



Campus Curricula Committee Meeting Agenda

April 1, 2020

8:15am - 9:45am, 120 Fulton Hall

(For Faculty Senate Meeting of April 16, 2020)

Review of submitted 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 |
| File 1224.1 | PHILOS 1105: Self and World: Introduction To Philosophy |
| File 2226.1 | PHILOS 1115: Logic and Reasoning |
| File 4195.5 | PHILOS 1130: How Should I Live? Justice, Happiness and the Good Life |
| File 2227.1 | PHILOS 1175: Religion and the Idea of God: Diverse Perspectives |
| File 4246.2 | PHILOS 3204: Wisdom and Virtue: An Introduction to Ancient Philosophy |
| File 1754.10 | PHILOS 3205: Science, Souls and Skepticism: Early Modern Philosophy |
| File 4196.4 | PHILOS 3302: Philosophy in the Middle Ages |



| | |
|-------------|---|
| File 4023.8 | PHILOS 4325: Who Knows What? Knowledge, Truth and Justification |
| File 2510.7 | PHILOS 4340: From Activism to Zoos: Issues in Social Ethics |
| File 1826.7 | PHILOS 4360: Who Should Rule and Why? Debates in Political Philosophy |
| File 1153.7 | THEATRE 1190: Theatre for Social Change |

Review of submitted Degree Change forms:

| | |
|--------------|---|
| File: 349 | PROPOSED: BioInnovation CTU |
| 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 |

Review of submitted 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 |



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| File: 4692 | ELEC ENG 5001.007: Process Control System Safety, Security and Alarms |

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

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

Effective Change Date

Department Materials Science & Engineering

Discipline Ceramic Engineering (CER ENG)

Course Number 4410

Title Introduction to Integrated Computational Materials Engineering

Abbreviated Course Title Intro to ICME

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

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 (kristy):
Approved for CCC Secretary
3. 03/12/20 12:16 pm
Stephen Raper (sraper):
Approved for
Engineering DSCC Chair

| | | | | | |
|---------------------|--------|--------|--------|--------|--|
| Credit Hours | LEC: 2 | LAB: 1 | IND: 0 | RSD: 0 | History 1. Jun 26, 2017 by F. Scott Miller (smiller) |
| Total: 3 | | | | | |
| Required for Majors | Yes | | | | |
| Elective for Majors | No | | | | |

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

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 [SFTYENG-CT: Safety Engineering](#)
referencing this
course

Requested **Fall 2020** ~~08/01/2014~~
Effective Change
Date
Department Chemical and Biochemical Engineering
Discipline Chemical Engineering (CHEM ENG)
Course Number 5305
Title Hazardous Materials Management
Abbreviated Hazardous Materials Mgt
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**

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

Required for
Majors

No

Elective for
Majors

Yes ~~No~~

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
Discipline Computer Engineering (COMP ENG)
Course Number 3110
Title Computer Organization and Design
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

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): Approved for CCC Secretary
3. 02/26/20 12:09 pm
Stephen Raper (sraper): Approved for Engineering DSCC Chair

History

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

1. Jun 30, 2014 by stanleyj (475.1)

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
Effective Change
Date

Fall 2020 ~~08/01/2014~~

Department Electrical and Computer Engineering

Discipline Computer Engineering (COMP ENG)

Course Number 5110

Title Principles of Computer Architecture

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

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): Approved for CCC Secretary
3. 02/26/20 12:09 pm
Stephen Raper (sraper): Approved for Engineering DSCC Chair

History

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

1. May 24, 2016 by kleb6b (1353.1)

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 Advanced Computer Architecture I

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
Majors No

Elective for
Majors No

In Workflow

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

Approval Path

1. 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

History

1. May 24, 2016 by
kleb6b (848.1)

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 | Design Automation of VLSI Systems |
| Abbreviated Course Title | Design Automation of VLSI 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 Majors | No |
|---------------------|----|

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

Justification for change:

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-

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)

Feys (kristyg):
Approved for CCC
Secretary
5. 02/26/20 12:10
pm
Stephen Raper
(sraper):
Approved for
Engineering DSCC
Chair

History

1. Jul 7, 2014 by
stanleyj (2051.1)

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 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 Total: 3

Required for Majors No

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 RENG MNGT 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

Elective for
Majors No

Justification for
change: Needs of Psychology Department have changed

Semesters
previously
offered as an
experimental
course

Co-Listed ~~PSYCH 6611 - Leadership for Engineers~~
Courses:

Course Reviewer
Comments

Key: 1662

[Preview Bridge](#)

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: 03/05/20 10:29 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 | <u>In The Prerequisites:</u> GEO ENG 5239 : Groundwater Remediation GEO ENG 5320 : Groundwater Modeling GEO ENG 5381 : Intermediate Subsurface Hydrology And Contaminant Transport Mechs GEO ENG 6331 : Advanced Subsurface Hydrology GEO ENG 6332 : Numerical Methods In Subsurface Flow |

| | |
|---------------------------------|--|
| Requested Effective Change Date | Spring 2021 2019 |
| Department | Geosciences and Geological and Petroleum Engineering |
| Discipline | Geological Engineering (GEO ENG) |
| Course Number | 5331 |
| Title | Subsurface Hydrology |
| Abbreviated Course Title | Subsurface Hydrology |

| | |
|---------------------|-------------------------------------|
| Catalog Description | Approved for Engineering DSCC Chair |
|---------------------|-------------------------------------|

In Workflow

1. **RGEOSENG Chair**
2. **CCC Secretary**
3. **Engineering DSCC Chair**
4. **Pending CCC Agenda post**
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7. FS Meeting Agenda
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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-Feys (kristyg):
Approved for CCC Secretary
3. 03/12/20 12:17 pm
Stephen Raper (sraper):
Approved for Engineering DSCC Chair

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.

History

1. Jun 20, 2018 by grotekr (1250.1)

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
Majors Yes

Elective for
Majors No

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: 02/25/20 4:36 pm

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 Spring **2021** ~~2020~~
Effective Change Date
Department Geosciences and Geological and Petroleum Engineering
Discipline Geological Engineering (GEO ENG)
Course Number 5381
Title 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

In Workflow

1. **RGEOENG 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 RGEOENG Chair
2. 03/03/20 1:53 pm
Kristy Giacomelli-Feys (kristyg):
Approved for CCC Secretary
3. 03/12/20 12:19 pm
Stephen Raper (sraper):
Approved for Engineering DSCC Chair

| | | | | | |
|--------------------------|----------|----------|--------|--------|--|
| Credit Hours Total: 3 | LEC: 2 3 | LAB: 1 0 | IND: 0 | RSD: 0 | History 1. Jun 20, 2019 by grotekr (1052.1) |
| Required for Majors | No | | | | |
| Elective for Majors | Yes | | | | |

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: 03/05/20 10:29 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 Effective Change Date: **Spring 2021** ~~08/14/2018~~

Department: Geosciences and Geological and Petroleum Engineering

Discipline: Geology (GEOLOGY)

Course Number: 4411

Title: Hydrogeology

Abbreviated Course Title: Hydrogeology

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 Majors: No

In Workflow

1. **RGEOSENG Chair**
2. **CCC Secretary**
3. **Sciences DSCC Chair**
4. **Pending CCC Agenda post**
5. CCC Meeting Agenda
6. Campus Curricula Committee Chair
7. FS Meeting Agenda
8. Faculty Senate Chair
9. Registrar
10. 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-Feys (kristyg):
Approved for CCC Secretary
3. 03/11/20 11:33 am
Katie Shannon (shannonk):
Approved for Sciences DSCC Chair

Elective for
Majors No

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: Air Force Heritage and Values I
 Abbreviated Course Title: Heritage and Values I

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 ±** LAB: **.5 0** IND: 0 RSD: 0
 Total: 1
 No

- 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

- History
1. Aug 5, 2019 by ungerb (1532.1)

Required for
Majors

Elective for
Majors No

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 Effective Change Date: Spring ~~2020~~ **2021**

Department: Aerospace Studies - Air Force ROTC

Discipline: Military Science - Air Force (MIL AIR)

Course Number: 1120

Title: Air Force Heritage and Values II

Abbreviated Course Title: Heritage and Values II

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 ±** LAB: **.5 0** IND: 0 RSD: 0
 Total: 1
 No

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

History

1. Aug 5, 2019 by ungerb (1390.1)

Required for
Majors

Elective for
Majors

No

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

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: [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: Team and Leadership Fundamentals I
 Abbreviated Course Title: Ldrshp Fundamentals I

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

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 ±** LAB: **.5 0** IND: 0 RSD: 0
 Total: 1
 No

History

1. Aug 7, 2019 by ungerb (418.1)

Required for
Majors

Elective for
Majors No

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

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 Team and Leadership Fundamentals II
Abbreviated Course Title Ldrshp Fundamentals II

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

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

History

1. Aug 5, 2019 by ungerb (1092.1)

Total: 1

Required for
Majors No

Elective for
Majors No

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

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

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 Leading People & Effective Communication I

Abbreviated Course Title Effective Comm I

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

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

History

1. Aug 5, 2019 by ungerb (419.1)

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

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](#)

Requested Effective Change Date
Spring ~~2020~~ **2021**

Department Aerospace Studies - Air Force ROTC

Discipline Military Science - Air Force (MIL AIR)

Course Number 3120

Title Leading People & Effective Communication II

Abbreviated Course Title Effective Comm II

Catalog Description

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

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 4:19 pm Sarah Johnson (johsarah): Approved for johsarah

History

1. Aug 5, 2019 by ungerb (1093.1)

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

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

Title National Security, Leadership Responsibilities & Commissioning Preparation I

Abbreviated Course Title Ntl Security Issues I

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

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): 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

| | | |
|---------------------|----|---|
| Total: 3 | | History 1. Aug 5, 2019 by ungerb (420.1) |
| 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 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. |
|--------------------------|---|

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 Effective Change Date
Spring ~~2020~~ **2021**

Department Aerospace Studies - Air Force ROTC

Discipline Military Science - Air Force (MIL AIR)

Course Number 4120

Title National Security, Leadership Responsibilities & Commissioning Preparation II

Abbreviated Course Title Ntl Security Issues II

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

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): 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

| | | | | | |
|---------------------|---------------------|---------------------|--------|--------|---|
| Credit Hours | LEC: 2 3 | LAB: 1 0 | IND: 0 | RSD: 0 | History 1. Aug 5, 2019 by ungerb (748.1) |
| 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 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 | Leadership and Personal Development |
| Abbreviated Course Title | Ldrsp and Personal Dev |

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 |
|--------------|--------|----------------------------|--------|--------|------------------------------|

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

Required for Majors No

Elective for Majors No

Justification for change:

Error in component requirements

Semesters previously offered as an experimental course

Co-Listed Courses:

Course Reviewer **kristyg (02/18/20 1:07 pm):** Rollback: Correcting workflow issues
Comments

(krista): Approved for krista

5. 02/24/20 1:11 pm
Kristy Giacomelli-Feys (kristyg):
Approved for Pending CCC Agenda post

History

1. Nov 25, 2019 by bakervi (751.1)

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: 02/18/20 1:22 pm

Changes proposed by: eckertr

| | |
|------------------|-------------------------------------|
| Requested | Spring 2020 |
| Effective Change | |
| Date | |
| Department | Military Science - Army ROTC |
| Discipline | Military Science - Army (MIL ARMY) |
| Course Number | 1500 |
| Title | 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 ±**

Required for
Majors No

Elective for
Majors No

Justification for
change:

Error in component requirements

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

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

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

(krista): Approved
for krista

5. 02/24/20 1:11 pm
Kristy Giacomelli-
Feys (kristyg):
Approved for
Pending CCC
Agenda post

History

1. Nov 25, 2019 by
bakervi (421.1)

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 | Innovative Team Leadership |
| Abbreviated | Innovative Team Ldrsp |
| Course 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

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 ± | IND: 0 | RSD: 0 | Total: 3 4 |
| Required for Majors | No | | | | |
| Elective for Majors | No | | | | |

Justification for change:
 Error in component requirements

- 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

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

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

(krista): Approved
for krista

5. 02/24/20 1:12 pm
Kristy Giacomelli-
Feys (kristyg):
Approved for
Pending CCC
Agenda post

History

1. Nov 25, 2019 by
bakervi (1734.1)

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: 02/18/20 1:25 pm

Changes proposed by: eckertr

Other Courses
referencing this
course

In The Prerequisites:

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

Requested Spring 2020
Effective Change
Date

Department Military Science - Army ROTC

Discipline Military Science - Army (MIL ARMY)

Course Number 2500

Title 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
Majors No

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

Elective for Majors No

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

(krista): Approved for krista

5. 02/24/20 1:12 pm Kristy Giacomelli-Feys (kristyg): Approved for Pending CCC Agenda post

History

1. Oct 7, 2019 by bakervi (1395.1)

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: 02/18/20 2:01 pm

Changes proposed by: eckertr

| | |
|--------------------------|------------------------------------|
| Requested | 08/14/2018 |
| Effective Change Date | |
| Department | Military Science - Army ROTC |
| Discipline | Military Science - Army (MIL ARMY) |
| Course Number | 2750 |
| Title | Basic Leadership Laboratory |
| Abbreviated Course Title | Basic Leadership Lab |

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 | Total: 1 |
| Required for Majors | No | | | | |
| Elective for Majors | No | | | | |

Justification for change:

To allow non contracted cadets to enroll

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

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

- 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

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: 02/14/20 3:13 pm

Changes proposed by: lorief

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

Effective Change

Date

Department Arts, Languages, & Philosophy

Discipline Music (MUSIC)

Course Number 1130

Title 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 Majors No

Elective for Majors No

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.

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

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

4. 02/24/20 1:13 pm
Kristy Giacomelli-
Feys (kristyg):
Approved for
Pending CCC
Agenda post

History

1. May 24, 2016 by
denises (916.1)

Key: 916

[Preview Bridge](#)

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: 02/13/20 4:24 pm

Changes proposed by: lorief

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

Effective Change

Date

Department Arts, Languages, & Philosophy

Discipline Music (MUSIC)

Course Number 1131

Title 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: **1** ~~2~~ IND: 0 RSD: 0 Total: **1** ~~2~~

Required for Majors No

Elective for Majors No

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.

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

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

4. 02/24/20 1:13 pm
Kristy Giacomelli-
Feys (kristyg):
Approved for
Pending CCC
Agenda post

History

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

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: 02/13/20 4:25 pm

Changes proposed by: lorief

| | |
|--------------------------|--|
| Requested | Fall 2020 08/01/2014 |
| Effective Change Date | |
| Department | Arts, Languages, & Philosophy |
| Discipline | Music (MUSIC) |
| Course Number | 1132 |
| Title | University Orchestra |
| Abbreviated Course Title | University Orchestra |

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 Majors No

Elective for Majors No

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.

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 4:16 pm
Petra Dewitt (dewittp):
Approved for Arts & Humanities DSCC Chair

Semesters
previously
offered as an
experimental
course

4. 02/24/20 1:14 pm
Kristy Giacomelli-
Feys (kristyg):
Approved for
Pending CCC
Agenda post

Co-Listed
Courses:

Course Reviewer
Comments

Key: 1780

[Preview Bridge](#)

Course Change Request

Date Submitted: 02/05/20 3:57 pm

Viewing: **PHILOS 1105 : Self and World: Introduction To Philosophy**

File: 1224.1

Last edit: 02/17/20 9:30 am

Changes proposed by: gamezp

Programs referencing this course

- [PRE LAW-MI: Pre Law Minor](#)
- [CHEM-BA: Chemistry BA](#)
- [PHIL-MI: Philosophy Minor](#)
- [PHILTCH-MI: Philosophy of Technology Minor](#)
- [PHIL-BS: Philosophy BS](#)
- [ETHICS-MI: Ethics Minor](#)

Requested Fall **2020** ~~2018~~
 Effective Change
 Date

Department Arts, Languages, & Philosophy

Discipline Philosophy (PHILOS)

Course Number 1105

Title **Self and World:** Introduction To Philosophy

Abbreviated **Self and World** ~~Introd To~~
 Course Title ~~Philosophy~~

Catalog
 Description

What is real? What is human being? How can we know any of these things? This course is a ~~An historical~~ survey of the major approaches to philosophical problems, especially those of the nature of reality, human nature, and conduct. **Students will both be introduced to the study of philosophy and develop skills in creative inquiry and critical reasoning.**

Prerequisites
 Entrance requirements.

Field Trip
 Statement

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. 02/05/20 6:07 pm
Audra Merfeld-Langston (audram):
Approved for RPHILOS Chair
2. 02/17/20 9:30 am
Kristy Giacomelli-Feys (kristygf):
Approved for CCC Secretary
3. 02/17/20 9:32 am
Petra Dewitt (dewittp):
Approved for Arts & Humanities DSCC Chair

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

4. 02/24/20 1:14 pm
 Kristy Giacomelli-Feys (kristyg):
 Approved for
 Pending CCC
 Agenda post

Justification for change:

We want our course names to be even slightly more informative for students with no background in philosophy; we feel this title - while broad - is both informative about the vast scope of philosophical topics and also evocative enough to interest students who might otherwise be interested in an elective but don't know enough about the topics.

The course description change is also designed to be more informative, and give students a sense of the material they will be covering (while also freeing instructors with a more contemporary approach from being obligated to teach the course historically).

Semesters previously offered as an experimental course

Co-Listed Courses:

Course Reviewer
 Comments

Key: 1224

[Preview Bridge](#)

Course Change Request

Date Submitted: 02/05/20 4:48 pm

Viewing: **PHILOS 1115 : ~~Introduction To~~ Logic and Reasoning**

File: 2226.1

Last edit: 02/17/20 9:34 am

Changes proposed by: gamezpz

| | |
|----------------------------------|--|
| Programs referencing this course | PRE LAW-MI: Pre Law Minor PHILTCH-MI: Philosophy of Technology Minor PHIL-BS: Philosophy BS ETHICS-MI: Ethics Minor MIL SC-MI: Adaptive Leadership Minor |
|----------------------------------|--|

Requested Effective Change Date: Fall ~~2020~~ **2018**

Department: Arts, Languages, & Philosophy

Discipline: Philosophy (PHILOS)

Course Number: 1115

Title: ~~Introduction To~~ Logic **and Reasoning**

Abbreviated Course Title: ~~Introduction To~~ Logic **and Reasoning**

Catalog Description:

Beliefs should be supported by reasons. But are these reasons good enough? How could one know? Logic! In this course, students will learn about reason assessment by acquiring logical and critical thinking skills. Topics may include categorical logic, A study of the basic rules of both formal and symbolic logic, informal logic, fallacies, and the logic of science. logic, including types of argumentation, methods of reasoning, valid reasoning, inductive and deductive reasoning as used in the sciences and in communication in general.

Prerequisites: Entrance requirements.

Field Trip Statement

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

- 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. 02/05/20 6:08 pm
Audra Merfeld-Langston (audram):
Approved for RPHILOS Chair
 2. 02/17/20 9:30 am
Kristy Giacomelli-Feys (kristyg):
Approved for CCC Secretary
 3. 02/17/20 9:34 am
Petra Dewitt (dewittp):
Approved for Arts & Humanities DSCC Chair

| | |
|---------------------|----|
| Required for Majors | No |
| Elective for Majors | No |

4. 02/24/20 1:15 pm
 Kristy Giacomelli-Feys (kristygf):
 Approved for
 Pending CCC
 Agenda post

Justification for change:

The title change makes explicit to students that the logic studied in this course is fundamentally about reasoning and thinking better. The update course description avoids technical terms to make the content more accessible to undergrads who might not realize that logic is not only a technical skill in various engineering specialties but an area of study with direct relevance to their everyday reasoning.

Semesters previously offered as an experimental course

Co-Listed Courses:

| | |
|--------------------------|--|
| Course Reviewer Comments | dewittp (02/17/20 9:34 am): Updated language in description |
|--------------------------|--|

Key: 2226

[Preview Bridge](#)

Course Change Request

Date Submitted: 02/05/20 3:45 pm

Viewing: **PHILOS 1130 : How Should I Live? Justice, Happiness, and the Good Life** ~~Introduction to Ethics~~

File: 4195.5

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

Last edit: 02/17/20 9:30 am

Changes proposed by: gamezpz

Programs
referencing this
course

[ETHICS-MI: Ethics Minor](#)

Requested **Fall 2020** ~~08/17/2015~~

Effective Change
Date

Department Arts, Languages, & Philosophy

Discipline Philosophy (PHILOS)

Course Number 1130

Title **How Should I Live? Justice, Happiness, and the Good Life** ~~Introduction to Ethics~~

Abbreviated **How Should I Live?**

Course Title ~~Introduction to Ethics~~

Catalog
Description

What should we do? What's the right course of action here? We confront these sorts of questions all the time. And sometimes we are able to step back and make a broader inquiry, like "How should I live, in general?" In this course we will get a grasp on the moral theories that seek to explain morality and ethically guide our behavior. A complex and rich tradition in philosophical thought, Ethics—from the Ancient Greeks up into contemporary thought philosophers—returns again and again to discuss theories in proper behavior. No previous exposure to philosophy is required.

Prerequisites

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. 02/10/20 9:26 am
Audra Merfeld-Langston (audram):
Approved for RPHILOS Chair
2. 02/17/20 9:30 am
Kristy Giacomelli-Feys (kristygf):
Approved for CCC Secretary
3. 02/17/20 9:37 am
Petra Dewitt (dewittp):
Approved for Arts & Humanities DSCC Chair

Field Trip Statement
None.

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

Required for Majors No

Elective for Majors Yes

4. 02/24/20 1:15 pm
Kristy Giacomelli-Feys (kristyg):
Approved for Pending CCC Agenda post

History

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

Justification for change:

First of all, a more substantial and informative, as well as less daunting, course description is required; the title change will also communicate this information more clearly to students unfamiliar with moral philosophy in everyday language.

Semesters Summer 2013, Spring 2015

previously offered as an experimental course

Co-Listed Courses:

Course Reviewer Comments

Key: 4195

[Preview Bridge](#)

Course Change Request

Date Submitted: 02/05/20 5:00 pm

Viewing: **PHILOS 1175 : Religion and the Idea of God: Diverse Perspectives** ~~Comparative Religious Philosophy~~

File: 2227.1

Last edit: 02/17/20 9:38 am

Changes proposed by: gamezp

Programs referencing this course

- [ECON-BS: Economics BS](#)
- [ETHICS-MI: Ethics Minor](#)

Requested Fall ~~2018~~ **2020**

Effective Change Date

Department Arts, Languages, & Philosophy

Discipline Philosophy (PHILOS)

Course Number 1175

Title **Religion and the Idea of God: Diverse Perspectives** ~~Comparative Religious Philosophy~~

Abbreviated Course Title **Religion Diverse Perspec**

~~Comparative Relig-Phil~~

Catalog Description

A comparison of the philosophic ideas and foundations of the major Eastern and Western religions.

Prerequisites

Entrance requirements.

Field Trip Statement

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

Required for Majors No

In Workflow

- RPHILOS Chair**
- CCC Secretary**
- Arts & Humanities DSCC Chair**
- Pending CCC Agenda post**
- CCC Meeting Agenda**
- Campus Curricula Committee Chair
- FS Meeting Agenda
- Faculty Senate Chair
- Registrar
- CAT entry
- Peoplesoft

Approval Path

- 02/05/20 6:10 pm Audra Merfeld-Langston (audram): Approved for RPHILOS Chair
- 02/17/20 9:30 am Kristy Giacomelli-Feys (kristyg): Approved for CCC Secretary
- 02/17/20 9:38 am Petra Dewitt (dewittp): Approved for Arts & Humanities DSCC Chair

Elective for Majors No

4. 02/24/20 1:16 pm
Kristy Giacomelli-Feys (kristyg):
Approved for
Pending CCC
Agenda post

Justification for change:

Today's students have very little familiarity with philosophy, let alone "comparative" philosophy, and this name change makes explicit some of the core topics of comparative religious philosophy, and also makes clear that we will be exploring very diverse approaches to the topics.

Semesters previously offered as an experimental course

Co-Listed Courses:

Course Reviewer **dewittp (02/17/20 9:38 am):** Updated abbreviated course title to fit new title
Comments

Key: 2227

[Preview Bridge](#)

Course Change Request

Date Submitted: 02/05/20 5:07 pm

Viewing: **PHILOS 3204 : Wisdom and Virtue: An Introduction to Ancient Philosophy**

File: 4246.2

Last approved: 10/19/15 3:34 am

Last edit: 02/17/20 9:31 am

Changes proposed by: gamezpz

| | |
|------------------|---|
| Requested | Fall 2020 01/12/2016 |
| Effective Change | |
| Date | |
| Department | Arts, Languages, & Philosophy |
| Discipline | Philosophy (PHILOS) |
| Course Number | 3204 |
| Title | Wisdom and Virtue: An Introduction to Ancient Philosophy |
| Abbreviated | Wisdom and Virtue Ancient |
| Course Title | Philosophy |

Catalog

Description

An exploration ~~A study~~ of central themes in ancient philosophy, including ~~selected philosophical works from~~ the nature of knowledge and reality, the path ~~pre-Socratics~~ to virtue and the importance of wisdom, through the reading of key texts in ancient philosophy. ~~William of Occam.~~ Some semesters this course may include non-Western philosophy as well.

Prerequisites

An introductory (below 2000) level Philosophy course.

Field Trip

Statement

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

In Workflow

1. 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. 02/05/20 6:11 pm
Audra Merfeld-Langston (audram):
Approved for RPHILOS Chair
2. 02/17/20 9:31 am
Kristy Giacomelli-Feys (kristyg):
Approved for CCC Secretary
3. 02/17/20 9:39 am
Petra Dewitt (dewittp):
Approved for Arts & Humanities DSCC Chair

Justification for
change:

The previous description and course title were not sufficiently informative for prospective students. Further, ancient philosophy is distinctive in its approaches and central concerns - it is not simply "old" philosophy, to be studied for its own sake, and both the title and description should reflect this.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

4. 02/24/20 1:16 pm
Kristy Giacomelli-
Feys (kristyg):
Approved for
Pending CCC
Agenda post

History

- 1. Oct 19, 2015 by
Denise Sharp
(denises)

Key: 4246

[Preview Bridge](#)

Course Change Request

Date Submitted: 02/05/20 5:36 pm

Viewing: **PHILOS 3205 : Science, Souls, and Skepticism: Early Modern Philosophy**

File: 1754.10

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

Last edit: 02/17/20 9:31 am

Changes proposed by: gamezpz

| | |
|------------------|--|
| Requested | Fall 2020 01/12/2016 |
| Effective Change | |
| Date | |
| Department | Arts, Languages, & Philosophy |
| Discipline | Philosophy (PHILOS) |
| Course Number | 3205 |
| Title | Science, Souls, and Skepticism: Early Modern Philosophy |
| Abbreviated | Early Modern Philosophy |
| Course Title | |

Catalog

Description

This course explores how radical shifts in worldview the development of the early modern period impacted the themes rationalism, empiricism, and methods of philosophy, such as empiricism, rationalism, and skepticism, and what we can learn skepticism in early modern Europe, from them today. Descartes through Hume. Figures studied may range from Hobbes, Bacon, and Descartes to Hume.

Prerequisites

A previous class in philosophy is recommended.

Field Trip

Statement

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

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

| | |
|---------------------|-----|
| Elective for Majors | Yes |
|---------------------|-----|

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. 02/05/20 6:11 pm
Audra Merfeld-Langston (audram):
Approved for RPHILOS Chair
2. 02/17/20 9:31 am
Kristy Giacomelli-Feys (kristyg):
Approved for CCC Secretary
3. 02/17/20 9:39 am
Petra Dewitt (dewittp):
Approved for Arts & Humanities DSCC Chair

Justification for change:

While "early modern philosophy" is useful for professional philosophers and historians of ideas, it does not give a sufficient sense of the main topics or figures for undergraduate students. The new title and description are much more informative.

Semesters previously offered as an experimental course

Co-Listed Courses:

Course Reviewer Comments

4. 02/24/20 1:18 pm
Kristy Giacomelli-Feys (kristyg):
Approved for
Pending CCC
Agenda post

History

- 1. Sep 21, 2015 by denises (1754.1)

Key: 1754

[Preview Bridge](#)

Course Change Request

Date Submitted: 02/05/20 5:37 pm

Viewing: **PHILOS 3302 : Philosophy in the Middle Ages Medieval Philosophy**

File: 4196.4

Last approved: 05/04/15 3:20 am

Last edit: 02/17/20 9:31 am

Changes proposed by: gamezpz

| | |
|------------------|---|
| Requested | Fall 2020 08/17/2015 |
| Effective Change | |
| Date | |
| Department | Arts, Languages, & Philosophy |
| Discipline | Philosophy (PHILOS) |
| Course Number | 3302 |
| Title | Philosophy in the Middle Ages Medieval Philosophy |
| Abbreviated | Medieval Philosophy |
| Course Title | |

Catalog

Description

A critical study of the important philosophies of the period from Augustine to the Renaissance. Although there is no formal prerequisite, it is recommended that students have taken at least one other philosophy course.

Prerequisites

A previous class in philosophy is recommended.

Field Trip

Statement

None

Credit Hours

LEC: 3

LAB: 0

IND: 0

RSD: 0

Total: 3

Required for

No

Majors

Elective for

Yes

Majors

Justification for change:

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. 02/06/20 8:49 pm
Audra Merfeld-Langston (audram):
Approved for RPHILOS Chair
2. 02/17/20 9:31 am
Kristy Giacomelli-Feys (kristyg):
Approved for CCC Secretary
3. 02/17/20 9:40 am
Petra Dewitt (dewittp):
Approved for Arts & Humanities DSCC Chair

The new title will be more appealing to students, and communicate the same content without the ominous connotations of "medieval."

Semesters
previously
offered as an
experimental
course

Summer 2010, Spring 2015

Co-Listed

Courses:

Course Reviewer

Comments

4. 02/24/20 1:20 pm
Kristy Giacomelli-
Feys (kristyg):
Approved for
Pending CCC
Agenda post

History

1. May 4, 2015 by
Denise Sharp
(denises)

Key: 4196

[Preview Bridge](#)

Course Change Request

Date Submitted: 02/05/20 5:41 pm

Viewing: **PHILOS 4325 : Who Knows What?**

Epistemology: Knowledge, Truth, Knowledge and Justification

File: 4023.8

Last approved: 05/01/14 4:14 am

Last edit: 02/17/20 9:31 am

Changes proposed by: gamezpz

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

Effective Change

Date

Department Arts, Languages, & Philosophy

Discipline Philosophy (PHILOS)

Course Number 4325

Title **Who Knows What?** ~~Epistemology: Knowledge, Truth, Knowledge and Justification~~

Abbreviated **Who Knows What?**

Course Title ~~Epistemology~~

Catalog

Description

What is knowledge? Do we have it? Can we know that we have it? How do we get it? Where do we get it? Are there different kinds of knowledge? Scientific knowledge? Mathematical knowledge? Moral knowledge? Perceptual knowledge? And what's up with justification? In this course you will learn about ~~An introduction to the field of~~ epistemology, the study of **knowledge**. ~~the scope, the limits, the sources, and the nature of knowledge and justified belief. Includes analyses of knowledge and justification, skepticism, scientific knowledge, and naturalism, among other topics.~~

Prerequisites

Any 1000 or higher level philosophy course. Philosophy 1105 recommended.

Field Trip

Statement

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

Required for No

Majors

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. 02/06/20 8:51 pm

Audra Merfeld-Langston

(audram):

Approved for RPHILOS Chair

2. 02/17/20 9:31 am

Kristy Giacomelli-Feys (kristygf):

Approved for CCC Secretary

3. 02/17/20 9:40 am

Petra Dewitt

(dewittp):

Approved for Arts & Humanities DSCC Chair

Elective for Majors Yes

4. 02/24/20 1:21 pm
Kristy Giacomelli-Feys (kristyg):
Approved for
Pending CCC
Agenda post

Justification for change:

Even higher level students will be unfamiliar with technical terms like "epistemology." The new title accurately conveys the content of the course, and the new description uses familiar language to describe the central questions that the course explores.

Semesters previously offered as an experimental course

Fall 2012, Fall 2013

Co-Listed Courses:

History

- 1. May 1, 2014 by Denise Sharp (denises)

Course Reviewer Comments

Key: 4023

[Preview Bridge](#)

Course Change Request

Date Submitted: 02/05/20 5:55 pm

Viewing: **PHILOS 4340 : From Activism to Zoos: Issues in Social Ethics**

File: 2510.7

Last approved: 03/06/17 3:15 am

Last edit: 02/17/20 9:31 am

Changes proposed by: gamezpz

| | |
|---------------------------------------|---|
| Programs referencing this course | MUL&DIV-MI: Multiculture & Diversity Minor PRE LAW-MI: Pre Law Minor CMP SC-BS: Computer Science BS ECON-BS: Economics BS ETHICS-MI: Ethics Minor |
| Other Courses referencing this course | In The Prerequisites: COMP SCI 4090 : Software Engineering Capstone I |

| | |
|---------------------------------|---|
| Requested Effective Change Date | Fall 2020 08/14/2017 |
| Department | Arts, Languages, & Philosophy |
| Discipline | Philosophy (PHILOS) |
| Course Number | 4340 |
| Title | From Activism to Zoos: Issues in Social Ethics |
| Abbreviated Course Title | Social Ethics |

| | |
|---------------------|--|
| Catalog Description | This Communication Emphasized course discusses ethical issues confronting society and the arguments offered for alternative laws and public policies. Topics might include: freedom of speech/action, government regulation, welfare, capital punishment, euthanasia, abortion, the environment, affirmative action, just wars, foreign aid, world hunger. |
| Prerequisites | Any philosophy course. |

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. 02/05/20 6:13 pm
Audra Merfeld-Langston (audram):
Approved for RPHILOS Chair
2. 02/17/20 9:31 am
Kristy Giacomelli-Feys (kristyg):
Approved for CCC Secretary
3. 02/17/20 9:40 am
Petra Dewitt (dewittp):
Approved for Arts & Humanities DSCC Chair

Field Trip Statement

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

Required for Majors No

Elective for Majors No

4. 02/24/20 1:21 pm
Kristy Giacomelli-Feys (kristyg):
Approved for Pending CCC Agenda post

History

1. Mar 6, 2017 by dittmerj (2510.1)

Justification for change:

The original title was wildly uninformative, and did not do enough to differentiate this course, which is an application-focused study of concrete ethical issues, from a regular ethics course, which would focus on normative theory as such.

Semesters previously offered as an experimental course

Co-Listed Courses:

Course Reviewer Comments

Key: 2510

[Preview Bridge](#)

Course Change Request

Date Submitted: 02/05/20 5:58 pm

Viewing: **PHILOS 4360 : Who Should Rule and Why? Debates in Political Philosophy** ~~Foundations Of Political Conflict~~

File: 1826.7

Last approved: 03/06/17 3:15 am

Last edit: 02/17/20 9:32 am

Changes proposed by: gamezpz

Programs referencing this course

- [PRE LAW-MI: Pre Law Minor](#)
- [ETHICS-MI: Ethics Minor](#)

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

Effective Change Date

Department Arts, Languages, & Philosophy

Discipline Philosophy (PHILOS)

Course Number 4360

Title **Who Should Rule and Why? Debates in Political Philosophy** ~~Foundations Of Political Conflict~~Abbreviated Course Title **Who Should Rule and Why?** ~~Found-Political Conflict~~

Catalog Description

This course is designed as a survey of the philosophical **foundations** ~~foundation~~-of major political systems. For example, **liberalism, communitarianism**, communism, fascism, democracy. Materials will be drawn from relevant historical and/or contemporary sources.

Prerequisites

Any philosophy course.

Field Trip

Statement

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

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. 02/05/20 6:13 pm
Audra Merfeld-Langston (audram):
Approved for RPHILOS Chair
2. 02/17/20 9:32 am
Kristy Giacomelli-Feys (kristygf):
Approved for CCC Secretary
3. 02/17/20 9:41 am
Petra Dewitt (dewittp):
Approved for Arts & Humanities DSCC Chair

| | |
|---------------------|----|
| Required for Majors | No |
| Elective for Majors | No |

4. 02/24/20 1:22 pm
 Kristy Giacomelli-Feys (kristyg):
 Approved for
 Pending CCC
 Agenda post

Justification for change:

The original title was misleading and only tangentially related to the course description. The latter has been updated to more accurately reflect standard topics in political philosophy.

Semesters previously offered as an experimental course

Co-Listed Courses:

History

1. Mar 6, 2017 by
 dittmerj (1826.1)

Course Reviewer
 Comments

Key: 1826

[Preview Bridge](#)

Course Change Request

Date Submitted: 02/20/20 9:30 am

Viewing: **THEATRE 1190 : Theatre for Social Change Theatre via Video**

File: 1153.7

Last approved: 10/16/17 11:56 am

Last edit: 02/20/20 9:30 am

Changes proposed by: kristy

Programs referencing this course

- [THEATRE-MI: Theatre Minor](#)
- [CHEM-BA: Chemistry BA](#)
- [ECON-BS: Economics BS](#)

Requested **Fall 2020 01/12/2016**

Effective Change Date

Department Arts, Languages, & Philosophy

Discipline Theatre (THEATRE)

Course Number 1190

Title **Theatre for Social Change Theatre via Video**

Abbreviated **Theatr for Social Change**

Course Title **Theatre via Video**

Catalog

Description

A survey of theatrical productions in their historical contexts. We will also explore ways in which theatre engages perceptions, behaviors, and social conditions in audiences and practitioners. No previous theatre experience is required. Provides knowledge and internal understanding of theatre. After watching plays on video through online resources on the student's own time and live productions, students will meet as a class weekly to discuss. Online journaling and field trip required. Approximately \$12 cost for online resources. \$5 for live performances.

Prerequisites

Field Trip

Statement

Field trip required.

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. 02/20/20 9:29 am
Kristy Giacomelli-Feys (kristyg):
Rollback to Initiator
2. 02/21/20 8:27 am
Audra Merfeld-Langston (audram):
Approved for RPHILOSO Chair
3. 02/24/20 12:56 pm
Kristy Giacomelli-Feys (kristyg):
Approved for CCC Secretary

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

4. 02/24/20 1:03 pm
 Petra Dewitt
 (dewittp):
 Approved for Arts
 & Humanities
 DSCC Chair

Justification for
 change:

The title of the class no longer properly represents the curriculum of the class and we feel the title change would better reflect what to expect in the course

Semesters
 previously
 offered as an
 experimental
 course

Co-Listed
 Courses:

History

1. Oct 16, 2017 by
 denises (1153.1)

Course Reviewer **kristyg (02/20/20 9:29 am)**: Rollback: Added course description per department
 Comments

Key: 1153

[Preview Bridge](#)

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 |
|--------------|--------|--------|--------|--------|----------|

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](#)

Program Change Request

Date Submitted: 03/05/20 5:05 pm

Viewing: **BIO SC-BS : Biological Sciences BS**

File: 147.17

Last approved: 01/30/20 3:27 pm

Last edit: 03/05/20 5:05 pm

Changes proposed by: shannonk

Catalog Pages Using this Program

[Biological Sciences](#)

Start Term

Fall 2020

Program Code

BIO SC-BS

Department

Biological Sciences

Title

Biological Sciences BS

Program Requirements and Description

In Workflow

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

Approval Path

1. 03/10/20 10:33 am
David Duvernell (duverneld):
Approved for
RBIOLSCI Chair
2. 03/10/20 10:42 am
Kristy Giacomelli-Feys (kristyg):
Approved for CCC Secretary
3. 03/11/20 11:33 am
Katie Shannon (shannonk):
Approved for
Sciences DSCC 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)

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 | General Biology | 3 |
| or BIO SCI 1213 | Principles of Biology | |
| 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 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 | Microbiology Lab | |
| or BIO SCI 3339 | Human Anatomy Physiology I Lab | |
| or BIO SCI 3349 | Human Anatomy and Physiology II Laboratory | |
| or BIO SCI 4329 | 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 | College Physics I | |
| or PHYSICS 1135 | Engineering Physics I | |
| PHYSICS 2145 | College Physics II | |
| or PHYSICS 2135 | Engineering Physics II | |
| Math and Statistics | | 8-9 |
| MATH 1208 | Calculus With Analytic Geometry I | |
| or MATH 1214 | Calculus For Engineers I | |
| or MATH 1212 | Business Calculus | |
| STAT 5425 | Course STAT 5425 Not Found | |
| 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 | Modern Western Civilization (or equivalent) | |
| or HISTORY 1300 | American History To 1877 | |
| or HISTORY 1310 | American History Since 1877 | |
| or POL SCI 1200 | 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

Supporting Documents

Course Reviewer Comments

Key: 147

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 |
|--------------|--------|--------|--------|--------|----------|

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 |
|--------------|--------|--------|--------|--------|----------|

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](#)

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](#)

Start Term

Fall **2020** ~~2018~~

Program Code

PRE-MED-MI

Department

College of Arts & Sciences

Title

Pre-Medicine Minor

Program Requirements and Description

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

Approval Path

1. 03/11/20 2:42 pm
Kristy Giacomelli-Feys (kristyg):
Approved for CCC Secretary

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](#)

Principles of Biology

5

| | | |
|--|--|----------|
| & BIO SCI 1219 | and General Biology Lab | |
| 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

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

Program Requirements and Description

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 (duverneld):
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 (duverneld):
Approved for
RBIOLSCI Chair
4. 01/31/20 11:34 pm
siauk: Approved for
RBUSADMN Chair
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

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

Key: 349

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

Program Requirements and Description

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 RENGLISH 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

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 ~~If the student chooses to do a PhD in 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 |
| TCH COM 4520 | Course TCH COM 4520 Not Found | 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

Key: 135