Minutes of the Campus Curricula Committee Meeting
August 15, 2018
2:00pm, 106 Parker Hall
(For Faculty Senate Meeting of September 13, 2018)

Attendees: Steve Raper, Petra Dewitt, Thomas Schuman, Barry Flachsbart, Ashok Midha, Katie Shannon, Kyle Perry and Kristy Giacomelli

The following curriculum forms were discussed and approved:

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

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

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

The following form was tabled:
File: 124.3   PSY LEA-MI: Psychol of Leadership - Minor

AY 2018-2019 Course Curricula meeting dates were discussed and approved; meetings were set at Wednesdays, 9am – 10:30am and an additional meeting on December 5, 2018 was added to support the submission of EC forms for Spring 2019.

CER ENG 3417 and CER ENG 3517 course deactivations were retracted and will remain active courses.

The meeting adjourned at 2:25pm.

Stephen A. Raper, Chair
Missouri S&T Campus Curricula Committee

Course Change Request

A deleted record cannot be edited

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Course Deactivation Proposal

</div>

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

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

File: 879.1

Last edit: 08/15/18 2:35 pm

Changes proposed by: tibbettsmg

Requested Effective Change Date	**Spring 2019** ~~08/01/2014~~
Department	Biological Sciences
Discipline	Biological Sciences (BIO SCI)
Course Number	4333
Title	Exercise Physiology
Abbreviated Course Title	Exercise Physiology

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
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: 879

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. 06/08/18 8:20 am David Duvernell (duvernelld): 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 (ershenb): Approved for Pending CCC Agenda post
5. 08/15/18 2:36 pm Brittany Parnell (ershenb): Approved for CCC Meeting Agenda

6. 08/15/18 3:23 pm
    Stephen Raper
    (sraper):
    Approved for
    Campus Curricula
    Committee Chair

    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: 08/15/18 2:39 pm

Changes proposed by: shannonk

Requested Effective Change Date	Spring 2019
Department	Biological Sciences
Discipline	Biological Sciences (BIO SCI)
Course Number	4423
Title	Introduction to Astrobiology
Abbreviated Course Title	Intro Astrobio
Catalog Description	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 Bio Sci 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	**ershenb (08/15/18 2:39 pm):** added "Bio Sci" to "3313" in prereq. Added "possibility" to catalog description.

Key: 4544

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
5. 08/15/18 2:39 pm
   Brittany Parnell (ershenb): Approved for CCC Meeting Agenda

6. 08/15/18 3:23 pm
   Stephen Raper
   (sraper):
   Approved for
   Campus Curricula
   Committee Chair

Preview Bridge

Course Change Request

A deleted record cannot be edited

<div align="center">**Course Deactivation Proposal**</div>

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

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

File: 457.1

Last edit: 08/15/18 2:50 pm

Changes proposed by: tibbettsmg

Requested Effective Change Date	**Spring 2019** 08/01/2014
Department	Materials Science & Engineering
Discipline	Ceramic Engineering (CER ENG)
Course Number	6040
Title	Oral Examination
Abbreviated Course Title	Oral Examination
Catalog Description	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

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
5. 08/15/18 2:50 pm Brittany Parnell (ershenb): Approved for CCC Meeting Agenda

6. 08/15/18 3:24 pm
   Stephen Raper
   (sraper):
   Approved for
   Campus Curricula
   Committee Chair

   Preview Bridge

Course Change Request

A deleted record cannot be edited

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Course Deactivation Proposal

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

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

File: 2477.1

Last edit: 08/15/18 2:52 pm

Changes proposed by: tibbettsmg

Requested Effective Change Date	**Spring 2019** ~~08/01/2014~~
Department	Chemistry
Discipline	Chemistry (CHEM)
Course Number	1351
Title	Accelerated General Chemistry
Abbreviated Course Title	Accelerated Gen Chem
Catalog Description	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

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 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
5. 08/15/18 2:52 pm Brittany Parnell (ershenb): Approved for CCC Meeting Agenda

6. 08/15/18 3:24 pm
   Stephen Raper
   (sraper):
   Approved for
   Campus Curricula
   Committee Chair

   Preview Bridge

Course Change Request

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Course Deactivation Proposal

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

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

File: 1338.1

Last edit: 08/15/18 2:53 pm

Changes proposed by: tibbettsmg

Requested Effective Change Date	**Spring 2019** ~~08/01/2014~~
Department	Chemistry
Discipline	Chemistry (CHEM)
Course Number	6310
Title	Principles Of Inorganic Chemistry
Abbreviated Course Title	Prin/Inorganic Chemistry

Catalog Description	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

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 1:44 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
5. 08/15/18 2:53 pm Brittany Parnell (ershenb): Approved for CCC Meeting Agenda

6. 08/15/18 3:24 pm
   Stephen Raper
   (sraper):
   Approved for
   Campus Curricula
   Committee Chair

   Preview Bridge

Course Change Request

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Course Deactivation Proposal

</div>

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

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

File: 130.1

Last edit: 08/15/18 2:54 pm

Changes proposed by: tibbettsmg

Requested Effective Change Date	**Spring 2019** ~~08/01/2014~~
Department	Chemistry
Discipline	Chemistry (CHEM)
Course Number	6311
Title	Principles Of Inorganic Chemistry
Abbreviated Course Title	Prin/Inorganic Chemistry

Catalog Description	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

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 1:44 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
5. 08/15/18 2:54 pm Brittany Parnell (ershenb): Approved for CCC Meeting Agenda

6. 08/15/18 3:24 pm
   Stephen Raper
   (sraper):
   Approved for
   Campus Curricula
   Committee Chair

   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: 08/15/18 2:55 pm

Changes proposed by: tibbettsmg

Requested Effective Change Date	**Spring 2019** ~~08/01/2014~~
Department	Chemistry
Discipline	Chemistry (CHEM)
Course Number	6421
Title	Quantum Chemistry II
Abbreviated Course Title	Quantum Chemistry II

Catalog Description	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

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
5. 08/15/18 2:55 pm Brittany Parnell (ershenb): Approved for CCC Meeting Agenda

6. 08/15/18 3:24 pm
    Stephen Raper
    (sraper):
    Approved for
    Campus Curricula
    Committee Chair

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: 08/15/18 3:00 pm

Changes proposed by: tibbettsmg

Requested Effective Change Date	**Spring 2019** ~~08/01/2014~~
Department	Chemistry
Discipline	Chemistry (CHEM)
Course Number	6710
Title	Advanced Nuclear Chemistry
Abbreviated Course Title	Adv Nuclear Chemistry

Catalog Description	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

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
5. 08/15/18 3:00 pm Brittany Parnell (ershenb): Approved for CCC Meeting Agenda

6. 08/15/18 3:24 pm
   Stephen Raper
   (sraper):
   Approved for
   Campus Curricula
   Committee Chair

Preview Bridge

Course Change Request

A deleted record cannot be edited

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

Viewing: **CHEM 6830 : Inorganic Polymers**

File: 2426.1

Last edit: 08/15/18 3:07 pm

Changes proposed by: tibbettsmg

Requested Effective Change Date	**Spring 2019** ~~08/01/2014~~
Department	Chemistry
Discipline	Chemistry (CHEM)
Course Number	6830
Title	Inorganic Polymers
Abbreviated Course Title	Inorganic Polymers

Catalog Description	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

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
5. 08/15/18 3:08 pm Brittany Parnell (ershenb): Approved for CCC Meeting Agenda

6. 08/15/18 3:24 pm
   Stephen Raper
   (sraper):
   Approved for
   Campus Curricula
   Committee Chair

   Preview Bridge

Course Change Request

A deleted record cannot be edited

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Course Deactivation Proposal

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

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

File: 482.1

Last edit: 08/15/18 3:09 pm

Changes proposed by: tibbettsmg

Other Courses referencing this course	In The Catalog Description: CHEM 5250 : Industrial Chemical Processes
Requested Effective Change Date	**Spring 2019** ~~08/01/2014~~
Department	Chemical and Biochemical Engineering
Discipline	Chemical Engineering (CHEM ENG)
Course Number	5096
Title	Industrial Chemical Processes
Abbreviated Course Title	Industrial Chem Process

Catalog Description

  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				

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

Justification for change:	Brittany Parnell (ershenb):
Elimination of courses not taught in 10 or more years per Registrar.	Approved for Pending CCC Agenda post
Semesters previously offered as an experimental course	5. 08/15/18 3:09 pm Brittany Parnell (ershenb): Approved for CCC Meeting Agenda
Co-Listed Courses:	6. 08/15/18 3:24 pm Stephen Raper (sraper):
CHEM 5250 - Industrial Chemical Processes	Approved for Campus Curricula Committee Chair
Course Reviewer Comments	

Key: 482

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: 08/15/18 3:09 pm

Changes proposed by: tibbettsmg

Requested Effective Change Date	**Spring 2019** 08/01/2014
Department	Chemical and Biochemical Engineering
Discipline	Chemical Engineering (CHEM ENG)
Course Number	5097
Title	Intermediate Process Design
Abbreviated Course Title	Intermediate Process Dsg

Catalog Description	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

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
5. 08/15/18 3:10 pm Brittany Parnell (ershenb):

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: 08/15/18 3:10 pm

Changes proposed by: tibbettsmg

Requested Effective Change Date	**Spring 2019** ~~08/01/2014~~
Department	Chemical and Biochemical Engineering
Discipline	Chemical Engineering (CHEM ENG)
Course Number	5160
Title	Introduction to Molecular Modeling and Simulation
Abbreviated Course Title	Intro Molecular Modeling

Catalog Description

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:

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

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

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

5. 08/15/18 3:10 pm Brittany Parnell (ershenb): Approved for CCC Meeting Agenda

6. 08/15/18 3:24 pm Stephen Raper (sraper): Approved for Campus Curricula Committee Chair

Preview Bridge

Course Change Request

A deleted record cannot be edited

<div style="text-align:center; color:#8B0000;">Course Deactivation Proposal</div>

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

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

File: 1023.1

Last edit: 08/15/18 3:10 pm

Changes proposed by: tibbettsmg

Requested Effective Change Date	**Spring 2019** 08/01/2014
Department	Chemical and Biochemical Engineering
Discipline	Chemical Engineering (CHEM ENG)
Course Number	5180
Title	Industrial Pollution Control
Abbreviated Course Title	Ind Pollution Control

Catalog Description	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

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
5. 08/15/18 3:10 pm Brittany Parnell (ershenb):

Approved for CCC
Meeting Agenda

6. 08/15/18 3:24 pm
Stephen Raper
(sraper):
Approved for
Campus Curricula
Committee Chair

Preview Bridge

Course Change Request

A deleted record cannot be edited

<div align="center">**Course Deactivation Proposal**</div>

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: 08/15/18 3:11 pm

Changes proposed by: tibbettsmg

Requested Effective Change Date	**Spring 2019** ~~Fall 2016~~
Department	Chemical and Biochemical Engineering
Discipline	Chemical Engineering (CHEM ENG)
Course Number	5230
Title	Bioprocess Safety
Abbreviated Course Title	Bioprocess Safety

Catalog Description	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 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: 4253

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
5. 08/15/18 3:11 pm Brittany Parnell (ershenb):

Approved for CCC
Meeting Agenda
6. 08/15/18 3:24 pm
Stephen Raper
(sraper):
Approved for
Campus Curricula
Committee Chair

History

1. May 24, 2016 by
marlene

Preview Bridge

Course Change Request

A deleted record cannot be edited

<div style="text-align:center">**Course Deactivation Proposal**</div>

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

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

File: 1382.1

Last edit: 08/15/18 3:12 pm

Changes proposed by: tibbettsmg

Requested Effective Change Date	**Spring 2019** ~~08/01/2014~~
Department	Chemical and Biochemical Engineering
Discipline	Chemical Engineering (CHEM ENG)
Course Number	5360
Title	Pollution Prevention Via Process Engineering
Abbreviated Course Title	Pollut Prev Via Proc Eng

Catalog Description	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

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
5. 08/15/18 3:12 pm Brittany Parnell (ershenb):

Course Change Request

A deleted record cannot be edited

<div align="center">

Course Deactivation Proposal

</div>

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

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

File: 415.1

Last edit: 08/15/18 3:12 pm

Changes proposed by: tibbettsmg

Programs referencing this course	PROPOSED: Undergraduate Certificate in Automation Engineering
Requested Effective Change Date	**Spring 2019** ~~08/01/2014~~
Department	Chemical and Biochemical Engineering
Discipline	Chemical Engineering (CHEM ENG)
Course Number	5370
Title	Intermediate Process Dynamics And Control
Abbreviated Course Title	Int Process Control
Catalog Description	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

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

7. 08/15/18 3:12 pm Brittany Parnell (ershenb): Approved for CCC Meeting Agenda

8. 08/15/18 3:24 pm Stephen Raper (sraper): Approved for Campus Curricula Committee Chair

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: 08/15/18 3:13 pm

Changes proposed by: tibbettsmg

Requested Effective Change Date	**Spring 2019** ~~08/01/2014~~
Department	Chemical and Biochemical Engineering
Discipline	Chemical Engineering (CHEM ENG)
Course Number	5380
Title	Intermediate Separation Processes
Abbreviated Course Title	Int Separation Processes

Catalog Description	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

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
5. 08/15/18 3:13 pm Brittany Parnell (ershenb):

Approved for CCC
Meeting Agenda

6. 08/15/18 3:24 pm
Stephen Raper
(sraper):
Approved for
Campus Curricula
Committee Chair

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: 08/15/18 3:13 pm

Changes proposed by: tibbettsmg

Requested Effective Change Date	**Spring 2019** ~~08/01/2014~~
Department	Chemical and Biochemical Engineering
Discipline	Chemical Engineering (CHEM ENG)
Course Number	6130
Title	Advanced Chemical Reactor Design
Abbreviated Course Title	Adv Chemical Reactor Dsg

Catalog Description	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

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
5. 08/15/18 3:13 pm Brittany Parnell (ershenb):

Course Change Request

A deleted record cannot be edited

<div align="center">**Course Deactivation Proposal**</div>

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

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

File: 2031.1

Last edit: 08/15/18 3:13 pm

Changes proposed by: tibbettsmg

Requested Effective Change Date	**Spring 2019** ~~08/01/2014~~
Department	Chemical and Biochemical Engineering
Discipline	Chemical Engineering (CHEM ENG)
Course Number	6160
Title	Advanced Chemical Process Design
Abbreviated Course Title	Adv Chemical Proc Dsgn

Catalog Description	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

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
5. 08/15/18 3:14 pm Brittany Parnell (ershenb):

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: 08/15/18 3:14 pm

Changes proposed by: tibbettsmg

Requested Effective Change Date	**Spring 2019** ~~08/01/2014~~
Department	Chemical and Biochemical Engineering
Discipline	Chemical Engineering (CHEM ENG)
Course Number	6170
Title	Advanced Fluid Flow
Abbreviated Course Title	Advanced Fluid Flow

Catalog Description	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

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
5. 08/15/18 3:15 pm Brittany Parnell (ershenb):

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: 08/15/18 3:15 pm

Changes proposed by: tibbettsmg

Requested Effective Change Date	**Spring 2019** ~~08/01/2014~~
Department	Chemical and Biochemical Engineering
Discipline	Chemical Engineering (CHEM ENG)
Course Number	6320
Title	Plasma Polymerization
Abbreviated Course Title	Plasma Polymerization

Catalog Description	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

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
5. 08/15/18 3:15 pm Brittany Parnell (ershenb):

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: 08/15/18 4:00 pm

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 Effective Change Date: **Spring 2019** ~~08/01/2014~~

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

Catalog Description: 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

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
5. 08/15/18 4:00 pm Brittany Parnell (ershenb):

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

Approved for CCC
Meeting Agenda
6. 08/16/18 8:31 am
Stephen Raper
(sraper):
Approved for
Campus Curricula
Committee Chair

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: 08/15/18 4:00 pm

Changes proposed by: tibbettsmg

Other Courses referencing this course	In The Catalog Description: COMP SCI 6403 : Advanced Topics in Robotics
Requested Effective Change Date	**Spring 2019** ~~08/01/2014~~
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

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				

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

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

4. 07/31/18 10:30
   am
   Brittany Parnell
   (ershenb):
   Approved for
   Pending CCC
   Agenda post
5. 08/15/18 4:01 pm
   Brittany Parnell
   (ershenb):
   Approved for CCC
   Meeting Agenda
6. 08/16/18 8:31 am
   Stephen Raper
   (sraper):
   Approved for
   Campus Curricula
   Committee Chair

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: 08/15/18 4:01 pm

Changes proposed by: tibbettsmg

Requested Effective Change Date	**Spring 2019** ~~08/01/2014~~
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	

Key: 2551

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
5. 08/15/18 4:01 pm
   Brittany Parnell (ershenb):

Approved for CCC
Meeting Agenda
6. 08/16/18 8:31 am
   Stephen Raper
   (sraper):
   Approved for
   Campus Curricula
   Committee Chair

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: 08/15/18 4:01 pm

Changes proposed by: tibbettsmg

Other Courses referencing this course	In The Catalog Description: COMP SCI 6403 : Advanced Topics in Robotics
Requested Effective Change Date	**Spring 2019** ~~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
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	

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 10:10 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
5. 08/15/18 4:01 pm
   Brittany Parnell (ershenb):

Key: 168

Approved for CCC Meeting Agenda

6. 08/16/18 8:31 am
Stephen Raper (sraper):
Approved for Campus Curricula Committee Chair

Preview Bridge

Course Change Request

A deleted record cannot be edited

<div align="center">

Course Deactivation Proposal
</div>

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

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

File: 2297.1

Last edit: 08/15/18 4:02 pm

Changes proposed by: tibbettsmg

Catalog Pages referencing this course	Civil, Architectural, and Environmental Engineering Manufacturing Engineering
Requested Effective Change Date	**Spring 2019** ~~08/01/2014~~
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	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	

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
5. 08/15/18 4:02 pm Brittany Parnell (ershenb):

Key: 2297

Approved for CCC
Meeting Agenda
6. 08/16/18 8:32 am
Stephen Raper
(sraper):
Approved for
Campus Curricula
Committee Chair

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: 08/15/18 4:03 pm

Changes proposed by: tibbettsmg

Requested Effective Change Date	**Spring 2019** ~~08/01/2014~~
Department	Engineering Management and Systems Engineering
Discipline	Engineering Management (ENG MGT)
Course Number	5413
Title	Introduction To Intelligent Systems
Abbreviated Course Title	Intro To Intelligent Sys
Catalog Description	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

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
5. 08/15/18 4:03 pm Brittany Parnell (ershenb): Approved for CCC Meeting Agenda

6. 08/16/18 8:32 am
   Stephen Raper
   (sraper):
   Approved for
   Campus Curricula
   Committee Chair

   Preview Bridge

Course Change Request

A deleted record cannot be edited

<div align="center">

Course Deactivation Proposal

</div>

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

Viewing: **ENG MGT 6311 : Advanced Manufacturing Systems Integration**

File: 1275.1

Last edit: 08/15/18 4:04 pm

Changes proposed by: tibbettsmg

Requested Effective Change Date	**Spring 2019** ~~08/01/2014~~
Department	Engineering Management and Systems Engineering
Discipline	Engineering Management (ENG MGT)
Course Number	6311
Title	Advanced Manufacturing Systems Integration
Abbreviated Course Title	Adv Manufact Sys Integra
Catalog Description	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

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
5. 08/15/18 4:04 pm
   Brittany Parnell (ershenb):
   Approved for CCC Meeting Agenda

6. 08/16/18 8:32 am
   Stephen Raper
   (sraper):
   Approved for
   Campus Curricula
   Committee Chair

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: 08/15/18 4:04 pm

Changes proposed by: tibbettsmg

Requested Effective Change Date	**Spring 2019** ~~08/01/2014~~
Department	History and Political Science
Discipline	History (HISTORY)
Course Number	2210
Title	European Diplomatic History 1814 - Present
Abbreviated Course Title	Eur Dip Hist 1814 - Pres
Catalog Description	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

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
5. 08/15/18 4:04 pm Brittany Parnell (ershenb): Approved for CCC Meeting Agenda

6. 08/16/18 8:32 am
   Stephen Raper
   (sraper):
   Approved for
   Campus Curricula
   Committee Chair

   Preview Bridge

Course Change Request

A deleted record cannot be edited

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Course Deactivation Proposal
</div>

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

Viewing: **HISTORY 3120 : Ancient Greece**

File: 810.1

Last edit: 08/15/18 4:04 pm

Changes proposed by: tibbettsmg

Requested Effective Change Date	**Spring 2019** ~~08/01/2014~~
Department	History and Political Science
Discipline	History (HISTORY)
Course Number	3120
Title	Ancient Greece
Abbreviated Course Title	Ancient Greece

Catalog Description	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

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
5. 08/15/18 4:05 pm Brittany Parnell (ershenb): Approved for CCC Meeting Agenda

6. 08/16/18 8:32 am
   Stephen Raper
   (sraper):
   Approved for
   Campus Curricula
   Committee Chair

   Preview Bridge

Course Change Request

A deleted record cannot be edited

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Course Deactivation Proposal

</div>

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: 08/15/18 4:05 pm

Changes proposed by: tibbettsmg

Requested Effective Change Date	**Spring 2019** ~~08/01/2014~~
Department	History and Political Science
Discipline	History (HISTORY)
Course Number	3450
Title	American Intellectual History II
Abbreviated Course Title	Amer Intellctual Hist II

Catalog Description	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

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
5. 08/15/18 4:05 pm Brittany Parnell (ershenb): Approved for CCC Meeting Agenda

6. 08/16/18 8:32 am
   Stephen Raper
   (sraper):
   Approved for
   Campus Curricula
   Committee Chair

History

1. Apr 25, 2014 by
   lahne (1377.1)

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: 08/15/18 4:06 pm

Changes proposed by: tibbettsmg

Programs referencing this course	CP ENG-BS: Computer 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 Effective Change Date	**Spring 2019** 08/01/2014
Department	Mathematics & Statistics
Discipline	Mathematics (MATH)
Course Number	3103
Title	Matrix Algebra
Abbreviated Course Title	Matrix Algebra
Catalog Description	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	

Approval Path

1. 06/08/18 9:49 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
5. 08/15/18 4:06 pm Brittany Parnell (ershenb): Approved for CCC Meeting Agenda

Co-Listed Courses:		6.	08/16/18 8:32 am Stephen Raper (sraper): Approved for Campus Curricula Committee Chair
Course Reviewer Comments			
	Key: 1585		

Preview Bridge

Course Change Request

A deleted record cannot be edited

<div style="text-align:center">

Course Deactivation Proposal

</div>

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

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

File: 2602.1

Last edit: 08/15/18 4:06 pm

Changes proposed by: tibbettsmg

Requested Effective Change Date	**Spring 2019** ~~08/01/2014~~
Department	Mathematics & Statistics
Discipline	Mathematics (MATH)
Course Number	3329
Title	Elementary Differential Equations And Matrix Algebra
Abbreviated Course Title	Elem Diff Eq & Matr Alge

Catalog Description

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

(ershenb):
Approved for
Pending CCC
Agenda post

5. 08/15/18 4:07 pm
Brittany Parnell
(ershenb):
Approved for CCC
Meeting Agenda

6. 08/16/18 8:32 am
Stephen Raper
(sraper):
Approved for
Campus Curricula
Committee Chair

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: 08/15/18 4:07 pm

Changes proposed by: tibbettsmg

Requested Effective Change Date	**Spring 2019** 08/01/2014
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	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

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
5. 08/15/18 4:08 pm Brittany Parnell (ershenb):

Approved for CCC
Meeting Agenda
6. 08/16/18 8:32 am
Stephen Raper
(sraper):
Approved for
Campus Curricula
Committee Chair

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: 08/15/18 4:08 pm

Changes proposed by: tibbettsmg

Requested Effective Change Date	**Spring 2019** ~~08/01/2014~~
Department	Mathematics & Statistics
Discipline	Mathematics (MATH)
Course Number	6425
Title	Hilbert Space Structures And Methods For Application
Abbreviated Course Title	Hilbert Sp Struc&Ap Meth
Catalog Description	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

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
5. 08/15/18 4:09 pm Brittany Parnell (ershenb): Approved for CCC Meeting Agenda

6. 08/16/18 8:32 am
    Stephen Raper
    (sraper):
    Approved for
    Campus Curricula
    Committee Chair

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: 08/15/18 4:11 pm

Changes proposed by: tibbettsmg

Requested Effective Change Date	**Spring 2019** ~~08/01/2014~~
Department	Mathematics & Statistics
Discipline	Mathematics (MATH)
Course Number	6426
Title	Green'S Function Structures And Methods For Application
Abbreviated Course Title	Greens Funct Strct&Mthds

Catalog Description	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

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
5. 08/15/18 4:13 pm Brittany Parnell (ershenb): Approved for CCC Meeting Agenda

Key: 790

6. 08/16/18 8:32 am
   Stephen Raper
   (sraper):
   Approved for
   Campus Curricula
   Committee Chair

   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: 08/15/18 4:14 pm

Changes proposed by: tibbettsmg

Requested Effective Change Date	**Spring 2019** 08/01/2014
Department	Mathematics & Statistics
Discipline	Mathematics (MATH)
Course Number	6435
Title	Calculus Of Variations I
Abbreviated Course Title	Calc Of Variations I
Catalog Description	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

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
5. 08/15/18 4:14 pm Brittany Parnell (ershenb): Approved for CCC Meeting Agenda

6. 08/16/18 8:32 am
   Stephen Raper
   (sraper):
   Approved for
   Campus Curricula
   Committee Chair

   Preview Bridge

Course Change Request

A deleted record cannot be edited

<div style="text-align:center">

Course Deactivation Proposal
</div>

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

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

File: 2075.1

Last edit: 08/15/18 4:14 pm

Changes proposed by: tibbettsmg

Requested Effective Change Date	**Spring 2019** ~~08/01/2014~~
Department	Mathematics & Statistics
Discipline	Mathematics (MATH)
Course Number	6436
Title	Calculus Of Variations II
Abbreviated Course Title	Calc Of Variations II

Catalog Description	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

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
5. 08/15/18 4:15 pm Brittany Parnell (ershenb): Approved for CCC Meeting Agenda

6. 08/16/18 8:32 am
   Stephen Raper
   (sraper):
   Approved for
   Campus Curricula
   Committee Chair

   Preview Bridge

Course Change Request

A deleted record cannot be edited

<div align="center">

Course Deactivation Proposal

</div>

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

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

File: 1820.1

Last edit: 08/15/18 4:15 pm

Changes proposed by: tibbettsmg

Requested Effective Change Date	**Spring 2019** 08/01/2014
Department	Materials Science & Engineering
Discipline	Metallurgical Engineering (MET ENG)
Course Number	6040
Title	Oral Examination
Abbreviated Course Title	Oral Examination

Catalog Description	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

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
5. 08/15/18 4:15 pm Brittany Parnell (ershenb): Approved for CCC Meeting Agenda

6. 08/16/18 8:32 am
   Stephen Raper
   (sraper):
   Approved for
   Campus Curricula
   Committee Chair

Preview Bridge

Course Change Request

A deleted record cannot be edited

<div align="center">

Course Deactivation Proposal
</div>

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

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

File: 2589.1

Last edit: 08/15/18 4:15 pm

Changes proposed by: tibbettsmg

Requested Effective Change Date	**Spring 2019** 08/01/2014
Department	Materials Science & Engineering
Discipline	Materials Science & Eng (MS&E)
Course Number	6040
Title	Oral Examination
Abbreviated Course Title	Oral Examination
Catalog Description	(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

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
5. 08/15/18 4:16 pm Brittany Parnell (ershenb): Approved for CCC Meeting Agenda

6. 08/16/18 8:32 am
   Stephen Raper
   (sraper):
   Approved for
   Campus Curricula
   Committee Chair

   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: 08/16/18 9:20 am

Changes proposed by: tibbettsmg

Requested Effective Change Date	**Spring 2019** ~~08/01/2014~~
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	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

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
5. 08/16/18 9:20 am Brittany Parnell (ershenb): Approved for CCC Meeting Agenda

6. 08/16/18 9:25 am
   Stephen Raper
   (sraper):
   Approved for
   Campus Curricula
   Committee Chair

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: 08/16/18 9:20 am

Changes proposed by: tibbettsmg

Requested Effective Change Date	**Spring 2019** ~~08/01/2014~~
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	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

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
5. 08/16/18 9:20 am Brittany Parnell (ershenb): Approved for CCC Meeting Agenda

6. 08/16/18 9:26 am
   Stephen Raper
   (sraper):
   Approved for
   Campus Curricula
   Committee Chair

   Preview Bridge

Course Change Request

A deleted record cannot be edited

Course Deactivation Proposal

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

File: 1115.1

Last edit: 08/16/18 9:21 am

Changes proposed by: tibbettsmg

Other Courses referencing this course	In The Prerequisites: BUS 5360 : Business Operations
Requested Effective Change Date	**Spring 2019** ~~08/01/2014~~
Department	Mathematics & Statistics
Discipline	Statistics (STAT)
Course Number	1116
Title	Statistics For The Social Sciences II
Abbreviated Course Title	Stat For Social Sci II
Catalog Description	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

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
5. 08/16/18 9:21 am
   Brittany Parnell (ershenb):

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: 08/16/18 9:21 am

Changes proposed by: tibbettsmg

Requested Effective Change Date	**Spring 2019** ~~08/01/2014~~
Department	Mathematics & Statistics
Discipline	Statistics (STAT)
Course Number	5120
Title	Statistical Methods
Abbreviated Course Title	Statistical Methods

Catalog Description	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

Approved for CCC
Meeting Agenda

6. 08/16/18 9:26 am
Stephen Raper
(sraper):
Approved for
Campus Curricula
Committee Chair

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
5. 08/16/18 9:23 am Brittany Parnell (ershenb): Approved for CCC Meeting Agenda
6. 08/16/18 9:25 am Stephen Raper

(sraper): Approved for Campus Curricula Committee Chair

History

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 1971[9]~~	~~2~~	AERO ENG 2780	2
~~COMP SCI 1980 or 1981[9]~~	~~1~~	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.
~~10~~	~~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
5. 08/16/18 9:23 am Brittany Parnell (ershenb): Approved for CCC Meeting Agenda
6. 08/16/18 9:25 am Stephen Raper (sraper): Approved

for Campus
Curricula
Committee Chair

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
5. 08/16/18 9:24 am Brittany Parnell (ershenb): Approved for CCC Meeting Agenda
6. 08/16/18 9:25 am Stephen Raper (sraper): Approved

for Campus
Curricula
Committee Chair

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

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 Effective Change Date	Spring 2019
Department	Mathematics & Statistics
Discipline	Mathematics (MATH)
Course Number	6001
Topic ID	003
Experimental Title	
	Mathematical Foundation of Finite Element Methods II
Experimental Abbreviated Course Title	Finite Elem Methods II
Instructors	Xiaoming He or Nan Jiang or Daozhi Han
Experimental 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. **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

5. 08/16/18 9:24 am
   Brittany Parnell
   (ershenb):
   Approved for CCC
   Meeting Agenda

6. 08/16/18 9:25 am
   Stephen Raper
   (sraper):
   Approved for
   Campus Curricula
   Committee Chair

7. 08/16/18 10:47
   am
   Marita Tibbetts
   (tibbettsmg):
   Approved for CAT
   entry

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:

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

New Experimental Course Proposal

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

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

File: 4549

Last edit: 08/16/18 9:25 am

Changes proposed by: reflori

Requested Effective Change Date	Fall 2018
Department	Geosciences and Geological and Petroleum Engineering
Discipline	Petroleum Engineering (PET ENG)
Course Number	4001
Topic ID	004
Experimental Title	
	Drilling Automation
Experimental Abbreviated Course Title	Drilling Automation
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

5. 08/16/18 9:25 am
Brittany Parnell (ershenb):
Approved for CCC Meeting Agenda

6. 08/16/18 9:38 am
Stephen Raper (sraper):
Approved for Campus Curricula Committee Chair

7. 08/16/18 10:37 am
Marita Tibbetts (tibbettsmg):
Approved for CAT entry

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

Key: 4549

Preview Bridge