

Minutes of the Campus Curricula Committee Meeting

August 12th, 2025

8:15 am, Parker Hall 203

(For Faculty Senate Meeting of September 18th, 2025)

Attendees: Petra DeWitt, Cecil Eng Huang Chua, Katie Shannon, Michael Davis, Eric Showalter, Cihan Dagli, Kyle Perry, Alejandra Sobrado, Crystal Wilson, and Jade McCain.

The following curriculum forms were discussed and approved:

Course Change forms:

File: 10305	ART 1790 : Introduction to Glassmaking
File: 5023	BME 5100 : Drug and Gene Delivery Systems
File: 5024	BME 5200 : Materials as Hard Tissue Devices
File: 5025	BME 5300 : Vaccine Manufacturing
File: 5043	BME 6400 : Biomanufacturing
File: 5044	BME 6500 : Pharmaceutical Process Engineering
File: 1817	CHEM 1319 : General Chemistry Laboratory
File: 10311	CHEM ENG 5390 : Energy Engineering
File: 6363	ENGLISH 2241 : Young Adult Literature
File: 10327	KC 5001 : Special Topics
File: 1128	MIN ENG 4097 : Capstone Design Project
File: 1257	MIN ENG 5113 : Mine Atmosphere Control
File: 1599	MIN ENG 5742 : Sustainability in Mining
File: 10326	MIN ENG 6141 : Computational Fluid Dynamics for Particulate and Fire Simulations
File: 4317	MIN ENG 6712 : Managing Social and Environmental Risks in Mining
File: 2176	MIN ENG 6735 : Sustainability Assessment In Mining
File: 9020	MIN ENG 6922 : Optimization Applications In Mining
File: 1374	PSYCH 4310 : Psychology Of The Exceptional Child
File: 905	SP&M S 3255 : Discussion And Conference Methods
File: 10038	STAT 3113 : Applied Engineering Statistics
File: 10313	TCH COM 3591 : Writing for the Games Industry
File: 10315	TCH COM 3592 : Critical Game Analysis
File: 10317	TCH COM 3593 : Creating Narrative Games, Interactive Fiction, and Simulations
File: 10321	TCH COM 3640 : Video Design and Editing
File: 10323	TCH COM 5630 : Persuasive AI
File: 10322	TCH COM 5640 : Advanced Video Design and Editing

Program Change forms:

File: 259	GAME-MI : Game Studies Minor
File: 347	GEOPHY-CT : Geophysics Graduate CT

Experimental Course forms:

File: 526	AERO ENG 5001.018: Numerical Optimization in Dynamic Systems and Control
File: 531	BIO SCI 5001.029: Fish Biology
File: 529	BIO SCI 6001.022: Drugs We Use and Abuse
File: 530	BIO SCI 6001.023: Analysis, Interpretation, and Presentation of Biological Data
File: 527	ENG MGT 5001.002: Team Innovation Projects
File: 523	HISTORY 4001.048: Leadership in History
File: 524	HISTORY 4001.049: France and the Second World War
File: 521	MECH ENG 5001.45: Biomanufacturing and Biofabrication for Mechanical Engineers
File: 525	MIN ENG 6001.036: Advanced Mining Economics and Risks Management
File: 520	PHYSICS 5001.005: Quantum Science and Technology
File: 528	PHYSICS 5001.006: Introduction to superconductivity
File: 522	PHYSICS 6001.009: Quantum Field Theory
File: 519	PSYCH 5001.005: Workplace Psychology for Business Leaders

New Business:

Cecil Eng Huang Chua was selected as the CCC Chair.
The 2025-2026 CCC Calendar was approved.

The meeting adjourned at 9:15 am.

A handwritten signature in black ink, appearing to read "Cecil Eng Huang Chua", written over a horizontal line.

Dr. Cecil Eng Huang Chua, Chair
Missouri S&T Campus Curricula Committee

Course Change Request

New Course Proposal

Date Submitted: 04/29/25 2:40 pm

Viewing: **ART 1790 : Introduction to Glassmaking**

Last edit: 04/30/25 8:48 am

Changes proposed by: Christina Harrison (cht3m)

Requested Effective Date	Spring 2026
Department	Arts, Languages & Philosophy (RPHILOSO)
Discipline	Art (ART)
Course Number	1790
Title	Introduction to Glassmaking
Abbreviated Course Title	Intro to Glassmaking
Co-Listed Course	

Catalog Description

In Workflow

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

Approval Path

1. 04/29/25 2:52 pm
Irina Ivliyeva (ivliyeva): Approved for RPHILOSO Chair
2. 04/30/25 8:48 am
Jade McCain (jm558v): Approved for CCC Secretary
3. 04/30/25 8:55 am
Petra Dewitt (dewittp): Approved for Arts & Humanities DSCC Chair
4. 07/25/25 12:10 pm
Jade McCain (jm558v): Approved

for Pending CCC
 Agenda post
 5. 08/13/25 8:22 am
 Jade McCain
 (jm558v): Approved
 for CCC Meeting
 Agenda
 6. 08/13/25 8:32 am
 Cecil Eng Huang
 Chua (cchua):
 Approved for
 Campus Curricula
 Committee Chair

This studio course introduces fundamental skills in glassmaking. Students will utilize a wide range of traditional and unconventional techniques to answer essential questions. This course will cover the historical and contemporary contexts of glass while demonstrating techniques in furnace-working and cold-working. Students will engage in weekly practice sessions in the furnace in order to complete their assignments.

Prerequisite(s):

Corequisite(s):

Credit Hours

Credit Hours

Credit Type	Credit Hours
Lecture	3

Total: 3

Required for Majors No

Elective for Majors Yes

Communication No
 Intensive

Communication No
 Emphasized

Grading Basis	Graded
Repeatable	No

Justification

Promote a cross-disciplinary interaction between students of CASE (ALP) and CEC (Material Science and Engineering) through material experience and manipulation while expanding creativity and adaptability from access to a specialized medium. Make Missouri S&T's glass studio more accessible to a broader range of students. The class was successfully offered first time in Fall 2024 (enrollment -10) and the second time in Spring 2025 (enrollment - 14). Fall 2025 course has 15 enrolled with 5 wait-listed. In sum, the course is in demand and is gaining momentum. After the permanent number is given, we will insert this course into the ART Studio Minor.

Semesters Previously Offered

Term(s) Offered as
experimental

Previous Course
Code

Is this a MOTR
Course?

Reviewer

Comments

Jade McCain (jm558v) (04/30/25 8:36 am): Added grading basis and corrected prerequisite format.

Jade McCain (jm558v) (04/30/25 8:48 am): The course has been offered successfully twice as an EC, in Fall 2024 with 10 students enrolled and in Spring 2025 with 14 students enrolled.

Key: 10305

[Preview Bridge](#)

Course Change Request

Date Submitted: 05/05/25 4:51 pm

Viewing: **BME 5100 : Drug and Gene Delivery Systems**

Also listed as: **CHEM ENG 5260**

Last approved: 05/17/24 6:01 am

Last edit: 08/12/25 2:50 pm

Changes proposed by: Jee C. Wang (jcwang)

Programs
referencing this
course

BME 5100:

BIOMED-BS: Biomedical Engineering BS

BIOENG-PHD: Bioengineering PhD

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

Requested Effective Date	Spring 2026
Department	Chemical and Biochemical Engineering (RCHEMENG)
Discipline	Biomedical Engineering (BME)
Course Number	5100
Title	Drug and Gene Delivery Systems
Abbreviated Course Title	Drug and Gene Delivery
Co-Listed Course	<u>CHEM ENG 5260</u>

Department

Chemical and
Biochemical
Engineering

Approval Path

1. 05/05/25 6:02 pm
Hu Yang (huyang):
Approved for
RCHEMENG Chair
2. 05/08/25 10:08 am
Jade McCain
(jm558v): Approved
for CCC Secretary
3. 06/02/25 1:18 pm
Kelly Liu (liukh):
Approved for
Engineering DSCC
Chair
4. 07/25/25 12:10 pm
Jade McCain
(jm558v): Approved
for Pending CCC

(RCHEMENG)

Catalog Description

Agenda post

5. 08/13/25 8:22 am

Jade McCain

(jm558v): Approved

for CCC Meeting

Agenda

6. 08/13/25 8:32 am

Cecil Eng Huang

Chua (cchua):

Approved for

Campus Curricula

Committee Chair

History

1. May 17, 2024 by

Christi Luks (luksc)

Overview of drug and gene delivery systems, rational design for their applications with an emphasis on structure-property-function relationships. Three major parts: polymers and nanoparticles as drug and gene carriers; strategies to deliver drugs and genes; in vitro and in vivo techniques of assessment and validation.

Prerequisite(s):

Chem 2210 and Bio Sci 2213.

Corequisite(s):

Credit Hours

Credit Hours

Credit Type	Credit Hours
Lecture	3

Total: 3

Required for Majors No

Elective for Majors Yes

Communication No

Intensive

Communication No
Emphasized

Grading Basis Graded

Repeatable No

Justification

BME 5100 is a new course offered by the Department of Chemical and Biochemical Engineering. It teaches important and up-to-date technical skills that are beneficial to the students' engineering education and future careers. By co-listing it as Chem. Eng. 5260, the chemical engineering graduate and undergraduate students can take it directly to automatically fulfill their degree requirements without having to rely on substitution forms.

Semesters Previously Offered

Term(s) Offered as
experimental

Is this a MOTR
Course?

Reviewer

Comments

Jade McCain (jm558v) (05/08/25 10:07 am): Selected "no" for communication intensive and communication emphasized.

Crystal Wilson (wilsoncry) (08/12/25 2:50 pm): Clarification for justification. BME 5100 was a new course effective fall 2024. The department wants to offer more Chem Eng 5xxx and 6xxx courses for the Chem Eng majors.

Key: 5023

[Preview Bridge](#)

Course Change Request

Date Submitted: 05/05/25 4:56 pm

Viewing: **BME 5200 : Materials as Hard Tissue
Devices**

Also listed as: **CHEM ENG 5270**

Last approved: 05/17/24 6:01 am

Last edit: 08/12/25 2:52 pm

Changes proposed by: Jee C. Wang (jcwang)

Programs
referencing this
course

BME 5200:

BIOMED-BS: Biomedical Engineering_BS

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

Requested Effective Date Spring 2026

Department Chemical and Biochemical Engineering
 (RCHEMENG)

Discipline Biomedical Engineering (BME)

Course Number 5200

Title

Materials as Hard Tissue Devices

Abbreviated Course Title Hard Tissue Devices

Co-Listed Course	<u>CHEM ENG 5270</u>	Department
		<u>Chemical and</u>
		<u>Biochemical</u>
		<u>Engineering</u>
		<u>(RCHEMENG)</u>

Approval Path

1. 05/05/25 6:02 pm
Hu Yang (huyang):
Approved for
RCHEMENG Chair
2. 05/08/25 10:11 am
Jade McCain
(jm558v): Approved
for CCC Secretary
3. 06/02/25 1:17 pm
Kelly Liu (liukh):
Approved for
Engineering DSCC
Chair
4. 07/25/25 12:11 pm
Jade McCain
(jm558v): Approved
for Pending CCC

Catalog Description

- Agenda post
5. 08/13/25 8:22 am
Jade McCain
(jm558v): Approved
for CCC Meeting
Agenda
6. 08/13/25 8:32 am
Cecil Eng Huang
Chua (cchua):
Approved for
Campus Curricula
Committee Chair

History

1. May 17, 2024 by
Christi Luks (luksc)

The structure-property relationships of materials employed as medical devices, as well as the bone, cartilage, and ligament that they are designed to replace. The behavior of materials in the physiological environment, the tailoring of that behavior as a response to both bulk and surface properties, and the future of hard tissue medical devices.

Prerequisite(s):
BME 4100 or MS&E 5210.

Corequisite(s):

Credit Hours

Credit Hours

Credit Type	Credit Hours
Lecture	3

Total: 3

- Required for Majors No
- Elective for Majors Yes
- Communication No

Intensive

Communication
Emphasized No

Grading Basis Graded

Repeatable No

Justification

BME 5200 is a new course offered by the Department of Chemical and Biochemical Engineering. It teaches important and up-to-date technical skills that are beneficial to the students' engineering education and future careers. By co-listing it as Chem. Eng. 5270, the chemical engineering graduate and undergraduate students can take it directly to fulfill their degree requirements without having to rely on substitution forms.

Semesters Previously Offered

Term(s) Offered as
experimental

Is this a MOTR
Course?

Reviewer

Comments

Jade McCain (jm558v) (05/08/25 10:11 am): Selected "no" for communication intensive and communication emphasized

Crystal Wilson (wilsoncry) (08/12/25 2:52 pm): Clarification for justification. BME 5200 was a new course effective fall 2024. The department wants to offer more Chem Eng 5xxx and 6xxx courses for the Chem Eng majors.

Key: 5024

[Preview Bridge](#)

Course Change Request

Date Submitted: 05/06/25 5:16 pm

Viewing: **BME 5300 : Vaccine Manufacturing**

Also listed as: **CHEM ENG 5280**

Last approved: 05/20/24 6:01 am

Last edit: 08/12/25 2:53 pm

Changes proposed by: Jee C. Wang (jcwang)

Programs
referencing this
course

BME 5300:
[BIOMED-BS: Biomedical Engineering BS](#)

Requested Effective Date	Spring 2026
Department	Chemical and Biochemical Engineering (RCHEMENG)
Discipline	Biomedical Engineering (BME)
Course Number	5300
Title	Vaccine Manufacturing
Abbreviated Course Title	Vaccine Manufacturing
Co-Listed Course	<u>CHEM ENG 5280</u>

Department
[Chemical and Biochemical Engineering \(RCHEMENG\)](#)

Catalog Description

In Workflow

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

Approval Path

1. 05/06/25 8:58 pm
Hu Yang (huyang):
Approved for
RCHEMENG Chair
2. 05/08/25 10:23 am
Jade McCain
(jm558v): Approved
for CCC Secretary
3. 06/02/25 1:17 pm
Kelly Liu (liukh):
Approved for
Engineering DSCC
Chair
4. 07/25/25 12:11 pm
Jade McCain
(jm558v): Approved
for Pending CCC

- Agenda post
5. 08/13/25 8:22 am
Jade McCain
(jm558v): Approved
for CCC Meeting
Agenda
6. 08/13/25 8:32 am
Cecil Eng Huang
Chua (cchua):
Approved for
Campus Curricula
Committee Chair

History

1. May 20, 2024 by
Christi Luks (luksc)

The development, manufacturing, and approval process of vaccines are covered. Vaccines that use attenuated or inactivated viruses, viral components and mRNA as the active ingredient are discussed. The manufacturing process includes the making of the active ingredient, vaccine formulation and delivery. The class includes three remote lab experiments.

Prerequisite(s):

Senior standing in an engineering discipline, physics, chemistry, or biology.

Corequisite(s):

Credit Hours

Credit Hours

Credit Type	Credit Hours
Lecture	3

Total: 3

Required for Majors No

Elective for Majors Yes

Communication No

Intensive

Communication No
Emphasized

Grading Basis Graded

Repeatable No

Justification

BME 5300 is a new course offered by the Department of Chemical and Biochemical Engineering. It teaches important and up-to-date technical skills related to vaccine manufacturing that are beneficial to chemical engineering students' education and future careers. By co-listing it as Chem. Eng. 5280, the chemical engineering graduate and undergraduate students can take it directly to automatically fulfill their degree requirements without having to rely on substitution forms.

Semesters Previously Offered

Term(s) Offered as
experimental

Is this a MOTR
Course?

Reviewer

Comments

Jade McCain (jm558v) (05/08/25 10:23 am): Selected "no" for communication intensive and communication emphasized

Crystal Wilson (wilsoncry) (08/12/25 2:53 pm): Clarification for justification. BME 5300 was a new course effective fall 2024. The department wants to offer more Chem Eng 5xxx and 6xxx courses for the Chem Eng majors.

Key: 5025

[Preview Bridge](#)

Course Change Request

Date Submitted: 05/05/25 5:02 pm

Viewing: **BME 6400 : Biomanufacturing**

Also listed as: **CHEM ENG 6400**

Last approved: 03/25/24 6:02 am

Last edit: 08/12/25 2:53 pm

Changes proposed by: Jee C. Wang (jcwang)

Programs
referencing this
course

BME 6400:
[BIOENG-PHD: Bioengineering PhD](#)

Requested Effective Date	Spring 2026		
Department	Chemical and Biochemical Engineering (RCHEMENG)		
Discipline	Biomedical Engineering (BME)		
Course Number	6400		
Title	Biomanufacturing		
Abbreviated Course Title	Biomanufacturing		
Co-Listed Course	<u>CHEM ENG 6400</u>	Department	

[Chemical and Biochemical Engineering \(RCHEMENG\)](#)

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. 05/05/25 6:02 pm
Hu Yang (huyang):
Approved for
RCHEMENG Chair
2. 05/08/25 10:24 am
Jade McCain
(jm558v): Approved
for CCC Secretary
3. 06/02/25 1:18 pm
Kelly Liu (liukh):
Approved for
Engineering DSCC
Chair
4. 07/25/25 12:11 pm
Jade McCain
(jm558v): Approved
for Pending CCC

Catalog Description

Agenda post

5. 08/13/25 8:22 am

Jade McCain

(jm558v): Approved
for CCC Meeting

Agenda

6. 08/13/25 8:32 am

Cecil Eng Huang

Chua (cchua):

Approved for
Campus Curricula
Committee Chair

History

1. Mar 25, 2024 by Jee
C. Wang (jcwang)

The development, production, recovery, and analysis of biorelated products. Specific topics include biomaterial synthesis and characterization, cell culture, bioreactor design and operation, production and purification process development, and regulatory expectations.

Prerequisite(s):

Graduate standing. ~~graduate standing~~

Corequisite(s):

Credit Hours

Credit Hours

Credit Type	Credit Hours
Lecture	3

Total: 3

Required for Majors No

Elective for Majors No

Communication No

Intensive

Communication Emphasized	<u>No</u>
Grading Basis	Graded
Repeatable	No

Justification

BME 6400 is a new course offered by the Department of Chemical and Biochemical Engineering. It teaches important and up-to-date technical skills that are beneficial to the graduate students' engineering education and future careers. By co-listing it as Chem. Eng. 6400, the students can take it directly to fulfill their graduate degree requirements without having to rely on graduate forms.

Semesters Previously Offered

Term(s) Offered as
experimental

Is this a MOTR
Course?

Reviewer

Comments

Jade McCain (jm558v) (05/08/25 10:24 am): Selected "no" for communication intensive and communication emphasized

Jade McCain (jm558v) (06/17/25 10:06 am): Added punctuation to prerequisite section.

Crystal Wilson (wilsoncry) (08/12/25 2:53 pm): Clarification for justification. BME 6400 was a new course effective fall 2024. The department wants to offer more Chem Eng 5xxx and 6xxx courses for the Chem Eng majors.

Key: 5043

[Preview Bridge](#)

Course Change Request

Date Submitted: 05/05/25 5:03 pm

Viewing: **BME 6500 : Pharmaceutical Process Engineering**

Also listed as: **CHEM ENG 6500**

Last approved: 03/25/24 6:02 am

Last edit: 08/12/25 2:54 pm

Changes proposed by: Jee C. Wang (jcwang)

Programs
referencing this
course

BME 6500:

BIOENG-PHD: Bioengineering PhD

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

Requested Effective Date Spring 2026

Department Chemical and Biochemical Engineering (RCHEMENG)

Discipline Biomedical Engineering (BME)

Course Number 6500

Title
Pharmaceutical Process Engineering

Abbreviated Course Title Pharm Process Eng

Co-Listed Course **CHEM ENG 6500**

Department
Chemical and
Biochemical
Engineering
(RCHEMENG)

Approval Path

1. 05/05/25 6:03 pm
Hu Yang (huyang):
Approved for
RCHEMENG Chair
2. 05/08/25 10:25 am
Jade McCain
(jm558v): Approved
for CCC Secretary
3. 06/02/25 1:18 pm
Kelly Liu (liukh):
Approved for
Engineering DSCC
Chair
4. 07/25/25 12:11 pm
Jade McCain
(jm558v): Approved
for Pending CCC

Catalog Description

Agenda post

5. 08/13/25 8:22 am

Jade McCain

(jm558v): Approved
for CCC Meeting

Agenda

6. 08/13/25 8:32 am

Cecil Eng Huang

Chua (cchua):

Approved for
Campus Curricula
Committee Chair

History

1. Mar 25, 2024 by Jee
C. Wang (jcwang)

The manufacture, extraction, processing, purification, formulation/filling, and packaging of pharmaceutical materials to be used as medications for humans or animals. The major manufactured products and their principal manufacturing steps will be covered. The principles of engineering operations and scale-up process in pharmaceutical industry will be discussed together with quality control, pollution prevention, and Good Manufacturing Practices (GMP).

Prerequisite(s):

Chem Eng 5250.

Corequisite(s):

Credit Hours

Credit Hours

Credit Type	Credit Hours
Lecture	3

Total: 3

Required for Majors No

Elective for Majors No

Communication Intensive	<u>No</u>
Communication Emphasized	<u>No</u>
Grading Basis	Graded
Repeatable	No

Justification

BME 6500 is a new course offered by the Department of Chemical and Biochemical Engineering. It teaches important and up-to-date technical skills that are beneficial to the graduate students' engineering education and future careers. By co-listing it as Chem. Eng. 6500, the students can take it directly to fulfill their graduate degree requirements without having to rely on graduate forms.

Semesters Previously Offered

Term(s) Offered as
experimental

Is this a MOTR
Course?

Reviewer
Comments

Jade McCain (jm558v) (06/17/25 10:12 am): Selected "no" for Communication Emphasized and Communication Intensive.

Crystal Wilson (wilsoncry) (08/12/25 2:54 pm): Clarification for justification. BME 6500 was a new course effective fall 2024. The department wants to offer more Chem Eng 5xxx and 6xxx courses for the Chem Eng majors.

Key: 5044

[Preview Bridge](#)

Course Change Request

Date Submitted: 07/05/25 4:02 pm

Viewing: **CHEM 1319 : General Chemistry**

Laboratory

Last approved: 09/11/24 6:03 am

Last edit: 08/12/25 2:33 pm

Changes proposed by: Chariklia Sotiriou-Leventis (cslevent)

Programs

referencing this

course

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

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

[PHYSIC-BS: Physics BS](#)

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

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

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

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

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

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

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

[CHEM-BA: Chemistry BA](#)

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

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

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

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

[CHEM-BS: Chemistry BS](#)

[CHEM-MI: Chemistry Minor](#)

[FR ENG-UN: Foundational Engineering and Computing](#)

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

[EDUC-BS: Education BS](#)

[MED LAB: Biological Sciences BS with Emphasis area in Medical Laboratory Scientist](#)

[ENV SCI-BS: Environmental Science BS](#)

[BIOMED-BS: Biomedical Engineering BS](#)

[SEMI EN-BS: Semiconductor Engineering BS](#)

In Workflow

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

Approval Path

1. 07/05/25 4:03 pm
Chariklia Sotiriou-Leventis (cslevent):
Approved for
RCHEMIST Chair
2. 07/09/25 10:39 am
Jade McCain
(jm558v): Approved
for CCC Secretary
3. 07/22/25 12:21 pm
Katie Shannon
(shannonk):
Approved for
Sciences DSCC Chair
4. 07/25/25 12:11 pm
Jade McCain
(jm558v): Approved
for Pending CCC

[ENG MG-BS: Engineering Management BS](#)
[EV ENG-BS: Environmental Engineering BS](#)
[GL&GPH-BS: Geology and Geophysics BS](#)
[MC ENG-BS: Mechanical Engineering BS](#)
[MT ENG-BS: Metallurgical Engineering BS](#)
[MI ENG-BS: Mining Engineering BS](#)

Agenda post
5. 08/13/25 8:22 am
Jade McCain
(jm558v): Approved
for CCC Meeting
Agenda
6. 08/13/25 8:32 am
Cecil Eng Huang
Chua (cchua):
Approved for
Campus Curricula
Committee Chair

Requested Effective Date Spring 2026
Department Chemistry (RCHEMIST)
Discipline Chemistry (CHEM)
Course Number 1319
Title
General Chemistry Laboratory
Abbreviated Course Title General Chemistry Lab
Co-Listed Course

History

1. Apr 25, 2014 by
Lahne Black (lahne)
2. May 24, 2016 by
kleb6b
3. Sep 11, 2024 by
Jade McCain
(jm558v)

Catalog Description

The laboratory work accompanying general chemistry consists of experiments designed to supplement lectures in Chem [1305 or Chem 1310](#).

Prerequisite(s):

Preceded or accompanied by ~~both~~ Chem [1100](#) ~~1310~~ and either Chem [1305 or Chem 1310](#).
~~1100.~~

Corequisite(s):

Credit Hours

Credit Hours

Credit Type	Credit Hours
Laboratory	1

Total: 1

Required for Majors	Yes
Elective for Majors	No
Communication Intensive	<u>No</u>
Communication Emphasized	<u>No</u>
Grading Basis	Graded
Repeatable	No

Justification

Chem 1305 is offered for the first time in FS2025. Chem 1319 is a prerequisite or corequisite for both Chem 1310 and Chem 1305.

Semesters Previously Offered

Term(s) Offered as
experimental

Is this a MOTR
Course?

attribute
Chemistry I with Lab (CHEM 150L)

Reviewer

Comments

Jade McCain (jm558v) (07/07/25 8:45 am): Changed requested effective date to Spring 2026.

Katie Shannon (shannonk) (07/22/25 12:21 pm): The DSCC wants to make sure it is clear that CHEM 1100 is required and that either 1310 or 1305 is a coreq.

Jade McCain (jm558v) (08/12/25 10:22 am): Clarified prerequisites.

Key: 1817

[Preview Bridge](#)

Course Change Request

New Course Proposal

Date Submitted: 05/07/25 9:59 am

Viewing: **CHEM ENG 5390 : Energy Engineering**

Last edit: 08/11/25 2:03 pm

Changes proposed by: Christi Luks (luksc)

Requested Effective Date	Spring 2026
Department	Chemical and Biochemical Engineering (RCHEMENG)
Discipline	Chemical Engineering (CHEM ENG)
Course Number	5390
Title	Energy Engineering
Abbreviated Course Title	Energy Engineering
Co-Listed Course	

Catalog Description	
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In Workflow

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

Approval Path

1. 05/07/25 10:01 am
Hu Yang (huyang):
Approved for
RCHEMENG Chair
2. 05/08/25 10:20 am
Jade McCain
(jm558v): Approved
for CCC Secretary
3. 06/02/25 1:18 pm
Kelly Liu (liukh):
Approved for
Engineering DSCC
Chair
4. 07/25/25 12:11 pm
Jade McCain
(jm558v): Approved
for Pending CCC

Agenda post
 5. 08/13/25 8:22 am
 Jade McCain
 (jm558v): Approved
 for CCC Meeting
 Agenda
 6. 08/13/25 8:33 am
 Cecil Eng Huang
 Chua (cchua):
 Approved for
 Campus Curricula
 Committee Chair

An assessment of issues related to worldwide energy demand and the key engineering, environmental, industrial, governmental, and market concepts that drive decision making. Discussions of the life-cycle analysis of traditional and renewable energy sources such as fossil fuels, nuclear power, biomass, wind, solar, and geothermal.

Prerequisite(s):

Senior or graduate standing.

Corequisite(s):

Credit Hours

Credit Hours

Credit Type	Credit Hours
Lecture	3

Total: 3

Required for Majors No

Elective for Majors Yes

Communication No
 Intensive

Communication No
 Emphasized

Grading Basis Graded

Repeatable

No

Justification

This course has been taught as ChE 5001 at least 7 times and always fills. Recently it was renamed to Energy Engineering, but it used to be listed as Energy Economics. The change in name was to avoid conflict with the Economics department's courses.

Semesters Previously Offered

Term(s) Offered as
experimental

Previous Course
Code

Is this a MOTR
Course?

Reviewer

Comments

Jade McCain (jm558v) (05/07/25 4:04 pm): Added grading basis.

Jade McCain (jm558v) (05/08/25 10:19 am): This course was taught in Spring 2025 with 24 students and in Summer 2024 with 12 students.

Key: 10311

[Preview Bridge](#)

Course Change Request

Date Submitted: 07/07/25 2:06 pm

Viewing: **ENGLISH 2241 : Young Adult Literature ~~For Adolescents~~**

Last edit: 07/09/25 1:52 pm

Changes proposed by: Kristine Swenson (kswenson)

Requested Effective Date	Spring 2026
Department	English & Tech Communication (RENGLISH)
Discipline	English (ENGLISH)
Course Number	2241
Title	<u>Young Adult</u> Literature For Adolescents
Abbreviated Course Title	<u>Young Adult</u> Lit For Adolescents
Co-Listed Course	

Catalog Description

In Workflow

1. **RENGLISH 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. 07/07/25 2:06 pm
Kristine Swenson (kswenson):
Approved for
RENGLISH Chair
2. 07/09/25 1:54 pm
Jade McCain (jm558v): Approved
for CCC Secretary
3. 07/09/25 3:34 pm
Petra Dewitt (dewittp): Approved
for Arts &
Humanities DSCC
Chair
4. 07/25/25 12:11 pm
Jade McCain

(jm558v): Approved
for Pending CCC
Agenda post
5. 08/13/25 8:22 am
Jade McCain
(jm558v): Approved
for CCC Meeting
Agenda
6. 08/13/25 8:33 am
Cecil Eng Huang
Chua (cchua):
Approved for
Campus Curricula
Committee Chair

Appropriate ~~Primarily intended~~ for teacher certification students. Selection and organization of materials for teaching literature to adolescents. Emphasizes literature written for adolescents and includes a unit of literature of American ethnic groups.

Prerequisite(s):

English 1120. ~~English 1120 and a semester of college literature.~~

Corequisite(s):

Credit Hours

Credit Hours

Credit Type	Credit Hours
Lecture	3

Total: 3

Required for Majors No

Elective for Majors Yes

Communication Yes

Intensive

Communication No

Emphasized

Grading Basis Graded

Repeatable No

Justification

The phrase "young adult literature" is more current and widely understood than "literature for adolescents." The content of the course remains the same. The title change does not hinder teacher certification or conflict with DESE rules.

Semesters Previously Offered

Term(s) Offered as
experimental

Is this a MOTR
Course?

Reviewer

Comments

Jade McCain (jm558v) (07/09/25 1:52 pm): Added punctuation and selected "no" for Communication Emphasized.

Key: 6363

[Preview Bridge](#)

Course Change Request

New Course Proposal

Date Submitted: 07/15/25 2:10 pm

Viewing: **KC 5001 : Special Topics**

Last edit: 08/11/25 3:08 pm

Changes proposed by: David Enke (enke)

Requested Effective Date	Spring 2026
Department	Kummer College (RKUMR)
Discipline	Kummer College (KC)
Course Number	5001
Title	Special Topics
Abbreviated Course Title	Special Topics
Co-Listed Course	

Catalog Description

In Workflow

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

Approval Path

- 1. 07/16/25 9:16 am
David Enke (enke):
Approved for
RKUMR Chair
- 2. 07/16/25 9:26 am
Jade McCain
(jm558v): Approved
for CCC Secretary
- 3. 07/16/25 9:46 am
Cecil Eng Huang
Chua (cchua):
Approved for Social
Sciences DSCC Chair
- 4. 07/25/25 12:11 pm
Jade McCain
(jm558v): Approved
for Pending CCC

Agenda post
5. 08/13/25 8:22 am
Jade McCain
(jm558v): Approved
for CCC Meeting
Agenda
6. 08/13/25 8:33 am
Cecil Eng Huang
Chua (cchua):
Approved for
Campus Curricula
Committee Chair

This course is designed to give the college an opportunity to test a new course. Variable title.

Prerequisite(s):

Corequisite(s):

Credit Hours

Credit Hours

Credit Type	Credit Hours
Lecture	0-6

Total: 0-6

Required for Majors No

Elective for Majors Yes

Communication No
Intensive

Communication No
Emphasized

Grading Basis Graded

Repeatable Yes

Justification

The Kummer College would like to begin offering new courses under the approved KC designation. The first step in this process is to create a special topics course in order to test out new experimental courses.

Semesters Previously Offered

Term(s) Offered as
experimental

Previous Course
Code

Is this a MOTR
Course?

Reviewer

Comments

Jade McCain (jm558v) (07/16/25 9:25 am): Corrected prerequisite and corequisite format and added grading basis.

Key: 10327

[Preview Bridge](#)

Course Change Request

Date Submitted: 07/11/25 3:02 pm

Viewing: **MIN ENG 4097 : Capstone Design Project**

Last approved: 01/29/24 6:01 am

Last edit: 07/14/25 8:50 am

Changes proposed by: Kwame Awuah-Offei (kabp3)

Programs
referencing this
course
[MI ENG-BS: Mining Engineering BS](#)

Requested Effective Date	Spring 2026
Department	Mining and Explosives Engineering (RMINENG)
Discipline	Mining Engineering (MIN ENG)
Course Number	4097
Title	Capstone Design Project
Abbreviated Course Title	Capstone Design Project
Co-Listed Course	

Catalog Description

In Workflow

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

Approval Path

1. 07/11/25 3:04 pm
Kwame Awuah-Offei (kabp3): Approved for RMINENG Chair
2. 07/14/25 9:35 am
Jade McCain (jm558v): Approved for CCC Secretary
3. 07/25/25 10:27 am
Kelly Liu (liukh): Approved for Engineering DSCC Chair
4. 07/25/25 12:12 pm
Jade McCain (jm558v): Approved for Pending CCC

Agenda post

5. 08/13/25 8:22 am
Jade McCain
(jm558v): Approved
for CCC Meeting
Agenda

6. 08/13/25 8:33 am
Cecil Eng Huang
Chua (cchua):
Approved for
Campus Curricula
Committee Chair

History

1. Apr 25, 2014 by
Lahne Black (lahne)
2. Feb 9, 2015 by Tina
Alobaidan (cifarellit)
3. Jun 26, 2017 by Tina
Alobaidan (cifarellit)
4. Oct 5, 2023 by
Jennifer Pohlsander
(jpnfd)
5. Jan 29, 2024 by
Stephen Casey
(caseysc)

Capstone project with written and oral presentations. Includes mine design and optimization, production plan, equipment and flowsheet design based on geology, resources/reserves, geotechnics, hydrology and hydro-geology. Project also incorporates markets, environmental and permitting, mine-mill organization, support facilities, economic and risk analyses.

Prerequisite(s):

Min Eng 4096.

Corequisite(s):

Credit Hours

Credit Hours

Credit Type	Credit Hours
Lecture	1
Laboratory	2

Total: 3

Required for Majors Yes

Elective for Majors No

Communication No
Intensive

Communication Yes
Emphasized

Grading Basis Graded

Repeatable No

Justification

Revising to streamline our communication emphasized courses.

Semesters Previously Offered

Term(s) Offered as
experimental

Is this a MOTR
Course?

Reviewer

Comments

Jade McCain (jm558v) (07/14/25 8:50 am): Selected "no" for Communication Intensive.

Key: 1128

[Preview Bridge](#)

Course Change Request

Date Submitted: 07/11/25 3:03 pm

Viewing: **MIN ENG 5113 : Mine Atmosphere Control**

Last approved: 10/05/23 4:07 pm

Last edit: 07/14/25 9:36 am

Changes proposed by: Kwame Awuah-Offei (kabp3)

Programs
referencing this
course

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

Requested Effective Date	Spring 2026
Department	Mining and Explosives Engineering (RMINENG)
Discipline	Mining Engineering (MIN ENG)
Course Number	5113
Title	Mine Atmosphere Control
Abbreviated Course Title	Mine Atmosphere Control
Co-Listed Course	

Catalog Description

In Workflow

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

Approval Path

1. 07/11/25 3:04 pm
Kwame Awuah-Offei (kabp3): Approved for RMINENG Chair
2. 07/14/25 9:36 am
Jade McCain (jm558v): Approved for CCC Secretary
3. 07/25/25 10:27 am
Kelly Liu (liukh): Approved for Engineering DSCC Chair
4. 07/25/25 12:12 pm
Jade McCain (jm558v): Approved for Pending CCC

Agenda post

5. 08/13/25 8:22 am

Jade McCain

(jm558v): Approved

for CCC Meeting

Agenda

6. 08/13/25 8:33 am

Cecil Eng Huang

Chua (cchua):

Approved for

Campus Curricula

Committee Chair

History

1. Mar 5, 2018 by Tina
Alobaidan (cifarellit)

2. Oct 5, 2023 by
Jennifer Pohlsander
(jpnfd)

Fundamentals of mine ventilation, including the principles of airflow, control of gases, dust, and temperature, methane drainage, mine fans, network theory, computer network simulation, and economics of airflow, with emphasis on analysis, systems design and practical application.

Prerequisite(s):

Mech Eng 2527 and Civ Eng 3330; or Nuc Eng 3221.

Corequisite(s):

Credit Hours

Credit Hours

Credit Type	Credit Hours
Lecture	2
Laboratory	1

Total: 3

Required for Majors Yes

Elective for Majors	No
Communication Intensive	<u>No</u>
Communication Emphasized	<u>Yes</u>
Grading Basis	Graded
Repeatable	No

Justification

Revising to streamline our communication emphasized courses.

Semesters Previously Offered

Term(s) Offered as
experimental

Is this a MOTR
Course?

Reviewer

Comments

Jade McCain (jm558v) (07/14/25 9:36 am): Selected "no" for Communication Intensive

Key: 1257

[Preview Bridge](#)

Course Change Request

Date Submitted: 07/11/25 2:49 pm

Viewing: **MIN ENG 5742 : Sustainability in Mining ~~Environmental Aspects of Mining~~**

Also listed as: **GEO ENG 5276**

Last approved: 08/06/24 6:04 am

Last edit: 08/12/25 2:59 pm

Changes proposed by: Kwame Awuah-Offei (kabp3)

Programs
referencing this
course

GEO ENG 5276:

ENV SCI-BS: Environmental Science BS

EV ENG-BS: Environmental Engineering BS

MIN ENG 5742:

MGTSUSB-CT: Mgt for Sustainable Business

MINEREC-CT: Mine Reclamation CT

SUSMINE-CT: Sustainability in Mining CT

ENV SCI-BS: Environmental Science BS

MI ENG-CT: Mining Engineering CT

EV ENG-BS: Environmental Engineering BS

MI ENG-BS: Mining Engineering BS

Requested Effective Date	Spring 2026
Department	Mining and Explosives Engineering (RMINENG)
Discipline	Mining Engineering (MIN ENG)
Course Number	5742
Title	<u>Sustainability in Mining</u> Environmental Aspects of Mining

In Workflow

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

Approval Path

1. 07/11/25 3:04 pm
Kwame Awuah-Offei (kabp3): Approved for RMINENG Chair
2. 07/14/25 9:46 am
Jade McCain (jm558v): Approved for CCC Secretary
3. 07/25/25 10:28 am
Kelly Liu (liukh): Approved for Engineering DSCC Chair
4. 07/25/25 12:12 pm
Jade McCain (jm558v): Approved for Pending CCC

Abbreviated Course Title	<u>Sustainability in Aspects of Mining</u>	
Co-Listed Course	GEO ENG 5276	Department Earth Sciences and Engineering (RGEOENG)
Catalog Description		Agenda post 5. 08/13/25 8:23 am Jade McCain (jm558v): Approved for CCC Meeting Agenda 6. 08/13/25 8:33 am Cecil Eng Huang Chua (cchua): Approved for Campus Curricula Committee Chair

History

1. Mar 5, 2018 by Tina Alobaidan (cifarellit)
2. Oct 5, 2023 by Jennifer Pohlsander (jpnfd)
3. Aug 6, 2024 by Evie Sherlock (esdk3)

Sustainability implications of mining. Permitting: Topics include mine permitting, the legal environment of reclamation and environmental impact assessment, mine reclamation and habitat restoration, sustainability implications of mine planning assessment; post-mining land-use selection and design, environmental management systems, sustainability reporting, community development, and handling mine-influenced water. mine planning for optimum reclamation of all mines: metal, nonmetal, and coal; unit operations of reclamation: drainage, backfill, soil replacement, revegetation, maintenance, etc.

Prerequisite(s):
 Preceded or accompanied by Min Eng 5933 or Geo Eng 5441 or Env Eng 5619.

Corequisite(s):

Credit Hours

Credit Hours

Credit Type	Credit Hours
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Credit Type		Credit Hours
Lecture		3
Total:	3	

Required for Majors Yes

Elective for Majors No

Communication No
Intensive

Communication Yes
Emphasized

Grading Basis Graded

Repeatable No

Justification

Current ABET program-specific requirements call for "mine sustainability" and not "environmental considerations" as before. This course has been taught with an expanded (beyond just environmental) focus that includes social and other sustainability considerations for a while now. These changes align the course name and catalog description to match the practice. This also ensures easier ABET accreditation.

Semesters Previously Offered

Term(s) Offered as
experimental

Is this a MOTR
Course?

Reviewer

Comments

Jade McCain (jm558v) (07/14/25 9:45 am): Selected "no" for Communication Intensive.

Crystal Wilson (wilsoncry) (08/12/25 2:59 pm): Per discussion at the CCC meeting, this is more modern language, saying the same thing, just reworded.

Course Change Request

New Course Proposal

Date Submitted: 07/11/25 3:34 pm

Viewing: **MIN ENG 6141 : Computational Fluid Dynamics for Particulate and Fire Simulations**

Last edit: 08/12/25 2:57 pm

Changes proposed by: Stephen Casey (caseysc)

Requested Effective Date	Spring 2026
Department	Mining and Explosives Engineering (RMINENG)
Discipline	Mining Engineering (MIN ENG)
Course Number	6141
Title	Computational Fluid Dynamics for Particulate and Fire Simulations
Abbreviated Course Title	CFD for Par and Fire Sim
Co-Listed Course	

Catalog Description

In Workflow

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

Approval Path

1. 07/11/25 3:41 pm
Kwame Awuah-Offei (kabp3): Approved for RMINENG Chair
2. 07/14/25 10:14 am
Jade McCain (jm558v): Approved for CCC Secretary
3. 07/25/25 10:28 am
Kelly Liu (liukh): Approved for Engineering DSCC Chair
4. 07/25/25 12:12 pm
Jade McCain (jm558v): Approved for Pending CCC

- Agenda post
5. 08/13/25 8:23 am
Jade McCain
(jm558v): Approved
for CCC Meeting
Agenda
6. 08/13/25 8:33 am
Cecil Eng Huang
Chua (cchua):
Approved for
Campus Curricula
Committee Chair

This course will cover introductory aspects of Computational Fluid Dynamics (CFD) and apply it to solve particulate and fire simulation problems. This course will study discretization methods including finite difference methods and finite volume method, and basic numerical schemes and analysis methods for solving the Euler and Navier-Stokes equations.

Prerequisite(s):

Math 3108, Civ Eng 3330, Comp Sci 1972, and Comp Sci 1982. Graduate standing or consent of instructor.

Corequisite(s):

Credit Hours

Credit Hours

Credit Type	Credit Hours
Lecture	3

Total: 3

Required for Majors No

Elective for Majors No

Communication No
Intensive

Communication No
Emphasized

Grading Basis Graded

Repeatable No

Justification

No existing course that teaches using CFD to simulate particulates and fire. This course will be useful for students in the research of air and water pollution, fire simulation, and other fluid related topics.

This course was successfully offered as an experimental course in Spring 23, 24 and 25, MIN ENG 6001.

Semesters Previously Offered

Term(s) Offered as
experimental

Previous Course
Code

Is this a MOTR
Course?

Reviewer

Comments

Jade McCain (jm558v) (07/14/25 10:11 am): Added grading basis.

Jade McCain (jm558v) (07/14/25 10:14 am): This course was taught experimentally in Spring 2023 with 3 students enrolled, Spring 2024 with 2 students enrolled, and Spring 2025 with 2 students enrolled.

Crystal Wilson (wilsoncry) (08/12/25 2:57 pm): Per discussion at the CCC meeting, there will be research projects in this area and PhD students to take this course.

Key: 10326

[Preview Bridge](#)

Course Change Request

Date Submitted: 07/11/25 2:54 pm

Viewing: **MIN ENG 6712 : Managing Social and Environmental Risks in Mining (~~Intro to Responsible Mining~~)**

Last approved: 07/31/24 6:06 am

Last edit: 08/11/25 3:29 pm

Changes proposed by: Kwame Awuah-Offei (kabp3)

Programs
referencing this
course

- [MINEREC-CT: Mine Reclamation CT](#)
- [SUSMINE-CT: Sustainability in Mining CT](#)

Requested Effective Date	Spring 2026
Department	Mining and Explosives Engineering (RMINENG)
Discipline	Mining Engineering (MIN ENG)
Course Number	6712
Title	Managing Social and Environmental Risks in Mining (Intro to Responsible Mining)
Abbreviated Course Title	Soc & Enviro Risk Mining
Co-Listed Course	

Catalog Description

In Workflow

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

Approval Path

1. 07/11/25 3:04 pm
Kwame Awuah-Offei (kabp3): Approved for RMINENG Chair
2. 07/14/25 10:15 am
Jade McCain (jm558v): Approved for CCC Secretary
3. 07/25/25 10:28 am
Kelly Liu (liukh): Approved for Engineering DSCC Chair
4. 07/25/25 12:12 pm
Jade McCain (jm558v): Approved for Pending CCC

- Agenda post
5. 08/13/25 8:29 am
Jade McCain
(jm558v): Approved
for CCC Meeting
Agenda
6. 08/13/25 8:33 am
Cecil Eng Huang
Chua (cchua):
Approved for
Campus Curricula
Committee Chair

History

1. Oct 24, 2016 by
jrussell
2. Jul 31, 2024 by
Crystal Wilson
(wilsoncry)

Principles for managing social and environmental risks in mining. ~~This course is an introduction to responsible mining.~~ Focus ~~It focuses~~ on industry and NGO programs around sustainability and ESG reporting in mining, financial community response, community development programs, ~~of interest engagement and participation, and~~ safety and crisis response and management.

Prerequisite(s):

Min Eng ~~4742 or Min Eng~~ 5742.

Corequisite(s):

Credit Hours

Credit Hours

Credit Type	Credit Hours
Lecture	3

Total: 3

Required for Majors No

Elective for Majors	Yes
Communication Intensive	<u>No</u>
Communication Emphasized	<u>No</u>
Grading Basis	Graded
Repeatable	No

Justification

Revising the course title and description to streamline that with the request to revise the name and description of Min Eng 5742.

Semesters Previously Offered

Term(s) Offered as
experimental

Is this a MOTR
Course?

Reviewer
Comments

Key: 4317

[Preview Bridge](#)

Course Change Request

Date Submitted: 07/11/25 2:58 pm

Viewing: **MIN ENG 6735 : Sustainability**
Assessment In Mining

Last approved: 07/31/24 6:05 am

Last edit: 07/14/25 10:34 am

Changes proposed by: Kwame Awuah-Offei (kabp3)

Programs
referencing this
course

- [MGTSUSB-CT: Mgt for Sustainable Business](#)
- [MINEREC-CT: Mine Reclamation CT](#)
- [SUSMINE-CT: Sustainability in Mining CT](#)

Requested Effective Date	Spring 2026
Department	Mining and Explosives Engineering (RMINENG)
Discipline	Mining Engineering (MIN ENG)
Course Number	6735
Title	Sustainability <u>Assessment</u> In Mining
Abbreviated Course Title	<u>Sustain Assess</u> Sustainability In Mining
Co-Listed Course	

Catalog Description

In Workflow

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

Approval Path

1. 07/11/25 3:04 pm
Kwame Awuah-Offei (kabp3): Approved for RMINENG Chair
2. 07/14/25 10:34 am
Jade McCain (jm558v): Approved for CCC Secretary
3. 07/25/25 10:28 am
Kelly Liu (liukh): Approved for Engineering DSCC Chair
4. 07/25/25 12:12 pm
Jade McCain (jm558v): Approved for Pending CCC

Agenda post

5. 08/13/25 8:28 am
Jade McCain
(jm558v): Approved
for CCC Meeting
Agenda

6. 08/13/25 8:33 am
Cecil Eng Huang
Chua (cchua):
Approved for
Campus Curricula
Committee Chair

History

1. Jun 21, 2021 by
Stephen Casey
(caseysc)
2. Jul 31, 2024 by Jade
McCain (jm558v)

Sustainability assessment in mining: ~~Sustainability defined:~~ social, economic and environmental impacts. Mining as sustainable development interventions. Mine planning for sustainability, sustainability assessment tools. ~~and reporting, sustainable mine closure and post-mining land use.~~ Environmental impact assessment, social impact assessments, life cycle assessments, etc.
Case studies.

Prerequisite(s):

Min Eng 5742.

Corequisite(s):

Credit Hours

Credit Hours

Credit Type	Credit Hours
Lecture	3

Total: 3

Required for Majors	No
Elective for Majors	No
Communication Intensive	<u>No</u>
Communication Emphasized	<u>No</u>
Grading Basis	Graded
Repeatable	No

Justification

Revising the course title and description to streamline that with the request to revise the name and description of Min Eng 5742.

Semesters Previously Offered

Term(s) Offered as
experimental

Is this a MOTR
Course?

Reviewer

Comments

Jade McCain (jm558v) (07/14/25 10:26 am): Selected "no" for Communication Intensive and Communication Emphasized per department request via email on 7/14.

Jade McCain (jm558v) (07/14/25 10:34 am): Removed punctuation from abbreviated course title.

Key: 2176

[Preview Bridge](#)

Course Change Request

Date Submitted: 07/15/25 9:12 pm

Viewing: **MIN ENG 6922 : Optimization**

Applications In Mining ↓

Last edit: 08/11/25 3:31 pm

Changes proposed by: Kwame Awuah-Offei (kabp3)

Requested Effective Date	Spring 2026
Department	Mining and Explosives Engineering (RMINENG)
Discipline	Mining Engineering (MIN ENG)
Course Number	6922
Title	Optimization Applications In Mining ↓
Abbreviated Course Title	Opt Appl In Mining ↓
Co-Listed Course	

Catalog Description

In Workflow

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

Approval Path

1. 07/15/25 9:15 pm
Kwame Awuah-Offei (kabp3): Approved for RMINENG Chair
2. 07/16/25 10:05 am
Jade McCain (jm558v): Approved for CCC Secretary
3. 07/25/25 10:28 am
Kelly Liu (liukh): Approved for Engineering DSCC Chair
4. 07/25/25 12:12 pm
Jade McCain (jm558v): Approved for Pending CCC

- Agenda post
5. 08/13/25 8:29 am
Jade McCain
(jm558v): Approved
for CCC Meeting
Agenda
6. 08/13/25 8:33 am
Cecil Eng Huang
Chua (cchua):
Approved for
Campus Curricula
Committee Chair

Mining applications of deterministic mathematical optimization techniques, ~~techniques are covered~~, including ~~linear, integer, mixed-integer, dynamic~~, unconstrained optimization problems, linear programming and extensions (including integer constrained nonlinear, and mixed-integer linear programming), and constrained nonlinear problems. ~~heuristic programming.~~ Case studies.

Prerequisite(s):

Graduate standing or consent.

Corequisite(s):

Credit Hours

Credit Hours

Credit Type	Credit Hours
Lecture	3

Total: 3

Required for Majors No

Elective for Majors No

Communication No

Intensive

Communication No

Emphasized

Grading Basis Graded

Repeatable No

Justification

We no longer have a course that is listed as Optimization Applications in Mining II, so we need to remove the "I" to avoid the confusion it causes. We are also revising the course description to be more in line with the content of the course.

Semesters Previously Offered

Term(s) Offered as
experimental

Is this a MOTR
Course?

Reviewer
Comments

Key: 9020

[Preview Bridge](#)

Course Change Request

Date Submitted: 04/30/25 7:56 am

Viewing: **PSYCH 4310 : Psychology Of The Exceptional Child**

Last approved: 03/25/24 6:01 am

Last edit: 07/08/25 8:28 am

Changes proposed by: Clair Kueny (reynoldscla)

Programs
referencing this
course

- [AP MATH-BS: Applied Mathematics BS](#)
- [CHEM-BA: Chemistry BA](#)
- [PSYCH-BA: Psychological Science BA](#)
- [PSYCH-BS: Psychological Science BS](#)
- [EDUC-BS: Education BS](#)
- [ECON-BA: Economics BA](#)
- [ENV SCI-BS: Environmental Science BS](#)
- [PSYD&I-CTU: Psychology of Diversity and Inclusion CTU](#)

Requested Effective Date	Spring 2026
Department	Psychological Science (RPSYCHOL)
Discipline	Psychology (PSYCH)
Course Number	4310
Title	Psychology Of The Exceptional Child
Abbreviated Course Title	Psych Exceptional Child
Co-Listed Course	

Catalog Description

In Workflow

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

Approval Path

1. 04/30/25 7:57 am
Clair Kueny (reynoldscla):
Approved for RPSYCHOL Chair
2. 04/30/25 8:51 am
Jade McCain (jm558v): Approved for CCC Secretary
3. 06/27/25 8:48 am
Cecil Eng Huang Chua (cchua):
Approved for Social Sciences DSCC Chair
4. 07/25/25 12:12 pm
Jade McCain (jm558v): Approved

for Pending CCC
Agenda post
5. 08/13/25 8:29 am
Jade McCain
(jm558v): Approved
for CCC Meeting
Agenda
6. 08/13/25 8:33 am
Cecil Eng Huang
Chua (cchua):
Approved for
Campus Curricula
Committee Chair

History

1. Mar 25, 2024 by
Devin Burns
(burnsde)

Study of the psychology of children on both ends of the educational spectrum. The course presents the fundamentals of providing services as well as understanding the abilities and disabilities of children classified as exceptional. Includes coverage of various disabilities, and the implications of dealing with personal, family and classroom issues.

Prerequisite(s):

Either Psych 1101 (psychology majors) or Educ 1074 ~~1040~~ (teacher education program).

Corequisite(s):

Credit Hours

Credit Hours

Credit Type	Credit Hours
Lecture	3

Total: 3

Required for Majors Yes

Elective for Majors Yes

Communication Intensive	<u>No</u>
Communication Emphasized	<u>No</u>
Grading Basis	Graded
Repeatable	No

Justification

Education is inactivating Educ 1040. They are replacing Educ 1040 with Educ 1074, so updated the pre-req to reflect this.

Semesters Previously Offered

Term(s) Offered as
experimental

Is this a MOTR
Course?

Reviewer

Comments

Jade McCain (jm558v) (04/30/25 8:51 am): Selected "no" for communication emphasized and communication intensive.

Jade McCain (jm558v) (07/08/25 8:28 am): Changed the requested effective date to Spring 2026.

Key: 1374

[Preview Bridge](#)

Course Change Request

Date Submitted: 06/23/25 12:55 pm

Viewing: **SP&M S 3255 : Discussion And Conference Methods**

Last approved: 03/22/21 6:01 am

Last edit: 07/30/25 9:08 am

Changes proposed by: Kristine Swenson (kswenson)

Programs
referencing this
course

- [COMM ST-MI: Communication Studies Minor](#)
- [L COMM-MI: Leadership Communication Minor](#)

Requested Effective Date	Spring 2026
Department	English & Tech Communication (REGLISH)
Discipline	Speech & Media Studies (SP&M S)
Course Number	3255
Title	Discussion And Conference Methods
Abbreviated Course Title	Discussion&Confer Mthds
Co-Listed Course	

Catalog Description

In Workflow

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

Approval Path

1. 06/23/25 12:56 pm
Kristine Swenson (kswenson):
Approved for
REGLISH Chair
2. 06/23/25 2:21 pm
Jade McCain (jm558v): Approved
for CCC Secretary
3. 06/23/25 5:32 pm
Petra Dewitt (dewittp): Approved
for Arts &
Humanities DSCC
Chair
4. 07/25/25 12:12 pm
Jade McCain

(jm558v): Approved
for Pending CCC
Agenda post

5. 08/13/25 8:29 am

Jade McCain

(jm558v): Approved
for CCC Meeting
Agenda

6. 08/13/25 8:33 am

Cecil Eng Huang

Chua (cchua):

Approved for
Campus Curricula
Committee Chair

History

1. Mar 22, 2021 by
Kristine Swenson
(kswenson)

Explores the theoretical and practical dimensions of human communication in task-oriented small groups with emphasis on producing desired outcomes. Particularly useful for students who wish to improve their ability to work in small group environments.

Prerequisite(s):

English 1120 or Sp&M S 1185. ~~2181~~.

Corequisite(s):

Credit Hours

Credit Hours

Credit Type	Credit Hours
Lecture	3

Total: 3

Required for Majors No

Elective for Majors Yes ~~No~~

Communication Intensive	<u>Yes</u>
Communication Emphasized	<u>No</u>
Grading Basis	Graded
Repeatable	No

Justification

The course originally listed as a prerequisite is not taught often enough to make the requirement feasible.

Semesters Previously Offered

Term(s) Offered as
experimental

Is this a MOTR
Course?

Reviewer

Comments

Jade McCain (jm558v) (06/23/25 2:19 pm): Selected "no" for Communication Emphasized, added grading basis, and punctuation.

Crystal Wilson (wilsoncry) (07/30/25 9:08 am): Fixed formatting in the prerequisite. Selected Yes for elective for majors.

Key: 905

[Preview Bridge](#)

Course Change Request

Date Submitted: 05/06/25 2:00 pm

Viewing: **STAT 3113 : Applied Engineering Statistics**

Last edit: 06/06/25 3:21 pm

Changes proposed by: John Singler (singlerj)

Programs
referencing this
course

- [NU ENG-BS: Nuclear Engineering BS](#)
- [AE ENG-BS: Aerospace Engineering BS](#)
- [AP MATH-BS: Applied Mathematics BS](#)
- [ARC ENG-BS: Architectural Engineering BS](#)
- [CR ENG-BS: Ceramic Engineering BS](#)
- [CH ENG-BS: Chemical Engineering BS](#)
- [CHEM-BA: Chemistry BA](#)
- [CV ENG-BS: Civil Engineering BS](#)
- [GE ENG-BS: Geological Engineering BS](#)
- [CHEM-BS: Chemistry BS](#)
- [MATH-MI: Mathematics Minor](#)
- [CMP SC-BS: Computer Science BS](#)
- [EDUC-BS: Education BS](#)
- [ENV SCI-BS: Environmental Science BS](#)
- [SEMI EN-BS: Semiconductor Engineering BS](#)
- [EV ENG-BS: Environmental Engineering BS](#)
- [GL&GPH-BS: Geology and Geophysics BS](#)
- [MC ENG-BS: Mechanical Engineering BS](#)
- [MT ENG-BS: Metallurgical Engineering BS](#)
- [MI ENG-BS: Mining Engineering BS](#)

Requested Effective Spring 2026
Date
Department Mathematics & Statistics (RMATHEMA)

In Workflow

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

Approval Path

- 1. 06/06/25 3:03 pm
John Singler (singlerj): Approved for RMATHEMA Chair
- 2. 06/06/25 3:23 pm
Jade McCain (jm558v): Approved for CCC Secretary
- 3. 06/16/25 10:33 am
Katie Shannon (shannonk): Approved for Sciences DSCC Chair
- 4. 07/25/25 12:12 pm
Jade McCain (jm558v): Approved for Pending CCC

Discipline Statistics (STAT)
Course Number 3113

Title
 Applied Engineering Statistics

Abbreviated Course Applied Engineering Stat
Title

Co-Listed Course

Catalog Description

Agenda post

5. 08/13/25 8:29 am
 Jade McCain
 (jm558v): Approved
 for CCC Meeting
 Agenda
6. 08/13/25 8:33 am
 Cecil Eng Huang
 Chua (cchua):
 Approved for
 Campus Curricula
 Committee Chair

An introduction to applied statistical methods in engineering dealing with basic probability, estimation, tests of hypotheses, regression, design of experiments and control charts. Statistical computer packages will be used in connection with some of the material studies. Credit will be given for only one of Stat 3111, 3113, 3115 or 3117.

Prerequisite(s):

Math 1215 or Math 1221 with a grade of "C" or better.

Corequisite(s):

Credit Hours

Credit Hours

Credit Type	Credit Hours
Lecture	<u>2</u> 3
<u>Laboratory</u>	<u>1</u>

Total: 3

Required for Majors No

Elective for Majors Yes

Communication No

Intensive

Communication Yes

Emphasized

Grading Basis Graded

Repeatable No

Justification

One credit hour of lecture is being converted to one credit hour of lab in order to increase active learning. The labs will focus on using data-driven methods in applications.

Semesters Previously Offered

Term(s) Offered as
experimental

Is this a MOTR
Course?

Reviewer

Comments

Jade McCain (jm558v) (06/06/25 3:21 pm): Selected "yes" for elective for major and Communication Emphasized and "no" for Communication Intensive.

Key: 10038

[Preview Bridge](#)

Course Change Request

New Course Proposal

Date Submitted: 06/17/25 2:46 pm

Viewing: **TCH COM 3591 : Writing for the Games Industry**

Also listed as: **ENGLISH 3591**

Last edit: 07/01/25 12:18 pm

Changes proposed by: Kristine Swenson (kswenson)

Programs
referencing this
course

TCH COM 3591:
[GAME-MI: Game Studies Minor](#)

Requested Effective Date	Spring 2026		
Department	English & Tech Communication (RENGLISH)		
Discipline	Technical Communication (TCH COM)		
Course Number	3591		
Title	Writing for the Games Industry		
Abbreviated Course Title	Games Industry		
Co-Listed Course	ENGLISH 3591	Department	English & Tech Communication (RENGLISH)

Catalog Description

In Workflow

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

Approval Path

1. 06/17/25 2:54 pm
Kristine Swenson (kswenson):
Approved for
RENGLISH Chair
2. 06/18/25 1:56 pm
Jade McCain (jm558v): Rollback
to RENGLISH Chair
for CCC Secretary
3. 06/20/25 1:56 pm
Kristine Swenson (kswenson):
Approved for
RENGLISH Chair
4. 07/01/25 1:21 pm
Jade McCain

- (jm558v): Approved
for CCC Secretary
5. 07/01/25 2:30 pm
Petra Dewitt
(dewittp): Approved
for Arts &
Humanities DSCC
Chair
6. 07/25/25 12:12 pm
Jade McCain
(jm558v): Approved
for Pending CCC
Agenda post
7. 08/13/25 8:29 am
Jade McCain
(jm558v): Approved
for CCC Meeting
Agenda
8. 08/13/25 8:33 am
Cecil Eng Huang
Chua (cchua):
Approved for
Campus Curricula
Committee Chair

This course focuses on common documents and genres found in the games industry from a technical communication perspective.

Prerequisite(s):

English 1120.

Corequisite(s):

Credit Hours

Credit Hours

Credit Type	Credit Hours
Lecture	3

Total: 3

Required for Majors	No
Elective for Majors	Yes
Communication Intensive	Yes
Communication Emphasized	No
Grading Basis	Graded
Repeatable	No

Justification

This course is required for the Games Studies Minor.

Semesters Previously Offered

Term(s) Offered as
experimental

Previous Course
Code

Is this a MOTR
Course?

Reviewer

Comments

Jade McCain (jm558v) (06/18/25 1:56 pm): Rollback: Rollback per needs to be submitted with the Game Studies DC form.

Jade McCain (jm558v) (06/23/25 8:45 am): Removed "English" from course number, added punctuation, and added grading basis.

Jade McCain (jm558v) (07/01/25 12:18 pm): Selected "no" for Communication Emphasized per department approval via email on 7/1/2025.

Key: 10313

[Preview Bridge](#)

Course Change Request

New Course Proposal

Date Submitted: 06/17/25 2:50 pm

Viewing: **TCH COM 3592 : Critical Game Analysis**

Also listed as: **ENGLISH 3592**

Last edit: 08/13/25 8:21 am

Changes proposed by: Kristine Swenson (kswenson)

Programs
referencing this
course

TCH COM 3592:
[GAME-MI: Game Studies Minor](#)

Requested Effective Date	Spring 2026
Department	English & Tech Communication (REGLISH)
Discipline	Technical Communication (TCH COM)
Course Number	3592
Title	Critical Game Analysis

Abbreviated Course Title	Critical Game Analysis
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Co-Listed Course	ENGLISH 3592	Department
		English & Tech Communication (REGLISH)

Catalog Description

In Workflow

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

Approval Path

1. 06/17/25 2:54 pm
Kristine Swenson (kswenson):
Approved for
REGLISH Chair
2. 06/18/25 1:56 pm
Jade McCain (jm558v): Rollback
to REGLISH Chair
for CCC Secretary
3. 06/20/25 1:56 pm
Kristine Swenson (kswenson):
Approved for
REGLISH Chair
4. 07/01/25 1:21 pm
Jade McCain

- (jm558v): Approved
for CCC Secretary
5. 07/01/25 2:31 pm
Petra Dewitt
(dewittp): Approved
for Arts &
Humanities DSCC
Chair
6. 07/25/25 12:12 pm
Jade McCain
(jm558v): Approved
for Pending CCC
Agenda post
7. 08/13/25 8:29 am
Jade McCain
(jm558v): Approved
for CCC Meeting
Agenda
8. 08/13/25 8:33 am
Cecil Eng Huang
Chua (cchua):
Approved for
Campus Curricula
Committee Chair

This course critically examines technological, social, cultural and political-economic issues within the interdisciplinary study of games with an emphasis on games as communication. Classes and projects engage students in theory-driven treatments of games and expose them to the unique contributions of games to technical communication.

Prerequisite(s):

English 1120, and English 3590 or Tch Com 3590.

Corequisite(s):

Credit Hours

Credit Hours

Credit Type

Credit Hours

Credit Type		Credit Hours
Lecture		3
Total:	3	

Required for Majors No

Elective for Majors Yes

Communication Yes
Intensive

Communication No
Emphasized

Grading Basis Graded

Repeatable No

Justification

This course is required for the Game Studies Minor.

Semesters Previously Offered

Term(s) Offered as
experimental

Previous Course
Code

Is this a MOTR
Course?

Reviewer

Comments

Jade McCain (jm558v) (06/18/25 1:56 pm): Rollback: Rollback per needs to be submitted with the Game Studies DC form.

Jade McCain (jm558v) (06/23/25 9:25 am): Updated formatting, added punctuation and grading basis.

Jade McCain (jm558v) (07/01/25 12:19 pm): Selected "no" for Communication Emphasized per department approval via email on 7/1/2025.

Jade McCain (jm558v) (08/13/25 8:21 am): Adjusted prerequisite wording.

Course Change Request

New Course Proposal

Date Submitted: 06/17/25 2:53 pm

Viewing: **TCH COM 3593 : Creating Narrative Games, Interactive Fiction, and Simulations**

Also listed as: **ENGLISH 3593**

Last edit: 07/01/25 12:21 pm

Changes proposed by: Kristine Swenson (kswenson)

Programs
referencing this
course
TCH COM 3593:
[GAME-MI: Game Studies Minor](#)

Requested Effective Date	Spring 2026		
Department	English & Tech Communication (REGLISH)		
Discipline	Technical Communication (TCH COM)		
Course Number	3593		
Title	Creating Narrative Games, Interactive Fiction, and Simulations		
Abbreviated Course Title	Narrative Games		
Co-Listed Course	ENGLISH 3593	Department	English & Tech Communication (REGLISH)

Catalog Description

In Workflow

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

Approval Path

1. 06/17/25 2:54 pm
Kristine Swenson (kswenson):
Approved for
REGLISH Chair
2. 06/18/25 1:56 pm
Jade McCain (jm558v): Rollback
to REGLISH Chair
for CCC Secretary
3. 06/20/25 1:56 pm
Kristine Swenson (kswenson):
Approved for
REGLISH Chair
4. 07/01/25 1:21 pm
Jade McCain

- (jm558v): Approved
for CCC Secretary
5. 07/01/25 2:31 pm
Petra Dewitt
(dewittp): Approved
for Arts &
Humanities DSCC
Chair
6. 07/25/25 12:12 pm
Jade McCain
(jm558v): Approved
for Pending CCC
Agenda post
7. 08/13/25 8:29 am
Jade McCain
(jm558v): Approved
for CCC Meeting
Agenda
8. 08/13/25 8:33 am
Cecil Eng Huang
Chua (cchua):
Approved for
Campus Curricula
Committee Chair

Introduction to the narrative design process for authoring text-based digital games. By the end of the semester, students will have developed a game or work of interactive fiction. No prior programming knowledge is required for students to be successful in the course.

Prerequisite(s):

English 1120.

Corequisite(s):

Credit Hours

Credit Hours

Credit Type	Credit Hours
Lecture	3

Total: 3

Required for Majors No

Elective for Majors Yes

Communication Yes
Intensive

Communication No
Emphasized

Grading Basis Graded

Repeatable No

Justification

This course is required for the Games Studies minor.

Semesters Previously Offered

Term(s) Offered as
experimental

Previous Course
Code

Is this a MOTR
Course?

Reviewer

Comments

Jade McCain (jm558v) (06/18/25 1:56 pm): Rollback: Rollback per needs to be submitted with the Game Studies DC form.

Jade McCain (jm558v) (06/23/25 9:22 am): Updated formatting and added grading basis.

Jade McCain (jm558v) (07/01/25 12:21 pm): Selected "no" for Communication Emphasized per department approval via email on 7/1/2025.

Key: 10317

[Preview Bridge](#)

Course Change Request

New Course Proposal

Date Submitted: 06/17/25 3:43 pm

Viewing: **TCH COM 3640 : Video Design and Editing**

Last edit: 07/01/25 12:22 pm

Changes proposed by: Kristine Swenson (kswenson)

Requested Effective Date	Spring 2026
Department	English & Tech Communication (REGLISH)
Discipline	Technical Communication (TCH COM)
Course Number	3640
Title	Video Design and Editing
Abbreviated Course Title	Video Design and Editing
Co-Listed Course	

Catalog Description

In Workflow

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

Approval Path

- 1. 06/17/25 3:51 pm
Kristine Swenson (kswenson):
Approved for
REGLISH Chair
- 2. 06/18/25 1:56 pm
Jade McCain (jm558v): Rollback
to REGLISH Chair
for CCC Secretary
- 3. 06/19/25 10:05 am
Kristine Swenson (kswenson):
Approved for
REGLISH Chair
- 4. 07/01/25 1:21 pm
Jade McCain

- (jm558v): Approved
for CCC Secretary
5. 07/01/25 2:31 pm
Petra Dewitt
(dewittp): Approved
for Arts &
Humanities DSCC
Chair
6. 07/25/25 12:12 pm
Jade McCain
(jm558v): Approved
for Pending CCC
Agenda post
7. 08/13/25 8:29 am
Jade McCain
(jm558v): Approved
for CCC Meeting
Agenda
8. 08/13/25 8:33 am
Cecil Eng Huang
Chua (cchua):
Approved for
Campus Curricula
Committee Chair

Principles of visual design, vocal narration, and audio selection to create videos for both academic and professional purposes. Course includes extensive practice in video production.

Prerequisite(s):

English 1600 or Tch Com 1600.

Corequisite(s):

Credit Hours

Credit Hours

Credit Type	Credit Hours
Lecture	3

Total: 3

Required for Majors	No
Elective for Majors	Yes
Communication Intensive	No
Communication Emphasized	Yes
Grading Basis	Graded
Repeatable	Yes

Justification

This course has run twice successfully (SP23, SP24) and will be run for a third time in SP26. It shares space with the 5001 version, which we also will submit for a CC.

Semesters Previously Offered

Term(s) Offered as
experimental

Previous Course
Code

Is this a MOTR
Course?

Reviewer
Comments

Jade McCain (jm558v) (06/18/25 1:56 pm): Rollback: Rollback per needs to be submitted with the Game Studies DC form.

Jade McCain (jm558v) (06/23/25 9:21 am): Added punctuation and grading basis.

Jade McCain (jm558v) (06/23/25 10:15 am): This course was offered as an EC in Spring 2023 with 11 students enrolled and Spring 2024 with 3 students enrolled.

Jade McCain (jm558v) (07/01/25 12:22 pm): Selected "no" for Communication Intensive per department approval via email on 7/1/2025.

Course Change Request

New Course Proposal

Date Submitted: 06/19/25 10:01 am

Viewing: **TCH COM 5630 : Persuasive AI**

Last edit: 08/12/25 7:52 am

Changes proposed by: Kristine Swenson (kswenson)

Requested Effective Date	Spring 2026
Department	English & Tech Communication (REGLISH)
Discipline	Technical Communication (TCH COM)
Course Number	5630
Title	Persuasive AI
Abbreviated Course Title	Persuasive AI
Co-Listed Course	

Catalog Description

In Workflow

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

Approval Path

1. 06/19/25 10:05 am
Kristine Swenson (kswenson): Approved for REGLISH Chair
2. 07/01/25 1:22 pm
Jade McCain (jm558v): Approved for CCC Secretary
3. 07/01/25 2:32 pm
Petra Dewitt (dewittp): Approved for Arts & Humanities DSCC Chair
4. 07/25/25 12:12 pm
Jade McCain

(jm558v): Approved
for Pending CCC
Agenda post
5. 08/13/25 8:29 am
Jade McCain
(jm558v): Approved
for CCC Meeting
Agenda
6. 08/13/25 8:33 am
Cecil Eng Huang
Chua (cchua):
Approved for
Campus Curricula
Committee Chair

Examines how predictive analytics, conversational agents, generative models, and autonomous systems are transforming human communication. Students critique AI-mediated messages, reverse-engineer AI-driven influence tactics, prototype AI-assisted persuasive content, conduct user tests, and craft ethical guidelines and guardrails for responsible deployment.

Prerequisite(s):

One semester of college composition or technical writing, or graduate standing.

Corequisite(s):

Credit Hours

Credit Hours

Credit Type	Credit Hours
Lecture	3

Total: 3

Required for Majors No

Elective for Majors Yes

Communication No
Intensive

Communication Yes
Emphasized

Grading Basis	Graded
Repeatable	Yes

Justification

This course, slated to be run in 2026 is the third time offering an AI in TCH Com course:

FS21: TCH COM 5001 AI and Smart Tech Communication

SP25: TCH COM 5001 AI to Zines

SP26/FS26: TCH COM Persuasive AI

All three iterations are linked by the continuous inquiry into a single problem space for the discipline; that is how artificial intelligence reframes the practice, ethics, and rhetoric of technical and professional communication (TPC). We've used the EC process to determine the best focus for our program and campus, as the field has changed rapidly.

The title "Persuasive AI" converts on the department's early leadership in fostering campus-wide AI literacy by creating a predictable curricular anchor for advisors across campus to plan on. All three offerings are iterative refinements of one course that teaches students to design, critique, and ethically deploy AI-generated TPC content.

Semesters Previously Offered

Term(s) Offered as
experimental

Previous Course
Code

Is this a MOTR
Course?

Reviewer
Comments

Jade McCain (jm558v) (06/23/25 8:43 am): Added grading basis.

Jade McCain (jm558v) (06/26/25 9:23 am): This course is cleared to receive a permanent course number per the CCC Chair's email on 6/23/2025, in regard to the various iterations of the experimental course

Jade McCain (jm558v) (07/01/25 12:23 pm): Selected "no" for Communication Intensive per department approval via email on 7/1/2025.

Jade McCain (jm558v) (08/12/25 7:52 am): This course was offered as AI and Smart Tech Communication (FS21) enrolled 18 in-person and 2 distance students and AI to Zines (SP25)

enrolled 12 students.

Key: 10323

[Preview Bridge](#)

Course Change Request

New Course Proposal

Date Submitted: 06/17/25 3:47 pm

Viewing: **TCH COM 5640 : Advanced Video Design and Editing**

Last edit: 08/12/25 7:49 am

Changes proposed by: Kristine Swenson (kswenson)

Requested Effective Date	Spring 2026
Department	English & Tech Communication (REGLISH)
Discipline	Technical Communication (TCH COM)
Course Number	5640
Title	Advanced Video Design and Editing
Abbreviated Course Title	Advanced Video Design and Edit
Co-Listed Course	

Catalog Description

In Workflow

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

Approval Path

1. 06/17/25 3:51 pm
Kristine Swenson (kswenson):
Approved for
REGLISH Chair
2. 06/18/25 1:56 pm
Jade McCain (jm558v): Rollback
to REGLISH Chair
for CCC Secretary
3. 06/19/25 10:05 am
Kristine Swenson (kswenson):
Approved for
REGLISH Chair
4. 06/26/25 8:31 am
Jade McCain

- (jm558v): Rollback
to RENGLISH Chair
for CCC Secretary
5. 07/01/25 11:58 am
Kristine Swenson
(kswenson):
Approved for
RENGGLISH Chair
6. 07/01/25 1:23 pm
Jade McCain
(jm558v): Approved
for CCC Secretary
7. 07/01/25 2:32 pm
Petra Dewitt
(dewittp): Approved
for Arts &
Humanities DSCC
Chair
8. 07/25/25 12:13 pm
Jade McCain
(jm558v): Approved
for Pending CCC
Agenda post
9. 08/13/25 8:29 am
Jade McCain
(jm558v): Approved
for CCC Meeting
Agenda
10. 08/13/25 8:34 am
Cecil Eng Huang
Chua (cchua):
Approved for
Campus Curricula
Committee Chair

Principles of visual design, vocal narration, and audio selection to create videos for both academic and professional purposes. Course includes extensive practice in video production to achieve professional-level standard.

Prerequisite(s):

Graduate standing.

Corequisite(s):

Credit Hours

Credit Hours

Credit Type	Credit Hours
Lecture	3

Total: 3

Required for Majors No

Elective for Majors Yes

Communication No
Intensive

Communication Yes
Emphasized

Grading Basis Graded

Repeatable No

Justification

This course has run twice as an EC (SP23, SP24) and will run for a third time in SP26.

Semesters Previously Offered

Term(s) Offered as
experimental

Previous Course
Code

Is this a MOTR
Course?

Reviewer
Comments

Jade McCain (jm558v) (06/18/25 1:56 pm): Rollback: Rollback per needs to be submitted with the Game Studies DC form.

Jade McCain (jm558v) (06/23/25 8:47 am): Added punctuation and grading basis.

Jade McCain (jm558v) (06/23/25 10:50 am): This course has only been offered once as an EC in Spring 2024 with 10 students enrolled.

Jade McCain (jm558v) (06/26/25 8:31 am): Rollback: Rollback per this course has only been offered as an EC once.

Jade McCain (jm558v) (07/01/25 1:20 pm): Selected "no" for Communication Intensive per department approval via email on 7/1/2025.

Jade McCain (jm558v) (08/12/25 7:49 am): TCH COM 5640 Shares a shares a space with TCH COM 3640, so this CC form should also receive a permanent course number per CCC Chair via email on 6.26.2025.

Key: 10322

[Preview Bridge](#)

Program Change Request

Date Submitted: 06/20/25 2:11 pm

Viewing: **GAME-MI : Game Studies Minor**

Last approved: 06/10/21 4:07 pm

Last edit: 07/07/25 4:12 pm

Changes proposed by: Kristine Swenson (kswenson)

Catalog Pages Using
this Program

[English and Technical Communication](#)

Effective Catalog Edition	FS2026-SP2027
Start Term	Fall 2026
Program Type	Minor
Academic Level	Undergraduate
Program Code	GAME-MI
Department	English & Tech Communication
Discipline	English
Title	

In Workflow

1. **REGLISH 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

Approval Path

1. 06/20/25 2:12 pm
Kristine Swenson (kswenson):
Approved for
REGLISH Chair
2. 07/01/25 1:20 pm
Jade McCain (jm558v): Approved
for CCC Secretary
3. 07/01/25 2:30 pm
Petra Dewitt (dewittp): Approved
for Arts &
Humanities DSCC
Chair
4. 07/25/25 12:11 pm
Jade McCain (jm558v): Approved
for Pending CCC
Agenda post

- 5. 08/13/25 8:22 am
Jade McCain
(jm558v): Approved
for CCC Meeting
Agenda
- 6. 08/13/25 8:33 am
Cecil Eng Huang
Chua (cchua):
Approved for
Campus Curricula
Committee Chair

History

- 1. Apr 19, 2018 by
Kristine Swenson
(kswenson)
- 2. Jun 10, 2021 by
Kristine Swenson
(kswenson)

Game Studies Minor

CIP Code

Intended /

Program Requirements and Description

Game Studies Minor

Overall Goals and Objectives:

- 1. *Study games as meaningful systems*
- 2. *Research games as narrative devices*
- 3. *Reflect on the cultural and social impact of games*
- 4. *Develop ways to use games as learning tools*

Requirements:

TCH COM 3590	Game Studies	3
or ENGLISH 3590	Game Studies	

Two of the following:

<u>TCH COM 3592</u>	<u>Critical Game Analysis</u>	<u>3</u>
<u>TCH COM 3593</u>	<u>Creating Narrative Games, Interactive Fiction, and Simulations</u>	<u>3</u>
<u>TCH COM 3591</u>	<u>Writing for the Games Industry (TCH COM 3591 Writing for the Games Industry)</u>	<u>3</u>
One of the following:		
<u>TCH COM 3440</u>	<u>Theory of Visual Technical Communication</u>	<u>3</u>
<u>TCH COM 5560</u>	<u>Web-Based Communication</u>	<u>3</u>
<u>TCH COM 5530</u>	Usability Studies	3
ENGLISH 1170	Creative Writing	3
or ENGLISH 2171	Fiction Writing	
<u>TCH COM 5520</u>	<u>Structured Authoring</u>	<u>3</u>
<u>ENGLISH 2232</u>	Comics and Graphic Novels	3
<u>ENGLISH 2243</u>	Science Fiction	3
<u>ENGLISH 2244</u>	Fantasy Literature	3
<u>ART 3260</u>	<u>Exploring Digital Art</u>	<u>3</u>
<u>HISTORY 2510</u>	<u>History of Technology</u>	<u>3</u>
<u>HISTORY 3510</u>	<u>Twentieth Century Technology And Society</u>	<u>3</u>
<u>HISTORY 4580</u>	<u>Issues in Science, Technology and Society</u>	<u>3</u>
<u>HISTORY 4792</u>	<u>Historical Representation in Video Games</u>	<u>3</u>
<u>SP&M S 3275</u>	<u>Foundations of Media Communication</u>	<u>3</u>
<u>COMP SCI 2501</u>	<u>Java and Object Oriented Design</u>	<u>3</u>
<u>COMP SCI 5101</u>	<u>Software Testing And Quality Assurance</u>	<u>3</u>
<u>COMP SCI 5406</u>	<u>Interactive Computer Graphics</u>	<u>3</u>
<u>COMP SCI 5407</u>	<u>Introduction to Virtual Reality</u>	<u>3</u>
<u>IS&T 4654</u>	<u>Introduction to Web Design and Digital Media Studies</u>	<u>3</u>
<u>IS&T 5680</u>	<u>Digital Media Development and Interactive Design</u>	<u>3</u>
<u>IS&T 5885</u>	<u>Human-Computer Interaction and User Experience</u>	<u>3</u>
<u>PSYCH 4720</u>	<u>Psychology of Social Technology</u>	<u>3</u>

Justification for

request

Addition of new core game studies courses: Of the four courses currently required for the minor, only one course is in Game Studies (ENGL TCHCOM 3590). A single GS course is not enough to provide any depth. The popularity of ENGL TCHCOM 3590 among our students provides evidence of student interest in the field. In their evaluation of ENGL TCHCOM 3590, one student wrote, "Game Studies is clearly a complex field with a lot of different topics within it that could realistically span into their own course. [...] I would strongly suggest expanding the amount of Game Studies classes in order for students to be able to learn more about the complicated and nuanced topics in the field."

Addition of new interdisciplinary optional courses: Game Studies is an interdisciplinary field that draws researchers and scholars from various backgrounds.

Attach Budget

System Approval

Letter

MDHE Approval

Supporting

Documents

Reviewer

Comments

Jade McCain (jm558v) (07/07/25 4:12 pm): Corrected the requested effective date and start term.

Program Change Request

Date Submitted: 07/03/25 3:42 pm

Viewing: **GEOPHY-CT : Geophysics Graduate CT**

Last approved: 03/04/21 10:02 am

Last edit: 08/12/25 10:39 am

Changes proposed by: Kelly Liu (liukh)

Catalog Pages Using
this Program
[Geology and Geophysics](#)

Effective Catalog Edition	FS2026-SP2027
Start Term	Fall 2026
Program Type	Certificate
Academic Level	Graduate
Program Code	GEOPHY-CT
Department	Earth Sciences and Engineering
Discipline	Geophysics
Title	

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

Approval Path

1. 05/17/24 10:25 am
Stephen Gao (sgao):
Approved for
RGEOENG Chair
2. 05/20/24 3:05 pm
Crystal Wilson
(wilsoncry):
Rollback to
RGEOENG Chair for
CCC Secretary
3. 06/24/24 3:46 pm
Crystal Wilson
(wilsoncry):
Rollback to Initiator
4. 07/03/25 3:37 pm
Stephen Gao (sgao):
Rollback to Initiator
5. 07/03/25 3:46 pm
Stephen Gao (sgao):
Approved for

RGEOSENG Chair

6. 07/09/25 10:38 am
Jade McCain
(jm558v): Approved
for CCC Secretary

7. 07/25/25 10:27 am
Kelly Liu (liukh):
Approved for
Engineering DSCC
Chair

8. 07/25/25 12:11 pm
Jade McCain
(jm558v): Approved
for Pending CCC
Agenda post

9. 08/13/25 8:22 am
Jade McCain
(jm558v): Approved
for CCC Meeting
Agenda

10. 08/13/25 8:33 am
Cecil Eng Huang
Chua (cchua):
Approved for
Campus Curricula
Committee Chair

History

1. Mar 4, 2020 by
Sharon Lauck
(laucks)
2. Mar 4, 2021 by
Sharon Lauck
(laucks)

Geophysics Graduate CT

CIP Code 40.0603 - Geophysics and Seismology.

Intended Audience

Distance (online) Students

Program Requirements and Description

Geophysics

The graduate certificate in Geophysics is designed to provide graduate students who want to emphasize this area of research with course guidance and a formal recognition. A certificate in Geophysics will give students an advantage when applying for careers in oil and gas, mining, and other fields.

The Geophysics Certificate Program is open to all persons holding a B.S., M.S., or Ph.D. degree in Geology, Geophysics, Geological Engineering, Petroleum Engineering, or Civil Engineering or are currently accepted into a graduate degree program in one of these fields at Missouri S&T. Once admitted to the program, the student must take the four designated courses (provided in the curriculum section). In order to receive a Graduate Certificate, the student must have an average cumulative grade point of 3.0 or better in the certificate courses. ~~courses.~~ ~~Once admitted to the program, a student will be given three years to complete the program.~~ Once admitted to the program, a student will be given six years to complete the program.

Students admitted to the Geophysics Certificate Program will have non-degree graduate status, however, they will earn graduate credit for the courses they complete. If the student completes the four-course sequence with a grade of B or better in each of the courses taken, they, upon application, will be admitted to the non-thesis M.S. degree program in Geology and Geophysics. The certificate credits taken by the students admitted to the M.S. degree program will count towards their master's degree. Students who do not have all of the prerequisite courses necessary to begin the courses in the Geophysics Certificate Program will be allowed to take "bridge" courses at either the graduate or undergraduate level to prepare for the formal certificate courses.

Four of the following courses are required:

<u>GEOPHYS 4231</u>	Seismic Interpretation	3
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<u>GEOPHYS 5096</u>	Global Tectonics	3
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or

<u>GEOLOGY 6331</u>	<u>Geotectonics</u>
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<u>GEOPHYS 5202</u>	Exploration and Development Seismology	3
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<u>GEOPHYS 5211</u>	Seismic Stratigraphy	3
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<u>GEOPHYS 5221</u>	Wave Propagation	3
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<u>GEOPHYS 5231</u>	Seismic Data Processing	3
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<u>GEOPHYS 5241</u>	Advanced Electrical And Electromagnetic Methods In Geophysical Exp	3
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<u>GEOPHYS 5261</u>	Computational Geophysics	3
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<u>GEOPHYS 5736</u>	Geophysical Field Methods	3
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<u>GEOPHYS 5761</u>	Transportation Applications of Geophysics	3
<u>GEOPHYS 5782</u>	Environmental and Engineering Geophysics	3
<u>GEOPHYS 6211</u>	Advanced Seismic Interpretation	3
<u>GEOPHYS 6231</u>	Advanced Seismic Data Processing	3
<u>GEOPHYS 6241</u>	The Theory of Elastic Waves	3
<u>GEOPHYS 6251</u>	Geophysical Inverse Theory	3
<u>GEO ENG 6782</u>	Surface Waves (MASW) and Ground Penetrating Radar (GPR)	3
<u>GEOPHYS 6221</u>	<u>Advanced Geophysical Data Analysis</u>	<u>3</u>
<u>GEO ENG 6784</u>	<u>Advanced Engineering And Environmental Geophysics</u>	<u>3</u>

Justification for
request

-Add GEOPHYS 6221: Advanced Geophysical Data Analysis.

This is a recently developed course with an established online component designed to address current trends and advancements in geophysics. Its content is highly relevant to the geophysics certificate program.

-Change "GEOPHYS 5096" to "GEOPHYS 5096 or GEOLOGY 6331".

GEOPHYS 5096 and GEOLOGY 6331 have been co-taught for the past 15 years.

-Add GEO ENG 6784: Advanced Engineering and Environmental Geophysics.

This is a key Geophysics course. It is taught on a regular basis and as both an on-campus and a distance course.

Attach Budget

System Approval Letter [Geophysics Graduate Certificate-Revised Proposal.pdf](#)

MDHE Approval

Supporting Documents [~~MS&T PC November 2020.pdf~~](#)

Reviewer

Comments

Crystal Wilson (wilsoncry) (05/20/24 3:05 pm): Rollback: Please update start term to fall 2025.
Please attach approval paperwork from department, graduate education, and provost office.
cw 5/20/24

Crystal Wilson (wilsoncry) (06/24/24 3:46 pm): Rollback: Rollback per department request.

Stephen Gao (sgao) (07/03/25 3:37 pm): Rollback: Add justifications for Geophys 6221

Jade McCain (jm558v) (07/08/25 8:29 am): Change the start term to Fall 2026 per CCC deadlines.

Jade McCain (jm558v) (08/12/25 10:39 am): This is a minor change per Provost's Office via email on 7/7/2025.

Experimental Change Request

New Proposal

Date Submitted: 06/04/25 12:25 pm

Viewing: **AERO ENG 5001.018: Numerical Optimization in Dynamic Systems and Control**

Last edit: 08/11/25 1:17 pm

Changes proposed by: Nishant Kumar (nkwtb)

Requested Effective Date	Spring 2026
Department	Mechanical & Aerospace Engineering (RMECHENG)
Discipline	Aerospace Engineering (AERO ENG)
Course Number	5001
Topic ID	018
Experimental Title	

In Workflow

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

Approval Path

1. 06/04/25 1:21 pm
David Bayless (djbkqf): Approved for RMECHENG Chair
2. 06/04/25 3:13 pm
Jade McCain (jm558v): Approved for CCC Secretary
3. 07/01/25 3:12 pm
Kelly Liu (liukh): Approved for Engineering DSCC Chair
4. 07/25/25 12:10 pm
Jade McCain (jm558v): Approved for Pending CCC Agenda post
5. 08/12/25 1:39 pm

Jade McCain
(jm558v): Approved
for CCC Meeting
Agenda
6. 08/12/25 1:42 pm
Cecil Eng Huang
Chua (cchua):
Approved for
Campus Curricula
Committee Chair
7. 08/12/25 2:23 pm
Evie Sherlock
(esdk3): Approved
for CAT entry

Numerical Optimization in Dynamic Systems and Control

Experimental Numr Opm Dyn Sys & Cntrl

Abbreviated Course

Title

Co-Listed Course MECH ENG 5001 - Special Topics

Instructors

Dr. Chaoying Pei

Experimental

Catalog Description

This course covers numerical optimization techniques for solving control problems in dynamic systems governed by differential equations. The focus is on direct methods for trajectory optimization, model predictive control, and constrained nonlinear programming. Applications include robotics, aerospace systems, and real-time control.

Prerequisite(s)

Math 3108; Mech Eng 3313 or Aero Eng 3613.

Corequisite(s)

Field Trip

Statement

Credit Hours

Credit Type	Credit Hours
Lecture	3

Total: 3

Required for Majors No

Elective for Majors Yes

Grading Basis Graded

Repeatable No

Justification for
experimental
course:

A course like this was needed for our MAE graduate students. Our new faculty, Dr. Pei has proposed this course and will like to teach this in SP26.

Reviewer

Comments

Jade McCain (jm558v) (06/04/25 1:31 pm): Added grading basis and corrected prerequisite formatting.

Jade McCain (jm558v) (07/03/25 8:45 am): Added Topic ID.

Experimental Change Request

New Proposal

Date Submitted: 07/08/25 11:24 am

Viewing: **BIO SCI 5001.029: Fish Biology**

Last edit: 07/22/25 1:05 pm

Changes proposed by: Katie Shannon (shannonk)

Requested Effective Date	Spring 2026
Department	Biological Sciences (RBIOLSCI)
Discipline	Biological Sciences (BIO SCI)
Course Number	5001
Topic ID	029
Experimental Title	

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. 07/11/25 9:00 am
David Duvernell (duvernell):
Approved for
RBIOLSCI Chair
2. 07/14/25 8:46 am
Jade McCain (jm558v): Approved
for CCC Secretary
3. 07/22/25 12:20 pm
Katie Shannon (shannonk):
Approved for
Sciences DSCC Chair
4. 07/25/25 12:10 pm
Jade McCain (jm558v): Approved
for Pending CCC
Agenda post
5. 08/12/25 1:40 pm
Jade McCain

(jm558v): Approved
for CCC Meeting
Agenda

6. 08/12/25 1:42 pm

Cecil Eng Huang

Chua (cchua):

Approved for

Campus Curricula

Committee Chair

7. 08/12/25 2:23 pm

Evie Sherlock

(esdk3): Approved

for CAT entry

Fish Biology

Experimental Fish Biology

Abbreviated Course

Title

Co-Listed Course

Instructors

Nick Girondo

Experimental

Catalog Description

An introduction to evolutionary relationships, ecology, morphology, physiology and behavior of fishes. Focuses on anatomy, taxonomy, and identification of species with an emphasis on regional fauna.

Prerequisite(s)

Bio Sci 1113 or Bio Sci 1213; and Bio Sci 1219, and Bio Sci 1223, and Bio Sci 1229.

Corequisite(s)

Field Trip

Statement

Credit Hours

Credit Type

Credit Hours

Credit Type	Credit Hours
Lecture	3

Total: 3

Required for Majors No

Elective for Majors Yes

Grading Basis Graded

Repeatable No

Justification for
experimental
course:

Need a lecture course without a lab during Schrenk renovation

Reviewer

Comments

Jade McCain (jm558v) (07/14/25 8:45 am): Added grading basis.

Jade McCain (jm558v) (07/22/25 1:05 pm): Added Topic ID.

Experimental Change Request

New Proposal

Date Submitted: 07/03/25 5:54 pm

Viewing: **BIO SCI 6001.022: Drugs We Use and Abuse**

Last edit: 07/22/25 1:08 pm

Changes proposed by: Katie Shannon (shannonk)

Requested Effective Date	Spring 2026
Department	Biological Sciences (RBIOLSCI)
Discipline	Biological Sciences (BIO SCI)
Course Number	6001
Topic ID	022
Experimental Title	

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. 07/03/25 5:54 pm
Gina Yosten
(gyxmr): Approved for RBIOLSCI Chair
2. 07/07/25 8:42 am
Jade McCain
(jm558v): Approved for CCC Secretary
3. 07/22/25 12:20 pm
Katie Shannon
(shannonk): Approved for Sciences DSCC Chair
4. 07/25/25 12:10 pm
Jade McCain
(jm558v): Approved for Pending CCC Agenda post
5. 08/12/25 1:40 pm
Jade McCain
(jm558v): Approved

for CCC Meeting

Agenda

6. 08/12/25 1:42 pm

Cecil Eng Huang

Chua (cchua):

Approved for

Campus Curricula

Committee Chair

7. 08/12/25 2:24 pm

Evie Sherlock

(esdk3): Approved

for CAT entry

Drugs We Use and Abuse

Experimental Drugs We Use and Abuse

Abbreviated Course

Title

Co-Listed Course

Instructors

Gina Yosten

Experimental

Catalog Description

Examines the pharmacological properties, mechanisms of action, and physiological effects of drugs commonly used or misused by humans. Emphasizes the biological basis of drug actions, interactions with physiological systems, and principles of pharmacokinetics and pharmacodynamics.

Prerequisite(s)

Corequisite(s)

Field Trip

Statement

Credit Hours

Credit Type

Credit Hours

Credit Type	Credit Hours
Lecture	3

Total: 3

Required for Majors No

Elective for Majors Yes

Grading Basis Graded

Repeatable No

Justification for experimental course:
new course for PhD students in Pharmacology.

Reviewer

Comments

Jade McCain (jm558v) (07/07/25 8:42 am): Added grading basis.
Jade McCain (jm558v) (07/22/25 1:08 pm): Added Topic ID.

Experimental Change Request

New Proposal

Date Submitted: 07/03/25 5:55 pm

Viewing: **BIO SCI 6001.023: Analysis, Interpretation, and Presentation of Biological Data**

Last edit: 07/22/25 1:09 pm

Changes proposed by: Katie Shannon (shannonk)

Requested Effective Date	Spring 2026
Department	Biological Sciences (RBIOLSCI)
Discipline	Biological Sciences (BIO SCI)
Course Number	6001
Topic ID	023
Experimental Title	

In Workflow

- RBIOLSCI Chair
- CCC Secretary
- Sciences DSCC Chair
- Pending CCC Agenda post
- CCC Meeting Agenda
- Campus Curricula Committee Chair
- CAT entry
- Registrar

Approval Path

- 07/03/25 5:58 pm
Gina Yosten (gyxmr): Approved for RBIOLSCI Chair
- 07/07/25 8:44 am
Jade McCain (jm558v): Approved for CCC Secretary
- 07/22/25 12:20 pm
Katie Shannon (shannonk): Approved for Sciences DSCC Chair
- 07/25/25 12:10 pm
Jade McCain (jm558v): Approved for Pending CCC Agenda post
- 08/12/25 1:40 pm
Jade McCain (jm558v): Approved

for CCC Meeting

Agenda

6. 08/12/25 1:42 pm

Cecil Eng Huang

Chua (cchua):

Approved for

Campus Curricula

Committee Chair

7. 08/12/25 2:25 pm

Evie Sherlock

(esdk3): Approved

for CAT entry

Analysis, Interpretation, and Presentation of Biological Data

Experimental Biological Data

Abbreviated Course

Title

Co-Listed Course

Instructors

Gina Yosten

Experimental

Catalog Description

Introduces best practices for the management of biological data, including data generation and collection, biostatistical analysis, hypothesis testing, and interpretation of results. Emphasizes practical skills in applying statistical tools and effectively presenting biological data to enhance rigor and reproducibility of biological experiments.

Prerequisite(s)

Corequisite(s)

Field Trip

Statement

Credit Hours

Credit Type

Credit Hours

Credit Type	Credit Hours
Lecture	3

Total: 3

Required for Majors No

Elective for Majors Yes

Grading Basis Graded

Repeatable No

Justification for
experimental
course:
New course for PhD program.

Reviewer

Comments

Jade McCain (jm558v) (07/07/25 8:43 am): Added grading basis.

Jade McCain (jm558v) (07/22/25 1:09 pm): Added Topic ID.

Experimental Change Request

New Proposal

Date Submitted: 06/11/25 8:15 am

Viewing: **ENG MGT 5001.002: Team Innovation Projects**

Last edit: 07/14/25 2:16 pm

Changes proposed by: David Enke (enke)

Requested Effective Date	Fall 2025
Department	Engineering Mgt & Sys Engr (RENGMNGT)
Discipline	Engineering Management (ENG MGT)
Course Number	5001
Topic ID	002
Experimental Title	

In Workflow

1. RENGMNGT Chair
2. CCC Secretary
3. RBUS&IT Chair
4. CCC Secretary
5. Social Sciences DSCC Chair
6. Engineering DSCC Chair
7. Pending CCC Agenda post
8. CCC Meeting Agenda
9. Campus Curricula Committee Chair
10. CAT entry
11. Registrar

Approval Path

1. 06/23/25 4:31 pm
Amaury Lendasse (altmg): Approved for RENGMNGT Chair
2. 06/24/25 9:07 am
Crystal Wilson (wilsoncry): Approved for CCC Secretary
3. 06/26/25 3:05 pm
Cassie Elrod (cassa): Approved for RBUS&IT Chair
4. 06/26/25 3:11 pm
Jade McCain

- (jm558v): Approved
for CCC Secretary
5. 06/27/25 8:46 am
Cecil Eng Huang
Chua (cchua):
Approved for Social
Sciences DSCC Chair
6. 07/10/25 4:52 pm
Kelly Liu (liukh):
Approved for
Engineering DSCC
Chair
7. 07/25/25 12:11 pm
Jade McCain
(jm558v): Approved
for Pending CCC
Agenda post
8. 08/12/25 1:40 pm
Jade McCain
(jm558v): Approved
for CCC Meeting
Agenda
9. 08/12/25 1:42 pm
Cecil Eng Huang
Chua (cchua):
Approved for
Campus Curricula
Committee Chair
10. 08/12/25 2:30 pm
Evie Sherlock
(esdk3): Approved
for CAT entry

Team Innovation Projects

Experimental	Team Innovation Projects
Abbreviated Course	
Title	
Co-Listed Course	SYS ENG 5001 - Special Topics BUS 5001 - Special Topics

ERP 5001 - Special Topics
FINANCE 5001 - Special Topics
IS&T 5001 - Special Topics
MKT 5001 - Special Topics

Instructors

TBD

Experimental

Catalog Description

This capstone course provides students with an immersive, team-based experience in cross-disciplinary innovation. Students collaborate in diverse, interdisciplinary teams to identify opportunities, develop innovative solutions, and translate them into actionable business or societal impact. Drawing on principles of design thinking, lean startup methodology, systems innovation, AI, information systems, and project management, teams will address real-world challenges aligned with economic development, sustainability, or emerging technologies. Students will engage with industry mentors, conduct stakeholder interviews, iterate prototypes/solutions, and deliver a final pitch/presentation to a panel of faculty and external reviewers.

Prerequisite(s)

Program or instructor approval. Open to students from all Missouri S&T programs and disciplines with instructor approval.

Corequisite(s)

Field Trip

Statement

Credit Hours

Credit Type	Credit Hours
Lecture	1.5
Laboratory	1.5

Total: 3.0

Required for Majors No

Elective for Majors Yes

Grading Basis Graded

Repeatable No

Justification for
experimental
course:

This course embodies the Kummer College's mission to prepare leaders who transform ideas into scalable solutions that drive innovation, entrepreneurship, and economic development. The interdisciplinary nature of the course will allow all students at Missouri S&T to have the opportunity to contribute to the building of an entrepreneurial ecosystem while learning and utilizing critical management, business, and technical skills.

Reviewer

Comments

Jade McCain (jm558v) (06/26/25 1:06 pm): Removed ECON 5001 as a co-list per department request via email on 6/26.

Jade McCain (jm558v) (07/14/25 2:16 pm): Added Topic ID.

Experimental Change Request

New Proposal

Date Submitted: 05/20/25 2:33 pm

Viewing: **HISTORY 4001.048: Leadership in History**

Last edit: 05/30/25 1:41 pm

Changes proposed by: Shannon Fogg (sfogg)

Requested Effective Date	Spring 2026
Department	History & Political Science (RHISTORY)
Discipline	History (HISTORY)
Course Number	4001
Topic ID	048
Experimental Title	

In Workflow

- RHISTORY Chair**
- CCC Secretary**
- Arts & Humanities DSCC Chair**
- Pending CCC Agenda post**
- CCC Meeting Agenda**
- Campus Curricula Committee Chair**
- CAT entry**
- Registrar**

Approval Path

- 05/20/25 2:37 pm
Shannon Fogg (sfogg): Approved for RHISTORY Chair
- 05/20/25 3:11 pm
Jade McCain (jm558v): Approved for CCC Secretary
- 05/20/25 3:29 pm
Petra Dewitt (dewittp): Approved for Arts & Humanities DSCC Chair
- 07/25/25 12:11 pm
Jade McCain (jm558v): Approved for Pending CCC Agenda post
- 08/12/25 1:40 pm

Jade McCain
(jm558v): Approved
for CCC Meeting
Agenda
6. 08/12/25 1:42 pm
Cecil Eng Huang
Chua (cchua):
Approved for
Campus Curricula
Committee Chair
7. 08/12/25 2:31 pm
Evie Sherlock
(esdk3): Approved
for CAT entry

Leadership in History

Experimental Leadership in History

Abbreviated Course

Title

Co-Listed Course

Instructors

Samuel Mahaney

Experimental

Catalog Description

This course delves into the foundational principles of effective leadership, examined through the perspectives of distinguished historical figures.

Prerequisite(s)

History 1100 or History 1200 or History 1300 or History 1310 or Pol Sci 1200.

Corequisite(s)

Field Trip

Statement

Credit Hours

Credit Type	Credit Hours
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Credit Type	Credit Hours
Lecture	3

Total: 3

Required for Majors No

Elective for Majors Yes

Grading Basis Graded

Repeatable No

Justification for
experimental
course:

The department will have multiple faculty members on leave or reduced courseloads and this course allows a lecturer to offer a course in his area of specialization. Additionally, the course may be used by students pursuing an emphasis area in National Security.

Reviewer

Comments

Jade McCain (jm558v) (05/20/25 3:10 pm): Added grading basis.

Jade McCain (jm558v) (05/30/25 1:41 pm): Added Topic ID.

Experimental Change Request

New Proposal

Date Submitted: 05/20/25 3:33 pm

Viewing: **HISTORY 4001.049: France and the Second World War**

Last edit: 08/12/25 1:39 pm

Changes proposed by: Shannon Fogg (sfogg)

Requested Effective Date	Spring 2026
Department	History & Political Science (RHISTORY)
Discipline	History (HISTORY)
Course Number	4001
Topic ID	049
Experimental Title	

In Workflow

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

Approval Path

- 1. 05/20/25 3:35 pm
Shannon Fogg (sfogg): Approved for RHISTORY Chair
- 2. 05/23/25 3:22 pm
Jade McCain (jm558v): Approved for CCC Secretary
- 3. 05/23/25 3:38 pm
Petra Dewitt (dewittp): Approved for Arts & Humanities DSCC Chair
- 4. 07/25/25 12:11 pm
Jade McCain (jm558v): Approved for Pending CCC Agenda post
- 5. 08/12/25 1:41 pm

Jade McCain
(jm558v): Approved
for CCC Meeting
Agenda
6. 08/12/25 1:42 pm
Cecil Eng Huang
Chua (cchua):
Approved for
Campus Curricula
Committee Chair
7. 08/12/25 2:31 pm
Evie Sherlock
(esdk3): Approved
for CAT entry

France and the Second World War

Experimental France and WWII

Abbreviated Course

Title

Co-Listed Course

Instructors

Shannon Fogg

Experimental

Catalog Description

This seminar-style course will examine the complex history of France during the Second World War. It will cover topics such as the French defeat, resistance against the occupation, collaboration with the Nazis, the Holocaust in France, culture during the war, the effects of war on French colonies, and civilians' daily lives.

Prerequisite(s)

History 1200 or History 1310.

Corequisite(s)

Field Trip

Statement

Credit Hours

Credit Type	Credit Hours
Lecture	3

Total: 3

Required for Majors No

Elective for Majors Yes

Grading Basis Graded

Repeatable No

Justification for
experimental
course:

This will expand our range of upper-level European history courses and contribute to our classes in war studies. Students may use this towards the National Security emphasis area.

Reviewer

Comments

Jade McCain (jm558v) (05/23/25 1:50 pm): Added grading basis.
Jade McCain (jm558v) (05/30/25 1:42 pm): Added topic ID.
Jade McCain (jm558v) (08/12/25 1:39 pm): This is a lecture course per department clarification via email on 8/12/2025.

Experimental Change Request

New Proposal

Date Submitted: 05/15/25 12:10 pm

Viewing: **MECH ENG 5001.45:**

Biomanufacturing and Biofabrication for Mechanical Engineers

Last edit: 06/05/25 10:59 am

Changes proposed by: Nishant Kumar (nkwtb)

Requested Effective Date	Fall 2025
Department	Mechanical & Aerospace Engineering (RMECHENG)
Discipline	Mechanical Engineering (MECH ENG)
Course Number	5001
Topic ID	45
Experimental Title	

In Workflow

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

Approval Path

1. 05/15/25 12:47 pm
David Bayless (djbkqf): Approved for RMECHENG Chair
2. 05/20/25 3:13 pm
Jade McCain (jm558v): Approved for CCC Secretary
3. 06/02/25 1:18 pm
Kelly Liu (liukh): Approved for Engineering DSCC Chair
4. 07/25/25 12:11 pm
Jade McCain (jm558v): Approved for Pending CCC Agenda post
5. 08/12/25 1:41 pm

Jade McCain
(jm558v): Approved
for CCC Meeting
Agenda
6. 08/12/25 1:42 pm
Cecil Eng Huang
Chua (cchua):
Approved for
Campus Curricula
Committee Chair
7. 08/12/25 2:32 pm
Evie Sherlock
(esdk3): Approved
for CAT entry

Biomanufacturing and Biofabrication for Mechanical Engineers

Experimental BioMftr & BioFab for MEs

Abbreviated Course

Title

Co-Listed Course

Instructors

Fateme Fayyazbakhsh

Experimental

Catalog Description

This course introduces mechanical engineering students to the interdisciplinary domains of biomanufacturing and biofabrication, where biology, mechanics, and process design intersect. The course explores biological product synthesis and biofabricated structures mainly across healthcare and biomedical industries.

Prerequisite(s)

Mech Eng 3131 and Mech Eng 3525.

Corequisite(s)

Field Trip

Statement

Credit Hours

Credit Type	Credit Hours
Lecture	3

Total: 3

Required for Majors No

Elective for Majors Yes

Grading Basis Graded

Repeatable No

Justification for
experimental
course:

Dr. Fayyazbakhsh is a new tenure track faculty and has proposed this course. A new course, the first of its kind for MAE students.

Reviewer

Comments

Jade McCain (jm558v) (05/20/25 3:12 pm): Corrected formatting and added grading basis.

Jade McCain (jm558v) (06/05/25 10:59 am): Added Topic ID.

Experimental Change Request

New Proposal

Date Submitted: 06/02/25 1:54 pm

Viewing: **MIN ENG 6001.036: Advanced Mining Economics and Risks Management**

Last edit: 08/11/25 3:21 pm

Changes proposed by: Stephen Casey (caseysc)

Requested Effective Date	Fall 2025
Department	Mining and Explosives Engineering (RMINENG)
Discipline	Mining Engineering (MIN ENG)
Course Number	6001
Topic ID	036
Experimental Title	

In Workflow

- 1. RMINENG 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
- 9. Peoplesoft

Approval Path

- 1. 06/23/25 1:49 pm
Kwame Awuah-Offei (kabp3): Approved for RMINENG Chair
- 2. 06/23/25 2:11 pm
Jade McCain (jm558v): Approved for CCC Secretary
- 3. 07/01/25 3:13 pm
Kelly Liu (liukh): Approved for Engineering DSCC Chair
- 4. 07/25/25 12:12 pm
Jade McCain (jm558v): Approved for Pending CCC Agenda post
- 5. 08/12/25 1:41 pm

Jade McCain
(jm558v): Approved
for CCC Meeting
Agenda
6. 08/12/25 1:42 pm
Cecil Eng Huang
Chua (cchua):
Approved for
Campus Curricula
Committee Chair
7. 08/12/25 2:32 pm
Evie Sherlock
(esdk3): Approved
for CAT entry

Advanced Mining Economics and Risks Management

Experimental Adv Mining Econ & Risks

Abbreviated Course

Title

Co-Listed Course

Instructors

Dr. Samuel Frimpong

Experimental

Catalog Description

Principles and practice of economic systems. Economic value proposition using the discounted cash flow, capital asset pricing and derivative resources valuation methods. Mining project uncertainty and risks exposure, stochastic simulation and risks characterization, project risks management and financing strategies.

Prerequisite(s)

Graduate standing and/or consent of instructor.

Corequisite(s)

Field Trip

Statement

Credit Hours

Credit Type	Credit Hours
Lecture	3

Total: 3

Required for Majors No

Elective for Majors Yes

Grading Basis Graded

Repeatable No

Justification for
experimental
course:

Offer an advanced Mining Engineering course on topic of economics and risk management.

Reviewer

Comments

Jade McCain (jm558v) (06/23/25 2:10 pm): Added grading basis and punctuation.

Jade McCain (jm558v) (07/09/25 2:28 pm): Added Topic ID.

Experimental Change Request

New Proposal

Date Submitted: 05/09/25 10:03 am

Viewing: **PHYSICS 5001.005: Quantum Science and Technology**

Last edit: 06/10/25 3:05 pm

Changes proposed by: Thomas Vojta (vojtat)

Requested Effective Date	Fall 2025
Department	Physics (RPHYSICS)
Discipline	Physics (PHYSICS)
Course Number	5001
Topic ID	005
Experimental Title	

In Workflow

- 1. RPHYSICS 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. 05/09/25 10:06 am
Thomas Vojta (vojtat): Approved for RPHYSICS Chair
- 2. 05/20/25 3:15 pm
Jade McCain (jm558v): Approved for CCC Secretary
- 3. 06/10/25 3:01 pm
Katie Shannon (shannonk): Approved for Sciences DSCC Chair
- 4. 07/25/25 12:12 pm
Jade McCain (jm558v): Approved for Pending CCC Agenda post
- 5. 08/12/25 1:41 pm
Jade McCain (jm558v): Approved

for CCC Meeting

Agenda

6. 08/12/25 1:42 pm

Cecil Eng Huang

Chua (cchua):

Approved for

Campus Curricula

Committee Chair

7. 08/12/25 2:33 pm

Evie Sherlock

(esdk3): Approved

for CAT entry

Quantum Science and Technology

Experimental Quantum Science and Tech

Abbreviated Course

Title

Co-Listed Course

Instructors

Dr. Symeon Mystakidis

Experimental

Catalog Description

This seminar-style course introduces students to the foundations and frontiers of quantum science and technology. It explores essential concepts in quantum mechanics, mathematical tools, and engineering challenges associated with quantum platforms. The course also surveys transformative applications in areas such as many-body dynamics, quantum chemistry, quantum sensing, and quantum computing.

Prerequisite(s)

Math 3304 and Physics 2305.

Corequisite(s)

Field Trip

Statement

Credit Hours

Credit Type

Credit Hours

Credit Type	Credit Hours
Recitation/Seminar/Discussion	2

Total: 2

Required for Majors No

Elective for Majors Yes

Grading Basis Graded

Repeatable No

Justification for
experimental
course:

We are currently witnessing the "second quantum revolution": Quantum physics is transforming from an area of fundamental research to the center of a scientific and technological revolution. This seminar-style course introduces upper-level undergraduate and beginning graduate students to new developments in this fast-moving field. It helps bridging the gap between the regular classes on quantum physics and the current research frontiers as well as the needs of the developing quantum industry.

Reviewer

Comments

Jade McCain (jm558v) (05/20/25 3:14 pm): Added grading basis and corrected formatting.

Jade McCain (jm558v) (06/10/25 3:05 pm): Added Topic ID.

Experimental Change Request

New Proposal

Date Submitted: 07/01/25 3:03 am

Viewing: **PHYSICS 5001.006: Introduction to Superconductivity**

Last edit: 07/29/25 1:47 pm

Changes proposed by: Thomas Vojta (vojtat)

Requested Effective Date	Spring 2026
Department	Physics (RPHYSICS)
Discipline	Physics (PHYSICS)
Course Number	5001
Topic ID	006
Experimental Title	

In Workflow

- 1. RPHYSICS 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. 07/01/25 3:05 am
Thomas Vojta (vojtat): Approved for RPHYSICS Chair
- 2. 07/01/25 9:25 am
Jade McCain (jm558v): Approved for CCC Secretary
- 3. 07/22/25 12:22 pm
Katie Shannon (shannonk): Approved for Sciences DSCC Chair
- 4. 07/25/25 12:12 pm
Jade McCain (jm558v): Approved for Pending CCC Agenda post
- 5. 08/12/25 1:41 pm
Jade McCain (jm558v): Approved

for CCC Meeting

Agenda

6. 08/12/25 1:42 pm

Cecil Eng Huang

Chua (cchua):

Approved for

Campus Curricula

Committee Chair

7. 08/12/25 2:33 pm

Evie Sherlock

(esdk3): Approved

for CAT entry

Introduction to Superconductivity

Experimental Superconductivity

Abbreviated Course

Title

Co-Listed Course

Instructors

Hyunsoo Kim

Experimental

Catalog Description

An introduction to electromagnetism, thermodynamics, and semiclassical theory of superconductivity. Topics include London theory, Ginzburg-Landau theory, BCS theory, Josephson junction, unconventional superconductivity, high-T_c superconductivity, superconducting quantum computers, and experimental techniques for superconductivity research.

Prerequisite(s)

Physics 2305 or Physics 2311.

Corequisite(s)

Field Trip

Statement

Credit Hours

Credit Type

Credit Hours

Credit Type	Credit Hours
Lecture	3

Total: 3

Required for Majors No

Elective for Majors Yes

Grading Basis Graded

Repeatable No

Justification for
experimental
course:

Superconductivity is a quantum phenomenon that forms the basis of many current quantum technologies. The course is part of our expanding footprint in quantum science and technology. It will give students theoretical and practical experience in this important area.

Reviewer

Comments

Jade McCain (jm558v) (07/01/25 9:24 am): Added punctuation and grading basis.

Jade McCain (jm558v) (07/22/25 1:20 pm): Added Topic ID.

Crystal Wilson (wilsoncry) (07/29/25 1:47 pm): Capitalized the word Superconductivity in the title.

Experimental Change Request

New Proposal

Date Submitted: 05/19/25 8:51 am

Viewing: **PHYSICS 6001.009: Quantum Field Theory**

Last edit: 08/11/25 3:36 pm

Changes proposed by: Thomas Vojta (vojtat)

Requested Effective Date	Fall 2025
Department	Physics (RPHYSICS)
Discipline	Physics (PHYSICS)
Course Number	6001
Topic ID	009
Experimental Title	

In Workflow

- 1. RPHYSICS 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. 05/19/25 10:13 am
Thomas Vojta (vojtat): Approved for RPHYSICS Chair
- 2. 05/20/25 3:16 pm
Jade McCain (jm558v): Approved for CCC Secretary
- 3. 06/10/25 3:01 pm
Katie Shannon (shannonk): Approved for Sciences DSCC Chair
- 4. 07/25/25 12:12 pm
Jade McCain (jm558v): Approved for Pending CCC Agenda post
- 5. 08/12/25 1:42 pm
Jade McCain (jm558v): Approved

for CCC Meeting

Agenda

6. 08/12/25 1:42 pm

Cecil Eng Huang

Chua (cchua):

Approved for

Campus Curricula

Committee Chair

7. 08/12/25 2:33 pm

Evie Sherlock

(esdk3): Approved

for CAT entry

Quantum Field Theory

Experimental Quantum Field Theory

Abbreviated Course

Title

Co-Listed Course

Instructors

Dr. Ulrich Jentschura

Experimental

Catalog Description

This course introduces the quantum field-theoretical formalism, mainly on the basis of the electromagnetic field. First, field operators are derived in the nonrelativistic case to describe atoms interacting with quantized fields. Then, the relativistic formalism is introduced, and the Dirac (spin-1/2) field is treated. Positive-energy and negative-energy states are interpreted in terms of electrons and positrons. Feynman diagrams are introduced, and loop corrections are evaluated, including the quantum electrodynamic correction to the Coulomb force.

Prerequisite(s)

Physics 6111 and Physics 6201.

Corequisite(s)

Field Trip

Statement

Credit Hours

Credit Type	Credit Hours
Lecture	3

Total: 3

Required for Majors No

Elective for Majors Yes

Grading Basis Graded

Repeatable No

Justification for
experimental
course:

Quantum field theory forms the basis of many modern developments in physics. This course will expand the topical course offerings for our PhD students.

Reviewer

Comments

Jade McCain (jm558v) (05/20/25 3:16 pm): Added grading basis and corrected formatting.

Jade McCain (jm558v) (06/10/25 3:07 pm): Added Topic ID.

Experimental Change Request

New Proposal

Date Submitted: 04/28/25 11:52 am

Viewing: **PSYCH 5001.005: Workplace**

Psychology for Business Leaders

Last edit: 08/11/25 3:38 pm

Changes proposed by: Clair Kueny (reynoldscla)

Requested Effective Date	Spring 2026
Department	Psychological Science (RPSYCHOL)
Discipline	Psychology (PSYCH)
Course Number	5001
Topic ID	005
Experimental Title	

In Workflow

- 1. RPSYCHOL Chair
- 2. CCC Secretary
- 3. Social Sciences DSCC Chair
- 4. Pending CCC Agenda post
- 5. CCC Meeting Agenda
- 6. Campus Curricula Committee Chair
- 7. CAT entry
- 8. Registrar

Approval Path

- 1. 04/28/25 11:52 am
Clair Kueny (reynoldscla):
Approved for RPSYCHOL Chair
- 2. 04/30/25 8:52 am
Jade McCain (jm558v): Approved for CCC Secretary
- 3. 06/27/25 8:48 am
Cecil Eng Huang Chua (cchua):
Approved for Social Sciences DSCC Chair
- 4. 07/25/25 12:12 pm
Jade McCain (jm558v): Approved for Pending CCC Agenda post
- 5. 08/12/25 1:42 pm

Jade McCain
(jm558v): Approved
for CCC Meeting
Agenda
6. 08/12/25 1:42 pm
Cecil Eng Huang
Chua (cchua):
Approved for
Campus Curricula
Committee Chair
7. 08/12/25 2:35 pm
Evie Sherlock
(esdk3): Approved
for CAT entry

Workplace Psychology for Business Leaders

Experimental Psych for Business

Abbreviated Course

Title

Co-Listed Course

Instructors

Susan Murray

Experimental

Catalog Description

An applied survey of key topics from psychology as they relate to the modern business environment. This course explores the historical development of the American workplace and core I-O concepts including recruitment and personnel selection, performance measurement and management, training and development, and organizational culture. Special attention is given to supporting workers including the topics of labor relations, workplace health and safety, and legal frameworks influencing personnel decisions. This class is designed for future business leaders seeking to apply psychological science to build more effective, ethical, and resilient organizations.

Prerequisite(s)

Graduate standing outside of the psychological science department.

Corequisite(s)

Field Trip

Statement

Credit Hours

Credit Type	Credit Hours
Lecture	3

Total: 3

Required for Majors No

Elective for Majors Yes

Grading Basis Graded

Repeatable No

Justification for
experimental
course:

The asynchronous MBA needs an asynchronous psychology course as part of its new STEM designation so we are creating this course for that newly designated program. This course will be tailored towards the MBA students and separate from what we cover in psychology graduate programs which may require more psychology foundation.

Once taught multiple times, its course number will be Psych 5050

Reviewer

Comments

Jade McCain (jm558v) (04/30/25 8:51 am): Added grading basis.

Jade McCain (jm558v) (06/30/25 4:04 pm): Added Topic ID.

2025-2026 CCC Calendar



CCC Meetings are from 8:15am – 9:30am in Parker Hall 203 (*August 2025- December 2025*)

CCC INFORMATION	Department submission to Registrar <i>Fridays</i>	DSCC submission to Registrar <i>Fridays</i>	CCC Meeting <i>Tuesdays</i>	Faculty Senate Meeting <i>Thursdays</i>
EC forms for Fall 2025 & Affecting CC forms for Summer 2026 & Spring 2026	July 11, 2025	July 25, 2025	August 12, 2025	September 18, 2025
Non-affecting CC forms for Summer 2026 & Spring 2026	August 15, 2025	August 29, 2025	September 16, 2025	October 16, 2025
	September 19, 2025	October 3, 2025	October 21, 2025	November 20, 2025
Affecting CC forms for Fall 2026	October 17, 2025	October 31, 2025	November 18, 2025	December 18, 2025
EC forms for Spring 2026	December 5, 2025	December 19, 2025	January 13, 2026	February 12, 2026
	January 16, 2026	January 30, 2026	February 17, 2026	March 19, 2026
	February 13, 2026	February 27, 2026	March 17, 2026	April 16, 2026
DC forms for Fall 2026	March 6, 2026	March 20, 2026	April 14, 2026	May 14, 2026
EC forms for Summer 2026 & non- affecting CC forms for Fall 2026	April 3, 2026	April 17, 2026	May 5, 2026	June 18, 2026
EC forms for Fall 2026	TBD	TBD	TBD	TBD

Official dates and location for Spring 2026 CCC meetings will be determined at a later date.