical methods used to solve them. The class will also discuss open research questions in reactive transport systems. Students will also learn CrunchFlow software.

Prerequisites

Preceded by Pet Eng 3520.

Field Trip

Statement

Credit Hours

LEC: 3

LAB: 0

IND: 0

RSD: 0

Total: 3

Justification for new course:

Understanding the interactions between flow, transport, and reaction processes is important for many applications, including, for example, geological CO₂ sequestration, water-flooding, chemical weathering, enhanced oil recovery, and environmental remediation. This course will provide the students with knowledge and skills to model experimental data and evaluate their field observations.

Semester(s)

previously taught

None, this is a new course.

Co-Listed

Courses:

Course Reviewer

Comments

smetg6 (10/03/16 8:22 am): Added Topic ID Num

Course Inventory Change Request

New Experimental Course Proposal

Date Submitted: 09/26/16 9:14 am

Viewing: **POL SCI 4001.002 : STEAM Diplomacy**

File: 4343

Last edit: 10/06/16 10:19 am

Changes proposed by: oertherd

Requested	Spring 2017
Effective Change Date	
Department	History and Political Science
Discipline	Political Science (POL SCI)
Course Number	4001
Topic ID	002
Experimental Title	STEAM Diplomacy
Experimental Abbreviated Course Title	STEAM Diplomacy
Instructors	Daniel B. Oerther

Experimental Catalog Description

In Workflow

1. **RHISTORY Chair**
2. **CCC Secretary**
3. **Arts & Humanities DSCC Chair**
4. **Pending CCC Agenda post**
5. CCC Meeting Agenda
6. Campus Curricula Committee Chair
7. Registrar

Approval Path

1. 09/26/16 9:24 am
sfogg: Approved for RHISTORY Chair
2. 09/29/16 4:08 pm
Shauntae Ellis (smetg6):
Approved for CCC Secretary
3. 09/29/16 5:51 pm
Petra Dewitt (dewittp):
Approved for Arts & Humanities DSCC Chair

Aims to excite science, technology, engineering, art (design), and math students to consider diplomatic craft and foreign policy to further professional business interests as well as to contribute to creating a more secure, democratic, and prosperous world for the benefit of the American people and the international community.

Prerequisites

Junior or Senior standing.

Field Trip

Statement

None

Credit Hours

LEC: 3

LAB: 0

IND: 0

RSD: 0

Total: 3

Justification for

new course:

The Renaissance was known as an integrative period of unified knowledge where individuals such as Michelangelo seamlessly merged the fields of art and design through advances in mathematics, science, technology, and engineering. The Renaissance also witnessed the birth of diplomacy where state appointed actors conducted negotiations to keep peace, facilitate trade, and promote economics, culture, human rights, and the shared environment. In the early 21st century, environmental challenges - including climate change, water rights, environmental health, food and nutrition security, and sustainable energy - represent simultaneously the greatest threats as well as the greatest opportunities for personal, professional, and national gain. Recently, the U.S. National Research Council released, "Diplomacy for the 21st Century: Embedding a Culture of Science and Technology Throughout the Department of State." This manifesto calls for increased capacity among scientists, technologists, mathematicians, and engineers to engage in diplomatic craft and foreign policy, and it calls for professional diplomats to improve their understanding of STEM. Leveraging the recent experience of Professor Daniel Oerther as a Jefferson Science Fellow at the US Department of State, this experimental course will utilize a case study approach to illuminate the modern history of science diplomacy, the US Foreign Service, and the United Nations system by examining relevant environmental engineering projects including: the expansion of the Panama Canal; the Antarctic Treaty System, the Montreal Protocol

on Ozone Depleting Substances, and the Port State Measures Agreement. The US Science Envoys systems, the Center for Science Diplomacy of the AAAS, and the White House Office of Science and Technology Policy will be additional topics covered as part of the course. While demand for such a course exists, we currently offer no similar courses at S&T.

Semester(s)

previously taught

None

Co-Listed

Courses:

Course Reviewer

Comments

smetg6 (09/29/16 4:08 pm): Edited Topic ID

smetg6 (10/06/16 10:19 am): Added a period to the prerequisite box.

Key: 4343

[Preview Bridge](#)

Course Inventory Change Request

New Experimental Course Proposal

Date Submitted: 10/06/16 8:19 pm

Viewing: **SPANISH 2001.001 : Contemporary Latin America**

File: 4362

Last edit: 10/07/16 9:30 am

Changes proposed by: porcelj

Requested	Spring 2017
Effective Change Date	
Department	Arts, Languages, & Philosophy
Discipline	Spanish (SPANISH)
Course Number	2001
Topic ID	001
Experimental Title	Contemporary Latin America
Experimental Abbreviated Course Title	Contemp Latin America
Instructors	Dr. Jorge Porcel

Experimental Catalog Description

In Workflow

1. **RPHILOSO Chair**
2. **CCC Secretary**
3. **Arts & Humanities DSCC Chair**
4. **Pending CCC Agenda post**
5. CCC Meeting Agenda
6. Campus Curricula Committee Chair
7. Registrar

Approval Path

1. 10/06/16 9:42 pm
Audra Merfeld-Langston
(audram):
Approved for RPHILOSO Chair
2. 10/07/16 8:16 am
Shauntae Ellis
(smetg6):
Approved for CCC Secretary
3. 10/07/16 9:30 am
Petra Dewitt
(dewittp):
Approved for Arts

This course aims to engage students in the understanding of the diverse cultures of contemporary Latin America while reflecting upon key socioeconomic, political, and intellectual trends that characterized Modern and Postmodern Latin America from the beginning of the 20th century to the present.

Prerequisites

Spanish 1180.

Field Trip

Statement

Credit Hours

LEC: 3

LAB: 0

IND: 0

RSD: 0

Total: 3

Justification for

new course:

Expanding course options in Spanish, for Spanish minor and for a new minor in Latin American Studies for Technical Applications that is under development.

Semester(s)

previously taught

Never

Co-Listed

Courses:

Course Reviewer

Comments

smetg6 (10/07/16 8:16 am): Added topic ID and a period to the prerequisite box

dewittp (10/07/16 9:30 am): Updated description language