

Campus Curricula Committee Meeting Agenda

October 21st, 2025

8:15am - 9:30am, Parker Hall 203

(For Faculty Senate Meeting of November 20th, 2025)

Review of submitted Course Change forms:

File: 507	BUS 5360 : Business Operations
File: 1759	CHEM 1310 : General Chemistry I
File: 1636	ENG MGT 6101 : Advanced Research Methodology
File: 10335	ENV SCI 5425 : Environmental Conservation
File: 4731	MKT 5410 : Big Data Consumer Analytics
File: 994	PSYCH 2200 : Research Methods
File: 10333	THEATRE 2400 : Principles of Stage Management
File: 10332	THEATRE 2200 : History of Entertainment Design
File: 10334	THEATRE 4243 : Entertainment Design II

Review of submitted Program Change forms:

File: 253	AI-MI : Minor in Artificial Intelligence and Machine Learning in Business
File: 46	ENG MG-MS : Engineering Management MS
File: 256	FIN TCH-MI : Minor in Financial Technology, Analytics and Transformation
File: 58	FINANCE-MI : Finance Minor
File: 70	GLBLSTD-MI : Global Studies Minor
File: 75	IST-BS : Information Science and Tch BS
File: 131	SYS EN-PHD : Systems Engineering PhD
File: 136	THEATRE-MI : Theatre Minor

Review of submitted Experimental Course forms:

File: 540	BIO SCI 6001.024: Systems Biology
File: 545	ELEC ENG 2001.004: Emerging Technologies in Semiconductors
File: 539	ENG MGT 5001.003: Innovation Ecosystems
File: 544	ENGLISH 3001.054: AI in Popular Culture
File: 538	ENV SCI 2001.001: Mammalian Ecology
File: 541	MATH 5001.010: Mathematical Foundations of Deep Learning
File: 542	MECH ENG 3001.005: Biomechanics
File: 537	PET ENG 5001.014: Professional Development non-thesis Grad Students
File: 536	PET ENG 6001.017: Professional Development Grad Students w Thesis
File: 543	STAT 5001.010: Topics in Data Science

New Business:

N/A

Course Change Request

Date Submitted: 10/02/25 10:48 am

Viewing: **BUS 5360 : Business Operations**

Formerly known as: **BUS 3360**

Last approved: 07/23/24 6:37 am

Last edit: 10/02/25 10:48 am

Changes proposed by: Crystal Wilson (wilsoncry)

In Workflow

- 1. RBUS&IT 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. 10/02/25 11:34 am
Cassie Elrod (cassa):
Approved for
RBUS&IT Chair
- 2. 10/02/25 3:33 pm
Jade McCain
(jm558v): Approved
for CCC Secretary
- 3. 10/02/25 5:38 pm
Cecil Eng Huang
Chua (cchua):
Approved for Social
Sciences DSCC Chair
- 4. 10/06/25 9:14 am
Jade McCain
(jm558v): Approved
for Pending CCC
Agenda post

History

- 1. Jul 7, 2014 by barryf
- 2. May 4, 2015 by
barryf

Programs referencing this course	BUS 5360: MGMT-MI: Management Minor BUS&MS-BS: Business and Mgmt Systems BS DSCMGMT-CT: Digital Supply Chain Mgmt CT DSCMGMT-MI: Digital Supply Chain Mgt Minor
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Justification for this

Requested Effective Date	Fall 2026
Department	Business and Information Tech (RBUS&IT)
Discipline	Business (BUS)
Course Number	5360
Title	Business Operations
Abbreviated Course Title	Business Operations
Co-Listed Course	

Catalog Description	This course examines the concepts, processes, and institutions that are fundamental to an understanding of business operations within organizations. Emphasis is on the management and organization of manufacturing and service operations and the application of quantitative methods to the solution of strategic, tactical and operational problems.
Prerequisite(s):	BUS 1210 or ENG MGT 2211; at least Junior standing; and one of the following: STAT 1115, STAT 3111 , STAT 3113, STAT 3115 , or STAT 3117.
Corequisite(s):	

Credit Hours	
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Credit Hours

- 3. Sep 28, 2020 by Cecil Eng Huang Chua (cchua)
- 4. Apr 3, 2024 by Evie Sherlock (esdk3)
- 5. Jul 23, 2024 by Cecil Eng Huang Chua (cchua)

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 Removed stat courses the math department says is being inactivated per their email sent to departments on September 15.

Semesters Previously Offered

Term(s) Offered as
experimental

Previous Course

Is this a MOTR
Course?

Reviewer
Comments

Key: 507

[Preview Bridge](#)

Course Change Request

Date Submitted: 09/17/25 5:12 pm

Viewing: **CHEM 1310 : General Chemistry I**

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

Last edit: 10/03/25 8:04 am

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

Other Courses
referencing this
course

[In The Catalog Prerequisites:](#)
[ARCH ENG 2103 : Architectural Materials And Methods Of Construction](#)
[BIO SCI 5493 : General Virology](#)
[CHEM 1319 : General Chemistry Laboratory](#)
[CHEM 1320 : General Chemistry II](#)
[CIV ENG 2601 : Fundamentals of Environmental Engineering and Science](#)

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. 09/17/25 5:12 pm
Chariklia Sotiriou-Leventis (cslevent):
Approved for
RCHEMIST Chair
2. 09/18/25 11:17 am
Jade McCain
(jm558v): Approved
for CCC Secretary
3. 10/01/25 4:32 pm
Katie Shannon
(shannonk):
Approved for
Sciences DSCC Chair
4. 10/06/25 9:14 am
Jade McCain
(jm558v): Approved
for Pending CCC
Agenda post

History

1. Sep 21, 2015 by
Klaus Woelk
(woelkk)

[ENV ENG 2601 : Fundamentals of Environmental Engineering and Science](#)

[EXP ENG 5514 : Display Fireworks Manufacturing](#)

[GEOLOGY 2610 : Mineralogy And Crystallography](#)

[GEOLOGY 2611 : Physical Mineralogy And Petrology](#)

[GEOLOGY 3410 : Introduction To Geochemistry](#)

[MET ENG 2110 : Metallurgy For Engineers](#)

[MIN ENG 3913 : Mineral Identification and Exploration](#)

[PET ENG 2510 : Properties of Hydrocarbon Fluids](#)

[PET ENG 4821 : Environmental Petroleum Applications](#)

[In The Catalog Description:](#)

[CHEM 1319 : General Chemistry Laboratory](#)

2. Sep 11, 2024 by Evie
Sherlock (esdk3)

Requested Effective Date Fall 2026

Department Chemistry (RCHEMIST)

Discipline Chemistry (CHEM)

Course Number 1310

Title General Chemistry I

Abbreviated Course Title General Chemistry I

Co-Listed Course

Catalog Description A comprehensive study of general chemistry concepts with focus on the atomic and molecular nature of matter. Fundamental scientific principles will be applied to solve chemistry problems and describe macroscopic physical properties.

Prerequisite(s): Entrance requirements.

Corequisite(s):

Credit Hours

Credit Hours

Credit Type	Credit Hours
Lecture	<u>3</u> 2
Recitation/Seminar/Discussion	<u>1</u> 2

Total: 4

Required for Majors Yes

Elective for Majors No

Communication Intensive No

Communication Emphasized No

Grading Basis Graded

Repeatable No

Justification Chem 1310 needs to change from 2 cr lecture and 2 cr recitation to 3 cr lecture and 1 cr recitation to be able to cover the material during lectures and also include demos.

Semesters Previously Offered

Term(s) Offered as experimental

Is this a MOTR Course?

attribute
Chemistry I (CHEM 150)
Chemistry I with Lab (CHEM 150L)

Reviewer Comments **Jade McCain (jm558v) (09/18/25 11:09 am):** Selected "no" for communication intensive and communication emphasized.

Jade McCain (jm558v) (10/03/25 8:04 am): Changed requested effective date to fall 2026 per ccc deadlines.

Key: 1759

[Preview Bridge](#)

Course Change Request

Date Submitted: 08/27/25 2:42 pm

Viewing: **ENG MGT 6101 : Advanced Research Methodology in Engineering Management**

Also listed as: **SYS ENG 6101**

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

Last edit: 10/03/25 8:16 am

Changes proposed by: Cihan Dagli (dagli)

In Workflow

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

Approval Path

- 1. 08/27/25 2:44 pm
Amaury Lendasse (altmg): Approved for RENG MNGT Chair
- 2. 08/29/25 9:30 am
Jade McCain (jm558v): Approved for CCC Secretary
- 3. 09/12/25 12:19 pm
Theresa Swift (thswift): Approved for Engineering DSCC Chair
- 4. 10/06/25 9:15 am
Jade McCain (jm558v): Approved for Pending CCC Agenda post

History

- 1. Oct 29, 2018 by Steven Corns

Programs referencing this course

ENG MGT 6101:
[ENG MG-PHD: Engineering Management PhD](#)
SYS ENG 6101:
[SYS EN-PHD: Systems Engineering PhD](#)

Requested Effective Date	Fall 2026		
Department	Engineering Mgt & Sys Engr (RENGMNGT)		
Discipline	Engineering Management (ENG MGT)		
Course Number	6101		
Title	Advanced Research Methodology in Engineering Management		
Abbreviated Course Title	Adv Res Mthd Eng Mgt		
Co-Listed Course	SYS ENG 6101	Department	Engineering Mgt & Sys Engr (RENGMNGT)

Catalog Description

An advanced study of research methodology techniques and theories in conducting research activities. The research problems, hypotheses, literature search, data requirements and analyses, interpretation and presentation of results are examined.

Prerequisite(s):
Graduate standing.

Corequisite(s):

Credit Hours

Credit Hours

(cornss)

2. Aug 6, 2024 by Evie
Sherlock (esdk3)

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 Elimination of "In Engineering Management " in from the title make the course to be independent of specific engineering discipline.

Semesters Previously Offered

Term(s) Offered as
experimental

Is this a MOTR
Course?

Reviewer **Jade McCain (jm558v) (08/29/25 9:27 am):** Selected for Communication Intensive and
Comments Communication Emphasized.

Jade McCain (jm558v) (08/29/25 9:29 am): Changed requested effective date to Fall 2026 per
CCC deadlines.

Jade McCain (jm558v) (09/11/25 8:57 am): Selected "no" for required for majors.

Key: 1636

[Preview Bridge](#)

Course Change Request

New Course Proposal

Date Submitted: 09/15/25 2:51 pm

Viewing: **ENV SCI 5425 : Environmental Conservation**

Also listed as: **BIO SCI 5425**

Last edit: 10/03/25 10:18 am

Changes proposed by: Katie Shannon (shannonk)

In Workflow

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

Approval Path

- 1. 09/15/25 3:47 pm
Gina Yosten (gyxmr): Approved for RBIOLSCI Chair
- 2. 09/18/25 11:17 am
Jade McCain (jm558v): Approved for CCC Secretary
- 3. 10/01/25 4:32 pm
Katie Shannon (shannonk): Approved for Sciences DSCC Chair
- 4. 10/06/25 9:15 am
Jade McCain (jm558v): Approved for Pending CCC Agenda post

Requested Effective Date	Fall 2026		
Department	Biological Sciences (RBIOLSCI)		
Discipline	Environmental Sciences (ENV SCI)		
Course Number	5425		
Title	Environmental Conservation		
Abbreviated Course Title	Environmental Conservation		
Co-Listed Course	BIO SCI 5425	Department	Biological Sciences (RBIOLSCI)

Catalog Description
The course explores the ecological knowledge needed for wildlife conservation, including how species behavior and ecology ultimately shape wildlife populations. Traditional wildlife management topics will be included, along with an added emphasis on ethological implications that affect biological diversity. In addition, human behavior and its impact on wildlife populations and diversity will be studied through hands-on experience, field observation, case studies, scientific literature, and assigned readings. This course is taught as part of a 3 week faculty-led South Africa study abroad program.
Prerequisite(s):
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 No
Intensive

Communication No
Emphasized

Grading Basis Graded

Repeatable No

Justification	This course was offered twice as BIO SCI 5001
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Semesters Previously Offered

Term(s) Offered as
experimental

Previous Course
Code

Is this a MOTR
Course?

Reviewer **Jade McCain (jm558v) (09/16/25 3:47 pm):** Was taught once in SP 2024 with 14 students
Comments enrolled and once in SS 2023 with 14 students.
Jade McCain (jm558v) (09/16/25 3:48 pm): Corrected course number and added grading basis.
Jade McCain (jm558v) (10/03/25 10:18 am): Changed requested effective date to fall 2026 per
ccc deadlines.

Course Change Request

Date Submitted: 10/02/25 11:46 am

Viewing: **MKT 5410 : Big Data Consumer Analytics**

Last approved: 07/23/24 6:38 am

Last edit: 10/02/25 11:46 am

Changes proposed by: Crystal Wilson (wilsoncry)

In Workflow

- 1. RBUS&IT 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. 10/02/25 3:38 pm
Cassie Elrod (cassa):
Approved for
RBUS&IT Chair
- 2. 10/03/25 10:10 am
Jade McCain
(jm558v): Approved
for CCC Secretary
- 3. 10/03/25 12:22 pm
Cecil Eng Huang
Chua (cchua):
Approved for Social
Sciences DSCC Chair
- 4. 10/06/25 9:16 am
Jade McCain
(jm558v): Approved
for Pending CCC
Agenda post

History

- 1. Feb 1, 2021 by Cecil
Eng Huang Chua
(cchua)

MARKET-MI: Marketing Minor

Programs
referencing this
course

Requested Effective Date	Fall 2026
Department	Business and Information Tech (RBUS&IT)
Discipline	Marketing (MKT)
Course Number	5410
Title	Big Data Consumer Analytics
Abbreviated Course Title	Consumer Analytics
Co-Listed Course	

Catalog Description

In this course, we will discuss the challenges that companies face in extracting and utilizing insights from consumer Big Data to implement innovation in various marketing activities. Additionally, we will explore various approaches of analyzing consumer Big Data. The course will include lectures, case studies and simulation.

Prerequisite(s):

Bus 6622 or both Mkt 3110 and one of the following: Stat 1115, Stat 1116, Stat ~~3111~~, Stat 3113, ~~Stat 3115~~, or Stat 3117.

Corequisite(s):

Credit Hours

Credit Hours

2. Apr 3, 2024 by Evie
Sherlock (esdk3)
3. Jul 23, 2024 by Cecil
Eng Huang Chua
(cchua)

Credit Type	Credit Hours
Lecture	3

Total: 3

Required for Majors No

Elective for Majors Yes

Communication Intensive No

Communication Emphasized No

Grading Basis Graded

Repeatable No

Justification Removed stat courses the math department says is being inactivated per their email sent to departments on September 15.

Semesters Previously Offered

Term(s) Offered as
experimental

Is this a MOTR
Course?

Reviewer
Comments

Course Change Request

Date Submitted: 09/30/25 3:31 pm

Viewing: **PSYCH 2200 : Research Methods**

Last approved: 06/22/15 3:46 am

Last edit: 09/30/25 3:31 pm

Changes proposed by: Crystal Wilson (wilsoncry)

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. 10/01/25 8:20 am
Clair Kueny (reynoldscla):
Approved for RPSYCHOL Chair
- 2. 10/02/25 11:24 am
Jade McCain (jm558v): Approved for CCC Secretary
- 3. 10/02/25 11:33 am
Cecil Eng Huang Chua (cchua):
Approved for Social Sciences DSCC Chair
- 4. 10/06/25 9:15 am
Jade McCain (jm558v): Approved for Pending CCC Agenda post
- 5. 10/06/25 9:25 am
Jade McCain (jm558v): Approved for CCC Meeting Agenda

Programs referencing this course	PSYCH-BA: Psychological Science BA PSYCH-BS: Psychological Science BS HISTORY-BS: Bachelor of Science in History
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Requested Effective Date	Fall 2026
Department	Psychological Science (RPSYCHOL)
Discipline	Psychology (PSYCH)
Course Number	2200
Title	Research Methods
Abbreviated Course Title	Research Methods
Co-Listed Course	

Catalog Description	An introduction to the content, models and methodologies of psychological research. This course covers the fundamental components of psychological research including the literature review, correlational and descriptive methods, experimental design, statistical analyses, interpretation, and ethics.
Prerequisite(s):	Psych 1101; Stat 1115 1115 , Stat 3113 , or Stat 3113 . 3115 . Stat 1115 preferred.
Corequisite(s):	

Credit Hours	
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6. 10/06/25 9:26 am
Jade McCain
(jm558v): Rollback
to CCC Meeting
Agenda for Campus
Curricula
Committee Chair

History

1. Jun 22, 2015 by
Nancy Stone
(nstone)

Credit Type	Credit Hours
Lecture	3
Laboratory	1

Total: 4

Required for Majors Yes

Elective for Majors No

Communication Yes
Intensive

Communication No
Emphasized

Grading Basis Graded

Repeatable No

Justification Removed Stat 3115 from the pre-req. Per email received from the math/stat department, "Stat 3115: will no longer be offered. The statistics faculty group believes the redesigned Stat 3113 provides stronger, broader preparation for students in majors that previously required 3115."

Semesters Previously Offered

Term(s) Offered as
experimental

Is this a MOTR
Course?

Reviewer **Jade McCain (jm558v) (10/06/25 9:26 am):** Rollback: Rollback per this form is on the agenda
Comments for the 10/21 CCC meeting.

Course Change Request

New Course Proposal

Date Submitted: 09/09/25 3:27 pm

Viewing: **THEATRE 2400 : Principles of Stage Management**

Last edit: 09/11/25 9:36 am

Changes proposed by: Irina Ivliyeva (ivliyeva)

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. 09/09/25 3:42 pm
Irina Ivliyeva (ivliyeva): Approved for RPHILOSO Chair
- 2. 09/11/25 9:37 am
Jade McCain (jm558v): Approved for CCC Secretary
- 3. 09/25/25 7:29 pm
Alejandra Sobrado (asgx4): Approved for Arts & Humanities DSCC Chair
- 4. 10/06/25 9:15 am
Jade McCain (jm558v): Approved for Pending CCC Agenda post

THEATRE-MI: Theatre Minor

Programs
referencing this
course

Requested Effective Date	Fall 2026
Department	Arts, Languages & Philosophy (RPHILOSO)
Discipline	Theatre (THEATRE)
Course Number	2400
Title	Principles of Stage Management
Abbreviated Course Title	Stage Management
Co-Listed Course	

Catalog Description

Stage Management will focus on the skills and mechanics necessary to contribute to a production process with a focus on organization, leadership, and communication. This course will also cover venue management and stage control automation trends. Students become familiar with industry standard safety procedures for various venues types, arts contract lifecycle and its applications.

Prerequisite(s):
Entrance requirements.

Corequisite(s):

Credit Hours

Credit Hours

Credit Type	Credit Hours
Lecture	3

Total:	3
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Required for Majors	No
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Elective for Majors	Yes
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Communication Intensive	Yes
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Communication Emphasized	No
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Grading Basis	Graded
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Repeatable	No
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Justification	The course will expand student offerings at the lower level. Instructor: Taylor Gruenloh. We request the permanent number for this course because this course will be injected into the existing Theater Minor, and used later this semester in developing the undergraduate certificate in Entertainment Technologies. Students graduating from Missouri S&T with an engineering degree often have an interest in the entertainment industry.
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Semesters Previously Offered

Term(s) Offered as
experimental

Previous Course
Code

Is this a MOTR
Course?

Reviewer	Jade McCain (jm558v) (09/11/25 8:55 am): Added grading basis.
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Comments	Jade McCain (jm558v) (09/11/25 9:36 am): Selected "no" for Communication Emphasized.
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Key: 10333

[Preview Bridge](#)

Course Change Request

New Course Proposal

Date Submitted: 09/09/25 3:22 pm

Viewing: **THEATRE 2200 : History of Entertainment Design**

Last edit: 09/11/25 8:31 am

Changes proposed by: Irina Ivliyeva (ivliyeva)

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. 09/09/25 3:42 pm
Irina Ivliyeva (ivliyeva): Approved for RPHILOSO Chair
- 2. 09/11/25 8:56 am
Jade McCain (jm558v): Approved for CCC Secretary
- 3. 09/25/25 7:28 pm
Alejandra Sobrado (asgx4): Approved for Arts & Humanities DSCC Chair
- 4. 10/06/25 9:15 am
Jade McCain (jm558v): Approved for Pending CCC Agenda post

THEATRE-MI: Theatre Minor

Programs
referencing this
course

Requested Effective Date	Fall 2026
Department	Arts, Languages & Philosophy (RPHILOSO)
Discipline	Theatre (THEATRE)
Course Number	2200
Title	History of Entertainment Design
Abbreviated Course Title	Entertainment Design History
Co-Listed Course	

Catalog Description

Study of the evolution of entertainment from the 19th century to the present as an art form and as a science. From theater to theme parks to virtual reality, students will examine the work of designers past and present as well as entertainment venues through the last century.

Prerequisite(s):
Entrance requirements.

Corequisite(s):

Credit Hours

Credit Hours

Credit Type	Credit Hours
Lecture	3

Total:	3
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Required for Majors	No
Elective for Majors	Yes
Communication Intensive	No
Communication Emphasized	Yes
Grading Basis	Graded
Repeatable	No

Justification	The course will expand student offering at the lower level. Instructor: Taylor Gruenloh. We request the permanent number for this course because this course will be injected into the existing Theater Minor, and used later this semester in developing the undergraduate certificate in Entertainment Technologies. Students graduating from Missouri S&T with an engineering degree often have an interest in the entertainment industry.
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Semesters Previously Offered

Term(s) Offered as experimental

Previous Course Code

Is this a MOTR Course?

Reviewer Comments	Jade McCain (jm558v) (09/11/25 8:31 am): Added grading basis.
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Course Change Request

New Course Proposal

Date Submitted: 09/09/25 3:32 pm

Viewing: **THEATRE 4243 : Entertainment Design II**

Last edit: 09/11/25 8:31 am

Changes proposed by: Irina Ivliyeva (ivliyeva)

Programs
referencing this
course

[THEATRE-MI: Theatre Minor](#)

Requested Effective Date	Fall 2026
Department	Arts, Languages & Philosophy (RPHILOSO)
Discipline	Theatre (THEATRE)
Course Number	4243
Title	Entertainment Design II
Abbreviated Course Title	Entertainment Design II
Co-Listed Course	

Catalog Description

A continuation of live entertainment design. Students will be introduced to projection design technologies and learn the craft of projection mapping. They will learn advanced lighting science and best techniques to allow for projection design integration into live entertainment scenarios.

Prerequisite(s):
Theatre 3243.

Corequisite(s):

Credit Hours

Credit Hours

Credit Type	Credit Hours
Lecture	3

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. 09/09/25 3:42 pm
Irina Ivliyeva (ivliyeva): Approved for RPHILOSO Chair
2. 09/11/25 8:56 am
Jade McCain (jm558v): Approved for CCC Secretary
3. 09/25/25 7:28 pm
Alejandra Sobrado (asgx4): Approved for Arts & Humanities DSCC Chair
4. 10/06/25 9:15 am
Jade McCain (jm558v): Approved for Pending CCC Agenda post

Total:	3
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Required for Majors	No
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Elective for Majors	Yes
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Communication Intensive	No
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Communication Emphasized	Yes
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Grading Basis	Graded
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Repeatable	No
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Justification	The course will expand student offering at the upper level, after the students take Theatre 3243. Instructor: Taylor Gruenloh. We request the permanent number for this course because this course will be injected into the existing Theater Minor, and used later this semester in developing the undergraduate certificate in Entertainment Technologies. Students graduating from Missouri S&T with an engineering degree often have an interest in the entertainment industry.
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Semesters Previously Offered

Term(s) Offered as
experimental

Previous Course
Code

Is this a MOTR
Course?

Reviewer Comments	Jade McCain (jm558v) (09/11/25 8:31 am): Added grading basis and punctuation.
----------------------	--

Key: 10334

[Preview Bridge](#)

Program Change Request

Date Submitted: 10/02/25 9:29 am

Viewing: **AI-MI : Minor in Artificial Intelligence and Machine Learning in Business**

Last approved: 06/12/24 8:28 am

Last edit: 10/03/25 7:50 am

Changes proposed by: Crystal Wilson (wilsoncry)

Catalog Pages Using
this Program

- [Business and Management Systems](#)
- [Information Science and Technology](#)

Effective Catalog Edition	FS2026-SP2027
Start Term	Fall 2026
Program Type	Minor
Academic Level	Undergraduate
Program Code	AI-MI
Department	Business and Information Science & Tech
Discipline	Info Science & Technology
Title	

In Workflow

- [1. RINFSCTE 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

Approval Path

1. 10/02/25 11:36 am
Cassie Elrod (cassa):
Approved for
RINFSCTE Chair
2. 10/02/25 3:30 pm
Jade McCain
(jm558v): Approved
for CCC Secretary
3. 10/02/25 5:37 pm
Cecil Eng Huang
Chua (cchua):
Approved for Social
Sciences DSCC Chair
4. 10/06/25 9:16 am
Jade McCain
(jm558v): Approved
for Pending CCC
Agenda post

History

- 1. Dec 11, 2017 by
barryf
- 2. Mar 12, 2018 by
ershenb
- 3. Apr 18, 2018 by
ershenb
- 4. Apr 19, 2018 by
ershenb
- 5. Apr 19, 2018 by
ershenb
- 6. Feb 3, 2021 by Cecil
Eng Huang Chua
(cchua)
- 7. Jun 10, 2021 by
Cecil Eng Huang
Chua (cchua)
- 8. Jun 12, 2024 by
Cecil Eng Huang
Chua (cchua)

Minor in Artificial Intelligence and Machine Learning in Business

CIP Code

Program Requirements and Description

Minor in Artificial Intelligence and Machine Learning in Business

The Minor requires 15 credit hours, as follows:

<u>BUS 5730</u>	Machine Learning and Artificial Intelligence for Business	3
<u>IS&T 3420</u>	Introduction to Data Science and Management	3
<u>IS&T 5520</u>	Data Science and Machine Learning with Python	3
And two courses from the following list:		6
<u>STAT 1115</u>	Statistics For The Social Sciences I	
<u>IS&T 3333</u>	Data Networks and Information Security	
<u>IS&T 3343</u>	Systems Analysis	

<u>IS&T 5420</u>	Business Analytics and Data Science
<u>IS&T 5450</u>	Introduction to Information Visualization
<u>IS&T 5535</u>	Machine Learning Algorithms and Applications
<u>ERP 5410</u>	Use of Business Intelligence

Justification for request
Removed stat courses the math department says is being inactivated per their email sent to departments on September 15.

Attach Budget
System Approval Letter
MDHE Approval
Supporting Documents
Reviewer Comments

Program Change Request

Date Submitted: 09/11/25 3:11 pm

Viewing: **ENG MG-MS : Engineering Management MS**

Last approved: 07/30/25 9:33 am

Last edit: 09/11/25 3:11 pm

Changes proposed by: Peggy Lindner (plkxt)

Catalog Pages Using
this Program
[Engineering Management](#)

Effective Catalog Edition	FS2026-SP2027
Start Term	Fall 2026
Program Type	Master of Science
Academic Level	Graduate
Program Code	ENG MG-MS
Department	Engineering Mgt & Sys Engr
Discipline	Engineering Management
Title	

In Workflow

1. **RENGMNGT Chair**
2. **CCC Secretary**
3. **Engineering DSCC Chair**
4. **Pending CCC Agenda post**
5. **CCC Meeting Agenda**
6. Campus Curricula Committee Chair
7. FS Meeting Agenda
8. Faculty Senate Chair
9. Registrar

Approval Path

1. 09/11/25 5:05 pm
Amaury Lendasse (altmg): Approved for RENG MNGT Chair
2. 09/19/25 2:40 pm
Jade McCain (jm558v): Approved for CCC Secretary
3. 09/29/25 11:18 am
Theresa Swift (thswift): Approved for Engineering DSCC Chair
4. 10/06/25 9:16 am
Jade McCain (jm558v): Approved for Pending CCC Agenda post

History

1. Jun 12, 2014 by pantaleoa
2. Jun 19, 2015 by Stephen Raper (sraper)
3. Jul 23, 2015 by pantaleoa
4. Apr 19, 2016 by pantaleoa
5. Jun 18, 2018 by Sarah Johnson (johsarah)
6. Jun 14, 2019 by Sarah Johnson (johsarah)
7. Apr 7, 2022 by Crystal Wilson (wilsoncry)
8. Jun 14, 2024 by David Enke (enke)
9. Jul 30, 2025 by Crystal Wilson (wilsoncry)

Engineering Management MS

CIP Code

Intended Aud

Program Requirements and Description

The M.S. degree program is offered on the Rolla campus and several locations including the West County Continuing Education Center in St. Louis, Fort Leonard Wood (restricted to Engineer Captain's Career Course), and by distance education throughout the United States and selected international locations. Distance course lectures are archived upon completion of the lecture and all lectures are available to students through streaming video during the semester for review. These courses can be reached from anywhere at any time. It is feasible to obtain a Missouri S&T non-thesis M.S. degree regardless of your location.

The M.S. non-thesis program requires completion of at least 10 three-credit hour courses approved by the

academic advisor. The M.S. with thesis option requires 30 credit hours including the thesis. All students are required to take the following:

Core Courses

ENG MGT 5111 Management for Engineers and Scientists

ENG MGT 5320 Project Management

ENG MGT 5412 Operations Management Science

ENG MGT 6211 Advanced Financial Management

SYS ENG 6102 Information Based Design

Students are then encouraged to identify an emphasis area depending on their interests and to choose available courses from the selected area. However, courses can be chosen from more than one emphasis area. Students have the option to take up to two out-of-department elective courses.

Students must submit a typed Form I to the EMSE graduate office by the beginning of the semester of their 9th credit hour. Links to forms are available at: <https://grad.mst.edu/>. Thesis students cannot register for Graduate Research (ENG MGT 6099) until their Form I is on file. If students vary from Form I, they must file a Form I-A and have it approved by their advisor to update their plan of study. Non-thesis students must take three 6000-level courses. Thesis students must take two 6000-level courses (in addition to ENG MGT 6099). Students must meet all requirements for graduation as specified in the Graduate Catalog for engineering management. A graduate student already holding or completing a master's degree may obtain a second M.S. in engineering management by completing at least an additional 24 credit hours of work.

Justification for
request

Adding SYS ENG 6102 – Information Based Design to the Engineering Management M.S. core ensures all students gain exposure to modern, data-driven methods for designing and managing complex systems. The course complements the existing core by providing a systems-oriented foundation that reflects current industry practice.

Attach Budget

System Approval
Letter

MDHE Approval

Supporting
Documents

Reviewer
Comments

Program Change Request

Date Submitted: 09/05/25 3:24 pm

Viewing: **FIN TCH-MI : Minor in Financial Technology, Analytics and Transformation**

Last approved: 07/01/25 11:10 am

Last edit: 10/02/25 2:17 pm

Changes proposed by: Cecil Eng Huang Chua (cecq8z)

Catalog Pages Using
this Program

- [Business and Management Systems](#)
- [Information Science and Technology](#)

Effective Catalog Edition	FS2026-SP2027
Start Term	Fall 2026
Program Type	Minor
Academic Level	Undergraduate
Program Code	FIN TCH-MI
Department	<u>Business and Information Tech</u> Business Administration
Discipline	Finance
Title	

In Workflow

1. RBUSADMN 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

Approval Path

1. 09/08/25 8:21 am
Cassie Elrod (cassa):
Approved for
RBUSADMN Chair
2. 09/08/25 8:39 am
Jade McCain (jm558v): Approved
for CCC Secretary
3. 09/08/25 11:27 am
Cecil Eng Huang Chua (cchua):
Approved for Social
Sciences DSCC Chair
4. 10/06/25 9:16 am
Jade McCain (jm558v): Approved
for Pending CCC
Agenda post

History

- 1. Mar 21, 2018 by
barryf
- 2. Apr 19, 2018 by
ershenb
- 3. Apr 19, 2019 by
cladmin-bdietzler
- 4. Jun 10, 2021 by
Cecil Eng Huang
Chua (cchua)
- 5. Aug 19, 2021 by
Crystal Wilson
(wilsoncry)
- 6. Apr 30, 2024 by
Cecil Eng Huang
Chua (cchua)
- 7. Jul 1, 2025 by Cecil
Eng Huang Chua
(cchua)

Minor in Financial Technology, Analytics and Transformation

CIP Code

Program Requirements and Description

Minor in Financial Technology, Analytics and Transformation

The Minor requires 15 credit hours, as follows:

Required Courses:		6
FINANCE 2150	Corporate Finance I	
FINANCE 5310	Financial Technology and Analytics	
One or more of the following courses must be taken:		3
IS&T 3420	Introduction to Data Science and Management	
BUS 5230	Financial Data Analysis and Storytelling	
One or more of the following courses must be taken:		6
IS&T 5780	Human and Organizational Factors in Cybersecurity	

<u>IS&T 5520</u>	Data Science and Machine Learning with Python
<u>ERP 5210</u>	Performance Dashboard, Scorecard and Data Visualization
<u>ERP 5410</u>	Use of Business Intelligence
<u>FINANCE 5160</u>	<u>Corporate Finance II</u>
<u>FINANCE 5260</u>	Investments I

Justification for
request

Finance 5160 was originally dropped because there was no one to teach it.

Attach Budget

System Approval
Letter

MDHE Approval

Supporting
Documents

Reviewer

Comments

Jade McCain (jm558v) (09/08/25 8:38 am): Changed requested effective date to Fall 2026 since DC forms can only be effective for fall.

Crystal Wilson (wilsoncry) (10/02/25 2:17 pm): Updated department.

Program Change Request

Date Submitted: 09/05/25 3:23 pm

Viewing: **FINANCE-MI : Finance Minor**

Last approved: 02/23/24 10:49 am

Last edit: 10/02/25 2:33 pm

Changes proposed by: Cecil Eng Huang Chua (cecq8z)

Catalog Pages Using
this Program

- [Business and Management Systems](#)
- [Information Science and Technology](#)

Effective Catalog Edition	FS2026-SP2027
Start Term	Fall 2026
Program Type	Bachelor of Science
Academic Level	Undergraduate
Program Code	FINANCE-MI
Department	Business and Information Science & Tech
Discipline	Finance Business
Title	

In Workflow

1. [RINFSCTE 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

Approval Path

1. 09/08/25 8:21 am
Cassie Elrod (cassa):
Approved for
RINFSCTE Chair
2. 09/08/25 8:37 am
Jade McCain
(jm558v): Approved
for CCC Secretary
3. 09/08/25 11:27 am
Cecil Eng Huang
Chua (cchua):
Approved for Social
Sciences DSCC Chair
4. 10/06/25 9:16 am
Jade McCain
(jm558v): Approved
for Pending CCC
Agenda post

History

- 1. Apr 28, 2014 by barryf
- 2. Jan 30, 2015 by barryf
- 3. Jul 14, 2015 by pantaleoa
- 4. Jul 14, 2015 by pantaleoa
- 5. Jun 14, 2019 by barryf
- 6. Feb 3, 2021 by Cecil Eng Huang Chua (cchua)
- 7. Mar 8, 2021 by Marita Raper (tibbettsmg)
- 8. Feb 23, 2024 by Cecil Eng Huang Chua (cchua)

Finance Minor

CIP Code

Program Requirements and Description

Minor in Finance

The minor in finance requires ~~the following~~ 15 hours of coursework. ~~coursework:~~

Required Courses: 6

<u>ECON 1100</u>	Principles Of Microeconomics
or <u>ECON 1200</u>	Principles Of Macroeconomics
<u>FINANCE 2150</u>	Corporate Finance I

Choose three courses from the following list: 9

<u>BUS 5230</u>	Financial Data Analysis and Storytelling
<u>FINANCE 5160</u>	<u>Corporate Finance II</u>

FINANCE 5260

Investments I

FINANCE 5310

Financial Technology and Analytics

Justification for
request

FIN 5160 originally removed because there was no one to teach it. This issue has been resolved.

Attach Budget

System Approval
Letter

MDHE Approval

Supporting
Documents

Reviewer

Comments

Jade McCain (jm558v) (09/08/25 8:35 am): Changed requested effective date to Fall 2026 since DC forms can only be effective for fall.

Crystal Wilson (wilsoncry) (10/02/25 2:33 pm): Updated department, discipline, and formatting.

Program Change Request

A deleted record cannot be edited

Program Inactivation Proposal

Date Submitted: 09/22/25 12:18 pm

Viewing: **GLBLSTD-MI : Global Studies Minor**

Last approved: 04/22/25 1:12 pm

Last edit: 09/22/25 12:18 pm

Changes proposed by: Crystal Wilson (wilsoncry)

Catalog Pages Using
this Program
[Global Studies](#)

Final Catalog FS2026-SP2027

Rationale for
Inactivation

In Workflow

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

Approval Path

1. 09/22/25 12:19 pm
Crystal Wilson
(wilsoncry):
Approved for CCC
Secretary
2. 09/22/25 12:58 pm
Stephen Raper
(sraper): Approved
for ProvostOffice
3. 09/23/25 9:29 am
Jade McCain
(jm558v): Approved
for CCC Secretary
4. 09/25/25 7:30 pm
Alejandra Sobrado
(asgx4): Approved
for Arts &
Humanities DSCC

Chair

5. 10/06/25 9:16 am

Jade McCain

(jm558v): Approved

for Pending CCC

Agenda post

History

1. Aug 5, 2014 by
pantaleoa
2. Jul 21, 2015 by
pantaleoa
3. Jun 14, 2019 by
Kathryn Dolan
(dolankc)
4. Jul 9, 2020 by
Crystal Wilson
(wilsoncry)
5. Nov 18, 2022 by
Crystal Wilson
(wilsoncry)
6. Feb 28, 2023 by
Crystal Wilson
(wilsoncry)
7. Mar 6, 2023 by
Crystal Wilson
(wilsoncry)
8. Aug 20, 2024 by
Crystal Wilson
(wilsoncry)
9. Apr 22, 2025 by
Crystal Wilson
(wilsoncry)

This minor is assigned to the Provost Office in Joe'ss. Supporting document is attached for this inactivation. I am initiating the form to the Provost Office role because the RACADSPT role does not exist anymore.

Supporting
Documents

[GSandSusminordeletionmemo.pdf](#)

Effective Catalog FS2026-SP2027

Edition

Start Term

Program Type

Academic Level

Program Code GLBLSTD-MI

Department RACADSPT

Discipline RACADSPT

Title

Global Studies Minor

CIP Code

Program Requirements and Description

Global Studies Minor

Global studies is a multi-disciplinary undergraduate minor program designed to aid in the preparation of Missouri S&T students to be successful in an increasingly global workforce. Students who complete the global studies minor will have an increased awareness of the society, culture, technical issues, and/or language of at least one country other than the United States prior to the completion of their Missouri S&T undergraduate experience. Any Missouri S&T student enrolled in an undergraduate degree program is eligible for the Global Studies minor program, which consists of 12 credit hours from an approved list of classes and at least 2 weeks (14 days) of experience in a foreign country acquired during an approved Missouri S&T class or research project, Missouri S&T extracurricular activity, and/or Missouri S&T study abroad activity.

Courses must be selected from the list of approved courses maintained by the Global Studies Advisory Committee. At least one three hour course must focus on the society, culture, and/or language of a foreign country. Approved courses that meet this criterion are from the arts, languages, humanities, or social sciences. In addition, at least one three hour course and no more than nine hours/three courses must come from approved courses that include at least 25 percent international studies content. "International studies content" is defined as course content addressing countries or regions outside of the United States. "International studies content" does not include content that is universal but rather that which addresses specific countries or regions outside of the United States. To satisfy the multi-disciplinary aspect of the minor, no more than six hours may be taken from a single Missouri S&T degree program.

The minor requires personal experience in a foreign country. Students will participate in one or more approved Missouri S&T-sponsored trips to a foreign country for no less than 14 days total. Examples of approved trips include, but are not limited to, those that may be a part of Missouri S&T classes and/or an OURE project-related

trip, an extracurricular activity including Missouri S&T's Engineers Without Borders field trips, and/or Missouri S&T sanctioned study abroad. The list of approved activities is maintained by the Global Studies Advisory Committee.

The curricula criteria, including course lists and the list of approved activities for foreign country experience, are maintained by the Global Studies Advisory Committee and are available on the quick links section of the Missouri S&T Experiential Learning website at <https://experientiallearning.mst.edu/internationalopportunities/globalstudies/>.

Justification for
request

Attach Budget

System Approval
Letter

MDHE Approval

Supporting
Documents

Reviewer
Comments

Program Change Request

Date Submitted: 10/02/25 9:27 am

Viewing: **IST-BS : Information Science and Tch BS**

Last approved: 07/01/25 11:13 am

Last edit: 10/02/25 2:22 pm

Changes proposed by: Crystal Wilson (wilsoncry)

Catalog Pages Using
this Program

[Information Science and Technology](#)

Effective Catalog Edition	FS2026-SP2027
Start Term	Fall 2026
Program Type	Bachelor of Science
Academic Level	Undergraduate
Program Code	IST-BS
Department	<u>Business and</u> Information Science & Tech
Discipline	Info Science & Technology
Title	

In Workflow

1. RINFSCTE 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

Approval Path

1. 10/02/25 11:37 am
Cassie Elrod (cassa):
Approved for
RINFSCTE Chair
2. 10/03/25 10:09 am
Jade McCain
(jm558v): Approved
for CCC Secretary
3. 10/03/25 12:23 pm
Cecil Eng Huang
Chua (cchua):
Approved for Social
Sciences DSCC Chair
4. 10/06/25 9:16 am
Jade McCain
(jm558v): Approved
for Pending CCC
Agenda post

History

1. Apr 28, 2014 by
barryf
2. Jan 30, 2015 by
barryf
3. Jul 21, 2015 by
pantaleoa
4. Jul 21, 2015 by
pantaleoa
5. Jul 28, 2015 by
kleb6b
6. Mar 7, 2016 by
barryf
7. Apr 21, 2017 by
Crystal Wilson
(wilsoncry)
8. Jun 18, 2018 by
barryf
9. Jun 10, 2021 by
Cecil Eng Huang
Chua (cchua)
10. Jun 14, 2024 by
Cassie Elrod (cassa)
11. Jul 1, 2025 by Cecil
Eng Huang Chua
(cchua)

Information Science and Tch BS

CIP Code

Program Requirements and Description

Bachelor of Science Information Science and Technology

In Information Science and Technology, the Bachelor of Science degree consists of 120 credit hours. All undergraduate students in Information Science and Technology are required to complete a General Education

Requirements Core, including courses in Humanities, Social Sciences, Mathematics, Science, and Communication Skills.

A common departmental core of courses in Business and Information Technology helps provide students with skills to succeed in a fast-changing and globalized environment. Information Science and Technology (IS&T) Core courses and IS&T Electives provide students with comprehensive knowledge of information technology utilization in businesses. These courses include business analytics & data science, database management, systems analysis, introduction to data science and management, networks and communications, and cybersecurity. The electives for this degree consist of advanced coursework in the areas introduced by the required courses.

A minimum grade of "C" is required in the courses designated accordingly.

Students have 11 credit hours for free electives.

Freshman Year

First Semester	Credits	Second Semester	Credits
<u>BUS 1810</u>	1	<u>BUS 1110</u>	3
<u>IS&T 1551</u>	3	<u>BUS 1210</u>	3
<u>IS&T 1750</u>	3	<u>IS&T 1552</u>	3
<u>ENGLISH 1120</u> ³	3	<u>MATH 1210</u> ³	5
Science Elective ^{1,3}	3	<u>PSYCH 1101</u> ³	3
Science Lab ³	1		
	14		17

Sophomore Year

First Semester	Credits	Second Semester	Credits
<u>ERP 2110</u>	3	<u>IS&T 3420</u>	3
<u>SP&M S 1185</u> ³	3	<u>ECON 1100</u> ³	3
<u>ECON 1200</u> ³	3	<u>ENGLISH 2560</u> (or TECHCOM 2560) ³	3
<u>FINANCE 2150</u>	3	<u>STAT 3111 or 1115</u>	3
Fine Art, or Humanities Elective ^{2,3}	3	<u>STAT 1115</u>	<u>3</u>
		Science Elective ^{1,3}	3
	15		15

Junior Year

First Semester	Credits	Second Semester	Credits
<u>IS&T 3333</u>	3	<u>IS&T 3343</u>	3
<u>IS&T 3423</u>	3	<u>IS&T 4444</u>	3
<u>IS&T 4654</u>	3	IS&T Elective	3
IS&T Elective	3	<u>MKT 3110</u>	3
Free Elective	3	<u>POL SCI 1200</u> ³	3
	15		15

Senior Year

First Semester	Credits	Second Semester	Credits
<u>IS&T 5520</u>	3	<u>BUS 5980</u>	3
<u>IS&T 5725</u>	3	<u>IS&T 5420</u>	3
IS&T Electives	6	IS&T Elective	3

Free Elective	5	Free Electives	3
	17		12

Total Credits: 120

A grade of "C" or better is required in the following courses for graduation; [BUS 1110](#), [BUS 1210](#), [BUS 1810](#), [BUS 5980](#), [ECON 1100](#), [ECON 1200](#), [ERP 2110](#), [FINANCE 2150](#), [MKT 3110](#), [IS&T 1551](#), [IS&T 1552](#), [IS&T 1750](#), [IS&T 3333](#), [IS&T 3343](#), [IS&T 3420](#), [IS&T 3423](#), [IS&T 4444](#), [IS&T 4654](#), [IS&T 5420](#), [IS&T 5520](#), [IS&T 5725](#) and all IS&T Electives (can include [BUS 5730](#), [BUS 5910](#), [COMP SCI 4700](#), [COMP SCI 5601](#), or any IS&T or ERP designated course at the 3000-level or above).

1

General education elective courses in two of the following areas: biology, chemistry, geology, or physics must fulfill the Missouri S&T general education requirements applicable to the students catalog year.

2

General education elective courses in two of the following areas: art, history, music, or theater must fulfill the Missouri S&T general education requirements applicable to the students catalog year.

3

General education discipline required course. These fulfill the Missouri S&T general education requirements applicable to the student's catalog year.

Justification for
request

Removed stat courses the math department says is being inactivated per their email sent to departments on September 15.

Attach Budget

System Approval
Letter

MDHE Approval

Supporting
Documents

Reviewer
Comments

Crystal Wilson (wilsoncry) (10/02/25 2:22 pm): Updated department.

Program Change Request

Date Submitted: 08/29/25 2:10 pm

Viewing: **SYS EN-PHD : Systems Engineering PhD**

Last approved: 06/14/24 1:17 pm

Last edit: 09/18/25 7:06 pm

Changes proposed by: Cihan Dagli (dagli)

Catalog Pages Using
this Program
[Systems Engineering](#)

Effective Catalog Edition	FS2026-SP2027
Start Term	Fall 2026
Program Type	Doctor of Philosophy
Academic Level	Graduate
Program Code	SYS EN-PHD
Department	Engineering Mgt & Sys Engr
Discipline	Systems Engineering
Title	

In Workflow

1. **RENGMNGT Chair**
2. **CCC Secretary**
3. **Engineering DSCC Chair**
4. **Pending CCC Agenda post**
5. **CCC Meeting Agenda**
6. Campus Curricula Committee Chair
7. FS Meeting Agenda
8. Faculty Senate Chair
9. Registrar

Approval Path

1. 09/11/25 5:04 pm
Amaury Lendasse (altmg): Approved for RENG MNGT Chair
2. 09/22/25 4:18 pm
Jade McCain (jm558v): Approved for CCC Secretary
3. 09/29/25 11:18 am
Theresa Swift (thswift): Approved for Engineering DSCC Chair
4. 10/06/25 9:16 am
Jade McCain (jm558v): Approved for Pending CCC Agenda post

History

1. Jun 12, 2014 by pantaleoa
2. Mar 13, 2015 by pantaleoa
3. Jun 19, 2015 by Stephen Raper (sraper)
4. Jul 24, 2015 by pantaleoa
5. Apr 19, 2016 by pantaleoa
6. Apr 19, 2016 by pantaleoa
7. Jun 18, 2018 by Sarah Johnson (johsarah)
8. Jun 14, 2019 by Sarah Johnson (johsarah)
9. Apr 19, 2021 by Crystal Wilson (wilsoncry)
10. Jun 14, 2024 by David Enke (enke)

Systems Engineering PhD

CIP Code [14.2701 - Systems Engineering.](#)

Program Requirements and Description

A candidate for the Ph.D. in systems engineering must complete the equivalent of at least three years of full time work beyond the bachelor's degree. The content of all Ph.D. programs are individually structured by the student in consultation with and approved by the student's advisory committee. All requirements for the degree must normally be completed within an eight year period. At appropriate points in their program, Ph.D. students must pass both a Qualifying Exam and Comprehensive Exam. Off-campus students are expected to complete all requirements listed in the Missouri S&T Graduate Catalog under the section entitled Doctor of Philosophy Degree and follow all procedures listed under the Procedures for Ph.D. Candidates.

The total credit requirements for graduation are a minimum of ~~54~~ 45 credit hours after the successful completion

of M.S. degree in systems engineering. Actual courses taken will be determined by the candidate's committee and his/her plan of study. The student is expected to complete all requirements.

Major Requirements

(Direct Doctorate) After B.S. degree in Engineering

Core Curriculum		15
<u>SYS ENG 5101</u>	System Engineering and Analysis	3
<u>SYS ENG 6101</u>	<u>Advanced Research Methodology</u>	<u>3</u>
<u>SYS ENG 6102</u>	<u>Information Based Design</u>	<u>3</u>
<u>SYS ENG 6103</u>	<u>Systems Life Cycle Costing</u>	<u>3</u>
<u>SYS ENG 6104</u>	Systems Architecting	3
SYS ENG 6110	Optimization under Uncertainty	3
SYS ENG 6239	Smart Engineering System Design	3
SYS ENG 6321	Modeling Complex Systems	3
SYS ENG 6412	Mathematical Programming	3
SYS ENG 6542	Model Based Systems Engineering	3
SYS ENG 6543	Digital Engineering	3
Research		36
SYS ENG 6099	Research	1-15
Electives		24
<u>Minimum 15 credit hours of 6XXX courses Maximum 12 credit hours outside the department</u>		
Research Specialization Areas – 24 credit hours		
<u>(Traditional Doctorate)</u>		
<u>Qualifying master's degree</u>		<u>30</u>
<u>SYS ENG 5101</u>	<u>System Engineering and Analysis</u> ¹	<u>3</u>
<u>SYS ENG 6101</u>	<u>Advanced Research Methodology</u> ¹	<u>3</u>
<u>SYS ENG 6102</u>	<u>Information Based Design</u> ¹	<u>3</u>
<u>SYS ENG 6103</u>	<u>Systems Life Cycle Costing</u> ¹	<u>3</u>
<u>SYS ENG 6104</u>	<u>Systems Architecting</u> ¹	<u>3</u>
<u>Research</u>		<u>24</u>

Minimum 15 credit hours of 6XXX courses Maximum 12 credit hours outside the department

1
=

Those students who have completed a master's of science in systems engineering can take 15 credit hours of coursework approved by their advisor instead of these courses.

For Off-Campus Students

The qualifying exam must be taken within the first 5 semesters of enrollment; the student will have at minimum one virtual conference per month with his/her research advisor; the Ph.D. comprehensive exam is recommended to be taken on campus; the student has the option of conducting research that is beneficial to the student's professional work; the defense of dissertation is recommended to take place on campus.

Requirements for Dissertation

Students will conduct original research demonstrated by journal or referred proceedings, publication under the supervision of a doctoral advisor, communicate their findings, write a dissertation on research conducted, and provide satisfactory defense of their dissertation in a final oral examination. Students are required to publish their work in approved journals and referred proceedings. A minimum of three articles is expected.

Requirements for Seminars

All graduate students are required to attend the department seminar series.

Qualifying Exam

The objective of the systems engineering Ph.D. qualifying exam is to test the knowledge and understanding of the graduate student on systems engineering fundamentals and the student's research capability. It is expected that the graduate student has a clear understanding of the research issues in the student's area of interest, as well as the possible impact of successful research contributions to systems engineering research and literature. For more information, contact the department graduate staff.

Comprehensive Exam

The student's advisory committee will administer the comprehensive examination after the student has completed seventy-five percent of the coursework for the Ph.D. program and one published refereed conference proceeding or journal paper. The examination is written and oral. Upon successful completion of the written examination, an additional oral exam might be required by the advisory committee.

Dissertation

The dissertation, embodying the results of an original investigation, must be written upon a subject mutually agreed upon between the student and the advisor.

Research Areas

Research areas include, but are not limited to: Complex Adaptive Systems Architecting, Machine and Deep Learning, Modeling and Simulation, Model-Based ~~Cyber Physical Systems, Modeling and Simulation, Model-Based~~ Systems Engineering and Digital Twins, ~~Engineering~~, System of Systems Architecting, Transdisciplinary Systems Engineering Solutions with AI, Use of LLM in Engineering, Human-AI Teaming, ~~Complex Adaptive Systems, Human System Integration~~, Infrastructure Systems.

Justification for
request

The change provides more flexibility to the students to align courses to take to their research topics . It also provide modulatory to their PhD program.

Attach Budget

System Approval
Letter

MDHE Approval

Supporting
Documents

Reviewer
Comments

Crystal Wilson (wilsoncry) (09/17/25 6:30 pm): Updated credit hours in text per department request.

Crystal Wilson (wilsoncry) (09/18/25 7:04 pm): Added footnote 1 to traditional doctorate list of courses for clarification per department request.

Program Change Request

Date Submitted: 09/09/25 3:41 pm

Viewing: **THEATRE-MI : Theatre Minor**

Last approved: 02/03/21 10:52 am

Last edit: 10/06/25 9:13 am

Changes proposed by: Irina Ivliyeva (ivliyeva)

Catalog Pages Using
this Program
[Theatre](#)

Effective Catalog Edition	FS2026-SP2027
Start Term	Fall 2026
Program Type	Minor
Academic Level	Undergraduate
Program Code	THEATRE-MI
Department	Arts, Languages & Philosophy
Discipline	Theatre
Title	

In Workflow

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

Approval Path

1. 09/09/25 3:43 pm
Irina Ivliyeva (ivliyeva): Approved for RPHILOSO Chair
2. 09/11/25 8:56 am
Jade McCain (jm558v): Approved for CCC Secretary
3. 09/25/25 7:28 pm
Alejandra Sobrado (asgx4): Approved for Arts & Humanities DSCC Chair
4. 10/06/25 9:16 am
Jade McCain (jm558v): Approved for Pending CCC Agenda post

History

1. Feb 3, 2021 by
Courtney Mischke
(karmannc)

Theatre Minor

CIP Code

Program Requirements and Description

Theatre Minor Curriculum

A minor in Theatre requires a minimum of 15 hours comprised of the following courses:

Required Courses (6 credits):

<u>THEATRE 1150</u>	Theatre for Social Change	3
<u>THEATRE 2143</u>	Stagecraft	3

In addition to the courses listed above, students are required to choose 3 of the courses below (9 credits):

<u>THEATRE 2141</u>	Acting I	3
<u>THEATRE 2200</u>	<u>History of Entertainment Design</u>	<u>3</u>
<u>THEATRE 2400</u>	<u>Principles of Stage Management</u>	<u>3</u>
<u>THEATRE 3241</u>	Acting II	3
<u>THEATRE 3243</u>	Entertainment Design	3
<u>THEATRE 4243</u>	<u>Entertainment Design II</u>	<u>3</u>
<u>THEATRE 4341</u>	Directing	3

Justification for
request

Expanding curricular offerings at both lower and upper levels, to accommodate student interest and program demands.

Attach Budget

System Approval

Letter

MDHE Approval

Supporting
Documents

Reviewer
Comments

Experimental Change Request

New Proposal

Date Submitted: 09/12/25 4:06 pm

Viewing: **BIO SCI 6001.024: Systems Biology**

Last edit: 10/02/25 2:51 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

024

Experimental Title

Systems Biology

Experimental Abbreviated Course Title

Systems Biology

Co-Listed Course

Instructors

Andrea Scharf

Experimental Catalog Description

Life is built on networks of genes, proteins, cells, and organisms that interact to produce complex biological systems. Students will explore topics ranging from gene regulation and synthetic biology to microbial communities and population dynamics, integrating experimental findings with quantitative computational models to highlight the interdisciplinary approaches of systems biology.

Prerequisite(s)

Corequisite(s)

Field Trip Statement

Credit Hours

- 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. 09/12/25 5:54 pm
Gina Yosten (gyxmr): Approved for RBIOLSCI Chair

2. 09/15/25 1:27 pm
Jade McCain (jm558v): Approved for CCC Secretary

3. 10/01/25 4:32 pm
Katie Shannon (shannonk): Approved for Sciences DSCC Chair

4. 10/06/25 9:17 am
Jade McCain (jm558v): Approved for Pending CCC Agenda post

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 6000 level courses for PhD program
Reviewer	Jade McCain (jm558v) (09/15/25 1:26 pm): Added grading basis.
Comments	Jade McCain (jm558v) (10/02/25 2:51 pm): Added Topic ID.

Experimental Change Request

New Proposal

Date Submitted: 09/29/25 5:23 pm

Viewing: **ELEC ENG 2001.004: Emerging Technologies in Semiconductors**

Last edit: 10/03/25 2:29 pm

Changes proposed by: Kelvin Erickson (kte)

Requested Effective Date	Spring 2026
Department	Electrical & Computer Engr (RELECENG)
Discipline	Electrical Engineering (ELEC ENG)
Course Number	2001
Topic ID	004
Experimental Title	Emerging Technologies in Semiconductors
Experimental Abbreviated Course Title	Emerging SemiTech
Co-Listed Course	
Instructors	Zhao, Feng
Experimental Catalog Description	Explore the forefront of innovation in Emerging Technologies in Semiconductors. This interdisciplinary course introduces students to cutting-edge advances in semiconductor materials, chip fabrication, and computing paradigms that are shaping the future of electronics. Topics include 2D materials, quantum and neuromorphic devices, chiplet architectures, and sustainable manufacturing. Students will examine applications in AI, IoT, automotive, biomedical, and space technologies. Through lectures and guest speakers from industry, students will gain a comprehensive understanding of the semiconductor ecosystem and its global impact. Ideal for students from engineering, physics, computer science, and related fields.
Prerequisite(s)	
Corequisite(s)	
Field Trip Statement	

In Workflow

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

Approval Path

- 1. 09/30/25 11:18 am
Jonathan Kimball (kimballjw): Approved for RELECENG Chair
- 2. 10/01/25 8:35 am
Jade McCain (jm558v): Approved for CCC Secretary
- 3. 10/03/25 1:57 pm
Theresa Swift (thswift): Approved for Engineering DSCC Chair
- 4. 10/06/25 9:17 am
Jade McCain (jm558v): Approved for Pending CCC Agenda post

Credit Hours

Credit Type	Credit Hours
Recitation/Seminar/Discussion	2.0

Total: 2.0

Required for Majors No

Elective for Majors Yes

Grading Basis Graded

Repeatable No

Justification for experimental course: The semiconductor industry is undergoing a transformative shift driven by innovations in materials, fabrication techniques, and computing paradigms. As global demand for advanced electronics accelerates - especially in AI, IoT, autonomous systems, and biomedical devices - there is a critical need for engineers and scientists who understand emerging technologies shaping the future of semiconductors. This course fills a vital educational gap by equipping students with interdisciplinary knowledge and supporting workforce development, aligns with national priorities in semiconductors, and prepares students for careers in high-impact sectors. The course also complements existing curricula in semiconductor engineering, electrical engineering, materials science, and chemical engineering.

Reviewer **Jade McCain (jm558v) (10/01/25 8:34 am):** Corrected formatting and added grading basis.
Comments **Jade McCain (jm558v) (10/03/25 2:29 pm):** Added Topic ID.

Experimental Change Request

New Proposal

Date Submitted: 09/02/25 3:04 pm

Viewing: **ENG MGT 5001.003: Innovation Ecosystems**

Last edit: 09/29/25 3:40 pm

Changes proposed by: Venkata Allada (allada)

Requested Effective Date	Spring 2026
Department	Engineering Mgt & Sys Engr (RENGMNGT)
Discipline	Engineering Management (ENG MGT)
Course Number	5001
Topic ID	003
Experimental Title	Innovation Ecosystems
Experimental Abbreviated Course Title	Innov Ecosys
Co-Listed Course	
Instructors	Dr. Venkat Allada
Experimental Catalog Description	This course explores how innovation ecosystems form, evolve, and create value across industries, regions, and institutions. Students will examine the roles of universities, startups, corporations, governments, venture capitalists, and communities in shaping collaborative environments that foster innovation. Through case studies, current readings, and hands-on projects, students will apply theory to practice—learning tech transfer basics, benchmarking regional hubs, managing internal and open innovation, and auditing innovation districts. Topics include the triple helix model, regional innovation engines, funding, inclusive governance, and intrapreneurship, and ecosystem key performance indicators (KPIs.)
Prerequisite(s)	Graduate standing or senior undergraduate.
Corequisite(s)	
Field Trip Statement	Working on the possibility of having field trips to 1-2 innovation ecosystems in St. Louis and/or Kansas City regions.
Credit Hours	

In Workflow

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

Approval Path

- 1. 09/11/25 5:04 pm
Amaury Lendasse (altmg): Approved for RENGMNGT Chair
- 2. 09/12/25 11:56 am
Jade McCain (jm558v): Approved for CCC Secretary
- 3. 09/29/25 11:18 am
Theresa Swift (thswift): Approved for Engineering DSCC Chair
- 4. 10/06/25 9:17 am
Jade McCain (jm558v): Approved for Pending CCC Agenda post

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:	Innovation does not happen in isolation. It thrives in symbiotic ecosystems. This course equips students with the skills to map, design, and lead innovation ecosystems that connect people, ideas, activities, and resources to drive growth and global impact. “Learn to connect people, ideas, activities, and resources to spark innovation.”
Reviewer Comments	Jade McCain (jm558v) (09/12/25 11:56 am): Added grading basis, corrected grammar, and added punctuation. Jade McCain (jm558v) (09/29/25 3:40 pm): Added Topic ID.

Experimental Change Request

New Proposal

Date Submitted: 09/24/25 8:29 am

Viewing: **ENGLISH 3001.054: AI in Popular Culture**

Last edit: 09/29/25 10:10 am

Changes proposed by: Daniel Reardon (reardond)

Requested Effective Date	Fall 2026
Department	English & Tech Communication (REGLISH)
Discipline	English (ENGLISH)
Course Number	3001
Topic ID	054
Experimental Title	AI in Popular Culture
Experimental Abbreviated Course Title	AI Pop Culture
Co-Listed Course	
Instructors	Daniel Reardon
Experimental Catalog Description	This course explores how artificial intelligence is imagined, represented, and critiqued across contemporary popular media, including film, television, video games, literature, and digital platforms. Students will analyze evolving portrayals of AI as creators, threats, tools, and companions, and consider how these narratives reflect cultural hopes, fears, and ethical dilemmas. Emphasis will be placed on storytelling, genre conventions, and the interplay between emerging technologies and human identity.
Prerequisite(s)	English 1120 or its equivalent.
Corequisite(s)	

Field Trip Statement

Credit Hours

Credit Type	Credit Hours
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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. CAT entry
8. Registrar

Approval Path

1. 09/24/25 9:26 am
Kathryn Dolan (dolankc): Approved for REGLISH Chair
2. 09/25/25 8:57 am
Jade McCain (jm558v): Approved for CCC Secretary
3. 09/25/25 7:30 pm
Alejandra Sobrado (asgx4): Approved for Arts & Humanities DSCC Chair
4. 10/06/25 9:17 am
Jade McCain (jm558v): Approved for Pending CCC Agenda post

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: As artificial intelligence becomes increasingly integrated into daily life—from generative tools like ChatGPT and DALL-E to autonomous vehicles and algorithmic decision-making—students need critical frameworks for understanding how these technologies are represented, mythologized, and interrogated in popular media. AI in Popular Culture addresses this need by examining how stories about artificial intelligence reflect cultural anxieties, ethical debates, and shifting definitions of humanity.

This course directly supports the department’s strategic emphasis on technology-forward humanities offerings. It also aligns with Missouri S&T’s institutional mission by providing humanities-based perspectives on emerging technologies, thus appealing to both ETC majors and STEM students seeking electives that connect technical innovation with cultural analysis. With wide relevance across media studies, digital rhetoric, science fiction, and narrative theory, this course will help equip students with the analytical tools to navigate and critique the rapidly evolving AI landscape.

Reviewer **Jade McCain (jm558v) (09/25/25 8:57 am):** Added grading basis and punctuation.

Comments **Jade McCain (jm558v) (09/29/25 10:10 am):** Added Topic ID.

Experimental Change Request

New Proposal

Date Submitted: 09/02/25 9:07 am

Viewing: **ENV SCI 2001.001: Mammalian Ecology**

Last edit: 10/02/25 2:54 pm

Changes proposed by: Robin Verble (verbler)

Requested Effective Date	Summer 2026
Department	Biological Sciences (RBIOLSCI)
Discipline	Environmental Sciences (ENV SCI)
Course Number	2001
Topic ID	001
Experimental Title	Mammalian Ecology
Experimental Abbreviated Course Title	Mammal Ecology
Co-Listed Course	BIO SCI 2001.TBD-1 - Course BIO SCI 2001.TBD-1 not Found
Instructors	TBD
Experimental Catalog Description	This course will explore the taxonomy, ecology and adaptations of the major mammalian orders. A survey of local mammals and explorations of the field techniques used to study mammal ecology will be integrated. Field trips will be conducted at a new field station. There is no cost for these trips.
Prerequisite(s)	Env Sci 1173 or Bio Sci 1223.
Corequisite(s)	
Field Trip Statement	This course will be taught at the Ozark Research Field Station. Field trips to S&T's field station in Phelps County will be required. There is no cost for these trips. Given the timing of course offering (one week intensive class at the end of May/beginning of June), there will be no conflict between this class and its field trips and other S&T classes.
Credit Hours	

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. 09/02/25 11:12 am
Gina Yosten (gyxmr): Approved for RBIOLSCI Chair
2. 09/11/25 9:02 am
Jade McCain (jm558v): Approved for CCC Secretary
3. 10/01/25 4:32 pm
Katie Shannon (shannonk): Approved for Sciences DSCC Chair
4. 10/06/25 9:17 am
Jade McCain (jm558v): Approved for Pending CCC Agenda post

Credit Type

Credit Hours

Credit Type	Credit Hours
Lecture	2

Total: 2

Required for Majors No

Elective for Majors Yes

Grading Basis Graded

Repeatable No

Justification for experimental course: This new class will fill a need for students interested in wildlife ecology, management, and conservation and diversifies offerings for Env Sci majors.

Reviewer **Jade McCain (jm558v) (09/11/25 8:10 am):** Corrected co-listed course format, added grading basis, added punctuation, and corrected grammar in description.

Comments **Jade McCain (jm558v) (10/02/25 2:54 pm):** Added Topic ID.

Experimental Change Request

New Proposal

Date Submitted: 09/16/25 8:30 am

Viewing: **MATH 5001.010: Mathematical Foundations of Deep Learning**

Last edit: 10/02/25 2:59 pm

Changes proposed by: Jeffrey Humpherys (jh339)

Requested Effective Date

Spring 2026

Department

Mathematics & Statistics (RMATHEMA)

Discipline

Mathematics (MATH)

Course Number

5001

Topic ID

010

Experimental Title

Mathematical Foundations of Deep Learning

Experimental Abbreviated Course Title

MathDeepLearn

Co-Listed Course

Instructors

Jeffrey Humpherys

Experimental Catalog Description

This course is a rigorous introduction to the mathematical foundations of deep learning and a survey of the architectures that are driving the field. Topics include: stochastic gradient descent, regularization, dense, convolutional, and recurrent neural networks and specialty architectures such as attention models, adversarial networks, and reinforcement learning.

Prerequisite(s)

Math 2222, Math 3108, and proficiency in the Python programming language.

Corequisite(s)

Field Trip Statement

Credit Hours

In Workflow

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

Approval Path

- 1. 09/18/25 4:47 pm
John Singler (singlerj): Approved for RMATHEMA Chair
- 2. 09/23/25 12:14 pm
Jade McCain (jm558v): Approved for CCC Secretary
- 3. 10/01/25 4:32 pm
Katie Shannon (shannonk): Approved for Sciences DSCC Chair
- 4. 10/06/25 9:17 am
Jade McCain (jm558v): Approved for Pending CCC Agenda post

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 is the fastest moving field in history. It's important to stay on top of the field and provide students with opportunities to stay on top. The topics of this experimental course reflect current interests of our faculty and graduate students. In addition, the course topics align with our department's current data science focus.
Reviewer Comments	Jade McCain (jm558v) (09/23/25 12:14 pm): Added grading basis and corrected prerequisite formatting. Jade McCain (jm558v) (10/02/25 2:59 pm): Added Topic ID.

Experimental Change Request

New Proposal

Date Submitted: 09/18/25 1:19 pm

Viewing: **MECH ENG 3001.005: Biomechanics**

Last edit: 10/03/25 2:32 pm

Changes proposed by: Nishant Kumar (nkwtb)

Requested Effective Date	Spring 2026
Department	Mechanical & Aerospace Engineering (RMECHENG)
Discipline	Mechanical Engineering (MECH ENG)
Course Number	3001
Topic ID	005
Experimental Title	Biomechanics
Experimental Abbreviated Course Title	Biomech
Co-Listed Course	
Instructors	Dr. Fateme Fayyazbakhsh
Experimental Catalog Description	Biomechanics is the analysis of kinematic and kinetic analysis of human motion to enhance performance, rehabilitate injuries, understand disease, and reduce injury risk. This course will explore mechanical properties of hard tissues (e.g., bone and tooth), hard tissue/soft tissue interface (e.g., tendon, ligament, and heart valve), soft tissue (muscle, skin, gastrointestinal tissue, nerve, blood vessel, and heart), fluidic tissue (e.g., blood and lymph), as well as biological materials (e.g., implants, food, and wearable gadgets).
Prerequisite(s)	Mech Eng 3131 and Mech Eng 3313.
Corequisite(s)	
Field Trip Statement	
Credit Hours	

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. 09/24/25 7:13 am
David Bayless (djbkqf): Approved for RMECHENG Chair
- 2. 09/24/25 8:29 am
Jade McCain (jm558v): Approved for CCC Secretary
- 3. 10/02/25 12:06 pm
Theresa Swift (thswift): Approved for Engineering DSCC Chair
- 4. 10/06/25 9:17 am
Jade McCain (jm558v): Approved for Pending CCC Agenda post

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:	This will be an excellent elective course for ME undergraduates to see how principles of statics, dynamics, machine dynamics and fluid mechanics is applied to a human body.
Reviewer	Jade McCain (jm558v) (09/24/25 8:27 am): Corrected formatting and added grading basis.
Comments	Jade McCain (jm558v) (10/03/25 2:32 pm): Added Topic ID.

Experimental Change Request

New Proposal

Date Submitted: 08/22/25 1:15 pm

Viewing: **PET ENG 5001.014: Professional Development non-thesis Grad Students**

Last edit: 09/16/25 11:28 am

Changes proposed by: Andreas Eckert (eckertan)

Requested Effective Date	Fall 2026
Department	Earth Sciences and Engineering (RGEOSNG)
Discipline	Petroleum Engineering (PET ENG)
Course Number	5001
Topic ID	014
Experimental Title	Professional Development non-thesis Grad Students
Experimental Abbreviated Course Title	Prof Dev non Thesis
Co-Listed Course	
Instructors	Andreas Eckert
Experimental Catalog Description	This course covers all necessary core competencies for a non-thesis based M.Sc. student to be successful in graduate school and transition into the post-graduate workforce. Course modules include career planning with a focus on the non-academic job world, writing & communication skills, research & data analysis, leadership & service. Students will receive hands-on experiences including career planning as a non-thesis graduate student, setting career goals and expectations, resume/CV preparation, interview practice, assessing and developing professional skills that translate to the job world, professional personality assessment, and oral and written communication training.
Prerequisite(s)	Graduate standing (non-thesis option).
Corequisite(s)	
Field Trip Statement	
Credit Hours	

In Workflow

- 1. RGEOSNG 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. 08/22/25 1:40 pm
Stephen Gao (sgao): Approved for RGEOSNG Chair
- 2. 08/27/25 11:42 am
Jade McCain (jm558v): Approved for CCC Secretary
- 3. 09/12/25 12:19 pm
Theresa Swift (thswift): Approved for Engineering DSCC Chair
- 4. 10/06/25 9:17 am
Jade McCain (jm558v): Approved for Pending CCC Agenda post

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:	Non-thesis based graduate students need a thorough understanding of the requirements and expectations with respect to professional skills that translate to a successful graduate and post graduate career. This course will particularly focus on the transition to the non-academic job world, and provide hands-on, practical experiences for a variety of professional skills required in the modern job world.
Reviewer Comments	Jade McCain (jm558v) (08/27/25 11:42 am): Added grading basis and punctuation. Jade McCain (jm558v) (09/15/25 1:31 pm): Added Topic ID. Jade McCain (jm558v) (09/16/25 11:28 am): Corrected the abbreviated course title per department request.

Experimental Change Request

New Proposal

Date Submitted: 08/22/25 1:13 pm

Viewing: **PET ENG 6001.017: Professional Development
Grad Students with Thesis**

Last edit: 10/06/25 10:36 am

Changes proposed by: Andreas Eckert (eckertan)

Requested Effective Date	Spring 2026
Department	Earth Sciences and Engineering (RGEOENG)
Discipline	Petroleum Engineering (PET ENG)
Course Number	6001
Topic ID	017
Experimental Title	Professional Development Grad Students with Thesis
Experimental Abbreviated Course Title	Prof Dev Thesis
Co-Listed Course	
Instructors	Andreas Eckert
Experimental Catalog Description	This course covers all necessary core competencies for a thesis based MS or PhD graduate student to be successful in graduate school and transition into the post-graduate workforce. Course modules include career planning (academic and non-academic), writing & communication skills, research & data analysis, leadership & service, and teaching & mentoring. Students will receive hands-on experiences including setting career goals and expectations, establishing a successful student-advisor relationship, resume/CV preparation, best research practices and data analysis skills, professional skills and personality assessment, and oral and written communication training.
Prerequisite(s)	Graduate standing (thesis option).
Corequisite(s)	
Field Trip Statement	
Credit Hours	

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. CAT entry
- 8. Registrar

Approval Path

- 1. 08/22/25 1:40 pm
Stephen Gao (sgao):
Approved for RGEOENG Chair
- 2. 08/27/25 11:45 am
Jade McCain (jm558v): Approved for CCC Secretary
- 3. 09/12/25 12:20 pm
Theresa Swift (thswift): Approved for Engineering DSCC Chair
- 4. 10/06/25 9:17 am
Jade McCain (jm558v): Approved for Pending CCC Agenda post

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:	Thesis based graduate students need a thorough understanding of the requirements and expectations with respect to professional skills that translate to a successful graduate and post graduate career. This course will provide hands-on, practical experiences for a variety of professional skills required in the modern job world.
Reviewer	Jade McCain (jm558v) (08/27/25 11:44 am): Added grading basis and punctuation.
Comments	Jade McCain (jm558v) (09/15/25 1:34 pm): Added Topic ID. Jade McCain (jm558v) (09/16/25 11:28 am): Corrected the abbreviated course title per department request. Crystal Wilson (wilsoncry) (10/06/25 10:36 am): Spelt out word with in the title.

Experimental Change Request

New Proposal

Date Submitted: 09/18/25 5:09 pm

Viewing: **STAT 5001.010: Topics in Data Science**

Last edit: 10/06/25 10:27 am

Changes proposed by: John Singler (singlerj)

Requested Effective Date

Spring 2026

Department

Mathematics & Statistics (RMATHEMA)

Discipline

Statistics (STAT)

Course Number

5001

Topic ID

010

Experimental Title

Topics in Data Science

Experimental Title

Topics in Data Science

Abbreviated Course Title

Co-Listed Course

Instructors

Chakraborty

Experimental Catalog Description

Concentration inequalities and their relationships with norms are studied. Topics from uncertainty quantification are studied, including (but not limited to): resampling methods, conformal predictions, and robust inference techniques under model misspecifications. We also discuss the framework of reproducing kernel Hilbert spaces and its applications to certain machine learning problems. Finally, we survey estimation and regularization methods for high-dimensional data.

Prerequisite(s)

Math 3108, Stat 3115 or Stat 3117 or Stat 5643.

Corequisite(s)

Field Trip Statement

Credit Hours

- In Workflow
1. RMATHEMA Chair

2. CCC Secretary

3. Sciences DSCC Chair

4. Pending CCC Agenda post

5. CCC Meeting Agenda

6. Campus Curricula Committee Chair

7. CAT entry

8. Registrar

- Approval Path
1. 09/18/25 5:09 pm
John Singler (singlerj): Approved for RMATHEMA Chair

2. 09/19/25 2:36 pm
Jade McCain (jm558v): Approved for CCC Secretary

3. 10/01/25 4:32 pm
Katie Shannon (shannonk): Approved for Sciences DSCC Chair

4. 10/06/25 9:17 am
Jade McCain (jm558v): Approved for Pending CCC Agenda post

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 topics of this experimental course reflect current interests of our faculty and graduate students. In addition, the course topics align with our department's current data science focus.
Reviewer	Jade McCain (jm558v) (09/19/25 2:36 pm): Added grading basis and punctuation.
Comments	Jade McCain (jm558v) (10/02/25 3:02 pm): Added Topic ID. Crystal Wilson (wilsoncry) (10/06/25 10:27 am): Corrected typo.