



Campus Curricula Committee Meeting Agenda

August 15, 2018

2:00-3:30 p.m., 106 Parker Hall

(For Faculty Senate Meeting of September 13, 2018)

Review of submitted Course Change forms:

File: 879.1	BIO SCI 4333: Exercise Physiology
File: 4544	BIO SCI 4423: Introduction to Astrobiology
File: 247.1	CER ENG 3417: Characterization Of Inorganic Solids Laboratory
File: 2563.1	CER ENG 3517: The Engineering Design Process
File: 457.1	CER ENG 6040: Oral Examination
File: 2477.1	CHEM 1351: Accelerated General Chemistry
File: 1338.1	CHEM 6310: Principles Of Inorganic Chemistry
File: 130.1	CHEM 6311: Principles Of Inorganic Chemistry
File: 1105.1	CHEM 6421: Quantum Chemistry II
File: 2080.1	CHEM 6710: Advanced Nuclear Chemistry
File: 2426.1	CHEM 6830: Inorganic Polymers
File: 482.1	CHEM ENG 5096: Industrial Chemical Processes
File: 1414.1	CHEM ENG 5097: Intermediate Process Design
File: 1305.1	CHEM ENG 5160: Introduction to Molecular Modeling and Simulation
File: 1023.1	CHEM ENG 5180: Industrial Pollution Control
File: 4253.3	CHEM ENG 5230: Bioprocess Safety
File: 1382.1	CHEM ENG 5360: Pollution Prevention Via Process Engineering
File: 415.1	CHEM ENG 5370: Intermediate Process Dynamics And Control
File: 696.1	CHEM ENG 5380: Intermediate Separation Processes
File: 442.1	CHEM ENG 6130: Advanced Chemical Reactor Design
File: 2031.1	CHEM ENG 6160: Advanced Chemical Process Design
File: 376.1	CHEM ENG 6170: Advanced Fluid Flow
File: 1122.1	CHEM ENG 6320: Plasma Polymerization
File: 2314.1	CHEM ENG 6340: Philosophy of Scientific Research
File: 169.1	COMP ENG 6880: Advanced Topics in Robotics
File: 2551.1	ELEC ENG 6690: Topics in EMC and High Speed Digital Design
File: 168.1	ELEC ENG 6880: Advanced Topics in Robotics
File: 2297.1	ENG MGT 5314: Computer Integrated Manufacturing Systems
File: 628.1	ENG MGT 5413: Introduction To Intelligent Systems
File: 1275.1	ENG MGT 6311: Advanced Manufacturing Systems Integration
File: 1460.1	HISTORY 2210: European Diplomatic History 1814 – Present
File: 810.1	HISTORY 3120: Ancient Greece
File: 1377.3	HISTORY 3450: American Intellectual History II



File: 1585.1	MATH 3103: Matrix Algebra
File: 2602.1	MATH 3329: Elementary Differential Equations And Matrix Algebra
File: 1924.1	MATH 3940: Mathematical Software Applications In The Classroom
File: 1097.1	MATH 6425: Hilbert Space Structures And Methods For Application
File: 790.1	MATH 6426: Green'S Function Structures And Methods For Application
File: 78.1	MATH 6435: Calculus Of Variations I
File: 2075.1	MATH 6436: Calculus Of Variations II
File: 1820.1	MET ENG 6040: Oral Examination
File: 2589.1	MS&E 6040: Oral Examination
File: 704.1	PHYS ED 1500: Administration Of Interscholastic Athletics
File: 1512.1	PHYS ED 2300: Methods In Physical Education K-4
File: 1115.1	STAT 1116: Statistics For The Social Sciences II
File: 364.1	STAT 5120: Statistical Methods

Review of submitted Degree Change forms:

File: 141.18	AE ENG-BS: Aerospace Engineering BS
File: 23.2	COGNEUR-MI: Cognitive Neuroscience Minor
File: 72.3	I/O PSY-MI: Indus/Organization Psych Minor
File: 124.3	PSY LEA-MI: Psychol of Leadership - Minor

Review of submitted Experimental Course forms:

File: 4543	MATH 6001.003: Mathematical Foundation of Finite Element Methods II
File: 4549	PET ENG 4001.004: Drilling Automation

Discussion from the Campus Curricula Committee to implement the AY 2018-2019 Curricula meeting dates and submission deadlines.

Course Change Request

A deleted record cannot be edited

Course Deactivation Proposal

Date Submitted: 06/07/18 1:43 pm

Viewing: **BIO SCI 4333 : Exercise Physiology**

File: 879.1

Last edit: 06/12/18 10:17 am

Changes proposed by: tibbettsmg

Requested	Fall 2018 08/01/2014
Effective Change Date	
Department	Biological Sciences
Discipline	Biological Sciences (BIO SCI)
Course Number	4333
Title	Exercise Physiology
Abbreviated Course Title	Exercise Physiology

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. CAT entry
11. Peoplesoft

Catalog

Description

Covers cardiovascular, pulmonary, and metabolic responses to aerobic and anaerobic muscular activities, work capacities, nutritional factors in performance, and role of exercise in health.

Prerequisites

Bio Sci 1113 or Bio Sci 1213.

Field Trip

Statement

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

Elective for Majors No

Justification for change:

Elimination of courses not taught in 10 or more years per Registrar.

Semesters previously

Approval Path

1. 06/08/18 8:20 am
David Duvernell (duverneld):
Approved for RBIOLSCI Chair
2. 06/08/18 1:44 pm
Brittany Parnell (ershenb):
Approved for CCC Secretary
3. 06/11/18 10:22 am
Katie Shannon (shannonk):
Approved for Sciences DSCC Chair
4. 07/06/18 11:16 am
Brittany Parnell

offered as an
experimental
course

(ershenb):
Approved for
Pending CCC
Agenda post

Co-Listed
Courses:

Course Reviewer
Comments

Key: 879

[Preview Bridge](#)

Course Change Request

New Course Proposal

Date Submitted: 05/02/18 2:58 pm

Viewing: **BIO SCI 4423 : Introduction to Astrobiology**

File: 4544

Last edit: 06/11/18 10:18 am

Changes proposed by: shannonk

Requested	Spring 2019
Effective Change Date	
Department	Biological Sciences
Discipline	Biological Sciences (BIO SCI)
Course Number	4423
Title	Introduction to Astrobiology
Abbreviated Course Title	Intro Astrobio

Catalog Description

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. CAT entry
11. Peoplesoft

Approval Path

1. 05/02/18 4:02 pm
David Duvernell (duvernelld):
Approved for
RBIOLSCI Chair
2. 05/03/18 11:07 am
Brittany Parnell (ershenb):

- Approved for CCC Secretary
- 3. 06/11/18 10:18 am
Katie Shannon (shannonk):
Approved for Sciences DSCC Chair
- 4. 07/06/18 11:16 am
Brittany Parnell (ershenb):
Approved for Pending CCC Agenda post

An overview of the origins of life on early earth and the possibility of life on extraterrestrial bodies will be examined in this course through lectures and journal articles. The techniques that astrobiologists use to investigate the possibility of life beyond earth will be explored. Assessment will be based on exam performance and participation in class.

Prerequisites

BIO SCI 2213 or 3313.

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 is the undergraduate section of the previously approved graduate course BIO
SCI 6423. It has been taught twice as 3001

Semesters
previously
offered as an
experimental
course

taught officially as a 3001 course in 2015 (18 students) and 2012. In addition,
undergraduate students also signed up for it in 2007, 2009, and 2011 as a 300 course

Spring 2015 enrollment - 18

Spring 2012 enrollment - 7

Co-Listed

Courses:

Course Reviewer

Comments

Key: 4544

[Preview Bridge](#)

Course Change Request

A deleted record cannot be edited

Course Deactivation Proposal

Date Submitted: 06/06/18 4:06 pm

Viewing: **CER ENG 3417 : Characterization Of Inorganic Solids Laboratory**

File: 247.1

Last edit: 06/12/18 10:18 am

Changes proposed by: tibbettsmg

Other Courses
referencing this
course

In The Catalog Description:

[CER ENG 5115 : X-Ray Diffraction Analysis](#)

Requested **Fall 2018** ~~08/01/2014~~

Effective Change
Date

Department Materials Science & Engineering

Discipline Ceramic Engineering (CER ENG)

Course Number 3417

Title
Characterization Of Inorganic Solids Laboratory

Abbreviated Char Of Inorg Solids Lab

Course Title

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. CAT entry
11. Peoplesoft

Approval Path

1. 06/06/18 4:42 pm
Greg Hilmas
(ghilmas):
Approved for
RMATSENG Chair
2. 06/07/18 9:01 am
Brittany Parnell
(ershenb):

Approved for CCC
Secretary

3. 06/12/18 10:00
am

Stephen Raper
(sraper):

Approved for
Engineering DSCC
Chair

4. 07/06/18 11:16
am

Brittany Parnell
(ershenb):

Approved for
Pending CCC
Agenda post

Practical aspects of x-ray diffraction analysis will be emphasized; students will gain hands-on experience in qualitative and quantitative analysis techniques, use of electronic databases, and operation of modern powder diffractometers.

Prerequisites

Preceded or accompanied by Cer Eng 3410.

Field Trip

Statement

Credit Hours	LEC: 0	LAB: 1	IND: 0	RSD: 0	Total: 1
Required for Majors	No				
Elective for Majors	No				

Justification for change:

Elimination of courses that have not been taught for 10 or more years per Registrar.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 247

[Preview Bridge](#)

Course Change Request

A deleted record cannot be edited

Course Deactivation Proposal

Date Submitted: 06/06/18 4:06 pm

Viewing: **CER ENG 3517 : The Engineering Design Process**

File: 2563.1

Last edit: 06/12/18 10:18 am

Changes proposed by: tibbettsmg

Requested **Fall 2018** ~~08/01/2014~~

Effective Change

Date

Department Materials Science & Engineering

Discipline Ceramic Engineering (CER ENG)

Course Number 3517

Title

The Engineering Design Process

Abbreviated Engineering Desgn Proces

Course Title

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. CAT entry
11. Peoplesoft

Approval Path

1. 06/06/18 4:42 pm
Greg Hilmas (ghilmas):
Approved for
RMATSENG Chair
2. 06/07/18 9:01 am
Brittany Parnell (ershenb):

Approved for CCC
Secretary

3. 06/12/18 10:00
am

Stephen Raper
(sraper):

Approved for
Engineering DSCC
Chair

4. 07/06/18 11:16
am

Brittany Parnell
(ershenb):

Approved for
Pending CCC
Agenda post

Introduction to elements of design process including strategic, planning, project, management, modelling, materials selection, engineering economics, safety, environmental issues and ethics.

Prerequisites

Junior standing.

Field Trip

Statement

Credit Hours	LEC: 2	LAB: 0	IND: 0	RSD: 0	Total: 2
Required for Majors	No				
Elective for Majors	No				

Justification for change:

Elimination of courses that have not been taught for 10 or more years per Registrar.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 2563

[Preview Bridge](#)

Course Change Request

A deleted record cannot be edited

Course Deactivation Proposal

Date Submitted: 06/06/18 4:07 pm

Viewing: **CER ENG 6040 : Oral Examination**

File: 457.1

Last edit: 06/12/18 10:18 am

Changes proposed by: tibbettsmg

Requested	Fall 2018 08/01/2014
Effective Change Date	
Department	Materials Science & Engineering
Discipline	Ceramic Engineering (CER ENG)
Course Number	6040
Title	Oral Examination
Abbreviated Course Title	Oral Examination

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. CAT entry
11. Peoplesoft

Approval Path

1. 06/06/18 4:42 pm
Greg Hilmas (ghilmas):
Approved for
RMATSENG Chair
2. 06/07/18 9:01 am
Brittany Parnell (ershenb):

Approved for CCC
Secretary

3. 06/12/18 10:00
am

Stephen Raper
(sraper):

Approved for
Engineering DSCC
Chair

4. 07/06/18 11:16
am

Brittany Parnell
(ershenb):

Approved for
Pending CCC
Agenda post

After completion of all other program requirements, oral examinations for on-campus M.S./Ph.D. students may be processed during intersession. Off-campus M.S. students must be enrolled in oral examination and must have paid an oral examination fee at the time of the defense/comprehensive examination (oral/written). All other students must enroll for credit commensurate with uses made of facilities and/or faculties. In no case shall this be for less than three (3) semester hours for resident students.

Prerequisites

Field Trip

Statement

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

Justification for
change:

Elimination of courses that have not been taught for 10 or more years per Registrar.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 457

[Preview Bridge](#)

Course Change Request

A deleted record cannot be edited

Course Deactivation Proposal

Date Submitted: 06/06/18 3:04 pm

Viewing: **CHEM 1351 : Accelerated General Chemistry**

File: 2477.1

Last edit: 06/12/18 10:18 am

Changes proposed by: tibbettsmg

Programs
referencing this
course

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

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

Requested **Fall 2018** ~~08/01/2014~~
Effective Change
Date

Department Chemistry
Discipline Chemistry (CHEM)
Course Number 1351
Title Accelerated General Chemistry
Abbreviated Accelerated Gen Chem
Course Title

Catalog
Description

In Workflow

1. **RCHEMIST 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. CAT entry
11. Peoplesoft

Approval Path

1. 06/07/18 3:20 pm Philip Whitefield (pwhite):
Approved for RICHEMIST Chair
2. 06/08/18 8:12 am Brittany Parnell (ershenb):

Approved for CCC
Secretary

3. 06/11/18 10:22
am

Katie Shannon
(shannonk):
Approved for
Sciences DSCC
Chair

4. 07/06/18 11:16
am

Brittany Parnell
(ershenb):
Approved for
Pending CCC
Agenda post

An accelerated version of Chem 1310, Chem 1319, and Chem 1320. Four lectures and three laboratory hours per week. Students who do not meet these entrance requirements must take Chem 1310, 1319, & 1320.

Prerequisites

Preceded or accompanied by Chem 1100 or an equivalent training program approved by S&T. A minimum score of 60 for the sum of the MMPT and the ACT N. SCI. test scores with neither score below 27.

Field Trip

Statement

Credit Hours	LEC: 3	LAB: 1	IND: 0	RSD: 1	Total: 5
Required for Majors	No				
Elective for Majors	No				

Justification for
change:

Elimination of courses that have not been taught for 10 or more years per Registrar

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 2477

[Preview Bridge](#)

Course Change Request

A deleted record cannot be edited

Course Deactivation Proposal

Date Submitted: 06/06/18 3:28 pm

Viewing: **CHEM 6310 : Principles Of Inorganic Chemistry**

File: 1338.1

Last edit: 06/12/18 10:19 am

Changes proposed by: tibbettsmg

Requested **Fall 2018** ~~08/01/2014~~

Effective Change

Date

Department Chemistry

Discipline Chemistry (CHEM)

Course Number 6310

Title

Principles Of Inorganic Chemistry

Abbreviated Prin/Inorganic Chemistry

Course Title

Catalog

Description

In Workflow

1. **RCHEMIST 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. CAT entry
11. Peoplesoft

Approval Path

1. 06/07/18 3:20 pm
Philip Whitefield (pwhite):
Approved for RICHEMIST Chair
2. 06/08/18 1:44 pm
Brittany Parnell (ershenb):

Approved for CCC
Secretary

3. 06/11/18 10:22
am

Katie Shannon
(shannonk):
Approved for
Sciences DSCC
Chair

4. 07/06/18 11:16
am

Brittany Parnell
(ershenb):
Approved for
Pending CCC
Agenda post

A systematic study of modern and theoretical inorganic chemistry, based on the periodic classification.

Prerequisites

Chem 2310, Chem 4310 and Chem 3420.

Field Trip

Statement

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

Justification for change:

Elimination of courses that have not been taught for 10 or more years per Registrar.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 1338

[Preview Bridge](#)

Course Change Request

A deleted record cannot be edited

Course Deactivation Proposal

Date Submitted: 06/06/18 3:28 pm

Viewing: **CHEM 6311 : Principles Of Inorganic Chemistry**

File: 130.1

Last edit: 06/12/18 10:19 am

Changes proposed by: tibbettsmg

Requested **Fall 2018** ~~08/01/2014~~

Effective Change

Date

Department Chemistry

Discipline Chemistry (CHEM)

Course Number 6311

Title

Principles Of Inorganic Chemistry

Abbreviated Prin/Inorganic Chemistry

Course Title

Catalog

Description

In Workflow

1. **RCHEMIST 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. CAT entry
11. Peoplesoft

Approval Path

1. 06/07/18 3:20 pm
Philip Whitefield (pwhite):
Approved for RICHEMIST Chair
2. 06/08/18 1:44 pm
Brittany Parnell (ershenb):

Approved for CCC
Secretary

3. 06/11/18 10:22
am

Katie Shannon
(shannonk):
Approved for
Sciences DSCC
Chair

4. 07/06/18 11:16
am

Brittany Parnell
(ershenb):
Approved for
Pending CCC
Agenda post

A continuation of Chem 6310 with special emphasis on the transitional elements.

Prerequisites

Chem 2310, Chem 4310 and Chem 6310.

Field Trip

Statement

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

Justification for change:

Elimination of courses that have not been taught for 10 or more years per Registrar.

Semesters previously

offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 130

[Preview Bridge](#)

Course Change Request

A deleted record cannot be edited

Course Deactivation Proposal

Date Submitted: 06/06/18 3:28 pm

Viewing: **CHEM 6421 : Quantum Chemistry II**

File: 1105.1

Last edit: 06/12/18 10:20 am

Changes proposed by: tibbettsmg

Requested **Fall 2018** ~~08/01/2014~~

Effective Change

Date

Department Chemistry

Discipline Chemistry (CHEM)

Course Number 6421

Title

Quantum Chemistry II

Abbreviated Quantum Chemistry II

Course Title

Catalog

Description

In Workflow

1. **RCHEMIST 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. CAT entry
11. Peoplesoft

Approval Path

1. 06/07/18 3:20 pm
Philip Whitefield
(pwhite):
Approved for
RCHEMIST Chair
2. 06/08/18 1:45 pm
Brittany Parnell
(ershenb):

Approved for CCC
Secretary

3. 06/11/18 10:22
am

Katie Shannon
(shannonk):
Approved for
Sciences DSCC
Chair

4. 07/06/18 11:17
am

Brittany Parnell
(ershenb):
Approved for
Pending CCC
Agenda post

Atomic and molecular quantum mechanics. Emphasis on selfconsistent field, variational, and perturbation theories. Introduction to approximate methods.

Prerequisites

Chem 3420 or equivalent.

Field Trip

Statement

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

Justification for
change:

Elimination of courses that have not been taught for 10 or more years per Registrar.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 1105

[Preview Bridge](#)

Course Change Request

A deleted record cannot be edited

Course Deactivation Proposal

Date Submitted: 06/06/18 3:29 pm

Viewing: **CHEM 6710 : Advanced Nuclear Chemistry**

File: 2080.1

Last edit: 06/12/18 10:40 am

Changes proposed by: tibbettsmg

Requested **Fall 2018** ~~08/01/2014~~

Effective Change

Date

Department Chemistry

Discipline Chemistry (CHEM)

Course Number 6710

Title

Advanced Nuclear Chemistry

Abbreviated Adv Nuclear Chemistry

Course Title

Catalog

Description

In Workflow

1. **RCHEMIST 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. CAT entry
11. Peoplesoft

Approval Path

1. 06/07/18 3:20 pm
Philip Whitefield (pwhite):
Approved for RICHEMIST Chair
2. 06/08/18 1:45 pm
Brittany Parnell (ershenb):

Approved for CCC
Secretary

3. 06/11/18 10:23
am

Katie Shannon
(shannonk):
Approved for
Sciences DSCC
Chair

4. 07/06/18 11:17
am

Brittany Parnell
(ershenb):
Approved for
Pending CCC
Agenda post

A study of the production and decay of nuclei, radioactive dating techniques, and the abundance and origin of the chemical elements.

Prerequisites

Chem 371, Physics 2305 or 2311.

Field Trip

Statement

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

Justification for change:

Elimination of courses that have not been taught for 10 or more years per Registrar.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 2080

[Preview Bridge](#)

Course Change Request

A deleted record cannot be edited

Course Deactivation Proposal

Date Submitted: 06/06/18 3:29 pm

Viewing: **CHEM 6830 : Inorganic Polymers**

File: 2426.1

Last edit: 06/12/18 10:41 am

Changes proposed by: tibbettsmg

Requested **Fall 2018** ~~08/01/2014~~

Effective Change

Date

Department Chemistry

Discipline Chemistry (CHEM)

Course Number 6830

Title

Inorganic Polymers

Abbreviated Inorganic Polymers

Course Title

Catalog

Description

In Workflow

1. **RCHEMIST 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. CAT entry
11. Peoplesoft

Approval Path

1. 06/07/18 3:20 pm
Philip Whitefield
(pwhite):
Approved for
RCHEMIST Chair
2. 06/08/18 1:45 pm
Brittany Parnell
(ershenb):

Approved for CCC
Secretary

3. 06/11/18 10:23
am

Katie Shannon
(shannonk):
Approved for
Sciences DSCC
Chair

4. 07/06/18 11:17
am

Brittany Parnell
(ershenb):
Approved for
Pending CCC
Agenda post

A basic study of inorganic natural and synthetic polymers, their formation and reactivity, their inherent properties, methods of characterization and applications.

Prerequisites

Chem 2310 or equivalent.

Field Trip

Statement

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

Justification for change:

Elimination of courses that have not been taught for 10 or more years per Registrar.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 2426

[Preview Bridge](#)

Course Change Request

A deleted record cannot be edited

Course Deactivation Proposal

Date Submitted: 06/07/18 1:49 pm

Viewing: **CHEM ENG 5096 : Industrial Chemical Processes**

File: 482.1

Last edit: 06/12/18 10:41 am

Changes proposed by: tibbettsmg

Other Courses
referencing this
course

In The Catalog Description:

[CHEM 5250 : Industrial Chemical Processes](#)

Requested **Fall 2018** ~~08/01/2014~~
Effective Change
Date

Department Chemical and Biochemical Engineering

Discipline Chemical Engineering (CHEM ENG)

Course Number 5096

Title
Industrial Chemical Processes

Abbreviated Industrial Chem Process
Course Title

Catalog
Description

In Workflow

1. **RCHEMENG 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. CAT entry
11. Peoplesoft

Approval Path

1. 06/07/18 3:02 pm
Muthanna Al-Dahhan
(aldahhanm):
Approved for
RCHEMENG Chair
2. 06/08/18 1:45 pm
Brittany Parnell
(ershenb):

Approved for CCC
Secretary

3. 06/12/18 10:00
am

Stephen Raper
(sraper):

Approved for
Engineering DSCC
Chair

4. 07/06/18 11:17
am

Brittany Parnell
(ershenb):

Approved for
Pending CCC
Agenda post

Detailed study of various industrial chemical manufacturing processes including underlying chemistry, reaction pathways and separation processes.

Prerequisites

Chem Eng 3130 or Chem 2210, 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	No				

Justification for change:

Elimination of courses not taught in 10 or more years per Registrar.

Semesters
previously
offered as an
experimental
course

Co-Listed

Courses:

CHEM 5250 - Industrial Chemical Processes

Course Reviewer

Comments

Key: 482

[Preview Bridge](#)

Course Change Request

A deleted record cannot be edited

Course Deactivation Proposal

Date Submitted: 06/07/18 1:49 pm

Viewing: **CHEM ENG 5097 : Intermediate Process**

Design

File: 1414.1

Last edit: 06/12/18 10:41 am

Changes proposed by: tibbettsmg

Requested **Fall 2018** ~~08/01/2014~~

Effective Change

Date

Department Chemical and Biochemical Engineering

Discipline Chemical Engineering (CHEM ENG)

Course Number 5097

Title

Intermediate Process Design

Abbreviated Intermediate Process Dsg

Course Title

Catalog

Description

In Workflow

1. **RCHEMENG 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. CAT entry
11. Peoplesoft

Approval Path

1. 06/07/18 3:25 pm
Muthanna Al-Dahhan
(aldahhanm):
Approved for
RCHEMENG Chair
2. 06/08/18 1:45 pm
Brittany Parnell
(ershenb):

Approved for CCC
Secretary

3. 06/12/18 10:00
am

Stephen Raper
(sraper):

Approved for
Engineering DSCC
Chair

4. 07/06/18 11:17
am

Brittany Parnell
(ershenb):

Approved for
Pending CCC
Agenda post

Study of newer unit operations, fluidization, chromatographic absorption, new developments in operations previously studied. Comparison of operations which might be selected for the same end result in an industrial process.

Prerequisites

Chem Eng 3130 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	No				

Justification for
change:

Elimination of courses not taught in 10 or more years per Registrar.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 1414

[Preview Bridge](#)

Course Change Request

A deleted record cannot be edited

Course Deactivation Proposal

Date Submitted: 06/07/18 1:49 pm

Viewing: **CHEM ENG 5160 : Introduction to Molecular Modeling and Simulation**

File: 1305.1

Last edit: 06/12/18 10:41 am

Changes proposed by: tibbettsmg

Requested **Fall 2018** ~~08/01/2014~~

Effective Change

Date

Department Chemical and Biochemical Engineering

Discipline Chemical Engineering (CHEM ENG)

Course Number 5160

Title

Introduction to Molecular Modeling and Simulation

Abbreviated Intro Molecular Modeling

Course Title

Catalog

Description

In Workflow

1. **RCHEMENG 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. CAT entry
11. Peoplesoft

Approval Path

1. 06/07/18 3:25 pm
Muthanna Al-Dahhan
(aldahhanm):
Approved for
RCHEMENG Chair
2. 06/08/18 1:45 pm
Brittany Parnell
(ershenb):

Approved for CCC
Secretary

3. 06/12/18 10:00
am

Stephen Raper
(sraper):

Approved for
Engineering DSCC
Chair

4. 07/06/18 11:17
am

Brittany Parnell
(ershenb):

Approved for
Pending CCC
Agenda post

An introduction to the concepts of molecular-based modeling and simulations, their connections to other engineering approaches and their role in multiscale modeling. Major methodologies such as molecular dynamics and lattice and off-lattice Monte Carlo, and special case studies are discussed.

Prerequisites

Chem Eng 3160.

Field Trip

Statement

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

Justification for
change:

Elimination of courses not taught in 10 or more years per Registrar.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 1305

[Preview Bridge](#)

Course Change Request

A deleted record cannot be edited

Course Deactivation Proposal

Date Submitted: 06/07/18 1:49 pm

Viewing: **CHEM ENG 5180 : Industrial Pollution Control**

File: 1023.1

Last edit: 06/12/18 10:42 am

Changes proposed by: tibbettsmg

Requested **Fall 2018** ~~08/01/2014~~

Effective Change

Date

Department Chemical and Biochemical Engineering

Discipline Chemical Engineering (CHEM ENG)

Course Number 5180

Title

Industrial Pollution Control

Abbreviated Ind Pollution Control

Course Title

Catalog

Description

In Workflow

1. **RCHEMENG 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. CAT entry
11. Peoplesoft

Approval Path

1. 06/07/18 3:25 pm
Muthanna Al-Dahhan
(aldahhanm):
Approved for
RCHEMENG Chair
2. 06/08/18 1:45 pm
Brittany Parnell
(ershenb):

Approved for CCC
Secretary

3. 06/12/18 10:00
am

Stephen Raper
(sraper):

Approved for
Engineering DSCC
Chair

4. 07/06/18 11:17
am

Brittany Parnell
(ershenb):

Approved for
Pending CCC
Agenda post

The study of water, air, and thermal pollution control methods and the application of these methods to the solution of pollution problems in the chemical industry.

Prerequisites

Chem Eng 3130 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	No				

Justification for change:

Elimination of courses not taught in 10 or more years per Registrar.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 1023

[Preview Bridge](#)

Course Change Request

A deleted record cannot be edited

Course Deactivation Proposal

Date Submitted: 06/07/18 1:52 pm

Viewing: **CHEM ENG 5230 : Bioprocess Safety**

File: 4253.3

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

Last edit: 06/12/18 10:42 am

Changes proposed by: tibbettsmg

Requested Fall **2018** ~~2016~~

Effective Change

Date

Department Chemical and Biochemical Engineering

Discipline Chemical Engineering (CHEM ENG)

Course Number 5230

Title

Bioprocess Safety

Abbreviated Bioprocess Safety

Course Title

Catalog

Description

In Workflow

1. **RCHEMENG 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. CAT entry
11. Peoplesoft

Approval Path

1. 06/07/18 3:26 pm
Muthanna Al-Dahhan
(aldahhanm):
Approved for
RCHEMENG Chair
2. 06/08/18 1:45 pm
Brittany Parnell
(ershenb):

- Approved for CCC Secretary
- 3. 06/12/18 10:00 am
Stephen Raper (sraper):
Approved for Engineering DSCC Chair
- 4. 07/06/18 11:17 am
Brittany Parnell (ershenb):
Approved for Pending CCC Agenda post

History

- 1. May 24, 2016 by marlene

This course covers a risk assessment, biohazard containment and inactivation practices, and other biosafety issues relevant to industrial bioprocessing. Considerations relating to the release of genetically modified organisms are also discussed.

Prerequisites

Graduate standing.

Field Trip

Statement

Credit Hours	LEC: 1	LAB: 0	IND: 0	RSD: 0	Total: 1
Required for Majors	No				

Elective for No
Majors

Justification for
change:

Elimination of courses not taught in 10 or more years per Registrar.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 4253

[Preview Bridge](#)

Course Change Request

A deleted record cannot be edited

Course Deactivation Proposal

Date Submitted: 06/07/18 1:50 pm

Viewing: **CHEM ENG 5360 : Pollution Prevention
Via Process Engineering**

File: 1382.1

Last edit: 06/12/18 10:42 am

Changes proposed by: tibbettsmg

Requested **Fall 2018** ~~08/01/2014~~

Effective Change

Date

Department Chemical and Biochemical Engineering

Discipline Chemical Engineering (CHEM ENG)

Course Number 5360

Title

Pollution Prevention Via Process Engineering

Abbreviated Pollut Prev Via Proc Eng

Course Title

Catalog

Description

In Workflow

1. **RCHEMENG 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. CAT entry
11. Peoplesoft

Approval Path

1. 06/07/18 3:26 pm
Muthanna Al-
Dahhan
(aldahhanm):
Approved for
RCHEMENG Chair
2. 06/08/18 1:46 pm
Brittany Parnell
(ershenb):

Approved for CCC
Secretary

3. 06/12/18 10:00
am

Stephen Raper
(sraper):

Approved for
Engineering DSCC
Chair

4. 07/06/18 11:17
am

Brittany Parnell
(ershenb):

Approved for
Pending CCC
Agenda post

To arrive at environmentally benign process design, each processing system will be considered as an inter-connection of elementary units. Systematic methods capitalizing on synergistic process integrations will be employed. Linear, nonlinear and integer optimization, mass/heat exchange networks, and reactor and reaction networks will be used.

Prerequisites

Chem Eng 3130 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	No				

Justification for
change:

Elimination of courses not taught in 10 or more years per Registrar.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 1382

[Preview Bridge](#)

Course Change Request

A deleted record cannot be edited

Course Deactivation Proposal

Date Submitted: 06/07/18 1:50 pm

Viewing: **CHEM ENG 5370 : Intermediate Process Dynamics And Control**

File: 415.1

Last edit: 06/12/18 10:11 am

Changes proposed by: tibbettsmg

Programs
referencing this
course

[AUTOENG-MI: Minor in Automation Engineering](#)

Requested **Fall 2018** ~~08/01/2014~~

Effective Change
Date

Department Chemical and Biochemical Engineering

Discipline Chemical Engineering (CHEM ENG)

Course Number 5370

Title
Intermediate Process Dynamics And Control

Abbreviated Int Process Control
Course Title

Catalog
Description

In Workflow

1. **RCHEMENG 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. CAT entry
11. Peoplesoft

Approval Path

1. 06/07/18 3:26 pm
Muthanna Al-Dahhan
(aldahhanm):
Approved for
RCHEMENG Chair
2. 06/08/18 1:46 pm
Brittany Parnell
(ershenb):

- Approved for CCC Secretary
3. 06/12/18 9:59 am
Stephen Raper (sraper): Rollback to CCC Secretary for Engineering DSCC Chair
4. 06/12/18 10:11 am
Brittany Parnell (ershenb): Approved for CCC Secretary
5. 06/12/18 10:15 am
Stephen Raper (sraper): Approved for Engineering DSCC Chair
6. 07/06/18 11:17 am
Brittany Parnell (ershenb): Approved for Pending CCC Agenda post

A study of the dynamic properties of engineering operations and the interrelationships which result when these operations are combined into processes. Formulation of equations to describe open-loop and closed-loop systems.

Prerequisites

Chem Eng 3130 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	No				

Justification for
change:

Elimination of courses not taught in 10 or more years per Registrar.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

sraper (06/12/18 9:59 am): Rollback: This course is a part of an undergraduate certificate with EE.

Key: 415

[Preview Bridge](#)

Course Change Request

A deleted record cannot be edited

Course Deactivation Proposal

Date Submitted: 06/07/18 1:50 pm

Viewing: **CHEM ENG 5380 : Intermediate Separation Processes**

File: 696.1

Last edit: 06/12/18 10:42 am

Changes proposed by: tibbettsmg

Requested **Fall 2018** ~~08/01/2014~~

Effective Change

Date

Department Chemical and Biochemical Engineering

Discipline Chemical Engineering (CHEM ENG)

Course Number 5380

Title

Intermediate Separation Processes

Abbreviated Int Separation Processes

Course Title

Catalog

Description

In Workflow

1. **RCHEMENG 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. CAT entry
11. Peoplesoft

Approval Path

1. 06/07/18 3:27 pm
Muthanna Al-Dahhan
(aldahhanm):
Approved for
RCHEMENG Chair
2. 06/08/18 1:46 pm
Brittany Parnell
(ershenb):

Approved for CCC
Secretary

3. 06/12/18 10:00
am

Stephen Raper
(sraper):

Approved for
Engineering DSCC
Chair

4. 07/06/18 11:17
am

Brittany Parnell
(ershenb):

Approved for
Pending CCC
Agenda post

Fundamentals of separation operations such as extraction and distillation; rates of diffusion in equilibrium stages and continuous contactors; efficiencies; multistage contactors; performance of equipment; phase equilibrium data; multicomponent separation.

Prerequisites

Chem Eng 3130 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	No				

Justification for
change:

Elimination of courses not taught in 10 or more years per Registrar.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 696

[Preview Bridge](#)

Course Change Request

A deleted record cannot be edited

Course Deactivation Proposal

Date Submitted: 06/07/18 1:50 pm

Viewing: **CHEM ENG 6130 : Advanced Chemical Reactor Design**

File: 442.1

Last edit: 06/12/18 10:42 am

Changes proposed by: tibbettsmg

Requested **Fall 2018** ~~08/01/2014~~

Effective Change

Date

Department Chemical and Biochemical Engineering

Discipline Chemical Engineering (CHEM ENG)

Course Number 6130

Title

Advanced Chemical Reactor Design

Abbreviated Adv Chemical Reactor Dsg

Course Title

Catalog

Description

In Workflow

1. **RCHEMENG 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. CAT entry
11. Peoplesoft

Approval Path

1. 06/07/18 3:27 pm
Muthanna Al-Dahhan
(aldahhanm):
Approved for
RCHEMENG Chair
2. 06/08/18 1:46 pm
Brittany Parnell
(ershenb):

Approved for CCC
Secretary

3. 06/12/18 10:00
am

Stephen Raper
(sraper):

Approved for
Engineering DSCC
Chair

4. 07/06/18 11:17
am

Brittany Parnell
(ershenb):

Approved for
Pending CCC
Agenda post

A study of homogeneous and heterogeneous reaction kinetics and catalysis with special emphasis on effects of mixing in design and scale-up of chemical reactors.

Prerequisites

Field Trip

Statement

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

Justification for change:

Elimination of courses not taught in 10 or more years per Registrar.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 442

[Preview Bridge](#)

Course Change Request

A deleted record cannot be edited

Course Deactivation Proposal

Date Submitted: 06/07/18 1:51 pm

Viewing: **CHEM ENG 6160 : Advanced Chemical Process Design**

File: 2031.1

Last edit: 06/12/18 10:44 am

Changes proposed by: tibbettsmg

Requested **Fall 2018** ~~08/01/2014~~

Effective Change

Date

Department Chemical and Biochemical Engineering

Discipline Chemical Engineering (CHEM ENG)

Course Number 6160

Title

Advanced Chemical Process Design

Abbreviated Adv Chemical Proc Dsgn

Course Title

Catalog

Description

In Workflow

1. **RCHEMENG 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. CAT entry
11. Peoplesoft

Approval Path

1. 06/07/18 3:27 pm
Muthanna Al-Dahhan
(aldahhanm):
Approved for
RCHEMENG Chair
2. 06/08/18 1:46 pm
Brittany Parnell
(ershenb):

Approved for CCC
Secretary

3. 06/12/18 10:00
am

Stephen Raper
(sraper):

Approved for
Engineering DSCC
Chair

4. 07/06/18 11:17
am

Brittany Parnell
(ershenb):

Approved for
Pending CCC
Agenda post

The use of advanced methods of economic, engineering, optimizing, and control techniques in planning, designing, and operating chemical process industries. Topics may be adjusted to include those of special interest or need in the above fields.

Prerequisites

Field Trip

Statement

Credit Hours	LEC: 2	LAB: 1	IND: 0	RSD: 0	Total: 3
Required for Majors	No				
Elective for Majors	No				

Justification for change:

Elimination of courses not taught in 10 or more years per Registrar.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 2031

[Preview Bridge](#)

Course Change Request

A deleted record cannot be edited

Course Deactivation Proposal

Date Submitted: 06/07/18 1:51 pm

Viewing: **CHEM ENG 6170 : Advanced Fluid Flow**

File: 376.1

Last edit: 06/12/18 10:44 am

Changes proposed by: tibbettsmg

Requested **Fall 2018** ~~08/01/2014~~

Effective Change

Date

Department Chemical and Biochemical Engineering

Discipline Chemical Engineering (CHEM ENG)

Course Number 6170

Title

Advanced Fluid Flow

Abbreviated Advanced Fluid Flow

Course Title

Catalog

Description

In Workflow

1. **RCHEMENG 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. CAT entry
11. Peoplesoft

Approval Path

1. 06/07/18 3:27 pm
Muthanna Al-Dahhan
(aldahhanm):
Approved for
RCHEMENG Chair
2. 06/08/18 1:46 pm
Brittany Parnell
(ershenb):

Approved for CCC
Secretary

3. 06/12/18 10:00
am

Stephen Raper
(sraper):

Approved for
Engineering DSCC
Chair

4. 07/06/18 11:17
am

Brittany Parnell
(ershenb):

Approved for
Pending CCC
Agenda post

Fundamentals of Newtonian flow, non-Newtonian flow, flow through packed beds, two phase flow, flow around submerged objects and other related topics.

Fundamentals of statistical theory of turbulence, turbulence modeling for transport processes. Theories of turbulent diffusion associated with mixing.

Prerequisites

Field Trip

Statement

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

Justification for
change:

Elimination of courses not taught in 10 or more years per Registrar.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 376

[Preview Bridge](#)

Course Change Request

A deleted record cannot be edited

Course Deactivation Proposal

Date Submitted: 06/07/18 1:51 pm

Viewing: **CHEM ENG 6320 : Plasma**

Polymerization

File: 1122.1

Last edit: 06/12/18 10:44 am

Changes proposed by: tibbettsmg

Requested **Fall 2018** ~~08/01/2014~~

Effective Change

Date

Department Chemical and Biochemical Engineering

Discipline Chemical Engineering (CHEM ENG)

Course Number 6320

Title

Plasma Polymerization

Abbreviated Plasma Polymerization

Course Title

Catalog

Description

In Workflow

1. **RCHEMENG 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. CAT entry
11. Peoplesoft

Approval Path

1. 06/07/18 3:27 pm
Muthanna Al-Dahhan
(aldahhanm):
Approved for
RCHEMENG Chair
2. 06/08/18 1:46 pm
Brittany Parnell
(ershenb):

Approved for CCC
Secretary

3. 06/12/18 10:00
am

Stephen Raper
(sraper):

Approved for
Engineering DSCC
Chair

4. 07/06/18 11:17
am

Brittany Parnell
(ershenb):

Approved for
Pending CCC
Agenda post

Fundamental aspects of polymer formation in plasma (weakly ionized gas), and properties of polymers formed by such a process are studied.

Prerequisites

Chem Eng 4710.

Field Trip

Statement

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

Justification for
change:

Elimination of courses not taught in 10 or more years per Registrar.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 1122

[Preview Bridge](#)

Course Change Request

A deleted record cannot be edited

Course Deactivation Proposal

Date Submitted: 06/07/18 1:52 pm

Viewing: **CHEM ENG 6340 : Philosophy of Scientific Research**

File: 2314.1

Last edit: 06/12/18 10:44 am

Changes proposed by: tibbettsmg

Other Courses
referencing this
course

In The Catalog Description:

[CIV ENG 6940 : Philosophy of Scientific Research](#)

[COMP ENG 6810 : Philosophy of Scientific Research](#)

[ELEC ENG 6810 : Philosophy of Scientific Research](#)

[ENV ENG 6940 : Philosophy of Scientific Research](#)

Requested	Fall 2018 08/01/2014
Effective Change Date	
Department	Chemical and Biochemical Engineering
Discipline	Chemical Engineering (CHEM ENG)
Course Number	6340
Title	Philosophy of Scientific Research
Abbreviated Course Title	Philos of Scientific Research

In Workflow

1. **RCHEMENG 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. CAT entry
11. Peoplesoft

Approval Path

1. 06/07/18 3:27 pm
Muthanna Al-Dahhan
(aldahhanm):
Approved for
RCHEMENG Chair
2. 06/08/18 1:46 pm
Brittany Parnell
(ershenb):

Catalog
Description

Approved for CCC
Secretary

3. 06/12/18 10:00
am

Stephen Raper
(sraper):

Approved for
Engineering DSCC
Chair

4. 07/06/18 11:17
am

Brittany Parnell
(ershenb):

Approved for
Pending CCC
Agenda post

Organization and planning of research. Introduction to the philosophy and management of scientific research, particularly issues related to ethics, plagiarism, ownership of intellectual properties, research techniques, technical presentations and time management. The course will address these issues by integrating with case studies.

Prerequisites

Field Trip
Statement

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

Justification for
change:

Elimination of courses not taught in 10 or more years per Registrar.

Semesters
previously
offered as an
experimental
course

Co-Listed

Courses:

IDE 425 - **Course Not Found**

CIV ENG 6940 - Philosophy of Scientific Research

ENV ENG 6940 - Philosophy of Scientific Research

ELEC ENG 6810 - Philosophy of Scientific Research

COMP ENG 6810 - Philosophy of Scientific Research

Course Reviewer

Comments

Key: 2314

[Preview Bridge](#)

Course Change Request

A deleted record cannot be edited

Course Deactivation Proposal

Date Submitted: 06/06/18 3:47 pm

Viewing: **COMP ENG 6880 : Advanced Topics in Robotics**

File: 169.1

Last edit: 07/31/18 10:20 am

Changes proposed by: tibbetstmg

Other Courses referencing this course	<u>In The Catalog Description:</u> COMP.SCI 6403 : Advanced Topics in Robotics	In Workflow 1. RELECENG Chair 2. CCC Secretary 3. Engineering DSCC Chair 4. Pending CCC Agenda post 5. CCC Meeting Agenda
Requested Effective Change Date	Fall 2018 08/01/2014	6. Campus Curricula Committee Chair 7. FS Meeting Agenda 8. Faculty Senate Chair 9. Registrar 10. CAT entry 11. Peoplesoft
Department	Electrical and Computer Engineering	
Discipline	Computer Engineering (COMP ENG)	
Course Number	6880	
Title	Advanced Topics in Robotics	
Abbreviated Course Title	Advanced Topics in Robotics	Approval Path 1. 07/31/18 10:09 am
Catalog Description	This course covers advanced topics in robotics, including perception, robotic path planning, robotic system integration, and computational intelligence topics for robotics. A term project including both written and oral components will be required.	Daryl Beetner (daryl): Approved for RELECENG Chair
Prerequisites	A "C" or better in either Comp Sci 5403 or Mech Eng 5449 or Aero Eng 5449.	2. 07/31/18 10:20 am Brittany Parnell (ershenb): Approved for CCC Secretary
Field Trip Statement		
Credit Hours	LEC: 3 LAB: 0 IND: 0 RSD: 0 Total: 3	3. 07/31/18 10:25 am Stephen Raper (sraper): Approved for Engineering DSCC Chair
Required for Majors	No	
Elective for Majors	No	4. 07/31/18 10:30 am Brittany Parnell (ershenb): Approved for Pending CCC Agenda post
Justification for change:	Elimination of courses that have not been taught for 10 or more years per Registrar.	
Semesters previously offered as an experimental course		
Co-Listed Courses:	COMP.SCI 6403 - Advanced Topics in Robotics ELEC.ENG 6880 - Advanced Topics in Robotics	

Course Reviewer
Comments

Key: 169

[Preview Bridge](#)

Course Change Request

A deleted record cannot be edited

Course Deactivation Proposal

Date Submitted: 06/06/18 3:46 pm

Viewing: **ELEC ENG 6690 : Topics in EMC and High Speed Digital Design**

File: 2551.1

Last edit: 07/31/18 10:20 am

Changes proposed by: tibbetmsg

Requested	Fall 2018 08/01/2014
Effective Change Date	
Department	Electrical and Computer Engineering
Discipline	Electrical Engineering (ELEC ENG)
Course Number	6690
Title	Topics in EMC and High Speed Digital Design
Abbreviated Course Title	Topics in EMC

Catalog Description	This course will cover advanced topics in electromagnetic compatibility and high speed digital design that are not traditionally covered in other courses. Topics will depend on the latest developments in the field and on student needs.				
Prerequisites	Elec Eng 3600.				
Field Trip Statement					
Credit Hours	LEC: 3	LAB: 0	IND: 0	RSD: 0	Total: 3
Required for Majors	No				
Elective for Majors	No				

Justification for change: Elimination of courses that have not been taught for 10 or more years per Registrar.

Semesters previously offered as an experimental course

Co-Listed Courses:

Course Reviewer Comments

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. CAT entry
11. Peoplesoft

Approval Path

1. 07/31/18 10:09 am
Daryl Beetner (daryl): Approved for RELECENG Chair
2. 07/31/18 10:20 am
Brittany Parnell (ershenb): Approved for CCC Secretary
3. 07/31/18 10:25 am
Stephen Raper (sraper): Approved for Engineering DSCC Chair
4. 07/31/18 10:30 am
Brittany Parnell (ershenb): Approved for Pending CCC Agenda post

Key: 2551

[Preview Bridge](#)

Course Change Request

A deleted record cannot be edited

Course Deactivation Proposal

Date Submitted: 06/06/18 3:46 pm

Viewing: **ELEC ENG 6880 : Advanced Topics in Robotics**

File: 168.1

Last edit: 07/31/18 10:20 am

Changes proposed by: tibbetstmg

In Workflow

1. RELECENG Chair
2. CCC Secretary
3. Engineering DSCC Chair
4. Pending CCC Agenda post
5. CCC Meeting Agenda

Other Courses referencing this course

In The Catalog Description:
[COMP SCI 6403 : Advanced Topics in Robotics](#)

6. Campus Curricula Committee Chair
7. FS Meeting Agenda
8. Faculty Senate Chair
9. Registrar
10. CAT entry
11. Peoplesoft

Requested Effective Change Date: **Fall 2018** ~~08/01/2014~~

Department: Electrical and Computer Engineering

Discipline: Electrical Engineering (ELEC ENG)

Course Number: 6880

Title: Advanced Topics in Robotics

Abbreviated Course Title: Advanced Topics in Robotics

Approval Path

1. 07/31/18 10:10 am
Daryl Beetner (daryl): Approved for RELECENG Chair
2. 07/31/18 10:20 am
Brittany Parnell (ershenb): Approved for CCC Secretary
3. 07/31/18 10:25 am
Stephen Raper (sraper): Approved for Engineering DSCC Chair
4. 07/31/18 10:30 am
Brittany Parnell (ershenb): Approved for Pending CCC Agenda post

Catalog Description: This course covers advanced topics in robotics, including perception, robotic path planning, robotic system integration, and computational intelligence topics for robotics. A term project including both written and oral components will be required.

Prerequisites: A "C" or better in either Comp Sci 5403 or Mech Eng 5449 or Aero Eng 5449.

Field Trip Statement

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

Required for Majors: No

Elective for Majors: No

Justification for change: Elimination of courses that have not been taught for 10 or more years per Registrar.

Semesters previously offered as an experimental course

Co-Listed Courses: COMP SCI 6403 - Advanced Topics in Robotics

Course Reviewer Comments

Key: 168

[Preview Bridge](#)

Course Change Request

A deleted record cannot be edited

Course Deactivation Proposal

Date Submitted: 06/06/18 3:50 pm

Viewing: **ENG MGT 5314 : Computer Integrated Manufacturing Systems**

File: 2297.1

Last edit: 06/12/18 10:45 am

Changes proposed by: tibbettsmg

Catalog Pages
referencing this
course

[Civil, Architectural, and Environmental Engineering
Manufacturing Engineering](#)

Requested **Fall 2018** ~~08/01/2014~~
Effective Change
Date

Department Engineering Management and Systems Engineering

Discipline Engineering Management (ENG MGT)

Course Number 5314

Title
Computer Integrated Manufacturing Systems

Abbreviated Course Title
Comp Integrated Mfg Syst

Catalog
Description

In Workflow

1. **RENGMNGT
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. CAT entry
11. Peoplesoft

Approval Path

1. 06/06/18 3:52 pm
Suzanna Long
(longsuz):
Approved for
RENGMNGT Chair
2. 06/06/18 4:05 pm
Brittany Parnell
(ershenb):

Approved for CCC
Secretary

3. 06/12/18 10:00
am

Stephen Raper
(sraper):

Approved for
Engineering DSCC
Chair

4. 07/06/18 11:18
am

Brittany Parnell
(ershenb):

Approved for
Pending CCC
Agenda post

Study of the design and use of computer-based integrated manufacturing management systems in the allocation and control of plant, equipment, manpower, and materials.

Prerequisites

Eng Mgt 3310.

Field Trip

Statement

Credit Hours	LEC: 2	LAB: 1	IND: 0	RSD: 0	Total: 3
Required for Majors	No				
Elective for Majors	No				

Justification for change:

Elimination of courses that have not been taught for 10 or more years per Registrar.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 2297

[Preview Bridge](#)

Course Change Request

A deleted record cannot be edited

Course Deactivation Proposal

Date Submitted: 06/06/18 3:50 pm

Viewing: **ENG MGT 5413 : Introduction To Intelligent Systems**

File: 628.1

Last edit: 07/30/18 2:35 pm

Changes proposed by: tibbettsmg

Requested **Fall 2018** ~~08/01/2014~~

Effective Change

Date

Department Engineering Management and Systems Engineering

Discipline Engineering Management (ENG MGT)

Course Number 5413

Title

Introduction To Intelligent Systems

Abbreviated Intro To Intelligent Sys

Course Title

Catalog

Description

In Workflow

1. **RENGMNGT**
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. CAT entry
11. Peoplesoft

Approval Path

1. 07/30/18 11:43
am
Suzanna Long
(longsuz):
Approved for
RENGMNGT Chair
2. 07/30/18 2:36 pm
Brittany Parnell

(ershenb):

Approved for CCC
Secretary

3. 07/30/18 3:17 pm

Stephen Raper

(sraper):

Approved for
Engineering DSCC
Chair

4. 07/30/18 3:51 pm

Brittany Parnell

(ershenb):

Approved for
Pending CCC
Agenda post

Introduction to the design of intelligent systems. Topics include: definitions of intelligence, rule-based expert systems, uncertainty management, fuzzy logic, fuzzy expert systems, artificial neural networks, genetic algorithms and evolutionary computation, hybrid systems, and data mining.

Prerequisites

Graduate or senior standing.

Field Trip

Statement

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

Justification for
change:

Elimination of courses that have not been taught for 10 or more years per Registrar.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 628

[Preview Bridge](#)

Course Change Request

A deleted record cannot be edited

Course Deactivation Proposal

Date Submitted: 06/06/18 3:51 pm

Viewing: **ENG MGT 6311 : Advanced**

Manufacturing Systems Integration

File: 1275.1

Last edit: 07/30/18 2:36 pm

Changes proposed by: tibbettsmg

Requested **Fall 2018** ~~08/01/2014~~

Effective Change

Date

Department Engineering Management and Systems Engineering

Discipline Engineering Management (ENG MGT)

Course Number 6311

Title

Advanced Manufacturing Systems Integration

Abbreviated Adv Manufact Sys Integra

Course Title

Catalog

Description

In Workflow

1. **RENGMNGT**
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. CAT entry
11. Peoplesoft

Approval Path

1. 07/30/18 11:43
am
Suzanna Long
(longsuz):
Approved for
RENGMNGT Chair
2. 07/30/18 2:36 pm
Brittany Parnell

(ershenb):

Approved for CCC
Secretary

3. 07/30/18 3:17 pm

Stephen Raper

(sraper):

Approved for
Engineering DSCC
Chair

4. 07/30/18 3:51 pm

Brittany Parnell

(ershenb):

Approved for
Pending CCC
Agenda post

The integration of new technology and information processing concepts for controlling the manufacturing systems. Advanced topics in computer integrated manufacturing systems, industrial robots, CNC machine tools, programmable controllers, material handling systems, manufacturing planning and control.

Prerequisites

Field Trip

Statement

Credit Hours	LEC: 2	LAB: 1	IND: 0	RSD: 0	Total: 3
Required for Majors	No				
Elective for Majors	No				

Justification for change:

Elimination of courses that have not been taught for 10 or more years per Registrar.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 1275

[Preview Bridge](#)

Course Change Request

A deleted record cannot be edited

Course Deactivation Proposal

Date Submitted: 06/06/18 3:30 pm

Viewing: **HISTORY 2210 : European Diplomatic History 1814 - Present**

File: 1460.1

Last edit: 06/12/18 10:45 am

Changes proposed by: tibbettsmg

Programs
referencing this
course

[PSYCH-BA: Psychology BA](#)

[PSYCH-BS: Psychology BS](#)

Requested **Fall 2018** ~~08/01/2014~~
Effective Change
Date

Department History and Political Science

Discipline History (HISTORY)

Course Number 2210

Title
European Diplomatic History 1814 - Present

Abbreviated Eur Dip Hist 1814 - Pres

Course Title

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. FS Meeting Agenda
8. Faculty Senate Chair
9. Registrar
10. CAT entry
11. Peoplesoft

Approval Path

1. 06/07/18 6:49 am sfogg: Approved for RHISTORY Chair
2. 06/07/18 9:02 am Brittany Parnell (ershenb):

Approved for CCC
Secretary

3. 06/07/18 1:42 pm

Petra Dewitt

(dewittp):

Approved for Arts
& Humanities

DSCC Chair

4. 07/06/18 11:18

am

Brittany Parnell

(ershenb):

Approved for

Pending CCC

Agenda post

A survey of European Diplomatic History beginning with The Congress of Vienna to the present, including the Congress system, the Eastern Question, the shift to realpolitik, the diplomatic origins and concluding conferences of the World Wars and Cold War diplomacy.

Prerequisites

History 1200.

Field Trip

Statement

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

Justification for
change:

Elimination of courses that have not been taught for 10 or more years per Registrar.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 1460

[Preview Bridge](#)

Course Change Request

A deleted record cannot be edited

Course Deactivation Proposal

Date Submitted: 06/06/18 3:31 pm

Viewing: **HISTORY 3120 : Ancient Greece**

File: 810.1

Last edit: 06/07/18 1:43 pm

Changes proposed by: tibbettsmg

Programs
referencing this
course

[PSYCH-BA: Psychology BA](#)

[PSYCH-BS: Psychology BS](#)

Requested **Fall 2018** ~~08/01/2014~~
Effective Change
Date

Department History and Political Science

Discipline History (HISTORY)

Course Number 3120

Title
Ancient Greece

Abbreviated
Course Title Ancient Greece

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. FS Meeting
Agenda
8. Faculty Senate
Chair
9. Registrar
10. CAT entry
11. Peoplesoft

Approval Path

1. 06/07/18 6:50 am
sfogg: Approved
for RHISTORY
Chair
2. 06/07/18 9:03 am
Brittany Parnell
(ershenb):

Approved for CCC
Secretary

3. 06/07/18 1:43 pm

Petra Dewitt

(dewittp):

Approved for Arts
& Humanities

DSCC Chair

4. 07/06/18 11:18

am

Brittany Parnell

(ershenb):

Approved for

Pending CCC

Agenda post

Aegean and Greek Civilization from Homeric times to the Roman Conquest of the Hellenic World. Designed for the student who wishes to understand the fundamental conditions of classical life and to comprehend the ideas that inspired action. Emphasis will be on social, intellectual, political and religious aspects of the classical world.

Prerequisites

History 1100.

Field Trip

Statement

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

Justification for
change:

Elimination of courses that have not been taught for 10 or more years per Registrar.

Semesters

previously

offered as an

experimental

course

Co-Listed

Courses:

Course Reviewer

Comments

dewittp (06/07/18 1:43 pm): Changed effective date.

Key: 810

[Preview Bridge](#)

Course Change Request

A deleted record cannot be edited

Course Deactivation Proposal

Date Submitted: 06/06/18 3:31 pm

Viewing: **HISTORY 3450 : American Intellectual History II**

File: 1377.3

Last approved: 04/25/14 3:05 pm

Last edit: 06/07/18 1:44 pm

Changes proposed by: tibbetmsg

Requested **Fall 2018** ~~08/01/2014~~

Effective Change

Date

Department History and Political Science

Discipline History (HISTORY)

Course Number 3450

Title

American Intellectual History II

Abbreviated Amer Intellctual Hist II

Course Title

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. FS Meeting Agenda
8. Faculty Senate Chair
9. Registrar
10. CAT entry
11. Peoplesoft

Approval Path

1. 06/07/18 6:50 am sfogg: Approved for RHISTORY Chair
2. 06/07/18 9:04 am Brittany Parnell (ershenb):

- Approved for CCC Secretary
- 3. 06/07/18 1:44 pm
Petra Dewitt (dewittp):
Approved for Arts & Humanities DSCC Chair
- 4. 07/06/18 11:18 am
Brittany Parnell (ershenb):
Approved for Pending CCC Agenda post

History

- 1. Apr 25, 2014 by lahne (1377.1)

The ideas of intellectuals and the thought of popular culture, and possible relationships between the two. Among the climates of opinion studied are the Gilded Age, Darwinism, Progressivism, the Twenties, the Great Depression, the Affluent Fifties, the Counter-Culture Sixties.

Prerequisites
History 1310.

Field Trip
Statement

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

Justification for
change:

Elimination of courses that have not been taught for 10 or more years per Registrar.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

dewittp (06/07/18 1:44 pm): Changed effective date.

Key: 1377

[Preview Bridge](#)

Course Change Request

A deleted record cannot be edited

Course Deactivation Proposal

Date Submitted: 06/08/18 9:39 am

Viewing: **MATH 3103 : Matrix Algebra**

File: 1585.1

Last edit: 06/12/18 10:46 am

Changes proposed by: tibbettsmg

Programs

referencing this

course

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

[MATH-MI: Mathematics Minor](#)

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

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

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

Other Courses

referencing this

course

In The Prerequisites:

[ECON 6310 : Advanced Mathematical Economics](#)

[MATH 5222 : Vector And Tensor Analysis](#)

[MATH 6108 : Applied Matrix Theory](#)

Requested **Fall 2018 08/01/2014**

Effective Change

Date

Department Mathematics & Statistics

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. CAT entry

11. Peoplesoft

Approval Path

1. 06/08/18 9:49 am

sclark: Approved

for RMATHEMA

Chair

2. 06/08/18 1:47 pm

Brittany Parnell

(ershenb):

Discipline Mathematics (MATH)

Course Number 3103

Title
Matrix Algebra

Abbreviated Course Title
Matrix Algebra

Catalog
Description

Approved for CCC
Secretary

3. 06/11/18 10:23
am

Katie Shannon
(shannonk):

Approved for
Sciences DSCC
Chair

4. 07/06/18 11:19
am

Brittany Parnell
(ershenb):

Approved for
Pending CCC
Agenda post

Matrix algebra is introduced by means of systems of linear algebraic equations. Gaussian elimination, least squares solutions, orthogonalization, determinants, eigenvalues and an introduction to vector spaces are discussed. Credit will not be given for both Math 3103 and 3108.

Prerequisites

Math 2222 with a grade of "C" or better.

Field Trip

Statement

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

Required for
Majors No

Elective for
Majors No

Justification for
change:

Elimination of courses not taught in 10 or more years per Registrar.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 1585

[Preview Bridge](#)

Course Change Request

A deleted record cannot be edited

Course Deactivation Proposal

Date Submitted: 06/08/18 9:40 am

Viewing: **MATH 3329 : Elementary Differential Equations And Matrix Algebra**

File: 2602.1

Last edit: 06/12/18 10:46 am

Changes proposed by: tibbettsmg

Programs

referencing this course

[MATH-MI: Mathematics Minor](#)

Requested **Fall 2018** ~~08/01/2014~~

Effective Change Date

Department Mathematics & Statistics

Discipline Mathematics (MATH)

Course Number 3329

Title Elementary Differential Equations And Matrix Algebra

Abbreviated Elem Diff Eq & Matr Alge

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. CAT entry
11. Peoplesoft

Approval Path

1. 06/08/18 9:50 am sclark: Approved for RMATHEMA Chair
2. 06/08/18 1:47 pm Brittany Parnell (ershenb):

- Approved for CCC Secretary
- 3. 06/11/18 10:23 am
Katie Shannon (shannonk):
Approved for Sciences DSCC Chair
- 4. 07/06/18 11:19 am
Brittany Parnell (ershenb):
Approved for Pending CCC Agenda post

This course is a combination of selected topics from Math 3103 and 3304. Solutions of linear differential equations and systems of linear algebraic equations are emphasized. Credit will not be given for both 3304 and 3329.

Prerequisites

Math 2222 with a grade of "C" or better.

Field Trip

Statement

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

Justification for change:

Elimination of courses not taught in 10 or more years per Registrar.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 2602

[Preview Bridge](#)

Course Change Request

A deleted record cannot be edited

Course Deactivation Proposal

Date Submitted: 06/08/18 9:40 am

Viewing: **MATH 3940 : Mathematical Software**

Applications In The Classroom

File: 1924.1

Last edit: 06/12/18 10:46 am

Changes proposed by: tibbettsmg

Requested	Fall 2018 08/01/2014
Effective Change Date	
Department	Mathematics & Statistics
Discipline	Mathematics (MATH)
Course Number	3940
Title	Mathematical Software Applications In The Classroom
Abbreviated Course Title	Math Software Appl Class

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. CAT entry
11. Peoplesoft

Approval Path

1. 06/08/18 10:20 am
sclark: Approved for RMATHEMA Chair
2. 06/08/18 1:47 pm
Brittany Parnell (ershenb):

Approved for CCC
Secretary

3. 06/11/18 10:23
am

Katie Shannon
(shannonk):
Approved for
Sciences DSCC
Chair

4. 07/06/18 11:19
am

Brittany Parnell
(ershenb):
Approved for
Pending CCC
Agenda post

Students will be introduced to a variety of Mathematical Software applications, both PC and calculator based which will aid teachers in presenting concepts and in classroom management. Specific topics covered will be selected based on student interest.

Prerequisites

Math 2222 and admission to the MST program.

Field Trip

Statement

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

Justification for
change:

Elimination of courses not taught in 10 or more years per Registrar.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 1924

[Preview Bridge](#)

Course Change Request

A deleted record cannot be edited

Course Deactivation Proposal

Date Submitted: 06/08/18 9:41 am

Viewing: **MATH 6425 : Hilbert Space Structures
And Methods For Application**

File: 1097.1

Last edit: 06/12/18 10:47 am

Changes proposed by: tibbettsmg

Requested **Fall 2018** ~~08/01/2014~~

Effective Change

Date

Department Mathematics & Statistics

Discipline Mathematics (MATH)

Course Number 6425

Title

Hilbert Space Structures And Methods For Application

Abbreviated Hilbert Sp Struc&Ap Meth

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. CAT entry
11. Peoplesoft

Approval Path

1. 06/08/18 9:50 am
sclark: Approved
for RMATHEMA
Chair
2. 06/08/18 1:48 pm
Brittany Parnell
(ershenb):

- Approved for CCC Secretary
- 3. 06/11/18 10:23 am
Katie Shannon (shannonk):
Approved for Sciences DSCC Chair
- 4. 07/06/18 11:19 am
Brittany Parnell (ershenb):
Approved for Pending CCC Agenda post

Foundations of the abstract theory of linear operators in Hilbert spaces, Banach spaces, and topological linear spaces. Application of abstract theory in constructing computational techniques (method of Rayleigh-Ritz) in eigenvalue problems associated with linear differential and integral equations arising in physical applications. Introduction to theory of distributions and Green's functions.

Prerequisites

Math 5108.

Field Trip

Statement

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

Justification for
change:

Elimination of courses not taught in 10 or more years per Registrar.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 1097

[Preview Bridge](#)

Course Change Request

A deleted record cannot be edited

Course Deactivation Proposal

Date Submitted: 06/08/18 9:41 am

Viewing: **MATH 6426 : Green'S Function Structures And Methods For Application**

File: 790.1

Last edit: 06/12/18 10:47 am

Changes proposed by: tibbettsmg

Requested **Fall 2018** ~~08/01/2014~~

Effective Change

Date

Department Mathematics & Statistics

Discipline Mathematics (MATH)

Course Number 6426

Title

Green'S Function Structures And Methods For Application

Abbreviated Greens Funct Strct&Mthds

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. CAT entry
11. Peoplesoft

Approval Path

1. 06/08/18 9:50 am
sclark: Approved
for RMATHEMA
Chair
2. 06/08/18 1:48 pm
Brittany Parnell
(ershenb):

- Approved for CCC Secretary
- 3. 06/11/18 10:23 am
Katie Shannon (shannonk):
Approved for Sciences DSCC Chair
- 4. 07/06/18 11:19 am
Brittany Parnell (ershenb):
Approved for Pending CCC Agenda post

Continuation of Math 6+D1271425. Theory of distributions (Dirac Delta function) and Green's functions. Applications in the solution of boundary value problems for linear partial differential equations arising in physical applications. Integral equations in several independent variables. Method of characteristics in solving partial differential equations.

Prerequisites

Math 6425.

Field Trip

Statement

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

Justification for
change:

Elimination of courses not taught in 10 or more years per Registrar.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 790

[Preview Bridge](#)

Course Change Request

A deleted record cannot be edited

Course Deactivation Proposal

Date Submitted: 06/08/18 9:41 am

Viewing: **MATH 6435 : Calculus Of Variations I**

File: 78.1

Last edit: 06/12/18 10:47 am

Changes proposed by: tibbettsmg

Requested **Fall 2018** ~~08/01/2014~~

Effective Change

Date

Department Mathematics & Statistics

Discipline Mathematics (MATH)

Course Number 6435

Title

Calculus Of Variations I

Abbreviated Calc Of Variations I

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. CAT entry
11. Peoplesoft

Approval Path

1. 06/08/18 9:50 am
sclark: Approved
for RMATHEMA
Chair
2. 06/08/18 1:49 pm
Brittany Parnell
(ershenb):

Approved for CCC
Secretary

3. 06/11/18 10:23
am

Katie Shannon
(shannonk):
Approved for
Sciences DSCC
Chair

4. 07/06/18 11:19
am

Brittany Parnell
(ershenb):
Approved for
Pending CCC
Agenda post

Linear spaces, linear operators, and functionals, necessary conditions, transversality, corner conditions, HamiltonJacobi theory, direct methods, eigenvalue problems, isoperimetric problems, theory of the second variation, differential forms and n-dimensional manifolds, applications to differential equations, conservation laws, dynamic programming, and Pontryagin maximum principle, application in physics, engineering economics.

Prerequisites

Math 4211.

Field Trip

Statement

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

Justification for
change:

Elimination of courses not taught in 10 or more years per Registrar.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 78

[Preview Bridge](#)

Course Change Request

A deleted record cannot be edited

Course Deactivation Proposal

Date Submitted: 06/08/18 9:41 am

Viewing: **MATH 6436 : Calculus Of Variations II**

File: 2075.1

Last edit: 06/12/18 1:47 pm

Changes proposed by: tibbettsmg

Requested **Fall 2018** ~~08/01/2014~~

Effective Change

Date

Department Mathematics & Statistics

Discipline Mathematics (MATH)

Course Number 6436

Title

Calculus Of Variations II

Abbreviated Calc Of Variations II

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. CAT entry
11. Peoplesoft

Approval Path

1. 06/08/18 9:50 am
sclark: Approved
for RMATHEMA
Chair
2. 06/08/18 1:49 pm
Brittany Parnell
(ershenb):

- Approved for CCC Secretary
- 3. 06/11/18 10:23 am
Katie Shannon (shannonk):
Approved for Sciences DSCC Chair
- 4. 07/06/18 11:19 am
Brittany Parnell (ershenb):
Approved for Pending CCC Agenda post

Continuation of Math 6435.

Prerequisites

Must be preceded by Math 6435.

Field Trip

Statement

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

Justification for change:

Elimination of courses not taught in 10 or more years per Registrar.

Semesters previously

offered as an
experimental
course

Co-Listed

Courses:

Course Reviewer

Comments

Key: 2075

[Preview Bridge](#)

Course Change Request

A deleted record cannot be edited

Course Deactivation Proposal

Date Submitted: 06/06/18 4:07 pm

Viewing: **MET ENG 6040 : Oral Examination**

File: 1820.1

Last edit: 06/12/18 3:44 pm

Changes proposed by: tibbettsmg

Requested	Fall 2018 08/01/2014
Effective Change Date	
Department	Materials Science & Engineering
Discipline	Metallurgical Engineering (MET ENG)
Course Number	6040
Title	Oral Examination
Abbreviated Course Title	Oral Examination

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. CAT entry
11. Peoplesoft

Approval Path

1. 06/06/18 4:42 pm
Greg Hilmas (ghilmas):
Approved for RMATSENG Chair
2. 06/07/18 9:04 am
Brittany Parnell (ershenb):

Approved for CCC
Secretary

3. 06/12/18 10:00
am

Stephen Raper
(sraper):

Approved for
Engineering DSCC
Chair

4. 07/06/18 11:19
am

Brittany Parnell
(ershenb):

Approved for
Pending CCC
Agenda post

After completion of all other program requirements, oral examinations for on-campus M.S./Ph.D. students may be processed during intersession. Off-campus M.S. students must be enrolled in oral examination and must have paid an oral examination fee at the time of the defense/comprehensive examination (oral/written). All other students must enroll for credit commensurate with uses made of facilities and/or faculties. In no case shall this be for less than three (3) semester hours for resident students.

Prerequisites

Field Trip

Statement

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

Justification for
change:

Elimination of courses that have not been taught for 10 or more years per Registrar.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 1820

[Preview Bridge](#)

Course Change Request

A deleted record cannot be edited

Course Deactivation Proposal

Date Submitted: 06/06/18 4:07 pm

Viewing: **MS&E 6040 : Oral Examination**

File: 2589.1

Last edit: 06/12/18 3:44 pm

Changes proposed by: tibbettsmg

Requested	Fall 2018 08/01/2014
Effective Change Date	
Department	Materials Science & Engineering
Discipline	Materials Science & Eng (MS&E)
Course Number	6040
Title	Oral Examination
Abbreviated Course Title	Oral Examination

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. CAT entry
11. Peoplesoft

Approval Path

1. 06/06/18 4:42 pm
Greg Hilmas (ghilmas):
Approved for
RMATSENG Chair
2. 06/07/18 9:04 am
Brittany Parnell (ershenb):

- Approved for CCC Secretary
- 3. 06/12/18 10:00 am
Stephen Raper (sraper):
Approved for Engineering DSCC Chair
- 4. 07/06/18 11:19 am
Brittany Parnell (ershenb):
Approved for Pending CCC Agenda post

(Variable) After completion of all other program requirements, oral examinations for on-campus M.S./Ph.D students may be processed during intersession. Off-campus M.S. students must be enrolled in an oral examination and must have paid an oral examination fee at the time of the defense/comprehensive examination (oral/written). All other students must enroll for credit commensurate with uses made of facilities and/or faculties. In no case shall this be for less than three (3) semester hours for resident students.

Prerequisites

Field Trip Statement

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

Justification for
change:

Elimination of courses that have not been taught for 10 or more years per Registrar.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 2589

[Preview Bridge](#)

Course Change Request

A deleted record cannot be edited

Course Deactivation Proposal

Date Submitted: 06/07/18 1:12 pm

Viewing: **PHYS ED 1500 : Administration Of Interscholastic Athletics**

File: 704.1

Last edit: 07/19/18 3:08 pm

Changes proposed by: tibbettsmg

Requested	Fall 2018 08/01/2014
Effective Change Date	
Department	Office of Undergraduate Studies
Discipline	Physical Education (PHYS ED)
Course Number	1500
Title	Administration Of Interscholastic Athletics
Abbreviated Course Title	Admin Intrscholastic Ath

Catalog Description

In Workflow

1. **RPHYSEDU 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. CAT entry
11. Peoplesoft

Approval Path

1. 07/17/18 2:18 pm
Kelly Carter
(carterke):
Approved for
RPHYSEDU Chair
2. 07/19/18 3:09 pm
Brittany Parnell
(ershenb):

Approved for CCC
Secretary

3. 07/30/18 11:48
am

Barry Flachsbart
(barryf):

Approved for
Social Sciences
DSCC Chair

4. 07/30/18 2:40 pm
Brittany Parnell

(ershenb):

Approved for
Pending CCC
Agenda post

To present materials that will provide the student with a working knowledge of the major administration and day to day problems that are associated with interscholastic athletics.

Prerequisites

Field Trip

Statement

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

Justification for change:

Elimination of courses not taught in 10 or more years per Registrar.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 704

[Preview Bridge](#)

Course Change Request

A deleted record cannot be edited

Course Deactivation Proposal

Date Submitted: 06/07/18 1:12 pm

Viewing: **PHYS ED 2300 : Methods In Physical Education K-4**

File: 1512.1

Last edit: 07/19/18 3:09 pm

Changes proposed by: tibbettsmg

Requested	Fall 2018 08/01/2014
Effective Change Date	
Department	Office of Undergraduate Studies
Discipline	Physical Education (PHYS ED)
Course Number	2300
Title	Methods In Physical Education K-4
Abbreviated Course Title	Meths Physical Educ K-4

Catalog Description

In Workflow

1. **RPHYSEDU 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. CAT entry
11. Peoplesoft

Approval Path

1. 07/17/18 2:19 pm
Kelly Carter
(carterke):
Approved for
RPHYSEDU Chair
2. 07/19/18 3:09 pm
Brittany Parnell
(ershenb):

Approved for CCC
Secretary

3. 07/30/18 11:48
am

Barry Flachsbart
(barryf):

Approved for
Social Sciences
DSCC Chair

4. 07/30/18 2:40 pm
Brittany Parnell

(ershenb):

Approved for
Pending CCC
Agenda post

The course will provide the opportunity to learn how to promote student fitness and skill development while building the foundation for a physically active life through specific activities aimed at the younger child.

Prerequisites

Field Trip

Statement

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

Justification for change:

Elimination of courses not taught in 10 or more years per Registrar.

Semesters

previously
offered as an
experimental
course

Co-Listed

Courses:

EDUC 2230 - Methods In Physical Education K-4

Course Reviewer

Comments

Key: 1512

[Preview Bridge](#)

Course Change Request

A deleted record cannot be edited

Course Deactivation Proposal

Date Submitted: 06/08/18 9:41 am

Viewing: **STAT 1116 : Statistics For The Social Sciences II**

File: 1115.1

Last edit: 06/12/18 3:42 pm

Changes proposed by: tibbettsmg

Other Courses
referencing this
course

In The Prerequisites:

[BUS 5360 : Business Operations](#)

Requested **Fall 2018** ~~08/01/2014~~

Effective Change
Date

Department Mathematics & Statistics

Discipline Statistics (STAT)

Course Number 1116

Title
Statistics For The Social Sciences II

Abbreviated Stat For Social Sci II

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. CAT entry
11. Peoplesoft

Approval Path

1. 06/08/18 10:33
am
sclark: Approved
for RMATHEMA
Chair
2. 06/08/18 1:49 pm
Brittany Parnell
(ershenb):

Approved for CCC
Secretary

3. 06/11/18 10:24
am

Katie Shannon
(shannonk):
Approved for
Sciences DSCC
Chair

4. 07/06/18 11:20
am

Brittany Parnell
(ershenb):
Approved for
Pending CCC
Agenda post

A course on statistical methodology for the social and behavioral sciences. Regression, analysis of variance, forecasting, and use of statistical computer packages.

Prerequisites

Stat 1115 with a grade of "C" or better.

Field Trip

Statement

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

Justification for change:

Elimination of courses not taught in 10 or more years per Registrar.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 1115

[Preview Bridge](#)

Course Change Request

A deleted record cannot be edited

Course Deactivation Proposal

Date Submitted: 06/08/18 9:42 am

Viewing: **STAT 5120 : Statistical Methods**

File: 364.1

Last edit: 06/12/18 3:40 pm

Changes proposed by: tibbettsmg

Requested **Fall 2018** ~~08/01/2014~~

Effective Change

Date

Department Mathematics & Statistics

Discipline Statistics (STAT)

Course Number 5120

Title

Statistical Methods

Abbreviated Statistical Methods

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. CAT entry
11. Peoplesoft

Approval Path

1. 06/08/18 10:34
am
sclark: Approved
for RMATHEMA
Chair
2. 06/08/18 1:49 pm
Brittany Parnell
(ershenb):

- Approved for CCC Secretary
- 3. 06/11/18 10:24 am
Katie Shannon (shannonk):
Approved for Sciences DSCC Chair
- 4. 07/06/18 11:20 am
Brittany Parnell (ershenb):
Approved for Pending CCC Agenda post

A continuation of Stat 3115 with emphasis on statistical methods. Topics would include further work on regression analysis, control charts, acceptance sampling, nonparametric statistics, goodness of fit tests, reliability and life-testing, analysis of experimental designs.

Prerequisites
Stat 3115.

Field Trip
Statement

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

Justification for change:

Elimination of courses not taught in 10 or more years per Registrar.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 364

[Preview Bridge](#)

Program Change Request

Date Submitted: 06/07/18 12:16 pm

Viewing: **AE ENG-BS : Aerospace Engineering
BS**

File: 141.18

Last approved: 03/27/17 2:47 pm

Last edit: 07/03/18 12:10 pm

Changes proposed by: isaac

Catalog Pages Using this Program

[Aerospace Engineering](#)

Start Term

Fall **2019** ~~2017~~

Program Code

AE ENG-BS

Department

Mechanical & Aerospace Engineering

Title

Aerospace Engineering BS

Program Requirements and 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. Kristy Giacomelli

Approval Path

1. 06/07/18 12:47 pm
James Drallmeier (drallmei):
Approved for RMECHENG Chair
2. 06/07/18 1:33 pm
Brittany Parnell (ershenb):
Approved for CCC Secretary
3. 07/03/18 12:36 pm
Stephen Raper (sraper): Approved for Engineering DSCC Chair
4. 07/06/18 11:16 am
Brittany Parnell (ershenb):
Approved for Pending CCC Agenda post

History

1. Apr 28, 2014 by nisbett
2. Aug 1, 2014 by pantaleoa

3. Jul 14, 2015 by
pantaleoa
4. Mar 27, 2017 by
Shauntae Ellis
(smetg6)

Bachelor of Science Aerospace Engineering

Entering freshmen desiring to study aerospace engineering will be admitted to the Freshman Engineering Program. They will, however, be permitted, if they wish, to state an aerospace 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.

A ~~cumulative~~ ~~Cumulative~~ GPA of 2.5, and math science GPA of 2.25 are the minimum requirements for admission to the aerospace engineering program.

Students must comply with the requirements specified in the current online catalog published by the registrar. For the bachelor of science degree in aerospace 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 aerospace engineering. Each student's program of study must contain a minimum of ~~24~~ ~~21~~ credit hours of course work in general education and must be chosen to satisfy the following requirements:

1. **ENGLISH 1120.**
2. ~~All students are required to take one American history course/political science course, one economics course, one humanities course, and ENGLISH 1120. The history course is to be selected from~~ **HISTORY 1200, HISTORY 1300, HISTORY 1310, or POL SCI 1200**
3. ~~POL SCI 1200.~~ **ECON 1100 or ECON 1200**
4. **ENGLISH 1160 or ENGLISH 3560 or SP&M S 1185**
5. **A literature elective***
6. **An ethics elective***
7. ~~The economics course may be either ECON 1100 or ECON 1200. Depth~~ **elective. 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 of Humanities and Social Science Courses for Engineering Degrees" maintained by the office of undergraduate studies. A This course must have as a prerequisite one of the humanities or social science elective that has a humanities or social science course sciences courses already taken as a prerequisite***
8. ~~taken. A Three credit hours must be taken in~~ **humanities or social science elective***

~~*Humanities sciences at the 2000 level or above and social science elective must be at least 3 credit hours must be selected from "The Approved List of lecture designation, Humanities and also meet the requirements as specified under "Engineering Degree Requirements" published in Social Science Courses for Engineering Degrees" maintained by the current office of undergraduate catalog. studies.~~

~~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. One course should be in the ethics area. 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, and a literature course. Any specific departmental requirements in the general studies area must be satisfied. Special topics and special problems and honors seminars are allowed only by petition to and approval by the student's department chairman.~~ The aerospace 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 are presented and discussed through classroom and laboratory instruction.

Freshman Year			
First Semester	Credits	Second Semester	Credits
FR ENG 1100	1	MECH ENG 1720	3
CHEM 1310 & CHEM 1319 & CHEM 1100 ¹	6	MATH 1215 ⁴	4
ENGLISH 1120	3	PHYSICS 1135 ⁴	4
MATH 1214	4	H/SS Economics elective ³	3
H/SS History Elective ²	3		
	17		14
Sophomore Year			
First Semester	Credits	Second Semester	Credits
COMP SCI 1970 or 1974 ⁹	2	AERO ENG 2780	2
COMP SCI 1980 or 1984 ⁹	4	AERO ENG 2360 ⁴	3
COMP SCI 1570 or 1972	2-3	MECH ENG 2519 ⁴	3
COMP SCI 1580 or 1982	1	MATH 3304 ⁴	3
CIV ENG 2200 ⁴	3	CIV ENG 2210 ⁴	3
MATH 2222 ⁴	4	AERO ENG 2790	2
PHYSICS 2135 ⁴	4		
AERO ENG 2861 ⁴	3		
	17-18		16
Junior Year			
First Semester	Credits	Second Semester	Credits
AERO ENG 3613 ⁴	3	AERO ENG 3251 ⁴	3
AERO ENG 3131 ⁴	3	AERO ENG 3361	3
AERO ENG 3877	3	AERO ENG 3171	3
ELEC ENG 2800	3	AERO ENG 4882	2
Electives-Advanced Math/Cmp Sci ⁵	3	Elective/Ethics ¹⁰	3
		Elective/Communications ⁷	3
	15		17
Senior Year			
First Semester	Credits	Second Semester	Credits
AERO ENG 4535	3	AERO ENG 4781 or 4791	3
AERO ENG 4253	3	Electives-Technical ⁶	3
AERO ENG 4780 or 4790	2	Electives-Technical ⁶	3
AERO ENG 4883	2	AERO ENG 4885	1

Electives-Technical ⁶	3	Electives-Hum/Soc Sci	3
Depth Elective/Hum/Soc Sci ⁸	3	Elective/Literature	3
		Elective/Literature	3
	16		16
Total Credits: 128-129			

1	CHEM 1310 , CHEM 1319 and CHEM 1100 or an equivalent training program approved by Missouri S&T.
2	Must be one of the following: POL SCI 1200 , HISTORY 1200 , HISTORY 1300 , or HISTORY 1310 .
3	Must be one of the following: ECON 1100 or ECON 1200 .
4	A grade of "C" or better in CHEM 1310 , MATH 1214 , MATH 1215 , MATH 2222 , MATH 3304 , PHYSICS 1135 , PHYSICS 2135 , CIV ENG 2200 , CIV ENG 2210 , and computer programming elective, AERO ENG 2360 , AERO ENG 2861 , and MECH ENG 2519 , as prerequisite for follow-up courses in the curriculum and for graduation.
5	Must be one of the following: AERO ENG 5830 , COMP SCI 3200 , MATH 3103 , MATH 3108 , STAT 3113 , STAT 3115 , or any 5000-level math or computer science course approved by the student's advisor.
6	Electives must be approved by the student's advisor. Nine hours of technical electives must be in mechanical and aerospace engineering. Three hours of departmental technical electives must be at the 5000-level. AERO ENG 3877 and the 5000-level Asteroid Mining course co-listed with geological engineering are not to be used for 5000-level technical elective.
7	This course can be selected from ENGLISH 1160 , ENGLISH 3560 , SP&M S 1185 , or the complete four-course sequence in advanced ROTC (MIL ARMY 3250 , MIL ARMY 3500 , MIL ARMY 4250 , and MIL ARMY 4500 ; or MIL AIR 3110 , MIL AIR 3120 , MIL AIR 4110 and MIL AIR 4120).
8	To satisfy the depth requirement, this course should have a humanities and social science course already taken as a prerequisite.
9	Must be a course on engineering ethics, business ethics, bio ethics, social ethics, or any ethics course approved by the student's advisor.
49	Must be a course on engineering ethics, business ethics, bio ethics, social ethics, or any ethics course approved by the student's advisor.

~~Free Electives Footnote: Note: All aerospace engineering students must take and pass the aerospace engineering assessment exam prior to graduation.~~

Justification for request

To comply with the revised engineering degree requirements. Assessment is now in the curriculum (AE4885). There is no need to have a comment on the requirement to take the Assessment Exam.

Supporting Documents

~~DC form.pdf~~

Course Reviewer Comments

ershenb (06/07/18 1:27 pm): linked courses that were notated as plain text

ershenb (06/07/18 1:29 pm): .

ershenb (06/07/18 1:30 pm): grammatical

sraper (06/12/18 10:02 am): Removed "Free Elective Footnotes:" as there are no free electives in the curriculum.

ershenb (06/15/18 11:25 am): changed start term to Fall 2019

ershenb (07/03/18 12:10 pm): Per the request of Dr. Raper, edited Sophomore Year, First Semester: changed COMP SCI 1970 or 1971 (2 hours) to COMP SCI 1570 or 1972 (2-3 hours. Changed COMP

SCI 1980 or 1981 (1 hour) to COMP SCI 1580 or 1982 (1 hour).Semester hours are now 17-18. Total hours are now 128-129. Removed Footnote 9: Computer Science requirement can be satisfied by taking COMP SCI 1570 and COMP SCI 1580.

Key: 141

Program Change Request

Date Submitted: 06/26/18 2:29 pm

Viewing: **COGNEUR-MI : Cognitive Neuroscience Minor**

File: 23.2

Last approved: 05/07/14 11:09 am

Last edit: 07/31/18 10:50 am

Changes proposed by: murray

Catalog Pages Using this Program

[Psychology](#)

Start Term

Fall 2019 08/01/2014

Program Code

COGNEUR-MI

Department

Psychological Science

Title

Cognitive Neuroscience Minor

Program Requirements and 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. Kristy Giacomelli

Approval Path

1. 06/26/18 2:58 pm
murray: Approved for RPSYCHOL Chair
2. 06/27/18 9:15 am
Brittany Parnell (ershenb): Approved for CCC Secretary
3. 06/29/18 2:01 pm
Barry Flachsbart (barryf): Approved for Social Sciences DSCC Chair
4. 07/06/18 11:18 am
Brittany Parnell (ershenb): Approved for Pending CCC Agenda post

History

1. May 7, 2014 by
[Lahne Black \(lahne\)](#)

Cognitive Neuroscience Minor

Requirements include:

PSYCH 1101	General Psychology	3
PSYCH 4400	Cognitive Psychology	3
PSYCH 4410	Neuroscience	3
PSYCH 4411	Sensation and Perception	3
or PSYCH 4501	Abnormal Psychology	
and 1 of the following		
PSYCH 3400	Theories Of Learning	3
PSYCH 4501	Abnormal Psychology	3

Justification for request

Removed a suppressed class and added an option with abnormal psychology

Supporting Documents

Course Reviewer Comments

ershenb (06/27/18 9:07 am): removed the suppressed Psych 4412

ershenb (07/31/18 10:50 am): .

Key: 23

Program Change Request

Date Submitted: 06/26/18 2:21 pm

Viewing: **I/O PSY-MI : Indus/Organization Psych
Minor**

File: 72.3

Last approved: 05/07/14 11:08 am

Last edit: 06/27/18 8:55 am

Changes proposed by: murray

Catalog Pages Using this Program

[Psychology_](#)

Start Term

Fall 2019 ~~08/01/2014~~

Program Code

I/O PSY-MI

Department

Psychological Science

Title

Indus/Organization Psych Minor

Program Requirements and 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. **Kristy Giacomelli**

Approval Path

1. 06/26/18 2:59 pm
murray: Approved
for RPSYCHOL
Chair
2. 06/27/18 9:15 am
Brittany Parnell
(ershenb):
Approved for CCC
Secretary
3. 06/29/18 2:01 pm
Barry Flachsbart
(barryf): Approved
for Social Sciences
DSCC Chair
4. 07/06/18 11:18 am
Brittany Parnell
(ershenb):
Approved for
Pending CCC
Agenda post

History

1. May 7, 2014 by
Lahne Black (lahne)
2. May 7, 2014 by
Lahne Black (lahne)

Industrial/Organizational Psychology Minor

Requirements include:

PSYCH 1101	General Psychology	3
PSYCH 4700	Industrial Psychology	3
PSYCH 4602	Organizational Psychology	3
and 2 of the following		
PSYCH 4600	Social Psychology	3
PSYCH 4710	Human Factors	3
PSYCH 4500	Personality Theory	3

Justification for request

added 4500 (Personality) as an option in the minor

Supporting Documents

Course Reviewer Comments

ershenb (06/27/18 8:55 am): updated start term

Key: 72

Program Change Request

Date Submitted: 06/26/18 2:25 pm

Viewing: **PSY LEA-MI : Psychol of Leadership - Minor**

File: 124.3

Last approved: 07/21/15 2:42 pm

Last edit: 06/27/18 8:54 am

Changes proposed by: murray

Catalog Pages Using this Program

[Psychology_](#)

Start Term

Fall **2019** ~~2015~~

Program Code

PSY LEA-MI

Department

Psychological Science

Title

Psychol of Leadership - Minor

Program Requirements and 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. **Kristy Giacomelli**

Approval Path

1. 06/26/18 2:59 pm
murray: Approved for RPSYCHOL Chair
2. 06/27/18 8:54 am
Brittany Parnell (ershenb): Approved for CCC Secretary
3. 06/29/18 2:01 pm
Barry Flachsbart (barryf): Approved for Social Sciences DSCC Chair
4. 07/06/18 11:20 am
Brittany Parnell (ershenb): Approved for Pending CCC Agenda post

History

1. **May 7, 2014** by **Lahne Black (lahne)**
2. **Jul 21, 2015** by **pantaleoa**

Psychology of Leadership

Requirements include general psychology and 4 of the following 5 courses:

PSYCH 4610	Psychology of Leadership in Organizations	3
and 3 of the following		
PSYCH 4600	Social Psychology	3
PSYCH 4601	Group Dynamics	3
PSYCH 4602	Organizational Psychology	3
PSYCH 4603	Social Influence: Science and Practice	3
PSYCH 4992	Cross-Cultural Psychology	3
PSYCH 4993	Psychology of Gender	3

Justification for request

Supporting Documents

Course Reviewer Comments

ershenb (06/27/18 8:54 am): updated start term

Key: 124

Course Change Request

New Experimental Course Proposal

Date Submitted: 04/30/18 8:15 pm

Viewing: **MATH 6001.003 : Mathematical Foundation of Finite Element Methods II**

File: 4543

Last edit: 06/11/18 10:19 am

Changes proposed by: prunnion

Requested Spring 2019
Effective Change
Date

Department Mathematics & Statistics

Discipline Mathematics (MATH)

Course Number 6001

Topic ID 003

Experimental Mathematical Foundation of Finite Element Methods II
Title

Experimental Finite Elem Methods II
Abbreviated
Course Title

Instructors Xiaoming He or Nan Jiang or Daozhi Han

Experimental
Catalog
Description

Finite element methods for systems of partial differential equations and nonlinear partial differential equations. Mathematical theory for mixed finite elements, non-conforming finite elements, finite element interpolation, and finite element projections.

Prerequisites

Math 5325 or Math 6601 or Math 6602.

Field Trip
Statement

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

Justification for
new course:

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. CAT entry
8. Registrar

Approval Path

1. 04/30/18 8:50 pm
sclark: Approved for RMATHEMA Chair
2. 05/03/18 1:35 pm
Brittany Parnell (ershenb):
Approved for CCC Secretary
3. 06/11/18 10:21 am
Katie Shannon (shannonk):
Approved for Sciences DSCC Chair
4. 07/06/18 11:19 am
Brittany Parnell (ershenb):
Approved for Pending CCC Agenda post

This is a new course being added to leverage faculty expertise and support interests of current graduate students in the department. This will be offered as a shared course in the UM system.

Semester(s)
previously taught

Co-Listed
Courses:

Course Reviewer
Comments

Key: 4543

[Preview Bridge](#)

Course Change Request

New Experimental Course Proposal

Date Submitted: 05/24/18 1:14 pm

Viewing: **PET ENG 4001.004 : Drilling Automation**

File: 4549

Last edit: 06/06/18 1:18 pm

Changes proposed by: reflori

Requested Fall 2018

Effective Change

Date

Department Geosciences and Geological and Petroleum
Engineering

Discipline Petroleum Engineering (PET ENG)

Course Number 4001

Topic ID 004

Experimental

Title

Drilling Automation

Experimental Drilling Automation

Abbreviated

Course Title

Instructors Dr. Rick Hendrix

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. CAT entry
8. Registrar

Approval Path

1. 05/25/18 7:18 am
David Borrok
(borrokd):
Approved for
RGEOSENG Chair
2. 05/29/18 8:37 am
Brittany Parnell
(ershenb):
Approved for CCC
Secretary
3. 06/06/18 10:45
am
Stephen Raper
(sraper):
Approved for

Engineering DSCC
Chair

4. 07/06/18 11:20
am

Brittany Parnell
(ershenb):

Approved for
Pending CCC
Agenda post

Advances in automation are transforming the design of modern drilling rigs and altering modern well drilling practices. This course covers these advances such as controls, data and communications, drilling rig systems, human factors and drilling optimization. A key part of the class is reading and discussing current technical papers.

Prerequisites

PET ENG 4210.

Field Trip

Statement

Credit Hours

LEC: 3

LAB: 0

IND: 0

RSD: 0

Total: 3

Justification for new course:

Drilling automation is a major trend in the oil and gas well drilling sector. It's also an important research area. Companies seek graduates who have exposure to drilling automation.

Semester(s)

previously taught

Taught as a Special Problems class in Fall 2017.

Co-Listed

Courses:

Course Reviewer

Comments

[Preview Bridge](#)