

Minutes of the Campus Curricula Committee Meeting

April 1, 2020

8:15am, Virtual Zoom

(For Faculty Senate Meeting of April 16, 2020)

Attendees: Steve Raper, Petra Dewitt, Katie Shannon, Matt Insall, Cecil Eng Huang Chua, Michael Davis, Kyle Perry, Kristy Giacomelli-Feys and Marita Tibbetts

The following curriculum forms were discussed and approved:

Course Change Forms:

File 4413.5	CER ENG 4410: Introduction to Integrated Computational Materials Engineering
File 2048.1	CHEM ENG 5305: Hazardous Materials Management
File 475.4	COMP ENG 3110: Computer Organization and Design
File 1353.2	COMP ENG 5110: Principles of Computer Architecture
File 848.3	COMP ENG 6110: Advanced Computer Architecture I
File 2051.7	COMP ENG 6220: Design Automation of VLSI Systems
File 1662.1	ENG MGT 6112: Leadership for Engineers
File 1250.3	GEO ENG 5331: Subsurface Hydrology
File 1052.5	GEO ENG 5381: Intermediate Subsurface Hydrology And Contaminant Transport Mechs
File 2063.1	GEOLOGY 4411: Hydrogeology
File 1532.4	MIL AIR 1110: Air Force Heritage and Values I
File 1390.3	MIL AIR 1120: Air Force Heritage and Values II
File 418.4	MIL AIR 2110: Team and Leadership Fundamentals I
File 1092.4	MIL AIR 2120: Team and Leadership Fundamentals II
File 419.3	MIL AIR 3110: Leading People & Effective Communication I
File 1093.3	MIL AIR 3120: Leading People & Effective Communication II
File 420.3	MIL AIR 4110: National Security, Leadership Responsibilities & Commissioning Preparation I
File 748.3	MIL AIR 4120: : National Security, Leadership Responsibilities & Commissioning Preparation II
File: 751.5	MIL ARMY 1250: Leadership and Personal Development
File: 421.5	MIL ARMY 1500: Introduction to Tactical Leadership
File 1734.4	MIL ARMY 2250: Innovative Team Leadership
File 1395.3	MIL ARMY 2500: Foundations of Tactical Leadership
File 1956.1	MIL ARMY 2750: Basic Leadership Laboratory
File 916.4	MUSIC 1130: Wind Symphony
File 4293.4	MUSIC 1131: Marching Band
File 1780.1	MUSIC 1132: University Orchestra



Certificate Forms:

File: 349

PROPOSED: BioInnovation CTU

Degree Change Forms:

File 147.17

BIO SCI-BS: Biological Sciences BS

File 123.6

PRE-MED-MI: Pre-Medicine Minor

File: 135.13

TCH COM-MS: Technical Communications MS

Experimental Course forms:

File: 4689

BIO SCI 4001.007: Freshwater Ecology Laboratory

File 4687

CHEM ENG 5001.011: Chemical Engineering Instrumentation using Microcontrollers

File 4688

CHEM ENG 5001.012: Senior Assessment Review

File 4697

COMP ENG 6001.001: Adaptive Resonance Theory and Applications

File: 4692

ELEC ENG 5001.007: Process Control System Safety, Security and Alarms

New Business:

Grad Track information was brought up to the committee regarding the committee's response to the need of the committee's vote and approval. Item will be brought to Faculty Senate outside of this committee and we will move forward based on that decision.

The meeting adjourned at 9:00am.

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

Course Change Request

Date Submitted: 03/05/20 2:05 pm

Viewing: **CER ENG 4410 : Introduction to Integrated Computational Materials Engineering**

File: 4413.5

Last approved: 06/26/17 3:15 am

Last edit: 03/05/20 2:05 pm

Changes proposed by: smiller

Programs
referencing this
course

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

Requested **Fall 2020 08/14/2017**

Effective Change

Date

Department

Materials Science & Engineering

Discipline

Ceramic Engineering (CER ENG)

Course Number 4410

Title

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. 03/05/20 3:38 pm
Greg Hilmas (ghilmas):
Approved for
RMATSENG Chair
2. 03/05/20 4:22 pm
Kristy Giacomelli-Feys (kristyg):

	<p>Approved for CCC Secretary</p>
	<p>3. 03/12/20 12:16 pm</p>
	<p>pm</p>
	<p>Stephen Raper (sraper):</p>
	<p>Approved for Engineering DSCC Chair</p>
	<p>4. 03/12/20 12:55 pm</p>
	<p>Kristy Giacomelli-Feys (kristyg):</p>
	<p>Approved for Pending CCC Agenda post</p>
	<p>5. 04/02/20 9:06 am</p>
	<p>Kristy Giacomelli-Feys (kristyg):</p>
	<p>Approved for CCC Meeting Agenda</p>
	<p>6. 04/02/20 10:08 am</p>
	<p>Stephen Raper (sraper):</p>
	<p>Approved for Campus Curricula Committee Chair</p>
	<p></p>
	<p>History</p>
	<p>1. Jun 26, 2017 by F. Scott Miller (smiller)</p>

Introduction to Integrated Computational Materials Engineering

Abbreviated Intro to ICME

Course Title

Catalog

Description

This course will provide an introduction to different computational tools for studying materials at different length scales. Several atomistic, microscale, and continuum models will be introduced and bridging between different modeling scales will be discussed. This course has a computational laboratory to build models and run simulations.

Prerequisites

A grade of "C" or better in both Cer Eng ~~3230~~ ~~3220~~ and Math 3304, and in either Cer Eng 2110 or Met Eng 2110.

Field Trip

Statement

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

Total: 3

Required for Yes

Majors

Elective for No

Majors

Justification for
change:

Typo in Prerequisites, should state Cer Eng 3230, not 3220.

Semesters

previously

offered as an

experimental

course

Spring semester of 2013, 2014, and 2015 (as MSE 5001)

Co-Listed

Courses:

Course Reviewer
Comments

Key: 4413

[Preview Bridge](#)

Course Change Request

Date Submitted: 03/04/20 10:56 am

Viewing: **CHEM ENG 5305 : Hazardous Materials Management**

File: 2048.1

Last edit: 03/04/20 10:56 am

Changes proposed by: luksc

Programs
referencing this
course

[SFTYENG-CT: Safety Engineering](#)

Requested **Fall 2020 08/01/2014**

Effective Change

Date

Department

Chemical and Biochemical Engineering

Discipline

Chemical Engineering (CHEM ENG)

Course Number 5305

Title

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. 03/04/20 12:03 pm
Joseph Smith (smithjose):
Approved for RCHEMENG Chair
2. 03/05/20 10:29 am

Kristy Giacomelli-
Feys (kristyg):
Approved for CCC
Secretary

3. 03/12/20 12:17
pm

Stephen Raper
(sraper):
Approved for
Engineering DSCC
Chair

4. 03/12/20 12:56
pm

Kristy Giacomelli-
Feys (kristyg):
Approved for
Pending CCC
Agenda post

5. 04/02/20 9:06 am

Kristy Giacomelli-
Feys (kristyg):
Approved for CCC
Meeting Agenda

6. 04/02/20 10:08
am

Stephen Raper
(sraper):
Approved for
Campus Curricula
Committee Chair

Hazardous Materials Management

Hazardous Materials Mgt

Abbreviated

Course Title

Catalog

Description

Major themes: hazard identification and characterization; safety, health and environmental management; and the protection of safety, health and environment. Students will have an understanding of work place and environmental hazards in order to be able to facilitate their management and control. The course will include an intensive 30 hour hands-on **workshop** ~~workshop~~.

Prerequisites

Chem Eng **3131** ~~3130~~ or graduate standing.

Field Trip

Statement

Credit Hours

LEC: **0** ~~2~~

LAB: 1

IND: 0

RSD: 0

Total: **1** ~~3~~

Required for

No

Majors

Elective for

Yes ~~No~~

Majors

Justification for
change:

The lecture material is currently being taught in other required courses. The lab portion is a 30 hour hands-on workshop in coordination with industry.

Semesters

previously

offered as an

experimental

course

Last taught as a 3-credit course in 2010

Co-Listed

Courses:

Course Reviewer
Comments

Key: 2048

[Preview Bridge](#)

Course Change Request

Date Submitted: 01/14/20 12:32 pm

Viewing: **COMP ENG 3110 : Computer Organization and Design**

File: 475.4

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

Last edit: 01/16/20 1:37 pm

Changes proposed by: stanleyj

Programs

referencing this
course

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

[CP ENG-MI: Computer Engineering Minor](#)

Other Courses

referencing this
course

In The Prerequisites:

[COMP ENG 4096 : Computer Engineering Senior Project I](#)

[COMP ENG 5110 : Principles of Computer Architecture](#)

Requested **Fall 2020 08/01/2014**

Effective Change
Date

Department
Electrical and Computer Engineering

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. 01/14/20 7:25 pm
Daryl Beetner
(daryl): Approved
for RELECENG
Chair
2. 01/16/20 1:37 pm
Brittany Parnell
(ershenb):

Discipline
Computer Engineering (COMP ENG)

Course Number 3110

Title

Approved for CCC
Secretary

3. 02/26/20 12:09
pm

Stephen Raper
(sraper):

Approved for
Engineering DSCC
Chair

4. 03/03/20 2:13 pm

Kristy Giacomelli-
Feys (kristyg):

Approved for
Pending CCC
Agenda post

5. 04/02/20 9:06 am

Kristy Giacomelli-
Feys (kristyg):

Approved for CCC
Meeting Agenda

6. 04/02/20 10:08
am

Stephen Raper
(sraper):

Approved for
Campus Curricula
Committee Chair

History

1. Jun 30, 2014 by
stanleyj (475.1)

Abbreviated Computer Org and Design
Course Title

Catalog

Description

Introduction to basic concepts of computer organization and design: metrics for computer performance, computer arithmetic, Von Neumann architecture, instruction implementation, control unit, pipelining, memory systems hierarchy, cache memories and basic I/O controllers.

Prerequisites

Comp Eng ~~COMP-ENG~~ 2210; preceded or accompanied by **Comp Eng** ~~COMP-ENG~~ 3150.

Field Trip

Statement

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

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

Comp Eng 3110 is a required course for Computer Engineering majors. Comp Sci 3803 - Computer Organization is an elective course for Computer Science majors. These courses have similar related content that covers necessary topics and content to satisfy the computer organization requirement for Computer Engineering majors. Cross-listing these courses will provide Computer Engineering and Computer Science students with a much needed additional option in computer organization that can be used in their degree programs.

Semesters
previously
offered as an
experimental
course

Co-Listed

Courses:

COMP SCI 3803 - Computer Organization

Course Reviewer

Comments

Key: 475

[Preview Bridge](#)

Course Change Request

Date Submitted: 01/14/20 12:13 pm

Viewing: **COMP ENG 5110 : Principles of Computer Architecture**

File: 1353.2

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

Last edit: 01/16/20 1:38 pm

Changes proposed by: stanleyj

Programs
referencing this
course

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

Other Courses
referencing this
course

In The Prerequisites:

[COMP ENG 5130 : Advanced Microcomputer System Design](#)

[COMP ENG 5151 : Digital Systems Design Laboratory](#)

[COMP ENG 6110 : Advanced Computer Architecture I](#)

Requested **Fall 2020 08/01/2014**

Effective Change

Date

Department

Electrical and Computer Engineering

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. 01/14/20 7:25 pm
Daryl Beetner
(daryl): Approved
for RELECENG
Chair
2. 01/16/20 1:39 pm
Brittany Parnell
(ershenb):

Discipline
Computer Engineering (COMP ENG)

Course Number 5110

Title

Approved for CCC
Secretary

3. 02/26/20 12:09
pm

Stephen Raper
(sraper):

Approved for
Engineering DSCC
Chair

4. 03/03/20 2:14 pm

Kristy Giacomelli-
Feys (kristyg):

Approved for
Pending CCC
Agenda post

5. 04/02/20 9:06 am

Kristy Giacomelli-
Feys (kristyg):

Approved for CCC
Meeting Agenda

6. 04/02/20 10:08
am

Stephen Raper
(sraper):

Approved for
Campus Curricula
Committee Chair

History

1. May 24, 2016 by
kleb6b (1353.1)

Abbreviated Principles of Comp Arch
Course Title

Catalog

Description

Principles of performance measurement and instruction set design; advanced issues in pipelining; instruction level parallelism (dynamic scheduling, branch prediction, multi-issue processors); memory hierarchies for superscalar processors; multiprocessors; multi-threading; storage systems; and interconnection networks.

Prerequisites

Comp Eng 3110.

Field Trip

Statement

Credit Hours

LEC: 3

LAB: 0

IND: 0

RSD: 0

Total: 3

Required for

No

Majors

Elective for

Yes ~~No~~

Majors

Justification for
change:

Comp Eng 5110 - Principles of Computer Architecture and Comp Sci 5803 - Introduction to High Performance Computer Architecture are both 3 credit hour courses with similar related content. Undergraduate Computer Engineering and Computer Science students will benefit with needed additional options for upper level elective courses. Graduate Computer Engineering and Computer Science students will benefit with needed additional course options to satisfy their degree program requirements.

Semesters
previously

offered as an
experimental
course

Co-Listed

Courses:

COMP SCI 5803 - Introduction to High Performance Computer Architecture

Course Reviewer

Comments

Key: 1353

[Preview Bridge](#)

Course Change Request

Date Submitted: 01/14/20 12:20 pm

Viewing: **COMP ENG 6110 : Advanced**

Computer Architecture I

File: 848.3

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

Last edit: 01/16/20 1:40 pm

Changes proposed by: stanleyj

Other Courses
referencing this
course

In The Prerequisites:

[COMP ENG 6120 : Advanced Computer Architecture II](#)

Requested **Fall 2020 08/01/2014**

Effective Change

Date

Department

Electrical and Computer Engineering

Discipline

Computer Engineering (COMP ENG)

Course Number 6110

Title

In Workflow

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

Approval Path

1. 01/14/20 7:25 pm
Daryl Beetner
(daryl): Approved
for RELECENG
Chair
2. 01/16/20 1:41 pm
Brittany Parnell
(ershenb):

Approved for CCC
Secretary

3. 02/26/20 12:09
pm

Stephen Raper
(sraper):

Approved for
Engineering DSCC
Chair

4. 03/03/20 2:15 pm

Kristy Giacomelli-
Feys (kristyg):

Approved for
Pending CCC
Agenda post

5. 04/02/20 9:06 am

Kristy Giacomelli-
Feys (kristyg):

Approved for CCC
Meeting Agenda

6. 04/02/20 10:08
am

Stephen Raper
(sraper):

Approved for
Campus Curricula
Committee Chair

History

1. May 24, 2016 by
kleb6b (848.1)

Abbreviated Adv **Comp Computer**

Course Title Architect I

Catalog

Description

Advanced topics in computer structures, parallel processors, and computer networks. Emphasis on their design, applications, and performance.

Prerequisites

Comp Eng 5110 or Comp Eng 5120.

Field Trip

Statement

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

Total: 3

Required for No

Majors

Elective for No

Majors

Justification for

change:

Comp Eng 6110 and Comp Sci 6801 –Topics in Parallel and Distributed Computing are both 3 credit hour courses with similar related content. Graduate Computer Engineering and Computer Science students will benefit with needed additional course options to satisfy their degree program requirements.

Semesters

previously

offered as an

experimental

course

Co-Listed

Courses:

COMP SCI 6801 - Topics in Parallel and Distributed Computing

Course Reviewer
Comments

Key: 848

[Preview Bridge](#)

Course Change Request

A deleted record cannot be edited

Course Deactivation Proposal

Date Submitted: 01/21/20 9:05 am

Viewing: **COMP ENG 6220 : Design**

Automation of VLSI Systems

File: 2051.7

Last approved: 07/07/14 3:48 am

Last edit: 01/21/20 9:05 am

Changes proposed by: stanleyj

Requested **Fall 2020 08/01/2014**

Effective Change

Date

Department

Electrical and Computer Engineering

Discipline

Computer Engineering (COMP ENG)

Course Number 6220

Title

In Workflow

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

Approval Path

1. 01/16/20 2:40 pm
Daryl Beetner
(daryl): Approved for RELECENG Chair
2. 01/21/20 7:59 am
Brittany Parnell

(ershenb):

Rollback to
Initiator

3. 02/20/20 7:45 pm

Daryl Beetner

(daryl): Approved
for RELECENG

Chair

4. 02/24/20 12:56

pm

Kristy Giacomelli-

Feys (kristyg):

Approved for CCC
Secretary

5. 02/26/20 12:10

pm

Stephen Raper

(sraper):

Approved for

Engineering DSCC

Chair

6. 03/03/20 2:17 pm

Kristy Giacomelli-

Feys (kristyg):

Approved for

Pending CCC

Agenda post

7. 04/02/20 9:32 am

Kristy Giacomelli-

Feys (kristyg):

Approved for CCC

Meeting Agenda

8. 04/02/20 10:08 am
Stephen Raper
(sraper):
Approved for
Campus Curricula
Committee Chair

History

1. Jul 7, 2014 by stanleyj (2051.1)

Design Automation of VLSI Systems

Abbreviated Design Automation of VLSI
Course Title Syst

Catalog

Description

A state-of-the-art survey of advanced VLSI design techniques, including ultra-low-voltage designs, asynchronous computing, microfluidic chips, three-dimensional integration and other More-than-Moore technologies.

Prerequisites

COMP ENG 5210.

Field Trip

Statement

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

Total: 3

Required for No

Majors

Elective for No

Majors

Justification for
change:

Remove course from graduate catalog. This course has not been offered for some time. There is no current instructor to move forward with this course.

This course has not been offered for some time, and there is no faculty member currently able to offer the course in future semesters.

Semesters

previously
offered as an
experimental
course

Co-Listed

Courses:

Course Reviewer

Comments

ershenb (01/21/20 7:59 am): Rollback: Per email with Dr. Stanley (course deactivation)

Key: 2051

[Preview Bridge](#)

Course Change Request

Date Submitted: 01/17/20 2:35 pm

Viewing: **ENG MGT 6112 : Leadership for Engineers**

File: 1662.1

Last edit: 01/21/20 9:47 am

Changes proposed by: cornss

Other Courses
referencing this
course

In The Catalog Description:

[PSYCH 6611 : Leadership for Engineers](#)

Requested **Fall 2020 08/01/2014**

Effective Change

Date

Department

Engineering Management and Systems Engineering

Discipline

Engineering Management (ENG MGT)

Course Number 6112

Title

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. 01/17/20 3:23 pm
Suzanna Long
(longsuz):
Approved for
RENGMNGT Chair
2. 01/21/20 9:48 am
Brittany Parnell

(ershenb):
Approved for CCC
Secretary

3. 02/26/20 12:09
pm

Stephen Raper
(sraper):
Approved for
Engineering DSCC
Chair

4. 03/03/20 2:18 pm

Kristy Giacomelli-
Feys (kristyg):
Approved for
Pending CCC
Agenda post

5. 04/02/20 9:06 am

Kristy Giacomelli-
Feys (kristyg):
Approved for CCC
Meeting Agenda

6. 04/02/20 10:08
am

Stephen Raper
(sraper):
Approved for
Campus Curricula
Committee Chair

Leadership for Engineers

Abbreviated Course Title Leadership for Engineers

Catalog

Description

Provides engineers with a background in leadership concepts and principles; enables students to develop practical skills in leading and managing through multiple personal assessment. Topics include leadership styles, managing commitments, conflict resolution, change management, emotional intelligence, team dynamics and business ethics.

Prerequisites

Eng Mgt **5110**. ~~5110 or Psych 4602.~~

Field Trip

Statement

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

Required for	No
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Majors

Elective for	No
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Majors

Justification for
change:

Needs of Psychology Department have changed

Semesters

previously
offered as an
experimental
course

Co-Listed

Courses:

~~PSYCH 6611 - Leadership for Engineers~~

Course Reviewer

Comments

Course Change Request

Date Submitted: 02/25/20 2:35 pm

Viewing: **GEO ENG 5331 : Subsurface**

Hydrology

File: 1250.3

Last approved: 06/20/18 3:40 am

Last edit: 04/02/20 9:07 am

Changes proposed by: grotekr

Programs

referencing this
course

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

[HUM ENG-MI: Humanitarian Engineering and Science Minor](#)

[GEO ENG-MS: GEOLOGICAL ENGINEERING MS](#)

[PROPOSED: Geoenvironmental Science and Engineering CT](#)

[PROPOSED: Subsurface Water Resources](#)

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

[GE ENG-MI: Geological Engineering Minor](#)

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

Other Courses

referencing this
course

In The Prerequisites:

[GEO ENG 5239 : Groundwater Remediation](#)

[GEO ENG 5320 : Groundwater Modeling](#)

[GEO ENG 5381 : Intermediate Subsurface Hydrology And](#)

In Workflow

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

Approval Path

1. 02/25/20 3:40 pm
David Borrok (borrokd):
Approved for
RGEOSENG Chair
2. 03/05/20 10:29 am
Kristy Giacomelli-

Contaminant Transport Mechs

GEO ENG 6331 : Advanced Subsurface Hydrology

GEO ENG 6332 : Numerical Methods In Subsurface Flow

Requested **Fall 2020** ~~Spring 2019~~

Effective Change

Date

Department

Geosciences and Geological and Petroleum
Engineering

Discipline

Geological Engineering (GEO ENG)

Course Number 5331

Title

Feys (kristyg):

Approved for CCC
Secretary

3. 03/12/20 12:17
pm

Stephen Raper
(sraper):

Approved for
Engineering DSCC
Chair

4. 03/12/20 12:57
pm

Kristy Giacomelli-
Feys (kristyg):

Approved for
Pending CCC
Agenda post

5. 04/02/20 9:06 am
Kristy Giacomelli-
Feys (kristyg):

Approved for CCC
Meeting Agenda

6. 04/02/20 10:08
am

Stephen Raper
(sraper):

Approved for
Campus Curricula
Committee Chair

History

1. Jun 20, 2018 by
grotekr (1250.1)

Subsurface Hydrology

Abbreviated Subsurface Hydrology

Course Title

Catalog

Description

Introduction to the theory and engineering concepts of the movement of subsurface fluids. Hydraulic characteristics of earth materials, aquifer characterization, and flow prediction. Engineering problems related to subsurface fluids.

Prerequisites

Geo Eng 1150 or equivalent, Math 1215.

Field Trip

Statement

Credit Hours LEC: **2**~~3~~ LAB: **1**~~0~~ IND: 0 RSD: 0

Total: 3

Required for Yes

Majors

Elective for No

Majors

Justification for

change:

Course material includes a significant hands-on component (field work, laboratory analysis, computer modeling) that is best delivered in a laboratory format. The department has recently acquired new facilities that allow field and lab exercises to be incorporated into the course and new software to process data acquired during the lab.

Semesters

previously

offered as an

experimental

course

Co-Listed

Courses:

Course Reviewer

Comments

Key: 1250

[Preview Bridge](#)

Course Change Request

Date Submitted: 02/25/20 4:36 pm

Viewing: **GEO ENG 5381 : Intermediate
Subsurface Hydrology And Contaminant
Transport Mechs**

File: 1052.5

Last approved: 06/20/19 3:39 am

Last edit: 04/02/20 9:08 am

Changes proposed by: grotekr

Programs

referencing this
course

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

[GEO ENG-MS: GEOLOGICAL ENGINEERING MS](#)

[PROPOSED: Geoenvironmental Science and Engineering CT](#)

[PROPOSED: Subsurface Water Resources](#)

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

[GEOT-ME: Geotechnics ME](#)

Requested **Fall Spring** 2020

Effective Change

Date

Department

Geosciences and Geological and Petroleum
Engineering

In Workflow

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

Approval Path

1. 02/25/20 4:37 pm
David Borrok
(borrokd):
Approved for
RGEOSENG Chair
2. 03/03/20 1:53 pm
Kristy Giacomelli-
Feys (kristyg):

Discipline

Geological Engineering (GEO ENG)

Course Number 5381

Title

Approved for CCC
Secretary

3. 03/12/20 12:19
pm

Stephen Raper
(sraper):

Approved for
Engineering DSCC
Chair

4. 03/12/20 12:59
pm

Kristy Giacomelli-
Feys (kristyg):

Approved for
Pending CCC
Agenda post

5. 04/02/20 9:06 am

Kristy Giacomelli-
Feys (kristyg):

Approved for CCC
Meeting Agenda

6. 04/02/20 10:09
am

Stephen Raper
(sraper):

Approved for
Campus Curricula
Committee Chair

History

1. Jun 20, 2019 by
grotekr (1052.1)

Intermediate Subsurface Hydrology And Contaminant Transport Mechs

Abbreviated Int Subsurface Hydrology

Course Title

Catalog

Description

A study of the physical/chemical properties of rocks and sediments in the subsurface environment. Emphasis is put on waterrock properties such as permeability, capillarity, and mechanical dispersion. Both microscopic and macroscopic approaches are used.

Prerequisites

Geo Eng 5331, Geo Eng 5332, or Geol 4411.

Field Trip

Statement

Credit Hours LEC: ~~2~~3 LAB: ~~1~~0 IND: 0 RSD: 0

Total: 3

Required for No

Majors

Elective for Yes

Majors

Justification for
change:

Course material includes a significant hands-on component (computer modeling, data analysis, field work) that is best delivered in a laboratory format. The department has recently acquired new facilities that allow field and lab exercises to be incorporated into the course and new software to process data acquired during the lab.

Semesters
previously

offered as an
experimental
course

Co-Listed

Courses:

Course Reviewer

Comments

Key: 1052

[Preview Bridge](#)

Course Change Request

Date Submitted: 02/25/20 2:36 pm

Viewing: **GEOLOGY 4411 : Hydrogeology**

File: 2063.1

Last edit: 04/02/20 9:08 am

Changes proposed by: grotekr

Programs
referencing this
course

[PROPOSED: Geoenvironmental Science and Engineering CT](#)

[PROPOSED: Subsurface Water Resources](#)

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

Requested **Fall 2020 08/14/2018**

Effective Change

Date

Department

Geosciences and Geological and Petroleum
Engineering

Discipline

Geology (GEOLOGY)

Course Number 4411

Title

In Workflow

1. **RGEOENG 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. 02/25/20 3:40 pm

David Borrok

(borrokd):

Approved for

RGEOENG Chair

2. 03/05/20 10:29

am

Kristy Giacomelli-

Feys (kristyg):
Approved for CCC
Secretary

3. 03/11/20 11:33
am

Katie Shannon
(shannonk):
Approved for
Sciences DSCC
Chair

4. 03/11/20 2:46 pm

Kristy Giacomelli-
Feys (kristyg):
Approved for
Pending CCC
Agenda post

5. 04/02/20 9:07 am

Kristy Giacomelli-
Feys (kristyg):
Approved for CCC
Meeting Agenda

6. 04/02/20 10:09
am

Stephen Raper
(sraper):
Approved for
Campus Curricula
Committee Chair

Hydrogeology

Abbreviated

Hydrogeology

Course Title

Catalog

Description

This course discusses geologic aspects of major surface and subsurface hydrologic systems of North America. Chemical and physical relationships between groundwater and fractures, faults, karst, subsurface pressures, mineral deposits plus both contaminant and hydrocarbon migration are discussed.

Prerequisites

Geo Eng 1150 or Geology 1110, Geology 3620 recommended.

Field Trip

Statement

Credit Hours LEC: ~~2~~ 3 LAB: ~~1~~ 0 IND: 0 RSD: 0

Total: 3

Required for No

Majors

Elective for No

Majors

Justification for

change:

Course material includes a significant hands-on component (field work, laboratory analysis, computer modeling) that is best delivered in a laboratory format. The department has recently acquired new facilities that allow field and lab exercises to be incorporated into the course and new software to process data acquired during the lab.

Semesters

previously
offered as an
experimental
course

Co-Listed

Courses:

Course Reviewer
Comments

Key: 2063

[Preview Bridge](#)

Course Change Request

Date Submitted: 03/11/20 2:50 pm

Viewing: **MIL AIR 1110 : Air Force Heritage and Values I**

File: 1532.4

Last approved: 08/05/19 6:01 am

Last edit: 03/11/20 2:50 pm

Changes proposed by: ungerb

Programs
referencing this
course

[MIL AIR-MI: Military Aerospace Studies Minor](#)

Requested **Fall** ~~Spring~~ 2020

Effective Change

Date

Department

Aerospace Studies - Air Force ROTC

Discipline

Military Science - Air Force (MIL AIR)

Course Number 1110

Title

In Workflow

1. RMILISCI Chair
2. CCC Secretary
3. Sarah Johnson
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. 03/11/20 3:28 pm
Brent Unger
(ungerb):
Approved for
RMILISCI Chair
2. 03/11/20 3:53 pm
Kristy Giacomelli-
Feys (kristyg):

Approved for CCC
Secretary

3. 03/11/20 4:17 pm

Sarah Johnson

(johsarah):

Approved for

johsarah

4. 03/12/20 1:00 pm

Kristy Giacomelli-

Feys (kristyg):

Approved for

Pending CCC

Agenda post

5. 04/02/20 9:09 am

Kristy Giacomelli-

Feys (kristyg):

Approved for CCC

Meeting Agenda

6. 04/02/20 10:09

am

Stephen Raper

(sraper):

Approved for

Campus Curricula

Committee Chair

History

1. Aug 5, 2019 by

ungerb (1532.1)

Air Force Heritage and Values I

Abbreviated Heritage and Values I

Course Title

Catalog

Description

This course provides an introduction to the Air Force, hopefully encouraging students to pursue an AF career or at least seek additional information to be better informed about the role of the USAF. The course allows students to examine general aspects of the Department of the Air Force, AF Leadership, Air Force benefits, and opportunities for AF officers.

Prerequisites

Field Trip

Statement

Credit Hours LEC: ~~.5~~ 1 LAB: ~~.5~~ 0 IND: 0 RSD: 0

Total: 1

Required for No

Majors

Elective for No

Majors

Justification for
change:

I put 1.0 for the lecture and 0.0 for the lab when I previously made changes for this course, not realizing that the lab would then be removed from the schedule altogether. However, our Air Force ROTC cadets are required to take both the lecture and the lab, so we need the lab back on the schedule. I specifically gave 1.0 for the lecture and 0.0 for the lab because civilian students are eligible to take the class (but not the lab), so they would only receive 0.5 credit for the class if they took the lecture only. Regardless, I need to request that the lab be added back on so that cadets taking Mil Air 1110 for Fall 2020 will automatically have the Leadership Lab added to their schedule as well. Thank you!

v/r

Brent J. Unger, Col, USAF

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 1532

[Preview Bridge](#)

Course Change Request

Date Submitted: 03/11/20 2:51 pm

Viewing: **MIL AIR 1120 : Air Force Heritage and Values II**

File: 1390.3

Last approved: 08/05/19 6:01 am

Last edit: 03/11/20 2:51 pm

Changes proposed by: ungerb

Programs
referencing this
course

[MIL AIR-MI: Military Aerospace Studies Minor](#)

Requested Spring **2021** ~~2020~~

Effective Change

Date

Department

Aerospace Studies - Air Force ROTC

Discipline

Military Science - Air Force (MIL AIR)

Course Number 1120

Title

In Workflow

1. RMILISCI Chair
2. CCC Secretary
3. Sarah Johnson
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. 03/11/20 3:28 pm
Brent Unger
(ungerb):
Approved for
RMILISCI Chair
2. 03/11/20 3:53 pm
Kristy Giacomelli-
Feys (kristyg):

Approved for CCC
Secretary

3. 03/11/20 4:18 pm

Sarah Johnson

(johsarah):

Approved for

johsarah

4. 03/12/20 1:01 pm

Kristy Giacomelli-

Feys (kristyg):

Approved for

Pending CCC

Agenda post

5. 04/02/20 9:09 am

Kristy Giacomelli-

Feys (kristyg):

Approved for CCC

Meeting Agenda

6. 04/02/20 10:09

am

Stephen Raper

(sraper):

Approved for

Campus Curricula

Committee Chair

History

1. Aug 5, 2019 by

ungerb (1390.1)

Air Force Heritage and Values II

Abbreviated Heritage and Values II

Course Title

Catalog

Description

This course provides an introduction to the Air Force, hopefully encouraging students to pursue an AF career or at least seek additional information to be better informed about the role of the USAF. The course allows students to examine general aspects of the Department of the Air Force, AF Leadership, Air Force benefits, and opportunities for AF officers.

Prerequisites

Field Trip

Statement

Credit Hours LEC: ~~.5~~ 1 LAB: ~~.5~~ 0 IND: 0 RSD: 0

Total: 1

Required for No

Majors

Elective for No

Majors

Justification for
change:

I put 1.0 for the lecture and 0.0 for the lab when I previously made changes for this course, not realizing that the lab would then be removed from the schedule altogether. However, our Air Force ROTC cadets are required to take both the lecture and the lab, so we need the lab back on the schedule. I specifically gave 1.0 for the lecture and 0.0 for the lab because civilian students are eligible to take the class (but not the lab), so they would only receive 0.5 credit for the class if they took the lecture only. Regardless, I need to request that the lab be added back on so that cadets taking Mil Air 1120 for Spring 2021 will automatically have the Leadership Lab added to their schedule as well. Thank you!

v/r

Brent J. Unger, Col, USAF

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 1390

[Preview Bridge](#)

Course Change Request

Date Submitted: 03/11/20 2:52 pm

Viewing: **MIL AIR 2110 : Team and Leadership Fundamentals I**

File: 418.4

Last approved: 08/07/19 6:01 am

Last edit: 03/11/20 2:52 pm

Changes proposed by: ungerb

Programs
referencing this
course

[MIL AIR-MI: Military Aerospace Studies Minor](#)

Requested **Fall** ~~Spring~~ 2020

Effective Change

Date

Department

Aerospace Studies - Air Force ROTC

Discipline

Military Science - Air Force (MIL AIR)

Course Number 2110

Title

In Workflow

1. RMILISCI Chair
2. CCC Secretary
3. Sarah Johnson
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. 03/11/20 3:28 pm
Brent Unger
(ungerb):
Approved for
RMILISCI Chair
2. 03/11/20 3:53 pm
Kristy Giacomelli-
Feys (kristy):

Approved for CCC
Secretary

3. 03/11/20 4:18 pm

Sarah Johnson

(johsarah):

Approved for

johsarah

4. 03/12/20 1:01 pm

Kristy Giacomelli-

Feys (kristyg):

Approved for

Pending CCC

Agenda post

5. 04/02/20 9:09 am

Kristy Giacomelli-

Feys (kristyg):

Approved for CCC

Meeting Agenda

6. 04/02/20 10:09

am

Stephen Raper

(sraper):

Approved for

Campus Curricula

Committee Chair

History

1. Aug 7, 2019 by

ungerb (418.1)

Team and Leadership Fundamentals I

Abbreviated Ldrshp Fundamentals I

Course Title

Catalog

Description

This course is designed to provide a fundamental understanding of both leadership and team building. It is imperative that cadets are taught from the beginning that there are many layers to leadership, including aspects that don't always jump to mind. Such things include listening, understanding themselves, being a good follower and problem solving.

Prerequisites

Field Trip

Statement

Credit Hours LEC: ~~.5~~ 1 LAB: ~~.5~~ 0 IND: 0 RSD: 0

Total: 1

Required for No

Majors

Elective for No

Majors

Justification for
change:

I put 1.0 for the lecture and 0.0 for the lab when I previously made changes for this course, not realizing that the lab would then be removed from the schedule altogether. However, our Air Force ROTC cadets are required to take both the lecture and the lab, so we need the lab back on the schedule. I specifically gave 1.0 for the lecture and 0.0 for the lab because civilian students are eligible to take the class (but not the lab), so they would only receive 0.5 credit for the class if they took the lecture only. Regardless, I need to request that the lab be added back on so that cadets taking Mil Air 2110 for Fall 2020 will automatically have the Leadership Lab added to their schedule as well. Thank you!

v/r

Brent J. Unger, Col, USAF

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 418

[Preview Bridge](#)

Course Change Request

Date Submitted: 03/11/20 2:53 pm

Viewing: **MIL AIR 2120 : Team and Leadership Fundamentals II**

File: 1092.4

Last approved: 08/05/19 6:01 am

Last edit: 03/11/20 2:53 pm

Changes proposed by: ungerb

Programs
referencing this
course

[MIL AIR-MI: Military Aerospace Studies Minor](#)

Requested Spring **2021** ~~2020~~

Effective Change

Date

Department

Aerospace Studies - Air Force ROTC

Discipline

Military Science - Air Force (MIL AIR)

Course Number 2120

Title

In Workflow

1. RMILISCI Chair
2. CCC Secretary
3. Sarah Johnson
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. 03/11/20 3:28 pm
Brent Unger
(ungerb):
Approved for
RMILISCI Chair
2. 03/11/20 3:53 pm
Kristy Giacomelli-
Feys (kristyg):

Approved for CCC
Secretary

3. 03/11/20 4:18 pm

Sarah Johnson

(johsarah):

Approved for

johsarah

4. 03/12/20 1:03 pm

Kristy Giacomelli-

Feys (kristyg):

Approved for

Pending CCC

Agenda post

5. 04/02/20 9:09 am

Kristy Giacomelli-

Feys (kristyg):

Approved for CCC

Meeting Agenda

6. 04/02/20 10:09

am

Stephen Raper

(sraper):

Approved for

Campus Curricula

Committee Chair

History

1. Aug 5, 2019 by

ungerb (1092.1)

Team and Leadership Fundamentals II

Abbreviated

Ldrshp Fundamentals II

Course Title

Catalog

Description

This course is designed to provide a fundamental understanding of both leadership and team building. It is imperative that cadets are taught from the beginning that there are many layers to leadership, including aspects that don't always jump to mind. Such things include listening, understanding themselves, being a good follower and problem solving.

Prerequisites

Field Trip

Statement

Credit Hours LEC: ~~.5~~ 1 LAB: ~~.5~~ 0 IND: 0 RSD: 0

Total: 1

Required for No

Majors

Elective for No

Majors

Justification for
change:

I put 1.0 for the lecture and 0.0 for the lab when I previously made changes for this course, not realizing that the lab would then be removed from the schedule altogether. However, our Air Force ROTC cadets are required to take both the lecture and the lab, so we need the lab back on the schedule. I specifically gave 1.0 for the lecture and 0.0 for the lab because civilian students are eligible to take the class (but not the lab), so they would only receive 0.5 credit for the class if they took the lecture only. Regardless, I need to request that the lab be added back on so that cadets taking Mil Air 2120 for Spring 2021 will automatically have the Leadership Lab added to their schedule as well. Thank you!

v/r

Brent J. Unger, Col, USAF

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 1092

[Preview Bridge](#)

Course Change Request

Date Submitted: 03/11/20 2:54 pm

Viewing: **MIL AIR 3110 : Leading People & Effective Communication I**

File: 419.3

Last approved: 08/05/19 6:01 am

Last edit: 03/11/20 2:54 pm

Changes proposed by: ungerb

In Workflow

1. RMILISCI Chair
2. CCC Secretary
3. Sarah Johnson
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

Programs
referencing this
course

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

[MIL AIR-MI: Military Aerospace Studies Minor](#)

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

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

Requested **Fall** ~~Spring~~ 2020

Effective Change

Date

Department

Aerospace Studies - Air Force ROTC

Discipline

Military Science - Air Force (MIL AIR)

Course Number 3110

Title

Approval Path

1. 03/11/20 3:28 pm
Brent Unger
(ungerb):
Approved for
RMILISCI Chair
2. 03/11/20 3:53 pm
Kristy Giacomelli-
Feys (kristy):

Approved for CCC
Secretary

3. 03/11/20 4:18 pm

Sarah Johnson

(johsarah):

Approved for

johsarah

4. 03/12/20 1:05 pm

Kristy Giacomelli-

Feys (kristyg):

Approved for

Pending CCC

Agenda post

5. 04/02/20 9:09 am

Kristy Giacomelli-

Feys (kristyg):

Approved for CCC

Meeting Agenda

6. 04/02/20 10:09

am

Stephen Raper

(sraper):

Approved for

Campus Curricula

Committee Chair

History

1. Aug 5, 2019 by

ungerb (419.1)

Leading People & Effective Communication I

Abbreviated

Effective Comm I

Course Title

Catalog

Description

This course is designed to build on the leadership fundamentals taught in AS200. Cadets will have the opportunity to utilize their skills as they begin more of a leadership role in the detachment. The goal is for cadets to have a more in-depth understanding of how to effectively lead people, and provide them with the tools to use in their leadership roles.

Prerequisites

Field Trip

Statement

Credit Hours	LEC: 2 3	LAB: 1 0	IND: 0	RSD: 0
--------------	---------------------	---------------------	--------	--------

Total: 3

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

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

Justification for change:

I put 3.0 for the lecture and 0.0 for the lab when I previously made changes for this course, not realizing that the lab would then be removed from the schedule altogether. However, our Air Force ROTC cadets are required to take both the lecture and the lab, so we need the lab back on the schedule. I specifically gave 3.0 for the lecture and 0.0 for the lab because civilian students are eligible to take the class (but not the lab), so they would only receive 2.0 credits for the class if they took the lecture only. Regardless, I need to request that the lab be added back on so that cadets taking Mil Air 3110 for Fall 2020 will automatically have the Leadership Lab added to their schedule as well. Thank you!

v/r

Brent J. Unger, Col, USAF

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 419

[Preview Bridge](#)

Course Change Request

Date Submitted: 03/11/20 2:55 pm

Viewing: **MIL AIR 3120 : Leading People & Effective Communication II**

File: 1093.3

Last approved: 08/05/19 6:01 am

Last edit: 03/11/20 2:55 pm

Changes proposed by: ungerb

Programs
referencing this
course

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

[MIL AIR-MI: Military Aerospace Studies Minor](#)

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

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

In Workflow

1. RMILISCI Chair
2. CCC Secretary
3. Sarah Johnson
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

Requested Spring **2021** ~~2020~~

Effective Change
Date

Department
Aerospace Studies - Air Force ROTC

Discipline
Military Science - Air Force (MIL AIR)

Course Number 3120

Title

Approval Path

1. 03/11/20 3:28 pm
Brent Unger
(ungerb):
Approved for
RMILISCI Chair
2. 03/11/20 3:53 pm
Kristy Giacomelli-
Feys (kristy):

Approved for CCC
Secretary

3. 03/11/20 4:19 pm

Sarah Johnson

(johsarah):

Approved for

johsarah

4. 03/12/20 1:07 pm

Kristy Giacomelli-

Feys (kristyg):

Approved for

Pending CCC

Agenda post

5. 04/02/20 9:09 am

Kristy Giacomelli-

Feys (kristyg):

Approved for CCC

Meeting Agenda

6. 04/02/20 10:09

am

Stephen Raper

(sraper):

Approved for

Campus Curricula

Committee Chair

History

1. Aug 5, 2019 by

ungerb (1093.1)

Leading People & Effective Communication II

Abbreviated

Effective Comm II

Course Title

Catalog

Description

This course is designed to build on the leadership fundamentals taught in AS200. Cadets will have the opportunity to utilize their skills as they begin more of a leadership role in the detachment. The goal is for cadets to have a more in-depth understanding of how to effectively lead people, and provide them with the tools to use in their leadership roles.

Prerequisites

Field Trip

Statement

Credit Hours	LEC: 2 3	LAB: 1 0	IND: 0	RSD: 0
--------------	---------------------	---------------------	--------	--------

Total: 3

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

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

Justification for change:

I put 3.0 for the lecture and 0.0 for the lab when I previously made changes for this course, not realizing that the lab would then be removed from the schedule altogether. However, our Air Force ROTC cadets are required to take both the lecture and the lab, so we need the lab back on the schedule. I specifically gave 3.0 for the lecture and 0.0 for the lab because civilian students are eligible to take the class (but not the lab), so they would only receive 2.0 credits for the class if they took the lecture only. Regardless, I need to request that the lab be added back on so that cadets taking Mil Air 3120 for Spring 2021 will automatically have the Leadership Lab added to their schedule as well. Thank you!

v/r

Brent J. Unger, Col, USAF

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 1093

[Preview Bridge](#)

Course Change Request

Date Submitted: 03/11/20 3:30 pm

Viewing: **MIL AIR 4110 : National Security, Leadership Responsibilities & Commissioning Preparation I**

File: 420.3

Last approved: 08/05/19 6:01 am

Last edit: 03/11/20 3:30 pm

Changes proposed by: ungerb

Programs
referencing this
course

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

[MIL AIR-MI: Military Aerospace Studies Minor](#)

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

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

Requested **Fall** ~~Spring~~ 2020

Effective Change

Date

Department

Aerospace Studies - Air Force ROTC

Discipline

Military Science - Air Force (MIL AIR)

Course Number 4110

In Workflow

1. RMILISCI Chair

2. CCC Secretary

3. Sarah Johnson

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. 03/11/20 3:07 pm

Brent Unger

(ungerb):

Rollback to

Initiator

2. 03/11/20 3:31 pm

Brent Unger

(ungerb):

Title	Approved for RMILISCI Chair
	3. 03/11/20 3:53 pm Kristy Giacomelli- Feys (kristyg): Approved for CCC
	Secretary
	4. 03/11/20 4:19 pm Sarah Johnson (johsarah): Approved for johsarah
	5. 03/12/20 1:09 pm Kristy Giacomelli- Feys (kristyg): Approved for Pending CCC Agenda post
	6. 04/02/20 9:09 am Kristy Giacomelli- Feys (kristyg): Approved for CCC Meeting Agenda
	7. 04/02/20 10:09 am Stephen Raper (sraper): Approved for Campus Curricula Committee Chair

History

1. Aug 5, 2019 by ungerb (420.1)

National Security, Leadership Responsibilities & Commissioning Preparation I

Abbreviated Ntl Security Issues I

Course Title

Catalog

Description

The AS400 cadet should comprehend the basic elements of national security policy and process. The student should comprehend the air and space power operations as well as understand selected roles of the military in society and current domestic and international issues affecting the military profession.

Prerequisites

Field Trip

Statement

Credit Hours LEC: ~~2~~3 LAB: 1~~0~~ IND: 0 RSD: 0

Total: 3

Required for No

Majors

Elective for No

Majors

Justification for
change:

I put 3.0 for the lecture and 0.0 for the lab when I previously made changes for this course, not realizing that the lab would then be removed from the schedule altogether. However, our Air Force ROTC cadets are required to take both the lecture and the lab, so we need the lab back on the schedule. I specifically gave 3.0 for the lecture and 0.0 for the lab because civilian students are eligible to take the class (but not the lab), so they would only receive 2.0 credits for the class if they

took the lecture only. Regardless, I need to request that the lab be added back on so that cadets taking Mil Air 4110 for Fall 2020 will automatically have the Leadership Lab added to their schedule as well. Thank you!

v/r

Brent J. Unger, Col, USAF

Semesters

previously

offered as an

experimental

course

Co-Listed

Courses:

Course Reviewer

Comments

ungerb (03/11/20 3:07 pm): Rollback: Need to change class time from Tuesday to Monday.

Key: 420

[Preview Bridge](#)

Course Change Request

Date Submitted: 03/11/20 3:31 pm

Viewing: **MIL AIR 4120 : National Security, Leadership Responsibilities & Commissioning Preparation II**

File: 748.3

Last approved: 08/05/19 6:01 am

Last edit: 03/11/20 3:31 pm

Changes proposed by: ungerb

Programs
referencing this
course

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

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

[MIL AIR-MI: Military Aerospace Studies Minor](#)

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

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

Requested Spring **2021** ~~2020~~

Effective Change

Date

Department

Aerospace Studies - Air Force ROTC

Discipline

Military Science - Air Force (MIL AIR)

In Workflow

1. **RMILISCI Chair**

2. **CCC Secretary**

3. **Sarah Johnson**

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. 03/11/20 3:27 pm

Brent Unger

(ungerb):

Rollback to

Initiator

2. 03/11/20 3:31 pm

Brent Unger

(ungerb):

Course Number 4120

Title

Approved for
RMILISCI Chair

3. 03/11/20 3:53 pm

Kristy Giacomelli-
Feys (kristyg):
Approved for CCC
Secretary

4. 03/11/20 4:19 pm

Sarah Johnson
(johsarah):
Approved for
johsarah

5. 03/12/20 1:10 pm

Kristy Giacomelli-
Feys (kristyg):
Approved for
Pending CCC
Agenda post

6. 04/02/20 9:09 am

Kristy Giacomelli-
Feys (kristyg):
Approved for CCC
Meeting Agenda

7. 04/02/20 10:09

am
Stephen Raper
(sraper):
Approved for
Campus Curricula
Committee Chair

History

1. Aug 5, 2019 by ungerb (748.1)

National Security, Leadership Responsibilities & Commissioning Preparation II

Abbreviated Ntl Security Issues II

Course Title

Catalog

Description

The AS400 cadet should comprehend the basic elements of national security policy and process. The student should comprehend the air and space power operations as well as understand selected roles of the military in society and current domestic and international issues affecting the military profession.

Prerequisites

Field Trip

Statement

Credit Hours LEC: ~~2~~3 LAB: 1~~0~~ IND: 0 RSD: 0

Total: 3

Required for No

Majors

Elective for No

Majors

Justification for

change:

I put 3.0 for the lecture and 0.0 for the lab when I previously made changes for this course, not realizing that the lab would then be removed from the schedule altogether. However, our Air Force ROTC cadets are required to take both the lecture and the lab, so we need the lab back on the schedule. I specifically gave 3.0 for the lecture and 0.0 for the lab because civilian students are eligible to take the class (but not the lab), so they would only receive 2.0 credits for the class if they

took the lecture only. Regardless, I need to request that the lab be added back on so that cadets taking Mil Air 4120 for Spring 2021 will automatically have the Leadership Lab added to their schedule as well. Thank you!

v/r

Brent J. Unger, Col, USAF

Semesters

previously

offered as an

experimental

course

Co-Listed

Courses:

Course Reviewer

Comments

ungerb (03/11/20 3:27 pm): Rollback: Need to change class time from Tuesday to Monday.

Key: 748

[Preview Bridge](#)

Course Change Request

Date Submitted: 02/18/20 1:25 pm

Viewing: **MIL ARMY 1250 : Leadership and Personal Development**

File: 751.5

Last approved: 11/25/19 6:01 am

Last edit: 02/18/20 1:25 pm

Changes proposed by: eckertr

Other Courses
referencing this
course

In The Prerequisites:

[MIL ARMY 3250 : Adaptive Tactical Leadership](#)

Requested Fall 2020

Effective Change

Date

Department

Military Science - Army ROTC

Discipline

Military Science - Army (MIL ARMY)

Course Number 1250

Title

In Workflow

1. RMILARMY Chair
2. CCC Secretary
3. Krista Chambers
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. 02/18/20 1:07 pm
Kristy Giacomelli-
Feys (kristyg):
Rollback to
Initiator
2. 02/18/20 1:55 pm
Lonnie Pirtle
(lp9d6): Approved

	<p>for RMILARMY Chair</p>
	<p>3. 02/20/20 10:26 am Kristy Giacomelli- Feys (kristyg): Approved for CCC Secretary</p>
	<p>4. 02/20/20 11:01 am Krista Chambers (krista): Approved for krista</p>
	<p>5. 02/24/20 1:11 pm Kristy Giacomelli- Feys (kristyg): Approved for Pending CCC Agenda post</p>
	<p>6. 04/02/20 9:09 am Kristy Giacomelli- Feys (kristyg): Approved for CCC Meeting Agenda</p>
	<p>7. 04/02/20 10:09 am Stephen Raper (sraper): Approved for Campus Curricula Committee Chair</p>

History

1. Nov 25, 2019 by
bakervi (751.1)

Leadership and Personal Development

Abbreviated Ldrsp and Personal Dev

Course Title

Catalog

Description

Introduces cadets to the personal challenges and competencies that are critical for effective leadership. Cadets learn how the personal development of life skills such as critical thinking, goal setting, time management, physical fitness, and stress management relate to leadership, officership, and the Army profession.

Prerequisites

Field Trip

Statement

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

Total: ~~1~~ 2

Required for No

Majors

Elective for No

Majors

Justification for

change:

Error in component requirements

Semesters

previously

offered as an

experimental

course

Co-Listed

Courses:

Course Reviewer

Comments

kristyg (02/18/20 1:07 pm): Rollback: Correcting workflow issues

Key: 751

[Preview Bridge](#)

Course Change Request

Date Submitted: 02/18/20 1:22 pm

Viewing: **MIL ARMY 1500 : Introduction to Tactical Leadership**

File: 421.5

Last approved: 11/25/19 6:01 am

Last edit: 04/02/20 9:10 am

Changes proposed by: eckertr

Requested **Fall** ~~Spring~~ 2020

Effective Change

Date

Department

Military Science - Army ROTC

Discipline

Military Science - Army (MIL ARMY)

Course Number 1500

Title

In Workflow

1. RMILARMY Chair
2. CCC Secretary
3. Krista Chambers
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. 02/18/20 1:07 pm
Kristy Giacomelli-Feys (kristyg): Rollback to Initiator
2. 02/18/20 1:55 pm
Lonnie Pirtle (lp9d6): Approved

for RMILARMY

Chair

3. 02/20/20 10:26

am

Kristy Giacomelli-

Feys (kristyg):

Approved for CCC

Secretary

4. 02/20/20 11:01

am

Krista Chambers

(krista): Approved

for krista

5. 02/24/20 1:11 pm

Kristy Giacomelli-

Feys (kristyg):

Approved for

Pending CCC

Agenda post

6. 04/02/20 9:10 am

Kristy Giacomelli-

Feys (kristyg):

Approved for CCC

Meeting Agenda

7. 04/02/20 10:09

am

Stephen Raper

(sraper):

Approved for

Campus Curricula

Committee Chair

History

1. Nov 25, 2019 by bakervi (421.1)

Introduction to Tactical Leadership

Abbreviated Intro to Tactical Ldrsp

Course Title

Catalog

Description

Overviews leadership fundamentals such as setting direction, problem-solving, listening, presenting briefs, providing feedback, and using effective writing skills. Cadets explore dimensions of leadership values, attributes, skills, and actions in the context of practical, hands-on, and interactive exercises.

Prerequisites

Field Trip

Statement

Credit Hours LEC: 1 LAB: ~~0~~± IND: 0 RSD: 0

Total: ~~1~~ 2

Required for No

Majors

Elective for No

Majors

Justification for

change:

Error in component requirements

Semesters

previously

offered as an

experimental

course

Co-Listed

Courses:

Course Reviewer

Comments

kristyg (02/18/20 1:07 pm): Rollback: Correcting workflow issues

Key: 421

[Preview Bridge](#)

Course Change Request

Date Submitted: 02/18/20 1:24 pm

Viewing: **MIL ARMY 2250 : Innovative Team Leadership**

File: 1734.4

Last approved: 11/25/19 6:01 am

Last edit: 02/18/20 1:24 pm

Changes proposed by: eckertr

Requested Fall 2020

Effective Change

Date

Department

Military Science - Army ROTC

Discipline

Military Science - Army (MIL ARMY)

Course Number 2250

Title

In Workflow

1. **RMILARMY Chair**
2. **CCC Secretary**
3. **Krista Chambers**
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. 02/18/20 1:07 pm
Kristy Giacomelli-Feys (kristyg): Rollback to Initiator
2. 02/18/20 1:55 pm
Lonnie Pirtle (lp9d6): Approved

for RMILARMY

Chair

3. 02/20/20 10:30
am

Kristy Giacomelli-
Feys (kristyg):
Approved for CCC
Secretary

4. 02/20/20 11:01
am

Krista Chambers
(krista): Approved
for krista

5. 02/24/20 1:12 pm

Kristy Giacomelli-
Feys (kristyg):
Approved for
Pending CCC
Agenda post

6. 04/02/20 9:10 am

Kristy Giacomelli-
Feys (kristyg):
Approved for CCC
Meeting Agenda

7. 04/02/20 10:09
am

Stephen Raper
(sraper):
Approved for
Campus Curricula
Committee Chair

History

1. Nov 25, 2019 by bakervi (1734.1)

Innovative Team Leadership

Abbreviated Innovative Team Ldrsp

Course Title

Catalog

Description

Develop knowledge of self, self-confidence and individual leadership techniques through problem solving and critical thinking skills. Apply communication, feedback, and conflict resolution skills.

Prerequisites

Field Trip

Statement

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

Total: **3** ~~4~~

Required for No

Majors

Elective for No

Majors

Justification for

change:

Error in component requirements

Semesters

previously

offered as an

experimental

course

Co-Listed

Courses:

Course Reviewer

Comments

kristyg (02/18/20 1:07 pm): Rollback: Correcting workflow issues

Key: 1734

[Preview Bridge](#)

Course Change Request

Date Submitted: 02/18/20 1:25 pm

Viewing: **MIL ARMY 2500 : Foundations of Tactical Leadership**

File: 1395.3

Last approved: 10/07/19 6:01 am

Last edit: 04/02/20 9:10 am

Changes proposed by: eckertr

Other Courses
referencing this
course

In The Prerequisites:

[MIL ARMY 2750 : Basic Leadership Laboratory](#)

Requested **Fall** ~~Spring~~ 2020

Effective Change

Date

Department

Military Science - Army ROTC

Discipline

Military Science - Army (MIL ARMY)

Course Number 2500

Title

In Workflow

1. **RMILARMY Chair**
2. **CCC Secretary**
3. **Krista Chambers**
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. 02/18/20 1:07 pm
Kristy Giacomelli-Feys (kristyg): Rollback to Initiator
2. 02/18/20 1:56 pm
Lonnie Pirtle (lp9d6): Approved

	for RMILARMY Chair
	3. 02/20/20 10:31 am Kristy Giacomelli- Feys (kristyg): Approved for CCC Secretary
	4. 02/20/20 11:01 am Krista Chambers (krista): Approved for krista
	5. 02/24/20 1:12 pm Kristy Giacomelli- Feys (kristyg): Approved for Pending CCC Agenda post
	6. 04/02/20 9:10 am Kristy Giacomelli- Feys (kristyg): Approved for CCC Meeting Agenda
	7. 04/02/20 10:09 am Stephen Raper (sraper): Approved for Campus Curricula Committee Chair

History

1. Oct 7, 2019 by bakervi (1395.1)

Foundations of Tactical Leadership

Abbreviated Found of Tactical Ldrsp

Course Title

Catalog

Description

Examines the challenges of leading tactical teams in the complex contemporary operating environment (COE). The course highlights dimensions of terrain analysis, patrolling, and operation orders. Further study of the theoretical basis of the Army leadership framework explores the dynamics of adaptive leadership in the context of military operations.

Prerequisites

Field Trip

Statement

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

Total: 3 4

Required for No

Majors

Elective for No

Majors

Justification for
change:

Error in component requirements

Semesters

previously

offered as an

experimental

course

Co-Listed

Courses:

Course Reviewer

Comments

kristyg (02/18/20 1:07 pm): Rollback: Correcting workflow issues

Key: 1395

[Preview Bridge](#)

Course Change Request

Date Submitted: 02/18/20 2:01 pm

Viewing: **MIL ARMY 2750 : Basic Leadership Laboratory**

File: 1956.1

Last edit: 04/02/20 9:11 am

Changes proposed by: eckertr

Requested **Fall 2020 08/14/2018**

Effective Change

Date

Department

Military Science - Army ROTC

Discipline

Military Science - Army (MIL ARMY)

Course Number 2750

Title

In Workflow

1. RMILARMY Chair
2. CCC Secretary
3. Krista Chambers
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. 02/18/20 1:07 pm
Kristy Giacomelli-Feys (kristyg): Rollback to Initiator
2. 02/18/20 1:59 pm
Lonnie Pirtle (lp9d6): Rollback to Initiator

3. 02/18/20 2:02 pm
Lonnie Pirtle
(lp9d6): Approved
for RMILARMY
Chair
4. 02/20/20 10:31
am
Kristy Giacomelli-
Feys (kristyg):
Approved for CCC
Secretary
5. 02/20/20 11:01
am
Krista Chambers
(krista): Approved
for krista
6. 02/24/20 1:12 pm
Kristy Giacomelli-
Feys (kristyg):
Approved for
Pending CCC
Agenda post
7. 04/02/20 9:11 am
Kristy Giacomelli-
Feys (kristyg):
Approved for CCC
Meeting Agenda
8. 04/02/20 10:09
am
Stephen Raper
(sraper):
Approved for

Basic Leadership Laboratory

Abbreviated Basic Leadership Lab

Course Title

Catalog

Description

Hands-on experience in basic military leadership skills, supplementing, but not duplicating classroom instruction in MSI and MSII courses. Training is conducted at squad (8 person group) level with emphasis on leadership development at that level. Topics include oral communication and presentations, decision making, drill and ceremonies, **and** squad **tactics. tactics, land nav, and the tactical bivouac.**

Prerequisites

~~To accompany Mil Army 2500.~~

Field Trip

Statement

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

Required for	No
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Majors

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

Majors

Justification for
change:

To allow non contracted cadets to enroll

Semesters
previously
offered as an
experimental
course

Co-Listed

Courses:

Course Reviewer

Comments

kristyg (02/18/20 1:07 pm): Rollback: Correcting workflow issues

lp9d6 (02/18/20 1:59 pm): Rollback: fix description

Key: 1956

[Preview Bridge](#)

Course Change Request

Date Submitted: 02/12/20 11:28 am

Viewing: **MUSIC 1130 : Wind Symphony**

File: 916.4

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

Last edit: 04/02/20 9:14 am

Changes proposed by: lorief

Requested **Spring 2021 08/14/2018**

Effective Change

Date

Department

Arts, Languages, & Philosophy

Discipline

Music (MUSIC)

Course Number 1130

Title

In Workflow

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

Approval Path

1. 02/13/20 4:24 pm
Audra Merfeld-Langston
(audram):
Approved for
RPHILOSO Chair

2. 02/14/20 3:14 pm
Kristy Giacomelli-
Feys (kristyg):
Approved for CCC
Secretary
3. 02/14/20 4:15 pm
Petra Dewitt
(dewittp):
Approved for Arts
& Humanities
DSCC Chair
4. 02/24/20 1:13 pm
Kristy Giacomelli-
Feys (kristyg):
Approved for
Pending CCC
Agenda post
5. 04/02/20 9:14 am
Kristy Giacomelli-
Feys (kristyg):
Approved for CCC
Meeting Agenda
6. 04/02/20 10:09
am
Stephen Raper
(sraper):
Approved for
Campus Curricula
Committee Chair

History

1. May 24, 2016 by
denises (916.1)

Wind Symphony

Abbreviated Wind Symphony

Course Title

Catalog

Description

Open to all students who play a band instrument. Auditions may be used for placement in ensemble.

Prerequisites

Field Trip

Statement

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

Total: ~~1~~ 2

Required for No

Majors

Elective for No

Majors

Justification for

change:

The credit hours need to be changed from 2 credits to 1 for unification within the Performing Arts ensembles. All other ensembles are 1 credit hour.

Semesters

previously

offered as an

experimental

course

Co-Listed

Courses:

Course Reviewer

Comments

Course Change Request

Date Submitted: 02/12/20 11:40 am

Viewing: **MUSIC 1131 : Marching Band**

File: 4293.4

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

Last edit: 04/02/20 9:14 am

Changes proposed by: lorief

Requested **Spring 2021** ~~08/14/2018~~

Effective Change

Date

Department

Arts, Languages, & Philosophy

Discipline

Music (MUSIC)

Course Number 1131

Title

In Workflow

1. **RPHILOSO Chair**
2. **CCC Secretary**
3. **Arts & Humanities DSCC Chair**
4. **Pending CCC Agenda post**
5. **CCC Meeting Agenda**
6. **Campus Curricula Committee Chair**
7. **FS Meeting Agenda**
8. Faculty Senate Chair
9. Registrar
10. CAT entry
11. Peoplesoft

Approval Path

1. 02/13/20 4:25 pm
Audra Merfeld-Langston
(audram):
Approved for
RPHILOSO Chair

2. 02/14/20 3:14 pm
Kristy Giacomelli-
Feys (kristyg):
Approved for CCC
Secretary
3. 02/14/20 4:15 pm
Petra Dewitt
(dewittp):
Approved for Arts
& Humanities
DSCC Chair
4. 02/24/20 1:13 pm
Kristy Giacomelli-
Feys (kristyg):
Approved for
Pending CCC
Agenda post
5. 04/02/20 9:14 am
Kristy Giacomelli-
Feys (kristyg):
Approved for CCC
Meeting Agenda
6. 04/02/20 10:09
am
Stephen Raper
(sraper):
Approved for
Campus Curricula
Committee Chair

History

1. May 24, 2016 by
Denise Sharp
(denises)

Marching Band

Abbreviated Marching Band

Course Title

Catalog

Description

Open to all students who play a band instrument. Auditions may be used for placement in ensemble.

Prerequisites

Field Trip

Statement

Credit Hours LEC: 0 LAB: ~~2~~ IND: 0 RSD: 0

Total: ~~2~~

Required for No

Majors

Elective for No

Majors

Justification for

change:

Credit hours need to be changed from 2 credits to 1 for unification within the Performing Arts ensembles. All other ensembles are 1 credit hour.

Semesters

previously

offered as an

experimental

course

Co-Listed

Courses:

Course Reviewer

Comments

Key: 4293

[Preview Bridge](#)

Course Change Request

Date Submitted: 02/12/20 11:41 am

Viewing: **MUSIC 1132 : University**

Orchestra

File: 1780.1

Last edit: 04/02/20 9:15 am

Changes proposed by: lorief

Requested **Spring 2021** ~~08/01/2014~~

Effective Change

Date

Department

Arts, Languages, & Philosophy

Discipline

Music (MUSIC)

Course Number 1132

Title

In Workflow

1. **RPHILOS** 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. 02/13/20 4:25 pm
Audra Merfeld-Langston
(audram):
Approved for
RPHILOS Chair

2. 02/14/20 3:14 pm
Kristy Giacomelli-Feys (kristyg):
Approved for CCC Secretary
3. 02/14/20 4:16 pm
Petra Dewitt (dewittp):
Approved for Arts & Humanities DSCC Chair
4. 02/24/20 1:14 pm
Kristy Giacomelli-Feys (kristyg):
Approved for Pending CCC Agenda post
5. 04/02/20 9:15 am
Kristy Giacomelli-Feys (kristyg):
Approved for CCC Meeting Agenda
6. 04/02/20 10:09 am
Stephen Raper (sraper):
Approved for Campus Curricula Committee Chair

University Orchestra

Abbreviated University Orchestra

Course Title

Catalog

Description

Open to all students who play stringed, wind, percussion or keyboard instruments used in the symphony orchestra. Students assigned to the orchestra after satisfactory audition.

Prerequisites

Field Trip

Statement

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

Total: ~~1~~ 2

Required for No

Majors

Elective for No

Majors

Justification for
change:

Credit hours need to be changed from 2 credits to 1 for unification within the Performing Arts ensembles. All other ensembles are 1 credit hour.

Semesters

previously
offered as an
experimental
course

Co-Listed

Courses:

Course Reviewer

Comments

Program Change Request

New Program Proposal

Date Submitted: 01/29/20 10:21 am

Viewing: **PROPOSED : BioInnovation CTU**

File: 349

Last edit: 01/29/20 10:21 am

Changes proposed by: ershenb

Start Term
Fall 2020
Program Code
PROPOSED
Department
Biological Sciences
Title
BioInnovation CTU

In Workflow

1. **RBIOLSCI Chair**
2. **RBUSADMN Chair**
3. **RCHEMIST Chair**
4. **RCHEMENG Chair**
5. **RMATSENG Chair**
6. **CCC Secretary**
7. **Sciences DSCC Chair**
8. **Engineering DSCC Chair**
9. **Pending CCC Agenda post**
10. **CCC Meeting Agenda**
11. **Campus Curricula Committee Chair**
12. **FS Meeting Agenda**
13. **Faculty Senate Chair**
14. **Registrar**
15. **Kristy Giacomelli-Feys**

Approval Path

1. 01/24/20 3:13 pm
David Duvernell (duvernell): Approved for RBIOLSCI Chair
2. 01/29/20 9:49 am
Brittany Parnell (ershenb): Rollback to Initiator
3. 01/29/20 11:14 am
David Duvernell (duvernell): Approved for RBIOLSCI Chair
4. 01/31/20 11:34 pm
siauk: Approved for RBUSADMN Chair

Program Requirements and Description

5. 02/01/20 9:57 am
Rainer Glaser
(GlaserR):
Approved for
RCHEMIST Chair
 6. 02/01/20 11:36 am
Joseph Smith
(smithjose):
Approved for
RCHEMENG Chair
 7. 02/02/20 9:59 pm
Greg Hilmas
(ghilmas): Approved
for RMAISENG
Chair
 8. 02/03/20 7:59 am
Brittany Parnell
(ershenb):
Approved for CCC
Secretary
 9. 02/14/20 2:04 pm
Katie Shannon
(shannonk):
Approved for
Sciences DSCC
Chair
 10. 02/26/20 12:09 pm
Stephen Raper
(sraper): Approved
for Engineering
DSCC Chair
 11. 03/03/20 2:23 pm
Kristy Giacomelli-
Feys (kristyg):
Approved for
Pending CCC
Agenda post
 12. 04/02/20 9:32 am
Kristy Giacomelli-
Feys (kristyg):
Approved for CCC
Meeting Agenda
 13. 04/02/20 10:10 am
Stephen Raper
(sraper): Approved
for Campus
Curricula
Committee Chair
-

Undergraduate Certificate in BioInnovation

The Biological Sciences Department offers a unique course, [BIO SCI 3783](#), that combines biology with entrepreneurship. Students use their scientific knowledge to create a novel biological product. Throughout the process, students interact with marketing experts, patent attorneys, regional biogenerators, funding agencies, and entrepreneurs.

The purpose of a Certificate in BioInnovation will be to further engage students who enroll in the Biological Design and Innovation course with training in entrepreneurship and advanced, innovative biological courses. Students who complete the prescribed coursework in this area will be recognized with a certificate.

In order to receive a Certificate in BioInnovation, the student must have an average cumulative grade point of 3.0 or better in the certificate courses. Once admitted to the program, a student will be given three years to complete the program.

To be awarded a certificate in BioInnovation, a student must meet the following requirements:

Required Course:		
BIO SCI 3783	Biological Design and Innovation I	3
One of the following:		
BUS 1110	Introduction to Management and Entrepreneurship	3
BUS 5980	Business Models for Entrepreneurship and Innovation	3
IS&T 5251	Technological Innovation Management and Leadership	3
MKT 5310	Digital Marketing and Promotions	3
Two of the following:		
BIO SCI 3110	Introduction to Biomedical Engineering	3
or CER ENG 3110	Introduction to Biomedical Engineering	
or CHEM ENG 3210	Introduction to Biomedical Engineering	
BIO SCI 3483	Biomedical Problems	3
BIO SCI 4329	Molecular Genetics Laboratory	2
BIO SCI 4373	Stem Cell Biology	3
BIO SCI 4666	Nanobiotechnology	3
BIO SCI 5210	Biomaterials I	3
or CHEM ENG 5200	Biomaterials I	
or MS&E 5310	Biomaterials I	
BIO SCI 5240	Tissue Engineering	3
or MS&E 5210	Tissue Engineering	
CHEM 4630	Introduction to Bio-Nanotechnology	3
CHEM 4810	Chemistry And Inherent Properties Of Polymers	3

Justification for request

An undergraduate certificate in bioinnovation has been submitted to and approved by UM System.

The purpose of a Certificate in BioInnovation will be to further engage students who enroll in the Biological Design and Innovation course with training in entrepreneurship and advanced, innovative biological courses. Students who complete the prescribed coursework in this area will be recognized with a certificate.

CIP CODE: 261201

Supporting Documents

[BioInnovation memo with signatures.pdf](#)

[MST PC Dec 2019.pdf](#)

[Program change form BioInnovation CT.pdf](#)

Course Reviewer Comments

ershenb (01/28/20 3:50 pm): formatting

ershenb (01/28/20 4:15 pm): .

ershenb (01/28/20 4:21 pm): .

ershenb (01/29/20 8:06 am): .

ershenb (01/29/20 8:12 am): .

ershenb (01/29/20 9:49 am): Rollback: Per email with Brittany Parnell

BIO SC-BS: BIOLOGICAL SCIENCES BS

In Workflow

1. RBIOLSCI Chair (duvernell@mst.edu)
2. CCC Secretary (kristyg@mst.edu)
3. Sciences DSCC Chair (shannonk@mst.edu)
4. Pending CCC Agenda post (kristyg@mst.edu)
5. CCC Meeting Agenda (kristyg@mst.edu)
6. Campus Curricula Committee Chair (sraper@mst.edu)
7. FS Meeting Agenda (kristyg@mst.edu)
8. Faculty Senate Chair (cornss@mst.edu)
9. Registrar (kristyg@mst.edu)
10. Kristy Giacomelli-Feys (kristyg@mst.edu)

Approval Path

1. Tue, 10 Mar 2020 15:33:59 GMT
David Duvernell (duvernell): Approved for RBIOLSCI Chair
2. Tue, 10 Mar 2020 15:42:31 GMT
Kristy Giacomelli-Feys (kristyg): Approved for CCC Secretary
3. Wed, 11 Mar 2020 16:33:07 GMT
Katie Shannon (shannonk): Approved for Sciences DSCC Chair
4. Wed, 11 Mar 2020 19:44:30 GMT
Kristy Giacomelli-Feys (kristyg): Approved for Pending CCC Agenda post
5. Thu, 02 Apr 2020 14:34:05 GMT
Kristy Giacomelli-Feys (kristyg): Approved for CCC Meeting Agenda
6. Thu, 02 Apr 2020 15:08:09 GMT
Stephen Raper (sraper): Approved for Campus Curricula Committee Chair

History

1. Aug 1, 2014 by Katie Shannon (shannonk)
2. Feb 1, 2016 by Ilene Morgan (imorgan)
3. Jun 18, 2018 by Katie Shannon (shannonk)
4. Jan 30, 2020 by Katie Shannon (shannonk)

Date Submitted: Thu, 05 Mar 2020 23:05:04 GMT

Viewing: BIO SC-BS : Biological Sciences BS

File: 147.17

Last approved: Thu, 30 Jan 2020 21:27:32 GMT

Last edit: Thu, 05 Mar 2020 23:05:04 GMT

Changes proposed by: shannonk

Start Term

Fall 2020

Program Code

BIO SC-BS

Department

Biological Sciences

Title

Biological Sciences BS

Program Requirements and Description

Bachelor of Science

Biological Sciences

Degree Requirements

A minimum of 124 credit hours is required for a Bachelor of Science degree in Biological Science.

A minimum grade of "C" is required for each Biological Science course used to fulfill the B.S. degree requirements.

These requirements for the B.S. degree are in addition to credit that is received for basic ROTC.

The Biological Science B.S. degree must include 49 semester hours of biological sciences course work, to include:

BIO SCI 1201	Biological Sciences Freshman Seminar	1
BIO SCI 1113 or BIO SCI 1213	General Biology Principles of Biology	3
BIO SCI 1219	General Biology Lab	2
BIO SCI 1223	Biodiversity	3
BIO SCI 1229	Biodiversity Lab	1
BIO SCI 2213	Cell Biology	3
BIO SCI 2219	Cell Biology Laboratory	1
BIO SCI 2223	General Genetics	3
BIO SCI 2263	Ecology	3
BIO SCI 3233	Evolution	3
BIO SCI 4010	Seminar	1
Advanced biological sciences or approved laboratory course from the following:	course work in other departments for a total of 49 credit hours of biology-related classes to include at least one laboratory course from the following:	25
BIO SCI 3319 or BIO SCI 3339 or BIO SCI 3349 or BIO SCI 4329	Microbiology Lab Human Anatomy Physiology I Lab Human Anatomy and Physiology II Laboratory Molecular Genetics Laboratory	
19 semester hours of chemistry to include	general chemistry	19
CHEM 1310 & CHEM 1319 & CHEM 1320 & CHEM 1100	General Chemistry I and General Chemistry Laboratory and General Chemistry II and Introduction To Laboratory Safety & Hazardous Materials	
CHEM 2210 & CHEM 2219 & CHEM 2220 & CHEM 2229	Organic Chemistry I and Organic Chemistry I Lab and Organic Chemistry II and Organic Chemistry II Lab	
2 semesters of College (Engineering) Physics and labs		8
PHYSICS 1145 or PHYSICS 1135	College Physics I Engineering Physics I	
PHYSICS 2145 or PHYSICS 2135	College Physics II Engineering Physics II	
Math and Statistics		8-9
MATH 1208 or MATH 1214 or MATH 1212	Calculus With Analytic Geometry I Calculus For Engineers I Business Calculus	
STAT 3425	Introduction to Biostatistics	4
12 semester hours of humanities, excluding foreign language, and to include:		12
ENGLISH 1120 & ENGLISH 1160	Exposition And Argumentation and Writing And Research(entering students will normally take ENGLISH 1120 either semester of the first year)	
9 hours of social sciences, to include		9
HISTORY 1200 or HISTORY 1300 or HISTORY 1310 or POL SCI 1200	Modern Western Civilization (or equivalent) American History To 1877 American History Since 1877 American Government	

Total Credits

109-110

Elective credits:In consultation with his or her advisor, each student will elect sufficient additional courses to complete a minimum of 124 credit hours.

Justification for request

STAT 5425 was changed to STAT 3425 for Biostatistics

CHEM 2210 and CHEM 2220 were changed from 4 hour to 3 hour lecture courses, so total Chemistry hours should total 17 now.

PHYSICS 1145 and 2145 now include the lab so enrollment in a separate lab course is no longer required

Key: 147

Program Change Request

Date Submitted: 03/11/20 11:45 am

Viewing: **PRE-MED-MI : Pre-Medicine**

Minor

File: 123.6

Last approved: 12/11/17 10:50 am

Last edit: 03/11/20 11:45 am

Changes proposed by: shannonk

Catalog Pages Using this Program
[Prehealth Professions](#)

In Workflow

1. CCC Secretary
2. Pending CCC Agenda post
3. CCC Meeting Agenda
4. Campus Curricula Committee Chair
5. FS Meeting Agenda
6. Faculty Senate Chair
7. Registrar
8. Kristy Giacomelli-Feys

Start Term

Fall **2020** ~~2018~~

Program Code

PRE-MED-MI

Department

College of Arts & Sciences

Title

Pre-Medicine Minor

Approval Path

1. 03/11/20 2:42 pm
Kristy Giacomelli-Feys (kristyg): Approved for CCC Secretary
2. 03/11/20 2:47 pm
Kristy Giacomelli-Feys (kristyg): Approved for Pending CCC Agenda post
3. 04/02/20 9:32 am
Kristy Giacomelli-Feys (kristyg): Approved for CCC Meeting Agenda
4. 04/02/20 10:09 am
Stephen Raper (sraper): Approved for Campus Curricula Committee Chair

Program Requirements and Description

History

1. Mar 31, 2014 by pantaleoa
2. Mar 31, 2014 by pantaleoa
3. Dec 11, 2017 by David Westenberg (djwesten)

Premedicine Minor

It is recommended that students seeking the Pre-Medicine minor declare their intentions as soon as possible. Students completing the Pre-Medicine minor curriculum in addition to their BA/BS curriculum will have completed all requirements for admission to most Medical, Dental, Veterinary or other health profession programs. However, it is important to consult with a member of the Pre-Health Professions Advisory Committee to ensure you are completing the necessary coursework for your desired profession. The Pre-Medicine minor is not intended for a student majoring in Chemistry, Biological Sciences or Chemical and Biochemical Engineering which already offer a Pre-Medicine approved curriculum. Required courses for the Pre-Medicine minor are:

BIO SCI 1213 & BIO SCI 1219	Principles of Biology and General Biology Lab	5
or BIO SCI 1113 & BIO SCI 1219	General Biology and General Biology Lab	
BIO SCI 2213 & BIO SCI 2219	Cell Biology and Cell Biology Laboratory	4
CHEM 1310 & CHEM 1319 & CHEM 1320 & CHEM 1100	General Chemistry I and General Chemistry Laboratory and General Chemistry II and Introduction To Laboratory Safety & Hazardous Materials	9
CHEM 2210 & CHEM 2219 & CHEM 2220 & CHEM 2229	Organic Chemistry I and Organic Chemistry I Lab and Organic Chemistry II and Organic Chemistry II Lab	8
PHYSICS 1145	College Physics I	4
or PHYSICS 1135	Engineering Physics I	
PHYSICS 2145	College Physics II	4
or PHYSICS 2135	Engineering Physics II	
Mathematics two semesters to include:		
MATH 1208	Calculus With Analytic Geometry I	
or MATH 1212	Business Calculus	

or [MATH 1214](#) Calculus For Engineers I

One of the following courses (taking all four courses is strongly encouraged):

[BIO SCI 2223](#) General Genetics

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

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

[CHEM 4610](#) General Biochemistry

[PREMED 3010](#) **Communication Workshop for the Pre-Health Student (Suggested but not required)**

1

Justification for request

Edited to reflect changes in hours for Org I and II and incorporation of Physics lab into College Physics and General Physics no longer offered

Supporting Documents

Course Reviewer Comments

Program Change Request

Date Submitted: 01/25/20 4:16 pm

Viewing: **TCH COM-MS : Technical Communication MS**

File: 135.13

Last approved: 07/24/15 5:46 pm

Last edit: 01/27/20 2:22 pm

Changes proposed by: kswenson

Catalog Pages Using this Program
[Technical Communication](#)

Start Term

Fall 2020 ~~08/17/2015~~

Program Code

TCH COM-MS

Department

English and Technical Communication

Title

Technical Communication MS

In Workflow

1. **RENLISH 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. **Kristy Giacomelli-Feys**

Approval Path

1. 01/25/20 4:17 pm
Kristine Swenson (kswenson):
Approved for
RENLISH Chair
2. 01/27/20 2:22 pm
Brittany Parnell (ershenb):
Approved for CCC Secretary
3. 01/27/20 3:00 pm
Petra Dewitt (dewittp): Approved for Arts & Humanities DSCC Chair
4. 02/24/20 1:23 pm
Kristy Giacomelli-Feys (kristyg):
Approved for
Pending CCC Agenda post

Program Requirements and Description

5. 04/02/20 9:32 am
Kristy Giacomelli-
Feys (kristyg):
Approved for CCC
Meeting Agenda
6. 04/02/20 10:10 am
Stephen Raper
(srafer): Approved
for Campus
Curricula
Committee Chair

History

1. Apr 23, 2014 by
Kristine Swenson
(kswenson)
2. Oct 15, 2014 by
Kristine Swenson
(kswenson)
3. Jul 24, 2015 by
pantaleoa

M.S. Degree Requirements

Ten ~~The following 10~~ courses ~~totaling (totaling~~ 30 credit ~~hours hours)~~ are required for the M.S.:

All MS students must take TCH COM 6600: Foundations of Technical Communication.

The remaining courses should come from the following list and should be determined in consultation with the student's academic advisors. Students must take 3 TCH COM courses at the 6000 level.

<u>TCH COM 5520</u>	Help Authoring	3
<u>TCH COM 5530</u>	Usability Studies	3
<u>TCH COM 5540</u>	Advanced Layout and Design	3
<u>TCH COM 5550</u>	Advanced Proposal Writing	3
<u>TCH COM 5560</u>	Web-Based Communication	3
<u>TCH COM 5610</u>	History of Technical Communication	3
<u>TCH COM 5620</u>	Research Methods in Technical Communication	3
<u>TCH COM 6001</u>	Special Topics	0-6
<u>TCH COM 6070</u>	Teaching of Technical Communication	3
<u>TCH COM 6410</u>	Theoretical Approaches to Technical Communication	3
<u>TCH COM 6420</u>	Project Management in Technical Communication	3

<u>TCH COM 6440</u>	Advanced Theories of Visual Technical Communication	3
<u>TCH COM 6450</u>	Advanced International Technical Communication	3

Thesis Option: A student completing the master's degree will also take a comprehensive exam during his/her final semester. Students interested in pursuing a PhD in this thesis instead of the exam, and the technical communication faculty give their approval to this plan, the student will have the option of writing a supervised thesis as part to take 6 hours of their coursework. TCH COM 5099 Research in addition to the above 10-course sequence. If the A student chooses to do completing the master's degree will also take a thesis, and the technical communication faculty give their approval to this plan, the student will take 6 hours of TCH COM 5099 Research. **comprehensive exam during his/her final semester.** Three of these hours may count toward the 30 hr total, but an additional 3 hrs will be required, bringing the total number of degree hours to 33. Completing TCH COM 5620: Research Methods before proposing a thesis is highly recommended.

TCH COM 5620	Research Methods in Technical Communication	3
<u>TCH COM 4520</u>	<u>Course TCH COM 4520 Not Found</u>	3
TCH COM 5510	Technical Editing	3
TCH COM 5530	Usability Studies	3
TCH COM 5610	History of Technical Communication	3
TCH COM 6600	Foundations of Technical Communication	3
TCH COM 5560	Web-Based Communication	3
TCH COM 6440	Advanced Theories of Visual Technical Communication	3
TCH COM 6450	Advanced International Technical Communication	3
TCH COM 5550	Advanced Proposal Writing	3
Total Credits		0

TCH COM 5620	Research Methods in Technical Communication	3
<u>TCH COM 4520</u>	<u>Course TCH COM 4520 Not Found</u>	3
TCH COM 5510	Technical Editing	3
TCH COM 5530	Usability Studies	3
TCH COM 5610	History of Technical Communication	3
TCH COM 6600	Foundations of Technical Communication	3
TCH COM 5560	Web-Based Communication	3
TCH COM 6440	Advanced Theories of Visual Technical Communication	3
TCH COM 6450	Advanced International Technical Communication	3
TCH COM 5550	Advanced Proposal Writing	3
Total Credits		0

Justification for request

The changes to the MS degree are the result of a lengthy curricular review involving internal and external reviewers. The goal is to make the MS degree more accessible and attractive to potential students, while strengthening it by making clear distinctions between undergraduate (3000 and 4000-level) and graduate courses.

Supporting Documents

Course Reviewer Comments

ershenb (01/27/20 2:22 pm): updated start term

Course Change Request

New Experimental Course Proposal

Date Submitted: 01/30/20 5:13 pm

Viewing: **BIO SCI 4001.007 : Freshwater Ecology Laboratory**

File: 4689

Last edit: 02/24/20 1:24 pm

Changes proposed by: niyogid

Requested	Fall 2020
Effective Change Date	
Department	Biological Sciences
Discipline	Biological Sciences (BIO SCI)
Course Number	4001
Topic ID	007
Experimental Title	Freshwater Ecology Laboratory
Experimental Abbreviated Course Title	FW Ecology Lab
Instructors	D.K. Niyogi

Experimental

Catalog

Description

This lab course will include fieldtrips and lab work to collect and process samples related to the ecology of lakes and rivers. Samples of water and life will be collected from several aquatic ecosystems in Missouri, and analyzed in the lab for water quality, biological communities, and ecosystem processes.

Prerequisites

BioSci 4363 must be taken concurrently.

Field Trip

Statement

Local fieldtrips will be required as part of the this lab course.

Credit Hours	LEC: 0	LAB: 1	IND: 0	RSD: 0	Total: 1
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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. CAT entry
8. Registrar

Approval Path

1. 01/30/20 5:43 pm
David Duvernell (duvernell):
Approved for
RBIOLSCI Chair
2. 01/31/20 9:30 am
Brittany Parnell (ershenb):
Approved for CCC
Secretary
3. 02/14/20 2:04 pm
Katie Shannon (shannonk):
Approved for
Sciences DSCC
Chair
4. 02/24/20 1:25 pm
Kristy Giacomelli-Feys (kristyg):
Approved for
Pending CCC
Agenda post

Justification for
new course:

This new offering will allow students the opportunity for experiential learning related to sampling and analysis in freshwater ecology.

Semester(s) none

previously taught

Co-Listed

Courses:

Course Reviewer

Comments

Key: 4689

[Preview Bridge](#)

Course Change Request

New Experimental Course Proposal

Date Submitted: 01/29/20 11:55 am

Viewing: **CHEM ENG 5001.011 : Chemical Engineering Instrumentation using Microcontrollers**

File: 4687

Last edit: 03/03/20 2:25 pm

Changes proposed by: luksc

Requested	Fall 2020
Effective Change Date	
Department	Chemical and Biochemical Engineering
Discipline	Chemical Engineering (CHEM ENG)
Course Number	5001
Topic ID	011
Experimental Title	Chemical Engineering Instrumentation using Microcontrollers
Experimental Abbreviated Course Title	ChE Instrumentation
Instructors	Christi Luks

Experimental

Catalog

Description

Students will learn the basics of programming micro-controllers such as Arduino and Raspberry Pi and use that to build instruments that can control chemical engineering applications.

Prerequisites

Chem Eng 3111 or instructor permission.

Field Trip

Statement

Credit Hours	LEC: 0	LAB: 1	IND: 0	RSD: 0	Total: 1
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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. CAT entry
8. Registrar

Approval Path

1. 02/01/20 11:38 am
Joseph Smith (smithjose):
Approved for RCHEMENG Chair
2. 02/03/20 3:36 pm
Brittany Parnell (ershenb):
Approved for CCC Secretary
3. 02/26/20 12:08 pm
Stephen Raper (sraper):
Approved for Engineering DSCC Chair

Justification for new course: Students on the Chem-E-Car team have an expressed interest in this and it is a natural next step after the ChemEng 3111 course. The starting application will be to

build a spectrophotometer. The students will work on a project of their choice after that.

Semester(s) n/a
previously taught

Co-Listed
Courses:

Course Reviewer
Comments

Key: 4687

[Preview Bridge](#)

Course Change Request

New Experimental Course Proposal

Date Submitted: 01/30/20 11:00 am

Viewing: **CHEM ENG 5001.012 : Senior Assessment Review**

File: 4688

Last edit: 03/03/20 2:26 pm

Changes proposed by: luksc

Requested	Fall 2020
Effective Change Date	
Department	Chemical and Biochemical Engineering
Discipline	Chemical Engineering (CHEM ENG)
Course Number	5001
Topic ID	012
Experimental Title	Senior Assessment Review
Experimental Abbreviated Course Title	Senior Assessment Review
Instructors	Peter Ryan, Christi Luks

Experimental

Catalog

Description

This course will prepare students for their senior assessment exam. Topics typically covered on the NCEES Fundamentals of Engineering (FE) exam for chemical engineers will be covered.

Prerequisites

Senior standing

Field Trip

Statement

Credit Hours	LEC: 1	LAB: 0	IND: 0	RSD: 0	Total: 1
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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. CAT entry
8. Registrar

Approval Path

1. 02/01/20 11:37 am
Joseph Smith (smithjose):
Approved for RCHEMENG Chair
2. 02/03/20 3:31 pm
Brittany Parnell (ershenb):
Approved for CCC Secretary
3. 02/26/20 12:08 pm
Stephen Raper (sraper):
Approved for Engineering DSCC Chair

Justification for new course: This course will help increase the pass rate on the FE exam

Semester(s)
previously taught

Co-Listed
Courses:

Course Reviewer
Comments

Key: 4688

[Preview Bridge](#)

Course Change Request

New Experimental Course Proposal

Date Submitted: 02/20/20 5:19 pm

Viewing: **COMP ENG 6001.002 : Adaptive Resonance Theory and Applications**

File: 4691

Last edit: 03/03/20 2:26 pm

Changes proposed by: stanleyj

Requested	Fall 2020
Effective Change Date	
Department	Electrical and Computer Engineering
Discipline	Computer Engineering (COMP ENG)
Course Number	6001
Topic ID	002
Experimental Title	Adaptive Resonance Theory and Applications
Experimental Abbreviated Course Title	Adapt Res Theory
Instructors	Donald Wunsch

Experimental

Catalog

Description

This course will cover advanced topics in adaptive resonance theory (ART), including clustering, biclustering, supervised learning, reinforcement learning, and a variety of image and data analysis techniques built on ART. Students will also encounter case studies of the predictive power of ART and related theories regarding learning mechanisms.

Prerequisites

A graduate course in neural networks, clustering, neuroscience or computational intelligence, and strong aptitude for and interest in original research.

Field Trip

Statement

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. CAT entry
8. Registrar

Approval Path

1. 02/20/20 7:44 pm
Daryl Beetner (daryl): Approved for RELECENG Chair
2. 02/24/20 12:56 pm
Kristy Giacomelli-Feys (kristyg): Approved for CCC Secretary
3. 02/26/20 12:09 pm
Stephen Raper (sraper): Approved for Engineering DSCC Chair
4. 02/26/20 1:09 pm
Kristy Giacomelli-Feys (kristyg): Rollback to Engineering DSCC

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

Justification for
new course:

This topic is attracting thousands of papers and has been applied successfully in many applications, but we have no course like it. A recent survey of innovative publications in ART is:

Leonardo Enzo Brito da Silva, Islam Elnabarawy and Donald C. Wunsch II, "A Survey of Adaptive Resonance Theory Neural Network Models for Engineering Applications," Neural Networks Special Issue In Honor of the 80th Birthday of Stephen Grossberg, Vol.120, December 2019, pp. 167-210. DOI: 10.1016/j.neunet.2019.09.012

Semester(s) none
previously taught

Co-Listed
Courses:

Course Reviewer **kristyg (02/26/20 1:09 pm):** Rollback: Rollback per request of Steve Raper
Comments

Chair for Pending
CCC Agenda post
5. 03/03/20 2:16 pm
Stephen Raper
(sraper):
Approved for
Engineering DSCC
Chair

Key: 4691

[Preview Bridge](#)

Course Change Request

New Experimental Course Proposal

Date Submitted: 02/21/20 3:56 pm

Viewing: **ELEC ENG 5001.007 : Process Control System Safety, Security and Alarms**

File: 4692

Last edit: 03/03/20 2:27 pm

Changes proposed by: kte

Requested	Fall 2020
Effective Change Date	
Department	Electrical and Computer Engineering
Discipline	Electrical Engineering (ELEC ENG)
Course Number	5001
Topic ID	007
Experimental Title	Process Control System Safety, Security and Alarms
Experimental Abbreviated Course Title	Proc Cont Safe Secur Alm
Instructors	Kelvin Erickson

Experimental

Catalog

Description

Lifecycle approach for industrial automation in the context of IEC 61511 (safety) and IEC 62443 (IACS cybersecurity) standards. Functional safety and cybersecurity fundamentals for risk analysis, safety/ cybersecurity requirements, inherently safer/secure design techniques, SIL/SL verification, operations, real-world cybersecurity attacks, alarm management.

Prerequisites Elec Eng 3340 or Chem Eng 4110

Field Trip Statement No field trips

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

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. CAT entry
8. Registrar

Approval Path

1. 02/21/20 4:19 pm
Daryl Beetner (daryl): Approved for RELECENG Chair
2. 02/24/20 12:56 pm
Kristy Giacomelli-Feys (kristyg): Approved for CCC Secretary
3. 03/03/20 2:16 pm
Stephen Raper (sraper): Approved for Engineering DSCC Chair

Justification for new course: Subject matter that is important to those in the field of process control and factory automation. This course will be taught online, using existing courses or parts of courses already offered online by Exida in these subject areas. The S&T instructor will coordinate the course, but the content will be taught by Exida engineers.

Semester(s) previously taught: Fall 2019

Co-Listed Courses: CHEM ENG 5001 - Special Topics

Course Reviewer
Comments

Key: 4692

[Preview Bridge](#)