

Campus Curricula Committee Meeting Agenda

January 13th, 2026

8:15am - 9:30am, Fulton Hall 120

(For Faculty Senate Meeting of February 12th, 2026)

Review of submitted Course Change forms:

File: 216	BIO SCI 1201 : Biological Sciences First Year Seminar
File: 964	BIO SCI 2213 : Cell Biology
File: 10362	BIO SCI 4020 : Senior Service Project
File: 5637	BIO SCI 6202 : Problems In Applied And Environmental Biology
File: 5728	CER ENG 6310 : Sintering And Microstructure Development
File: 1074	CIV ENG 2200 : Statics
File: 1451	CIV ENG 2601 : Fundamentals of Environmental Engineering and Science
File: 110	COMP SCI 1200 : Discrete Mathematics for Computer Science
File: 4038	COMP SCI 1972 : Introduction to MATLAB Programming
File: 2507	COMP SCI 2500 : Algorithms
File: 2097	COMP SCI 3200 : Introduction To Numerical Methods
File: 10229	ECON 6030 : Contemporary Issues in Energy Economics
File: 10358	GEOLOGY 2917 : Climate Change and Society
File: 116	MATH 1214 : Calculus I
File: 1695	MATH 1215 : Calculus II
File: 340	MATH 2222 : Calculus III
File: 2255	MATH 5737 : Financial Mathematics
File: 8928	MET ENG 1017 : Introduction To Metallurgical Engineering
File: 8929	MET ENG 1027 : Computer Application In Metallurgical Engineering
File: 8964	MET ENG 5110 : High Temperature And Corrosion Resistant Alloys
File: 8965	MET ENG 5160 : Mechanical Metallurgy
File: 8967	MET ENG 5171 : Nuclear Materials II
File: 8973	MET ENG 5460 : Metal Coating Processes
File: 8975	MET ENG 5515 : Nondestructive Testing Laboratory
File: 9075	MS&E 5517 : Materials Selection in Mechanical Design
File: 9085	MS&E 6230 : Nanomaterials

Review of submitted Program Change forms:

File: 147	BIO SC-BS : Biological Sciences BS
File: 177	CRTVWR-MI : Creative Writing Minor
File: 401	ES&P-CTU : Environmental Policy and Sustainability CTU
File: 355	GEO ENG-PHD : Geological Engineering PhD
File: 170	NU ENG-MS : Nuclear Engineering MS
File: 211	NU ENG-PHD : Nuclear Engineering PhD
File: 429	PROPOSED : Creative Writing CTU

File: 192 PSYCH-BA : Psychological Science BA

File: 193 PSYCH-BS : Psychological Science BS

Review of submitted Experimental Course forms:

File: 547 BUS 5001.016: Services Marketing and Innovation

File: 548 COMP ENG 5001.007: Explainable Machine Learning (XAI)

File: 518 COMP SCI 5001.080: Internet Security

File: 549 GEO ENG 2001.005: Hacking Planet Earth

File: 550 HISTORY 3001.022: The Cold War - A Global History

New Business:

N/A

Course Change Request

Date Submitted: 12/10/25 3:33 pm

Viewing: **BIO SCI 1201 : Biological Sciences** **First**
Year ~~**Freshman**~~ **Seminar**

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

Last edit: 12/19/25 1:36 pm

Changes proposed by: Katie Shannon (shannonk)

Programs

referencing this

course

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

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

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

Other Courses

referencing this

course

[In The Catalog Prerequisites:](#)

[BIO SCI 2242 : Cave Biology](#)

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

Requested Effective Fall 2026

Date

Department Biological Sciences (RBIOLSCI)

Discipline Biological Sciences (BIO SCI)

Course Number 1201

Title

Biological Sciences **First Year** ~~**Freshman**~~ Seminar

Abbreviated Course Bio Sci **First Year** ~~**Freshman**~~ Seminar

Title

Co-Listed Course

Catalog Description

Approval Path

1. 12/10/25 4:07 pm
Gina Yosten
(gyxmr): Approved
for RBIOLSCI Chair
2. 12/15/25 3:57 pm
Jade McCain
(jm558v): Approved
for CCC Secretary
3. 12/19/25 1:36 pm
Katie Shannon
(shannonk):
Approved for
Sciences DSCC Chair
4. 12/19/25 3:36 pm
Jade McCain
(jm558v): Approved
for Pending CCC
Agenda post

History

1. Mar 6, 2017 by
Katie Shannon
(shannonk)

An introduction to the departmant ~~study~~ of Biological Sciences and student resources ~~biology~~ at Missouri S&T. Students will consider personal and professional opportunities within the various areas of biology and become acquainted with Biological Sciences faculty and departmental and campus facilities. Required of first year ~~freshman~~ Biological Sciences majors.

Prerequisite(s):

Biological Sciences majors only.

Corequisite(s):

Credit Hours

Credit Hours

Credit Type	Credit Hours
Recitation/Seminar/Discussion	1

Total: 1

Required for Majors Yes

Elective for Majors No

Communication No
Intensive

Communication No
Emphasized

Grading Basis Graded

Repeatable No

Justification

Want to replace Freshman with more inclusive First Year

Semesters Previously Offered

Term(s) Offered as
experimental

Is this a MOTR
Course?

Reviewer

Comments

Jade McCain (jm558v) (12/15/25 3:57 pm): Selected "no" for communication intensive and communication emphasized.

Course Change Request

Date Submitted: 12/10/25 3:35 pm

Viewing: **BIO SCI 2213 : Cell Biology**

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

Last edit: 12/15/25 3:58 pm

Changes proposed by: Katie Shannon (shannonk)

Programs

referencing this
course

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

[BIOINFO-MI: Bioinformatics Minor](#)

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

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

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

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

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

[CHEM-BS: Chemistry BS](#)

[BIOMED-MI: Biomedical Engineering Minor](#)

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

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

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

Other Courses

referencing this
course

In The Catalog Prerequisites:

[BIO SCI 2219 : Cell Biology Laboratory](#)

[BIO SCI 3313 : Microbiology](#)

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

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

[BIO SCI 4323 : Molecular Biology](#)

[BIO SCI 4353 : Cancer Cell Biology](#)

[BIO SCI 4373 : Stem Cell Biology](#)

[BIO SCI 4383 : Toxicology](#)

In Workflow

1. RBIO LSCI 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

[BIO SCI 4423 : Introduction to Astrobiology](#)
[BIO SCI 4533 : Neurobiology](#)
[BIO SCI 4666 : Nanobiotechnology](#)
[BIO SCI 5343 : Biology of Aging](#)
[BIO SCI 5353 : Developmental Biology](#)
[BIO SCI 5493 : General Virology](#)
[BIO SCI 5533 : Pharmacology](#)
[BIO SCI 6353 : Advanced Cancer Cell Biology](#)
[BIO SCI 6383 : Advanced Toxicology](#)
[BIO SCI 6523 : Advanced Biomolecules](#)
[BIO SCI 6666 : Advanced Nanotechnology in Biomedicine](#)
[BME 5100 : Drug and Gene Delivery Systems](#)
[In The Catalog Description:](#)
[BIO SCI 2219 : Cell Biology Laboratory](#)

Approval Path

1. 12/10/25 4:07 pm
Gina Yosten
(gyxmr): Approved
for RBIOLSCI Chair
2. 12/15/25 3:59 pm
Jade McCain
(jm558v): Approved
for CCC Secretary
3. 12/19/25 1:37 pm
Katie Shannon
(shannonk):
Approved for
Sciences DSCC Chair
4. 12/19/25 3:37 pm
Jade McCain
(jm558v): Approved
for Pending CCC
Agenda post

Requested Effective Date	Fall 2026
Department	Biological Sciences (RBIOLSCI)
Discipline	Biological Sciences (BIO SCI)
Course Number	2213
Title	Cell Biology
Abbreviated Course Title	Cell Biology
Co-Listed Course	

History

1. Jul 7, 2014 by Lahne Black (lahne)

Catalog Description

The structure and function of eukaryotic and prokaryotic cells. Emphasis on macromolecules, organelles, metabolic pathways, bioenergetics, cell signaling, the cell cycle, and gene expression.

Prerequisite(s):

Preceded ~~or accompanied~~ by Chem ~~CHEM~~ 1320.

Corequisite(s):

Credit Hours

Credit Hours

Credit Type	Credit Hours
Lecture	3

Total: 3

Required for Majors Yes ~~No~~

Elective for Majors No

Communication No
Intensive

Communication Yes
Emphasized

Grading Basis Graded

Repeatable No

Justification

Changing the prerequisite so that students must complete CHEM 1320 before this course and cannot take them at the same time

Semesters Previously Offered

Term(s) Offered as
experimental

Is this a MOTR
Course?

Reviewer

Comments

Jade McCain (jm558v) (12/15/25 3:58 pm): Selected "no" for communication intensive and "yes" communication emphasized and corrected prerequisite formatting.

Course Change Request

New Course Proposal

Date Submitted: 12/10/25 3:32 pm

Viewing: **BIO SCI 4020 : Senior Service Project**

Last edit: 12/15/25 3:52 pm

Changes proposed by: Katie Shannon (shannonk)

Programs
referencing this
course

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

Requested Effective Date	Fall 2026
Department	Biological Sciences (RBIOLSCI)
Discipline	Biological Sciences (BIO SCI)
Course Number	4020
Title	Senior Service Project
Abbreviated Course Title	Senior Service Project
Co-Listed Course	

Catalog Description

In Workflow

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

Approval Path

1. 12/10/25 4:07 pm
Gina Yosten
(gyxmr): Approved
for RBIOLSCI Chair
2. 12/15/25 3:53 pm
Jade McCain
(jm558v): Approved
for CCC Secretary
3. 12/19/25 1:37 pm
Katie Shannon
(shannonk):
Approved for
Sciences DSCC Chair
4. 12/19/25 3:37 pm
Jade McCain
(jm558v): Approved
for Pending CCC
Agenda post

Students will work in groups to propose, research, develop, and complete service learning projects that are related to the biological sciences. Students will present the results of their community service projects with written reports and oral presentations. Students will reflect on their project, their role in the project, and the impact of their actions.

Prerequisite(s):

Corequisite(s):

Credit Hours

Credit Hours

Credit Type	Credit Hours
Recitation/Seminar/Discussion	1

Total: 1

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

Justification

This is our Senior Capstone course. We want to change the name to reflect the nature of the course, but are limited to what changes can be made to the 4010 course.

Semesters Previously Offered

Term(s) Offered as
experimental

Previous Course
Code

Is this a MOTR
Course?

Reviewer

Comments

Jade McCain (jm558v) (12/15/25 3:52 pm): Selected "no" for elective for majors and communication intensive, and added grading basis.

Key: 10362

[Preview Bridge](#)

Course Change Request

Date Submitted: 12/05/25 3:21 pm

Viewing: **BIO SCI 6202 : Problems In Applied And Environmental Biology**

Last edit: 12/15/25 4:00 pm

Changes proposed by: Katie Shannon (shannonk)

Programs
referencing this
course

- [A&E BIO-MS: Biological Science MS](#)
- [BIO SC-PHD: Biological Sciences PhD](#)

Requested Effective Date	Fall 2026
Department	Biological Sciences (RBIOLSCI)
Discipline	Biological Sciences (BIO SCI)
Course Number	6202
Title	Problems In Applied And Environmental Biology
Abbreviated Course Title	Prob In Appl & Envir Bio
Co-Listed Course	

Catalog Description

In Workflow

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

Approval Path

1. 12/10/25 4:07 pm
Gina Yosten
(gyxmr): Approved
for RBIOLSCI Chair
2. 12/15/25 4:01 pm
Jade McCain
(jm558v): Approved
for CCC Secretary
3. 12/19/25 1:38 pm
Katie Shannon
(shannonk):
Approved for
Sciences DSCC Chair
4. 12/19/25 3:37 pm
Jade McCain
(jm558v): Approved
for Pending CCC
Agenda post

Overview of major areas of research in applied biology and environmental science with a focus on interdisciplinary approaches used on S&T campus in ongoing research.

Prerequisite(s):

Acceptance to Graduate Program.

Corequisite(s):

Credit Hours

Credit Hours

Credit Type	Credit Hours
Lecture	<u>3</u> 0

Total: 3 ~~0~~

Required for Majors No

Elective for Majors No

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

Justification

Having this course with variable hours caused confusion and problems for our graduate students to get to 6 hours at the 6000 level. Faculty voted to change the course to 3 hours.

Semesters Previously Offered

Term(s) Offered as
experimental

Is this a MOTR
Course?

Reviewer

Comments

Jade McCain (jm558v) (12/15/25 4:00 pm): Selected "no" for communication intensive, communication emphasized, and elective for majors.

Key: 5637

[Preview Bridge](#)

Course Change Request

A deleted record cannot be edited

Course Inactivation Proposal

Date Submitted: 12/05/25 2:05 pm

Viewing: CER ENG 6310 : Sintering And Microstructure Development

Last edit: 12/05/25 2:05 pm

Changes proposed by: David Lipke (lipked)

Justification for this
inactivation request

In Workflow

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

Approval Path

1. 12/05/25 4:35 pm
Michael Moats
(moatsm):
Approved for
RMATSENG Chair
2. 12/08/25 9:25 am
Jade McCain
(jm558v): Approved
for CCC Secretary
3. 12/12/25 11:29 am
Theresa Swift
(thswift): Approved
for Engineering
DSCC Chair
4. 12/19/25 3:37 pm
Jade McCain

(jm558v): Approved
for Pending CCC
Agenda post

Course has not been offered in 10+ years with no plans to offer again.

Requested Effective Date Fall 2026

Department Materials Science & Engineering (RMATSENG)

Discipline Ceramic Engineering (CER ENG)

Course Number 6310

Title Sintering And Microstructure Development

Abbreviated Course Title Sintring&Micro Devlpment

Co-Listed Course

Catalog Description

Theory and practice of densification, microstructure evolution, effect of processing and material factors, grain boundary migration, grain growth.

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

Communication

Intensive

Communication
Emphasized

Grading Basis Graded

Repeatable No

Justification

Semesters Previously Offered

Term(s) Offered as
experimental

Previous Course
Code

Is this a MOTR
Course?

Reviewer
Comments

Key: 5728

[Preview Bridge](#)

Course Change Request

Date Submitted: 10/27/25 9:28 am

Viewing: **CIV ENG 2200 : Statics**

Last approved: 05/25/16 4:03 am

Last edit: 10/27/25 9:28 am

Changes proposed by: Crystal Wilson (wilsoncry)

Programs
referencing this
course

[NU ENG-BS: Nuclear Engineering BS](#)
[PE ENG-BS: Petroleum Engineering BS](#)
[AE ENG-BS: Aerospace Engineering BS](#)
[ARC ENG-BS: Architectural Engineering BS](#)
[CR ENG-BS: Ceramic Engineering BS](#)
[CV ENG-BS: Civil Engineering BS](#)
[CP ENG-BS: Computer Engineering BS](#)
[EL ENG-BS: Electrical Engineering BS](#)
[GE ENG-BS: Geological Engineering BS](#)
[BIOMED-BS: Biomedical Engineering BS](#)
[ENG MG-BS: Engineering Management BS](#)
[EV ENG-BS: Environmental Engineering BS](#)
[MC ENG-BS: Mechanical Engineering BS](#)
[MT ENG-BS: Metallurgical Engineering BS](#)
[MI ENG-BS: Mining Engineering BS](#)

Other Courses
referencing this
course

In The Catalog Prerequisites:
[AERO ENG 2360 : Dynamics](#)
[ARCH ENG 3201 : Structural Analysis I](#)
[CIV ENG 2210 : Mechanics Of Materials](#)
[CIV ENG 3201 : Structural Analysis I](#)
[EXP ENG 5713 : Demolition of Buildings and Structures](#)
[MECH ENG 2350 : Engineering Mechanics-Dynamics](#)

In Workflow

1. **RCIVILEN 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. 12/01/25 4:43 pm
Subhas Venayagamoorthy (skv7d8): Approved for RCIVILEN Chair
2. 12/02/25 1:11 pm
Jade McCain (jm558v): Approved for CCC Secretary
3. 12/12/25 11:30 am
Theresa Swift (thswift): Approved for Engineering DSCC Chair
4. 12/19/25 3:37 pm
Jade McCain (jm558v): Approved

[MECH ENG 2360 : Dynamics](#)
[MECH ENG 2761 : Introduction To Mechanical Design](#)
[MET ENG 3320 : Transport Phenomena In Metallurgy](#)
[PET ENG 4210 : Drilling and Well Integrity](#)

for Pending CCC
Agenda post

History

1. Jun 29, 2015 by
Genda Chen (gchen)
2. May 25, 2016 by
kleb6b

Requested Effective Fall 2026
Date

Department Civil Engineering (RCIVILEN)

Discipline Civil Engineering (CIV ENG)

Course Number 2200

Title Statics

Abbreviated Course Statics
Title

Co-Listed Course

Catalog Description

Application of the principles of mechanics to engineering problems of equilibrium. Topics include resultants, equilibrium, friction, trusses, center of gravity and moment of inertia.

Prerequisite(s):

Physics 1135 or Physics 1111 with a grade of "C" or better; Math 1215 ~~or Math 1221~~ with a grade of "C" or better; preceded or accompanied by Math 2222.

Corequisite(s):

Credit Hours

Credit Hours

Credit Type	Credit Hours
Lecture	3

Total: 3

Required for Majors Yes

Elective for Majors No

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

Justification

Removed Math 1221 as it has been removed from the listing in the catalog as it has not been offered since fall 2016.

Semesters Previously Offered

Term(s) Offered as
experimental

Is this a MOTR
Course?

Reviewer
Comments

Key: 1074

[Preview Bridge](#)

Course Change Request

Date Submitted: 10/27/25 8:46 am

Viewing: **CIV ENG 2601 : Fundamentals of Environmental Engineering and Science**

Also listed as: **ENV ENG 2601**

Last approved: 08/07/24 6:03 am

Last edit: 10/27/25 8:46 am

Changes proposed by: Crystal Wilson (wilsoncry)

Programs
referencing this
course

CIV ENG 2601:

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

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

[ES&P-CTU: Environmental Policy and Sustainability CTU](#)

ENV ENG 2601:

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

[ES&P-CTU: Environmental Policy and Sustainability CTU](#)

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

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

Other Courses
referencing this
course

In The Catalog Prerequisites:

CIV ENG 2601:

[ARCH ENG 5665 : Indoor Air Pollution](#)

[BIO SCI 5313 : Pathogenic Microbiology](#)

[CIV ENG 3615 : Water And Wastewater Engineering](#)

[CIV ENG 5605 : Environmental Systems Modeling](#)

[CIV ENG 5650 : Public Health Engineering](#)

[CIV ENG 5665 : Indoor Air Pollution](#)

[CIV ENG 5670 : Solid Waste Management](#)

[ENV ENG 3615 : Water And Wastewater Engineering](#)

In Workflow

1. **RCIVILEN 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. 12/01/25 4:43 pm
Subhas Venayagamoorthy (skv7d8): Approved for RCIVILEN Chair
2. 12/03/25 11:57 am
Jade McCain (jm558v): Approved for CCC Secretary
3. 12/12/25 11:30 am
Theresa Swift (thswift): Approved for Engineering DSCC Chair
4. 12/19/25 3:37 pm
Jade McCain (jm558v): Approved

[ENV ENG 5605 : Environmental Systems Modeling](#)

[ENV ENG 5650 : Public Health Engineering](#)

[ENV ENG 5665 : Indoor Air Pollution](#)

[ENV ENG 5670 : Solid Waste Management](#)

ENV ENG 2601:

[CIV ENG 2602 : Biological Fundamentals Of Environmental Engineering](#)

[ENV ENG 2602 : Biological Fundamentals Of Environmental Engineering](#)

for Pending CCC

Agenda post

History

1. Feb 9, 2015 by Mark Fitch (mfitch)
2. Apr 3, 2017 by Mark Fitch (mfitch)
3. Oct 26, 2021 by Mark Fitch (mfitch)
4. Aug 7, 2024 by Evie Sherlock (esdk3)

Requested Effective Date Fall 2026

Department Civil Engineering (RCIVILEN)

Discipline Civil Engineering (CIV ENG)

Course Number 2601

Title Fundamentals of Environmental Engineering and Science

Abbreviated Course Title Fund Of Env Engr & Sci

Co-Listed Course	ENV ENG 2601	Department
		Civil Engineering (RCIVILEN)

Catalog Description

Course discusses fundamental chemical, physical, and biological principles in environmental engineering and science. Topics include environmental phenomena, aquatic pollution and control, solid waste management, air pollution and control, water and wastewater treatment systems, sustainability and life cycle analyses.

Prerequisite(s):

Chem 1301, Chem 1310, or Chem 1351; Math 1211 ~~1208~~, ~~Math 1211~~, or Math 1214.

Corequisite(s):

Credit Hours

Credit Hours

Credit Type	Credit Hours
Laboratory	1
Lecture	2

Total: 3

Required for Majors Yes

Elective for Majors No

Communication No
Intensive

Communication No
Emphasized

Grading Basis Graded

Repeatable No

Justification

Removed Math 1208 as it has been removed from the listing in the catalog and has not been taught since fall 2016.

Semesters Previously Offered

Term(s) Offered as
experimental

Is this a MOTR
Course?

Reviewer
Comments

Key: 1451

[Preview Bridge](#)

Course Change Request

Date Submitted: 10/27/25 8:48 am

Viewing: **COMP SCI 1200 : Discrete Mathematics for Computer Science**

Last approved: 02/28/22 6:01 am

Last edit: 10/27/25 8:48 am

Changes proposed by: Crystal Wilson (wilsoncry)

Programs

referencing this course

- [AP MATH-BS: Applied Mathematics BS](#)
- [CP ENG-BS: Computer Engineering BS](#)
- [FR ENG-UN: Foundational Engineering and Computing](#)
- [CMP SC-BS: Computer Science BS](#)

Other Courses

referencing this course

- In The Catalog Prerequisites:
- [COMP SCI 2200 : Theory of Computer Science](#)
 - [COMP SCI 2500 : Algorithms](#)
 - [COMP SCI 5300 : Database Systems](#)
 - [MATH 5107 : Combinatorics And Graph Theory](#)
 - [PHILOS 3254 : Symbolic Logic in Argumentation](#)

Requested Effective Date	Fall 2026
Department	Computer Science (RCOMPSCI)
Discipline	Computer Science (COMP SCI)
Course Number	1200
Title	

In Workflow

1. **RCOMPSCI 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. 11/14/25 10:50 am
Seung-Jong Park (spxzb): Approved for RCOMPSCI Chair
2. 11/25/25 11:58 am
Jade McCain (jm558v): Approved for CCC Secretary
3. 12/08/25 7:44 am
Theresa Swift (thswift): Approved for Engineering DSCC Chair
4. 12/19/25 3:37 pm
Jade McCain (jm558v): Approved for Pending CCC

Discrete Mathematics for Computer Science

Agenda post

Abbreviated Course Discrete Math For Cmp Sc

Title

Co-Listed Course

Catalog Description

History

1. Apr 28, 2014 by
Lahne Black (lahne)
2. Feb 5, 2018 by
tauritzd
3. Jun 22, 2019 by
tauritzd
4. Feb 28, 2022 by
Peizhen Zhu (zhupe)

This course provides a rigorous treatment of topics from discrete mathematics which are essential to computer science. Principal topics include: formal logic (propositional & predicate), set theory, proof techniques, mathematical induction, program correctness, combinatorics, discrete probability, relations, functions, matrices, and graph theory.

Prerequisite(s):

A grade of "C" or better in either Comp Sci 1500 or Comp Sci 1570 and in one of Math 1120, Math 1140, Math ~~1208~~, ~~Math~~ 1210, Math 1211, or Math 1214.

Corequisite(s):

Credit Hours

Credit Hours

Credit Type	Credit Hours
Lecture	3

Total: 3

Required for Majors Yes

Elective for Majors No

Communication No
Intensive

Communication No
Emphasized

Grading Basis Graded

Repeatable No

Justification

Removed Math 1208 as it has been removed from the listing in the catalog and has not been taught since fall 2016.

Semesters Previously Offered

Term(s) Offered as
experimental

Is this a MOTR
Course?

Reviewer
Comments

Key: 110

[Preview Bridge](#)

Course Change Request

Date Submitted: 10/27/25 8:50 am

Viewing: **COMP SCI 1972 : Introduction to
MATLAB Programming**

Last approved: 03/14/22 6:01 am

Last edit: 12/16/25 8:32 am

Changes proposed by: Crystal Wilson (wilsoncry)

Programs

referencing this
course

[NU ENG-BS: Nuclear Engineering BS](#)
[PE ENG-BS: Petroleum Engineering BS](#)
[PHYSIC-BS: Physics BS](#)
[AE ENG-BS: Aerospace Engineering BS](#)
[CH ENG-BS: Chemical Engineering BS](#)
[GE ENG-BS: Geological Engineering BS](#)
[ECON-BA: Economics BA](#)
[BIOMED-BS: Biomedical Engineering BS](#)
[SEMI EN-BS: Semiconductor Engineering BS](#)
[ENG MG-BS: Engineering Management BS](#)
[MC ENG-BS: Mechanical Engineering BS](#)

Other Courses

referencing this
course

In The Catalog Prerequisites:

[AERO ENG 5449 : Robotic Manipulators and Mechanisms](#)
[AERO ENG 5479 : Machine Learning for Manufacturing Automation](#)
[CHEM ENG 3111 : Numerical Computing in Chemical and Biochemical Engineering](#)
[COMP SCI 1982 : MATLAB Programming Laboratory](#)
[MATH 5601 : Introduction to Numerical Analysis](#)
[MECH ENG 3313 : Machine Dynamics](#)
[MECH ENG 3411 : Modeling and Analysis of Dynamic Systems](#)

In Workflow

1. **RCOMPSCI 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. 11/14/25 10:49 am
Seung-Jong Park
(spxzb): Approved
for RCOMPSCI Chair
2. 11/25/25 11:59 am
Jade McCain
(jm558v): Approved
for CCC Secretary
3. 12/08/25 7:44 am
Theresa Swift
(thswift): Approved
for Engineering
DSCC Chair
4. 12/19/25 3:37 pm
Jade McCain
(jm558v): Approved
for Pending CCC

[MECH ENG 3525 : Heat Transfer](#)

[MECH ENG 5139 : Computational Fluid Dynamics](#)

[MECH ENG 5449 : Robotic Manipulators and Mechanisms](#)

[MECH ENG 5479 : Machine Learning for Manufacturing Automation](#)

[MECH ENG 5763 : Computer Aided Design: Theory and Practice](#)

[MECH ENG 5830 : Applied Compt Methods](#)

[In The Catalog Description:](#)

[COMP SCI 1982 : MATLAB Programming Laboratory](#)

Agenda post

History

1. May 2, 2014 by tauritzd
2. Mar 14, 2022 by Peizhen Zhu (zhupe)

Requested Effective Date	Fall 2026
Department	Computer Science (RCOMPSCI)
Discipline	Computer Science (COMP SCI)
Course Number	1972
Title	Introduction to MATLAB Programming
Abbreviated Course Title	MATLAB Programming
Co-Listed Course	

Catalog Description

Programming design and development using MATLAB for non-CS majors. Strong emphasis placed on algorithmic problem solving methods using good programming practices. Introduction to built-in functions including plotting, as well as logical/relational/arithmetic operators, decision branching, loops, functions, file I/O, datastructures, and output formatting.

Prerequisite(s):

Accompanied by Comp Sci 1982 and a grade of "C" or better in one of Math [1211](#) ~~1208~~, Math ~~1211~~, or Math 1214.

Corequisite(s):

Credit Hours

Credit Hours

Credit Type	Credit Hours
-------------	--------------

Credit Type		Credit Hours
Lecture		2
Total:	2	

Required for Majors No

Elective for Majors Yes ~~No~~

Communication No

Intensive

Communication No

Emphasized

Grading Basis Graded

Repeatable No

Justification

Removed Math 1208 as it has been removed from the listing in the catalog and has not been taught since fall 2016.

Semesters Previously Offered

Term(s) Offered as
experimental

Is this a MOTR
Course?

Reviewer

Comments

Jade McCain (jm558v) (12/16/25 8:32 am): Selected "yes" for elective for majors.

Course Change Request

Date Submitted: 10/27/25 8:52 am

Viewing: **COMP SCI 2500 : Algorithms**

Last approved: 03/08/22 6:01 am

Last edit: 10/27/25 8:52 am

Changes proposed by: Crystal Wilson (wilsoncry)

Programs
referencing this
course

[AP MATH-BS: Applied Mathematics BS](#)

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

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

Other Courses
referencing this
course

In The Catalog Prerequisites:

[COMP ENG 5320 : Game Theory for Computing](#)

[COMP ENG 5803 : Mathematical Logic I](#)

[COMP SCI 3100 : Software Engineering I](#)

[COMP SCI 4090 : Software Engineering Capstone I](#)

[COMP SCI 5101 : Software Testing And Quality Assurance](#)

[COMP SCI 5102 : Object-Oriented Analysis And Design](#)

[COMP SCI 5200 : Analysis Of Algorithms](#)

[COMP SCI 5203 : Mathematical Logic I](#)

[COMP SCI 5400 : Introduction To Artificial Intelligence](#)

[COMP SCI 5401 : Evolutionary Computing](#)

[COMP SCI 5402 : Introduction to Data Mining](#)

[COMP SCI 5404 : Introduction to Computer Vision](#)

[COMP SCI 5405 : Java Gui & Visualization](#)

[COMP SCI 5406 : Interactive Computer Graphics](#)

[COMP SCI 5407 : Introduction to Virtual Reality](#)

[COMP SCI 5408 : Game Theory for Computing](#)

[COMP SCI 5409 : Applied Social Network Analysis](#)

[COMP SCI 5420 : Introduction to Machine Learning](#)

In Workflow

1. **RCOMPSCI 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. 11/14/25 10:49 am
Seung-Jong Park
(spxzb): Approved
for RCOMPSCI Chair
2. 11/25/25 12:01 pm
Jade McCain
(jm558v): Approved
for CCC Secretary
3. 12/08/25 7:44 am
Theresa Swift
(thswift): Approved
for Engineering
DSCC Chair
4. 12/19/25 3:37 pm
Jade McCain
(jm558v): Approved
for Pending CCC

[COMP SCI 5500 : The Structure of a Compiler](#)
[COMP SCI 5602 : Introduction to Cryptography](#)
[COMP SCI 5800 : Distributed Computing](#)
[COMP SCI 5802 : Introduction to Parallel Programming and Algorithms](#)
[COMP SCI 5803 : Principles of Computer Architecture](#)
[MATH 5154 : Mathematical Logic I](#)
[PHILOS 4354 : Mathematical Logic I](#)

Agenda post

History

1. Apr 25, 2014 by
Lahne Black (lahne)
2. Jun 20, 2018 by
tauritzd
3. Mar 8, 2022 by
Peizhen Zhu (zhupe)

Requested Effective Fall 2026
Date
Department Computer Science (RCOMPSCI)
Discipline Computer Science (COMP SCI)
Course Number 2500
Title Algorithms
Abbreviated Course Algorithms
Title
Co-Listed Course

Catalog Description

Students will solve recurrence relations, analyze algorithms for correctness and time/space complexity, apply these analysis techniques to fundamental dynamic programming, greedy, shortest-path, minimal spanning trees, and maximum flow algorithms and validate these analyses through programming.

Prerequisite(s):

A grade of "C" or better in both Comp Sci 1200 and Comp Sci 1575; preceded or accompanied by a grade of "C" or better in either Math 1211 ~~1208~~, ~~Math 1211~~, or Math 1214.

Corequisite(s):

Credit Hours

Credit Hours

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

Removed Math 1208 as it has been removed from the listing in the catalog and has not been taught since fall 2016.

Semesters Previously Offered

Term(s) Offered as
experimental

Is this a MOTR
Course?

Reviewer
Comments

Key: 2507

[Preview Bridge](#)

Course Change Request

Date Submitted: 10/27/25 9:31 am

Viewing: **COMP SCI 3200 : Introduction To Numerical Methods**

Last approved: 04/25/14 3:06 pm

Last edit: 10/27/25 9:31 am

Changes proposed by: Crystal Wilson (wilsoncry)

Programs

referencing this course

- [NU ENG-BS: Nuclear Engineering BS](#)
- [AE ENG-BS: Aerospace Engineering BS](#)
- [MATH-MI: Mathematics Minor](#)

Other Courses

referencing this course

- In The Catalog Prerequisites:
- [COMP SCI 5201 : Object-Oriented Numerical Modeling I](#)
 - [COMP SCI 5406 : Interactive Computer Graphics](#)
 - [NUC ENG 4211 : Reactor Physics II](#)

Requested Effective Date Fall 2026

Department Computer Science (RCOMPSCI)

Discipline Computer Science (COMP SCI)

Course Number 3200

Title
Introduction To Numerical Methods

Abbreviated Course Title Intro Numerical Methods

In Workflow

1. **RCOMPSCI 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. 11/14/25 10:49 am
Seung-Jong Park (spxzb): Approved for RCOMPSCI Chair
2. 11/25/25 12:02 pm
Jade McCain (jm558v): Approved for CCC Secretary
3. 12/08/25 7:44 am
Theresa Swift (thswift): Approved for Engineering DSCC Chair
4. 12/19/25 3:37 pm
Jade McCain (jm558v): Approved for Pending CCC

Catalog Description

History

1. Apr 25, 2014 by
Lahne Black (lahne)

Finite difference interpolation, numerical differentiation and integration, linear systems of equations, solution of nonlinear equations, numerical solution of ordinary differential equations, computational techniques and the programming of a large number of problems on digital computers.

Prerequisite(s):

Program competency and a "C" or better grade in either Math 1215, ~~1215 or Math 1221~~.

Corequisite(s):

Credit Hours

Credit Hours

Credit Type	Credit Hours
Lecture	3

Total: 3

Required for Majors No ~~Yes~~

Elective for Majors Yes ~~No~~

Communication No

Intensive

Communication No

Emphasized

Grading Basis Graded

Repeatable No

Justification

Removed Math 1221 as it has been removed from the listing in the catalog as it has not been offered since fall 2016.

Semesters Previously Offered

Term(s) Offered as
experimental

Is this a MOTR
Course?

Reviewer
Comments

Key: 2097

[Preview Bridge](#)

Course Change Request

Date Submitted: 10/28/25 1:56 pm

Viewing: **ECON 6030 : Contemporary Issues in Energy Economics**

Also listed as: **CHEM ENG 6030 / MIN ENG 6030 / NUC ENG 6030**

Last approved: 04/29/25 6:04 am

Last edit: 12/09/25 1:33 pm

Changes proposed by: Christi Luks (luksc)

Programs
referencing this
course

ECON 6030:

PROPOSED: Economics and Innovation MS

ECN&GS-CT: Energy Economics and Global Sustainability CT

Requested Effective Date	Fall 2026
Department	Economics (RECONOMI)
Discipline	Economics (ECON)
Course Number	6030
Title	Contemporary Issues in Energy Economics
Abbreviated Course Title	CI in Energy Economics
Co-Listed Course	<u>CHEM ENG 6030</u>

Department

Chemical and
Biochemical
Engineering

In Workflow

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

Approval Path

1. 10/29/25 7:50 am
Melody Lo (mlc2d):
Approved for
RECONOMI Chair
2. 12/09/25 12:46 pm
Ryan Gilbert
(rggnx): Approved
for RCHEMENG
Chair
3. 12/09/25 1:35 pm
Jade McCain
(jm558v): Approved
for CCC Secretary
4. 12/19/25 1:38 pm
Katie Shannon

(RCHEMENG)

MIN ENG 6030	Department Mining and Explosives Engineering (RMINENG)
NUC ENG 6030	Department Nuclear Eng & Radiation Sci (RNUCLENG)

(shannonk):
Approved for
Sciences DSCC Chair
5. 12/19/25 2:18 pm
Cecil Eng Huang
Chua (cchua):
Approved for Social
Sciences DSCC Chair
6. 12/19/25 3:37 pm
Jade McCain
(jm558v): Approved
for Pending CCC
Agenda post

Catalog Description

History

- 1. Apr 29, 2025 by
Melody Lo (mlc2d)

This course explores the key challenges, trends, and opportunities shaping the future of energy, featuring insights from industry experts. It delves into the complexities of energy transition, decarbonization, policy regulation, and technological innovations, highlighting the forces driving change in the global energy economy.

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 No

Communication Intensive	No
Communication Emphasized	Yes
Grading Basis	Graded
Repeatable	No

Justification

This didn't get co-listed with ChemEng in the first pass. The other courses for the MS in Economics and Innovation did.

Semesters Previously Offered

Term(s) Offered as
experimental

Is this a MOTR
Course?

Reviewer

Comments

Jade McCain (jm558v) (12/09/25 1:33 pm): Changed requested effective date to Fall 2026 per CCC deadlines.

Key: 10229

[Preview Bridge](#)

Course Change Request

New Course Proposal

Date Submitted: 11/17/25 11:25 am

Viewing: **GEOLOGY 2917 : Climate Change and Society**

Last edit: 11/26/25 1:33 pm

Changes proposed by: jonathan Obrist Farner (johfb)

Requested Effective Date	Fall 2026
Department	Earth Sciences and Engineering (RGEOSENG)
Discipline	Geology (GEOLOGY)
Course Number	2917
Title	Climate Change and Society
Abbreviated Course Title	Climate Change and Society
Co-Listed Course	

Catalog Description

In Workflow

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

Approval Path

1. 11/17/25 11:30 am
Stephen Gao (sgao): Approved for RGEOSENG Chair
2. 11/26/25 1:35 pm
Jade McCain (jm558v): Approved for CCC Secretary
3. 12/08/25 7:42 am
Theresa Swift (thswift): Approved for Engineering DSCC Chair
4. 12/19/25 3:38 pm
Jade McCain (jm558v): Approved for Pending CCC

A study of the fundamentals of Earth's climate, the major components of Earth's climate systems, and the factors that drive climate change. Students will describe historical and future climate changes and understand and analyze climate history data to assess their validity. Students will also analyze the impact of climate change on global society and judge the anomalous character of recent climate change and discuss solutions to the current climate crisis.

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 Intensive No

Communication Emphasized Yes

Grading Basis Graded

Repeatable No

Justification

This class has already been taught as a 2001 Special Topics class with overwhelming success. We would like to have it included in the Geology and Geophysics curriculum as an elective for students.

Semesters Previously Offered

Term(s) Offered as
experimental

Previous Course
Code

Is this a MOTR
Course?

Reviewer
Comments

Jade McCain (jm558v) (11/26/25 1:33 pm): This course was offered experimentally in Fall 2024 with 19 students enrolled and Fall 2025 with 27 students enrolled.

Key: 10358

[Preview Bridge](#)

Course Change Request

Date Submitted: 10/17/25 3:51 pm

Viewing: **MATH 1214 : Calculus I**

Last approved: 02/08/21 6:00 am

Last edit: 10/17/25 3:51 pm

Changes proposed by: Crystal Wilson (wilsoncry)

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](#)
[AP MATH-BS: Applied Mathematics BS](#)
[ARC ENG-BS: Architectural Engineering BS](#)
[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](#)
[FR ENG-UN: Foundational Engineering and Computing](#)
[CMP SC-BS: Computer Science BS](#)
[EDUC-BS: Education BS](#)
[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](#)
[MC ENG-BS: Mechanical Engineering BS](#)
[MT ENG-BS: Metallurgical Engineering BS](#)

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. 11/05/25 10:34 am
John Singler
(singlerj): Approved
for RMATHEMA
Chair
2. 11/12/25 1:47 pm
Jade McCain
(jm558v): Approved
for CCC Secretary
3. 12/19/25 1:39 pm
Katie Shannon
(shannonk):
Approved for
Sciences DSCC Chair
4. 12/19/25 3:38 pm
Jade McCain
(jm558v): Approved
for Pending CCC

MI ENG-BS: Mining Engineering BS

Other Courses
referencing this
course

In The Catalog Prerequisites:

AERO ENG 3131 : Aerodynamics I

AERO ENG 3251 : Aerospace Structures I

AERO ENG 3613 : Aerospace Mechanics I

CIV ENG 2401 : Fundamentals Of Surveying

CIV ENG 2601 : Fundamentals of Environmental Engineering and Science

COMP SCI 1200 : Discrete Mathematics for Computer Science

COMP SCI 1972 : Introduction to MATLAB Programming

COMP SCI 2500 : Algorithms

ENG MGT 2310 : Introduction to System Engineering

ENV ENG 2601 : Fundamentals of Environmental Engineering and Science

GEOPHYS 4231 : Seismic Interpretation

GEOPHYS 5202 : Exploration and Development Seismology

MATH 1221 : Calculus With Analytic Geometry II

MATH 5762 : Marketing Revolution with Machine Learning

MECH ENG 1761 : Introduction to Computer Aided Design

MECH ENG 2519 : Thermodynamics

MECH ENG 2761 : Introduction To Mechanical Design

MECH ENG 3313 : Machine Dynamics

MECH ENG 3411 : Modeling and Analysis of Dynamic Systems

MKT 5762 : Marketing Revolution with Machine Learning

NUC ENG 2406 : Reactor Operations I

PHYSICS 1111 : General Physics I

PHYSICS 1135 : Engineering Physics I

STAT 3425 : Introduction to Biostatistics

In The Catalog Description:

MATH 1208 : Calculus With Analytic Geometry I

MATH 1210 : Calculus I-A

MATH 1211 : Calculus I-B

Agenda post

History

1. Apr 25, 2014 by
Lahne Black (lahne)
2. May 24, 2016 by
kleb6b
3. Feb 8, 2021 by Paul
Runnion (prunnion)

Requested Effective Date Fall 2026

Department Mathematics & Statistics (RMATHEMA)

Discipline Mathematics (MATH)

Course Number 1214

Title Calculus I

Abbreviated Course Title Calculus I

Co-Listed Course

Catalog Description

Introduction to limits, continuity, differentiation, and integration of algebraic and transcendental functions. Applications in physical science and engineering. Credit will be given for only one of Math 1210 ~~1208, 1210~~, or 1214.

Prerequisite(s):

A grade of "C" or better in both Math 1160 and one of Math 1120 or Math 1140; or by placement exam.

Corequisite(s):

Credit Hours

Credit Hours

Credit Type	Credit Hours
Lecture	3
Laboratory	1

Total: 4

Required for Majors Yes

Elective for Majors No

Communication No
Intensive

Communication No
Emphasized

Grading Basis	Graded
Repeatable	No

Justification

Removed math 1208 from catalog description as the course is not being offered and has been removed from the listing in the catalog.

Semesters Previously Offered

Term(s) Offered as
experimental

Is this a MOTR
Course?

Reviewer
Comments

Key: 116

[Preview Bridge](#)

Course Change Request

Date Submitted: 10/17/25 3:48 pm

Viewing: **MATH 1215 : Calculus II**

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

Last edit: 10/17/25 3:52 pm

Changes proposed by: Crystal Wilson (wilsoncry)

Programs
referencing this
course

[NU ENG-BS: Nuclear Engineering BS](#)
[PE ENG-BS: Petroleum Engineering BS](#)
[PHYSIC-BS: Physics 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](#)
[CP ENG-BS: Computer Engineering BS](#)
[EL ENG-BS: Electrical Engineering BS](#)
[GE ENG-BS: Geological Engineering BS](#)
[CHEM-BS: Chemistry BS](#)
[FR ENG-UN: Foundational Engineering and Computing](#)
[CMP SC-BS: Computer Science BS](#)
[EDUC-BS: Education 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](#)
[MC ENG-BS: Mechanical Engineering BS](#)
[MT ENG-BS: Metallurgical Engineering BS](#)
[MI ENG-BS: Mining Engineering BS](#)

Other Courses

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. 11/05/25 10:34 am
John Singler
(singlerj): Approved
for RMATHEMA
Chair
2. 11/12/25 1:47 pm
Jade McCain
(jm558v): Approved
for CCC Secretary
3. 12/19/25 1:39 pm
Katie Shannon
(shannonk):
Approved for
Sciences DSCC Chair
4. 12/19/25 3:38 pm
Jade McCain
(jm558v): Approved
for Pending CCC

referencing this
course

In The Catalog Prerequisites:

AERO ENG 2861 : Aerospace Vehicle Performance
AERO ENG 3131 : Aerodynamics I
AERO ENG 3251 : Aerospace Structures I
AERO ENG 3613 : Aerospace Mechanics I
ARCH ENG 4448 : Fundamentals Of Construction Engineering & Management
CHEM 2410 : Physical Chemistry I
CHEM 3410 : Chemical Thermodynamics I
CHEM ENG 2100 : Chemical Engineering Material & Energy Balances
CIV ENG 2200 : Statics
CIV ENG 3116 : Construction Materials, Properties And Testing
CIV ENG 3715 : Fundamentals of Geotechnical Engineering
CIV ENG 4448 : Fundamentals Of Construction Engineering & Management
COMP SCI 3200 : Introduction To Numerical Methods
ECON 5337 : Financial Mathematics
ELEC ENG 2100 : Circuits I
EXP ENG 6212 : Theory Of High Explosives
GEO ENG 5331 : Subsurface Hydrology
MATH 2222 : Calculus III
MATH 3108 : Linear Algebra I
MATH 3109 : Foundations Of Mathematics
MATH 3304 : Elementary Differential Equations
MATH 5737 : Financial Mathematics
MECH ENG 2519 : Thermodynamics
MECH ENG 2527 : Thermal Analysis
MECH ENG 3313 : Machine Dynamics
MECH ENG 3411 : Modeling and Analysis of Dynamic Systems
NUC ENG 2105 : Introduction To Nuclear Engineering
PHYSICS 2111 : General Physics II
PHYSICS 2135 : Engineering Physics II
STAT 3113 : Applied Engineering Statistics
STAT 3115 : Engineering Statistics

In The Catalog Description:

MATH 1212 : Survey of Calculus
MATH 1221 : Calculus With Analytic Geometry II

Agenda post

History

1. Jan 13, 2017 by imorgan
2. Feb 25, 2021 by Paul Runnion (prunnion)
3. Mar 25, 2024 by John Singler (singlerj)

Requested Effective Date Fall 2026

Department Mathematics & Statistics (RMATHEMA)

Discipline Mathematics (MATH)

Course Number 1215

Title Calculus II

Abbreviated Course Title Calculus II

Co-Listed Course

Catalog Description

Techniques of integration, sequences and series including power series, polar coordinates, polar and parametric equations. Applications in physical science and engineering. ~~Credit will be given for only one of Math 1215 or Math 1221.~~

Prerequisite(s):

A grade of "C" or better in ~~one of Math 1208 or~~ 1214; or a grade of "C" or better in both Math 1210 and Math 1211.

Corequisite(s):

Credit Hours

Credit Hours

Credit Type	Credit Hours
Lecture	3
Laboratory	1

Total: 4

Required for Majors Yes

Elective for Majors No

Communication Intensive No

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

Justification

Removed math 1208 from the pre-req as it is not being offered. Removed sentence from catalog description that mentions math 1221 as this course is not being offered either. Math 1208 has been removed from the listing in the catalog.

Semesters Previously Offered

Term(s) Offered as
experimental

Is this a MOTR
Course?

Reviewer
Comments

Key: 1695

[Preview Bridge](#)

Course Change Request

Date Submitted: 11/05/25 10:42 am

Viewing: **MATH 2222 : Calculus III**

Last approved: 02/25/21 6:01 am

Last edit: 11/05/25 10:42 am

Changes proposed by: Crystal Wilson (wilsoncry)

Programs
referencing this
course

[NU ENG-BS: Nuclear Engineering BS](#)
[PE ENG-BS: Petroleum Engineering BS](#)
[PHYSIC-BS: Physics 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](#)
[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](#)
[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](#)
[MC ENG-BS: Mechanical Engineering BS](#)
[MT ENG-BS: Metallurgical Engineering BS](#)
[MI ENG-BS: Mining Engineering BS](#)

Other Courses
referencing this
course

[In The Catalog Prerequisites:](#)

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. 11/05/25 10:35 am
John Singler
(singlerj): Rollback to Initiator
2. 11/05/25 10:47 am
John Singler
(singlerj): Approved for RMATHEMA Chair
3. 11/12/25 2:14 pm
Jade McCain
(jm558v): Approved for CCC Secretary
4. 12/19/25 1:39 pm
Katie Shannon
(shannonk): Approved for Sciences DSCC Chair

[AERO ENG 2360 : Dynamics](#)
[AERO ENG 3131 : Aerodynamics I](#)
[AERO ENG 3251 : Aerospace Structures I](#)
[AERO ENG 3613 : Aerospace Mechanics I](#)
[CER ENG 6220 : Optical Properties Of Materials](#)
[CHEM 2420 : Physical Chemistry II](#)
[CHEM 3420 : Introduction To Quantum Chemistry](#)
[CHEM 5420 : Elemental Quantum Chemistry](#)
[CHEM ENG 2110 : Chemical Engineering Thermodynamics I](#)
[CHEM ENG 3101 : Fundamentals of Transport in Chemical and Biochemical Engineering](#)
[CHEM ENG 3111 : Numerical Computing in Chemical and Biochemical Engineering](#)
[CIV ENG 2200 : Statics](#)
[CIV ENG 3842 : Fundamentals of Building Systems](#)
[COMP SCI 5204 : Regression Analysis](#)
[ELEC ENG 3600 : Electromagnetics](#)
[ELEC ENG 5200 : Classical Optics](#)
[ENV ENG 3603 : Chemical Fundamentals Of Environmental Engineering](#)
[GEO ENG 5782 : Environmental and Engineering Geophysics](#)
[GEOLOGY 6211 : Geodynamics](#)
[GEOPHYS 3211 : Introduction To Geophysical Data Analysis](#)
[GEOPHYS 5241 : Advanced Electrical And Electromagnetic Methds In Geophysical Exp](#)
[GEOPHYS 5782 : Environmental and Engineering Geophysics](#)
[MATH 4209 : Advanced Calculus I](#)
[MATH 5222 : Vector And Tensor Analysis](#)
[MATH 5302 : Intermediate Differential Equations](#)
[MATH 5325 : Partial Differential Equations](#)
[MATH 5351 : Introduction To Complex Variables](#)
[MATH 5483 : Operational Calculus](#)
[MATH 5603 : Methods of Applied Mathematics](#)
[MATH 5604 : Introduction to Numerical Methods for Differential Equations](#)
[MATH 5680 : Mathematics of Machine Learning](#)
[MATH 5940 : Mathematical Analysis For Secondary Teachers](#)
[MATH 6490 : Nonlinear Optimization in Machine Learning](#)
[MECH ENG 2340 : Statics and Dynamics](#)
[MECH ENG 2350 : Engineering Mechanics-Dynamics](#)
[MECH ENG 2360 : Dynamics](#)

5. 12/19/25 3:38 pm
Jade McCain
(jm558v): Approved
for Pending CCC
Agenda post

History

1. Oct 19, 2015 by
imorgan
2. Feb 25, 2021 by
Paul Runnion
(prunnion)

[MECH ENG 2519 : Thermodynamics](#)
[MECH ENG 3313 : Machine Dynamics](#)
[MECH ENG 3411 : Modeling and Analysis of Dynamic Systems](#)
[MECH ENG 5543 : Energy Efficiency of Vehicles](#)
[MECH ENG 5763 : Computer Aided Design: Theory and Practice](#)
[NUC ENG 3103 : Interactions Of Radiation With Matter](#)
[PET ENG 6711 : Geodynamics](#)
[PHYSICS 2305 : Introduction To Modern Physics](#)
[PHYSICS 4503 : Classical Optics](#)
[STAT 3117 : Introduction To Probability And Statistics](#)
[STAT 4210 : Introduction to Statistical Data Science](#)
[STAT 5346 : Regression Analysis](#)
[STAT 5353 : Statistical Data Analysis](#)
[STAT 5643 : Probability And Statistics](#)
[STAT 6841 : Stochastic Processes](#)

Requested Effective Date	Fall 2026
Department	Mathematics & Statistics (RMATHEMA)
Discipline	Mathematics (MATH)
Course Number	2222
Title	Calculus III
Abbreviated Course Title	Calculus III
Co-Listed Course	

Catalog Description

An introduction to multivariable calculus. Vector valued functions, curves and surfaces in two and three dimensions, partial differentiation, multiple integration, line and surface integrals, the major theorems of vector calculus, and applications of these ideas are studied.

Prerequisite(s):

A grade of "C" or better in ~~either Math 1215. 1215 or Math 1221.~~ Math 1215.

Corequisite(s):

Credit Hours

Credit Hours

Credit Type	Credit Hours
Lecture	3
Laboratory	1

Total: 4

Required for Majors Yes

Elective for Majors No

Communication No
Intensive

Communication No
Emphasized

Grading Basis Graded

Repeatable No

Justification

Removed math 1221 from the pre-req has it is not being offered and has been removed from the listing in the catalog.

Semesters Previously Offered

Term(s) Offered as
experimental

Is this a MOTR
Course?

Reviewer

Comments

John Singler (singlerj) (11/05/25 10:35 am): Rollback: The new prerequisite should read: A grade of "C" or better in Math 1215. [The word either should be removed.]

Course Change Request

Date Submitted: 10/16/25 3:53 pm

Viewing: **MATH 5737 : Financial Mathematics**

Also listed as: **ECON 5337**

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

Last edit: 11/05/25 9:44 am

Changes proposed by: Crystal Wilson (wilsoncry)

Programs
referencing this
course

ECON 5337:

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

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

[ACTUSCI-CT: Actuarial Science CT](#)

[ECON-BA: Economics BA](#)

[ECON-BS: Economics BS](#)

[FETECH-CTU: Financial Economics and Technology - CTU](#)

[Q ECON-MI: Quantitative Economics Minor](#)

MATH 5737:

[AP MATH-BS: Applied Mathematics BS](#)

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

[ACTUSCI-CT: Actuarial Science CT](#)

[GFINMTH-CT: Financial Mathematics CT](#)

Other Courses
referencing this
course

In The Catalog Prerequisites:

ECON 5337:

[ECON 6337 : Financial Mathematics II](#)

[MATH 6737 : Financial Mathematics II](#)

MATH 5737:

[ECON 6337 : Financial Mathematics II](#)

[MATH 6737 : Financial Mathematics II](#)

In Workflow

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

Approval Path

1. 10/16/25 4:34 pm
John Singler
(singlerj): Approved
for RMATHEMA
Chair
2. 10/17/25 6:58 am
Melody Lo (mlc2d):
Rollback to
RMATHEMA Chair
for RECONOMI
Chair
3. 10/17/25 4:40 pm
John Singler
(singlerj): Approved
for RMATHEMA

In The Catalog Description:

ECON 5337:

ECON 6337 : Financial Mathematics II

MATH 6737 : Financial Mathematics II

MATH 5737:

ECON 6337 : Financial Mathematics II

MATH 6737 : Financial Mathematics II

Requested Effective Date	Fall 2026	
Department	Mathematics & Statistics (RMATHEMA)	
Discipline	Mathematics (MATH)	
Course Number	5737	
Title	Financial Mathematics	
Abbreviated Course Title	Financial Mathematics	
Co-Listed Course	ECON 5337	Department
		Economics (RECONOMI)

Catalog Description

The course objective is to provide an understanding of the fundamental concepts of financial mathematics. Topics include pricing, assets-liability management, capital budgeting, valuing cash flow, bonds, futures, swaps, options. Preparation for the financial mathematics actuarial exam will be provided.

Prerequisite(s):

Math 1215, ~~1215 or Math 1221~~, Econ 1100 or Econ 1200, and one of the following: Stat 3111, Stat 3113, Stat 3115, Stat 3117 or Stat 5643.

Chair

4. 10/26/25 6:20 pm
Melody Lo (mlc2d):
Approved for
RECONOMI Chair
5. 10/27/25 9:02 am
Jade McCain
(jm558v): Approved
for CCC Secretary
6. 12/19/25 1:40 pm
Katie Shannon
(shannonk):
Approved for
Sciences DSCC Chair
7. 12/19/25 2:19 pm
Cecil Eng Huang
Chua (cchua):
Approved for Social
Sciences DSCC Chair
8. 12/19/25 3:38 pm
Jade McCain
(jm558v): Approved
for Pending CCC
Agenda post

History

1. Oct 7, 2019 by Paul
Runnion (prunnion)
2. Jul 31, 2024 by Jade
McCain (jm558v)

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

Removed stat courses that are being removed from the catalog. Removed math course that has been removed from the catalog.

Semesters Previously Offered

Term(s) Offered as
experimental

Is this a MOTR
Course?

Reviewer

Comments

Melody Lo (mlc2d) (10/17/25 6:58 am): Rollback: See my email for details: I will not approve the request. This course is co-listed with economics but the change in prerequisite is preventing economics of taking it. This is also a course for double major (math & economics) and financial

economics and technology certificate. I am against to put this through as it affects too many students to move forward.

Crystal Wilson (wilsoncry) (11/05/25 9:44 am): Added Stat 3111 and Stat 3115 back to the form. Per email received from Dr. Shannon, sciences DSCC chair, on October 31, Dr. Runnion met with Dr. Singler to discuss the stat changes and they do not want to approve the stat changes to this form at this time. They are okay with the removal of Math 1221 as this course has not been offered in years.

Key: 2255

[Preview Bridge](#)

Course Change Request

A deleted record cannot be edited

Course Inactivation Proposal

Date Submitted: 12/05/25 1:56 pm

Viewing: **MET ENG 1017 : Introduction To Metallurgical Engineering**

Last edit: 12/05/25 1:56 pm

Changes proposed by: David Lipke (lipked)

Justification for this
inactivation request

In Workflow

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

Approval Path

1. 12/05/25 4:35 pm
Michael Moats
(moatsm):
Approved for
RMATSENG Chair
2. 12/08/25 9:41 am
Jade McCain
(jm558v): Approved
for CCC Secretary
3. 12/12/25 11:29 am
Theresa Swift
(thswift): Approved
for Engineering
DSCC Chair
4. 12/19/25 3:38 pm
Jade McCain

Course has not been offered in 10+ years with no plans to offer again.

Requested Effective Date Fall 2026

Department Materials Science & Engineering (RMATSENG)

Discipline Metallurgical Engineering (MET ENG)

Course Number 1017

Title Introduction To Metallurgical Engineering

Abbreviated Course Title Intro To Mt Eng

Co-Listed Course

Catalog Description

Introduction to the field of metallurgical engineering with specific reference to the emphasis areas of extractive, manufacturing and physical metallurgy. The course will include lectures, videos and field trips to local industry.

Prerequisite(s):

Corequisite(s):

Credit Hours

Credit Hours

Credit Type	Credit Hours
Lecture	1

Total: 1

Required for Majors No

Elective for Majors

Communication

Intensive

Communication

Emphasized

Grading Basis

Graded

Repeatable

No

Justification

Semesters Previously Offered

Term(s) Offered as
experimental

Previous Course
Code

Is this a MOTR
Course?

Reviewer

Comments

Key: 8928

[Preview Bridge](#)

Course Change Request

A deleted record cannot be edited

Course Inactivation Proposal

Date Submitted: 12/05/25 1:56 pm

Viewing: **MET ENG 1027 : Computer Application
In Metallurgical Engineering**

Last edit: 12/05/25 1:56 pm

Changes proposed by: David Lipke (lipked)

Justification for this
inactivation request

In Workflow

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

Approval Path

1. 12/05/25 4:35 pm
Michael Moats
(moatsm):
Approved for
RMATSENG Chair
2. 12/08/25 9:41 am
Jade McCain
(jm558v): Approved
for CCC Secretary
3. 12/12/25 11:29 am
Theresa Swift
(thswift): Approved
for Engineering
DSCC Chair
4. 12/19/25 3:38 pm
Jade McCain

Course has not been offered in 10+ years with no plans to offer again.

Requested Effective Date Fall 2026

Department Materials Science & Engineering (RMATSENG)

Discipline Metallurgical Engineering (MET ENG)

Course Number 1027

Title Computer Application In Metallurgical Engineering

Abbreviated Course Title Computer Appl In Met Eng

Co-Listed Course

Catalog Description

Introduction to the use of microcomputers for simulation, data analysis including statistics, data acquisition from laboratory instruments, and automatic process control systems. The course will provide instruction in programming and software usage, and the laboratory will enable students to fully utilize the potential of microcomputer in later courses.

Prerequisite(s):

Corequisite(s):

Credit Hours

Credit Hours

Credit Type	Credit Hours
Laboratory	1
Lecture	2

Total: 3

Required for Majors No

Elective for Majors

Communication

Intensive

Communication

Emphasized

Grading Basis Graded

Repeatable No

Justification

Semesters Previously Offered

Term(s) Offered as
experimental

Previous Course
Code

Is this a MOTR
Course?

Reviewer
Comments

Key: 8929

[Preview Bridge](#)

Course Change Request

A deleted record cannot be edited

Course Inactivation Proposal

Date Submitted: 12/05/25 2:03 pm

Viewing: **MET ENG 5110 : High Temperature
And Corrosion Resistant Alloys**

Last edit: 12/05/25 2:03 pm

Changes proposed by: David Lipke (lipked)

Justification for this
inactivation request

In Workflow

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

Approval Path

1. 12/05/25 4:35 pm
Michael Moats
(moatsm):
Approved for
RMATSENG Chair
2. 12/08/25 9:43 am
Jade McCain
(jm558v): Approved
for CCC Secretary
3. 12/12/25 11:29 am
Theresa Swift
(thswift): Approved
for Engineering
DSCC Chair
4. 12/19/25 3:38 pm
Jade McCain

Course has not been offered in 10+ years with no plans to offer again.

Requested Effective Date Fall 2026

Department Materials Science & Engineering (RMATSENG)

Discipline Metallurgical Engineering (MET ENG)

Course Number 5110

Title High Temperature And Corrosion Resistant Alloys

Abbreviated Course Title Hgh Tem&Corros Resist Al

Co-Listed Course

Catalog Description

Fabrication and use of nickel, titanium, and refractory metal based alloys for use at high temperatures or in chemically corrosive environments. Properties and strengthening mechanisms of these alloys. Theory of high temperature oxidation and corrosion and design of alloys to prevent them.

Prerequisite(s):

Met Eng 3130, 2125.

Corequisite(s):

Credit Hours

Credit Hours

Credit Type	Credit Hours
Lecture	3

Total: 3

Required for Majors No

Elective for Majors

Communication

Intensive

Communication

Emphasized

Grading Basis

Graded

Repeatable

No

Justification

Semesters Previously Offered

Term(s) Offered as
experimental

Previous Course
Code

Is this a MOTR
Course?

Reviewer
Comments

Key: 8964

[Preview Bridge](#)

Course Change Request

A deleted record cannot be edited

Course Inactivation Proposal

Date Submitted: 12/05/25 2:02 pm

Viewing: **MET ENG 5160 : Mechanical Metallurgy**

Last edit: 12/05/25 2:02 pm

Changes proposed by: David Lipke (lipked)

Justification for this
inactivation request

In Workflow

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

Approval Path

1. 12/05/25 4:36 pm
Michael Moats
(moatsm):
Approved for
RMATSENG Chair
2. 12/08/25 9:44 am
Jade McCain
(jm558v): Approved
for CCC Secretary
3. 12/12/25 11:29 am
Theresa Swift
(thswift): Approved
for Engineering
DSCC Chair
4. 12/19/25 3:38 pm
Jade McCain

Course has not been offered in 10+ years with no plans to offer again.

Requested Effective Date Fall 2026

Department Materials Science & Engineering (RMATSENG)

Discipline Metallurgical Engineering (MET ENG)

Course Number 5160

Title Mechanical Metallurgy

Abbreviated Course Title Mechanical Metallurgy

Co-Listed Course

Catalog Description

Elastic and plastic behavior of metallic single crystals and polycrystalline aggregates. Resulting changes in mechanical properties are considered. Included are applications to metal fabrication.

Prerequisite(s):

Met Eng 3120, 3125, Civ Eng 2210.

Corequisite(s):

Credit Hours

Credit Hours

Credit Type	Credit Hours
Lecture	3

Total: 3

Required for Majors No

Elective for Majors

Communication

Intensive

Communication

Emphasized

Grading Basis

Graded

Repeatable

No

Justification

Semesters Previously Offered

Term(s) Offered as
experimental

Previous Course
Code

Is this a MOTR
Course?

Reviewer

Comments

Key: 8965

[Preview Bridge](#)

Course Change Request

A deleted record cannot be edited

Course Inactivation Proposal

Date Submitted: 12/05/25 2:02 pm

Viewing: **MET ENG 5171 : Nuclear Materials II**

Last edit: 12/05/25 2:02 pm

Changes proposed by: David Lipke (lipked)

Justification for this
inactivation request

In Workflow

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

Approval Path

1. 12/05/25 4:36 pm
Michael Moats
(moatsm):
Approved for
RMATSENG Chair
2. 12/08/25 9:44 am
Jade McCain
(jm558v): Approved
for CCC Secretary
3. 12/12/25 11:29 am
Theresa Swift
(thswift): Approved
for Engineering
DSCC Chair
4. 12/19/25 3:39 pm
Jade McCain

Last offered 2002 with no plans to offer again

Requested Effective Date Fall 2026

Department Materials Science & Engineering (RMATSENG)

Discipline Metallurgical Engineering (MET ENG)

Course Number 5171

Title Nuclear Materials II

Abbreviated Course Title Nuclear Materials II

Co-Listed Course

Catalog Description

Extractive metallurgy of uranium, thorium, and zirconium. Equation of state of UO₂ and fuel chemistry. LMFBR fuel and interaction of sodium and stainless steel. Materials for fusion and other advanced nuclear applications. Reprocessing of spent fuel and disposal.

Prerequisite(s):

Met Eng 5170.

Corequisite(s):

Credit Hours

Credit Hours

Credit Type	Credit Hours
Lecture	3

Total: 3

Required for Majors No

Elective for Majors

Communication

Intensive

Communication

Emphasized

Grading Basis

Graded

Repeatable

No

Justification

Semesters Previously Offered

Term(s) Offered as
experimental

Previous Course
Code

Is this a MOTR
Course?

Reviewer

Comments

Key: 8967

[Preview Bridge](#)

Course Change Request

A deleted record cannot be edited

Course Inactivation Proposal

Date Submitted: 12/05/25 2:04 pm

Viewing: **MET ENG 5460 : Metal Coating Processes**

Last edit: 12/05/25 2:04 pm

Changes proposed by: David Lipke (lipked)

Justification for this
inactivation request

In Workflow

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

Approval Path

1. 12/05/25 4:36 pm
Michael Moats
(moatsm):
Approved for
RMATSENG Chair
2. 12/08/25 9:44 am
Jade McCain
(jm558v): Approved
for CCC Secretary
3. 12/12/25 11:30 am
Theresa Swift
(thswift): Approved
for Engineering
DSCC Chair
4. 12/19/25 3:39 pm
Jade McCain

Course has not been offered in 10+ years with no plans to offer again.

Requested Effective Date Fall 2026

Department Materials Science & Engineering (RMATSENG)

Discipline Metallurgical Engineering (MET ENG)

Course Number 5460

Title Metal Coating Processes

Abbreviated Course Title Metal Coating Processes

Co-Listed Course

Catalog Description

Introduction to the current technologies used to enhance metal performance, particularly corrosion resistance, by overlay coatings. Deposition processes are emphasized and the fundamentals of the behavior of the films in high technology and electronic materials applications is discussed.

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

Communication

Intensive

Communication

Emphasized

Grading Basis

Graded

Repeatable

No

Justification

Semesters Previously Offered

Term(s) Offered as
experimental

Previous Course
Code

Is this a MOTR
Course?

Reviewer
Comments

Key: 8973

[Preview Bridge](#)

Course Change Request

A deleted record cannot be edited

Course Inactivation Proposal

Date Submitted: 12/05/25 2:04 pm

Viewing: **MET ENG 5515 : Nondestructive Testing Laboratory**

Last edit: 12/05/25 2:04 pm

Changes proposed by: David Lipke (lipked)

Justification for this
inactivation request

In Workflow

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

Approval Path

1. 12/05/25 4:36 pm
Michael Moats
(moatsm):
Approved for
RMATSENG Chair
2. 12/08/25 9:44 am
Jade McCain
(jm558v): Approved
for CCC Secretary
3. 12/12/25 11:29 am
Theresa Swift
(thswift): Approved
for Engineering
DSCC Chair
4. 12/19/25 3:39 pm
Jade McCain

Course has not been offered in 10+ years with no plans to offer again.

Requested Effective Date Fall 2026

Department Materials Science & Engineering (RMATSENG)

Discipline Metallurgical Engineering (MET ENG)

Course Number 5515

Title Nondestructive Testing Laboratory

Abbreviated Course Title Nondestructive Test Lab

Co-Listed Course

Catalog Description

Application of radiological and ultrasonic methods of nondestructive testing of metallic materials. A radiographic X-ray units and ultrasonic equipment are used in the inspection of a variety of materials and manufactured parts.

Prerequisite(s):

Accompanied or preceded by Met Eng 5510.

Corequisite(s):

Credit Hours

Credit Hours

Credit Type	Credit Hours
Laboratory	1

Total: 1

Required for Majors No

Elective for Majors

Communication

Intensive

Communication

Emphasized

Grading Basis

Graded

Repeatable

No

Justification

Semesters Previously Offered

Term(s) Offered as
experimental

Previous Course
Code

Is this a MOTR
Course?

Reviewer

Comments

Key: 8975

[Preview Bridge](#)

Course Change Request

A deleted record cannot be edited

Course Inactivation Proposal

Date Submitted: 12/05/25 2:07 pm

Viewing: **MS&E 5517 : Materials Selection in Mechanical Design**

Last edit: 12/05/25 2:07 pm

Changes proposed by: David Lipke (lipked)

Justification for this
inactivation request

In Workflow

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

Approval Path

1. 12/05/25 4:36 pm
Michael Moats
(moatsm):
Approved for
RMATSENG Chair
2. 12/08/25 9:44 am
Jade McCain
(jm558v): Approved
for CCC Secretary
3. 12/12/25 11:29 am
Theresa Swift
(thswift): Approved
for Engineering
DSCC Chair
4. 12/19/25 3:39 pm
Jade McCain

(jm558v): Approved
for Pending CCC
Agenda post

Course has not been offered in 10+ years with no plans to offer again. Replaced with Met Eng 4637

Requested Effective Date Fall 2026

Department Materials Science & Engineering (RMATSENG)

Discipline Materials Science & Engineering (MS&E)

Course Number 5517

Title Materials Selection in Mechanical Design

Abbreviated Course Title Materials Selection

Co-Listed Course

Catalog Description

This course will introduce the basics of materials selection in mechanical design. It will also introduce the benefits of computational materials and process selection. The students will also learn to use a commercially available materials selection software. This course will be offered as Distance Ed.

Prerequisite(s):

Met Eng 2110.

Corequisite(s):

Credit Hours

Credit Hours

Credit Type	Credit Hours
Lecture	3

Total: 3

Required for Majors No

Elective for Majors

Communication

Intensive

Communication

Emphasized

Grading Basis

Graded

Repeatable

No

Justification

Semesters Previously Offered

Term(s) Offered as
experimental

Previous Course
Code

Is this a MOTR
Course?

Reviewer
Comments

Key: 9075

[Preview Bridge](#)

Course Change Request

A deleted record cannot be edited

Course Inactivation Proposal

Date Submitted: 12/05/25 2:08 pm

Viewing: **MS&E 6230 : Nanomaterials**

Also listed as: **CHEM ENG 6310**

Last edit: 12/05/25 2:08 pm

Changes proposed by: David Lipke (lipked)

Justification for this
inactivation request

In Workflow

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

Approval Path

1. 12/05/25 4:36 pm
Michael Moats
(moatsm):
Approved for
RMATSENG Chair
2. 12/08/25 9:45 am
Jade McCain
(jm558v): Approved
for CCC Secretary
3. 12/09/25 12:46 pm
Ryan Gilbert
(rggnx): Approved
for RCHEMENG
Chair

4. 12/12/25 1:18 pm
Jade McCain
(jm558v): Approved
for CCC Secretary
5. 12/16/25 3:07 pm
Theresa Swift
(thswift): Approved
for Engineering
DSCC Chair
6. 12/19/25 3:39 pm
Jade McCain
(jm558v): Approved
for Pending CCC
Agenda post

Course has not been offered since prior to 2011 with no plans to offer again.

Requested Effective Date	Fall 2026	
Department	Materials Science & Engineering (RMATSENG)	
Discipline	Materials Science & Engineering (MS&E)	
Course Number	6230	
Title	Nanomaterials	
Abbreviated Course Title	Nanomaterials	
Co-Listed Course	CHEM ENG 6310	Department
		Chemical and Biochemical Engineering (RCHEMENG)

Catalog Description

Introduction of the fundamentals of nanomaterials and recent developments on nanomaterials. Topics include physical and chemical properties, synthesis, processing, and applications of nanomaterials. Example nanomaterials include nanoparticles, nanotubes, and nanowires. Students will need to complete a project related to nanomaterials.

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

Communication

Intensive

Communication

Emphasized

Grading Basis Graded

Repeatable No

Justification

Semesters Previously Offered

Term(s) Offered as
experimental

Previous Course
Code

Is this a MOTR
Course?

Reviewer

Comments

Key: 9085

[Preview Bridge](#)

Program Change Request

Date Submitted: 12/10/25 3:38 pm

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

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

Last edit: 12/10/25 3:38 pm

Changes proposed by: Katie Shannon (shannonk)

Catalog Pages Using
this Program

[Biological Sciences](#)

Effective Catalog Edition	FS2026-SP2027
Start Term	Fall 2026
Program Type	Bachelor of Science
Academic Level	Undergraduate
Program Code	BIO SC-BS
Department	Biological Sciences
Discipline	Biological Sciences
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. FS Meeting Agenda
8. Faculty Senate Chair
9. Registrar

Approval Path

1. 12/10/25 4:07 pm
Gina Yosten
(gyxmr): Approved for RBIOLSCI Chair
2. 12/15/25 3:53 pm
Jade McCain
(jm558v): Approved for CCC Secretary
3. 12/19/25 1:35 pm
Katie Shannon
(shannonk): Approved for Sciences DSCC Chair
4. 12/19/25 3:36 pm
Jade McCain
(jm558v): Approved for Pending CCC Agenda post

History

1. Aug 1, 2014 by Katie Shannon
(shannonk)
2. Feb 1, 2016 by imorgan
3. Jun 18, 2018 by Katie Shannon
(shannonk)
4. Jan 30, 2020 by Katie Shannon
(shannonk)
5. Apr 28, 2020 by Katie Shannon
(shannonk)
6. Feb 3, 2021 by Katie Shannon
(shannonk)
7. Jun 14, 2022 by Katie Shannon
(shannonk)
8. Apr 14, 2023 by Katie Shannon
(shannonk)
9. Jun 1, 2023 by Jennifer Pohlsander
(jpnfd)
10. Apr 30, 2024 by Katie Shannon
(shannonk)
11. Oct 25, 2024 by Katie Shannon
(shannonk)
12. Jul 1, 2025 by Katie Shannon
(shannonk)

Biological Sciences BS

CIP Code

Program Requirements and Description

Bachelor of Science

Biological Sciences

Degree Requirements

A minimum of 120 credit hours is required for a Bachelor of Science degree in Biological Science.

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

Humanities and Social Science courses must fulfill the Missouri S&T general education requirements applicable to the student's catalog year.

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

The Biological Science B.S. degree must include 48 semester hours of biological sciences course work, to include:

<u>BIO SCI 1201</u>	Biological Sciences First Year Seminar	1
<u>BIO SCI 1113</u>	General Biology	3
or <u>BIO SCI 1213</u>	Principles of Biology	
<u>BIO SCI 1219</u>	General Biology Lab	1
<u>BIO SCI 1223</u>	Biodiversity	3
<u>BIO SCI 1229</u>	Biodiversity Lab	1
<u>BIO SCI 2213</u>	Cell Biology	3
<u>BIO SCI 2219</u>	Cell Biology Laboratory	1
<u>BIO SCI 2223</u>	General Genetics	3
<u>BIO SCI 2263</u>	Ecology	3
<u>BIO SCI 3233</u>	Evolution	3
<u>BIO SCI 4010</u>	Seminar	1
<u>BIO SCI 4020</u>	<u>Senior Service Project</u>	<u>1</u>
Advanced biological sciences or approved course work in other departments for a total of 48 credit hours of biology-related classes to include at least two laboratory courses from the following:		
<u>BIO SCI 2242</u>	Cave Biology	2
<u>BIO SCI 2252</u>	Vegetation of the Ozarks	2
<u>BIO SCI 2264</u>	Field Ecology	2
<u>BIO SCI 2389</u>	Plant Biology Laboratory	1

<u>BIO SCI 3319</u>	Microbiology Lab	2
<u>BIO SCI 3353</u>	Comparative Vertebrate Anatomy	4
<u>BIO SCI 3359</u>	Physiology Lab	1
<u>BIO SCI 4099</u>	Undergraduate Research (minimum 2 hours)	1-3
<u>BIO SCI 4329</u>	Molecular Genetics Laboratory	2
<u>BIO SCI 4369</u>	Freshwater Ecology Laboratory	1
<u>BIO SCI 5453</u>	Forest Insect Diversity & Ecology	2
<u>BIO SCI 5523</u>	Ichthyology	3
17 semester hours of chemistry to include general chemistry		
<u>CHEM 1310</u>	General Chemistry I	4
<u>CHEM 1319</u>	General Chemistry Laboratory	1
<u>CHEM 1320</u>	General Chemistry II	3
<u>CHEM 1100</u>	Introduction To Laboratory Safety & Hazardous Materials	1
<u>CHEM 2210</u>	Organic Chemistry I	3
<u>CHEM 2219</u>	Organic Chemistry I Lab	1
<u>CHEM 2220</u>	Organic Chemistry II	3
<u>CHEM 2229</u>	Organic Chemistry II Lab	1
2 semesters of College (Engineering) Physics and labs		
<u>PHYSICS 1145</u>	College Physics I	4
or <u>PHYSICS 1135</u>	Engineering Physics I	
<u>PHYSICS 2145</u>	College Physics II	4
or <u>PHYSICS 2135</u>	Engineering Physics II	
Math and Statistics		
<u>STAT 3425</u>	Introduction to Biostatistics	4
<u>MATH 1211</u>	Calculus I-B	4
or <u>MATH 1212</u>	Survey of Calculus	
or <u>MATH 1214</u>	Calculus I	
12 semester hours of humanities, excluding foreign language, and to include:		12

<u>ENGLISH 1120</u> & <u>ENGLISH 1160</u>	Exposition And Argumentation and Writing And Research (entering students will normally take ENGLISH 1120 either semester of the first year)	
9 hours of social sciences, to include:		9
<u>HISTORY 1200</u>	Modern Western Civilization (or equivalent)	
or <u>HISTORY 1300</u>	American History To 1877	
or <u>HISTORY 1310</u>	American History Since 1877	
or <u>POL SCI 1200</u>	American Government	
Elective credits: In consultation with his or her advisor, each student will elect sufficient additional courses to complete a minimum of 120 credit hours.		

Justification for
request

Removing BIO SCI 4010 requirement and replacing with BIO SCI 4020

Attach Budget

System Approval
Letter

MDHE Approval

Supporting
Documents

Reviewer
Comments

Program Change Request

A deleted record cannot be edited

Program Inactivation Proposal

Date Submitted: 11/12/25 2:36 pm

Viewing: **CRTVWR-MI : Creative Writing Minor**

Last approved: 05/18/23 3:39 pm

Last edit: 11/12/25 2:36 pm

Changes proposed by: Mathew Goldberg (goldbergmr)

Catalog Pages Using
this Program

[English and Technical Communication](#)

Final Catalog FS2026-SP2027

Rationale for
Inactivation

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. 11/14/25 1:38 pm
Kathryn Dolan
(dolankc): Approved
for RENGLISH Chair
2. 11/25/25 12:09 pm
Jade McCain
(jm558v): Approved
for CCC Secretary
3. 12/17/25 1:48 pm
Alejandra Sobrado
(asgx4): Approved
for Arts &
Humanities DSCC
Chair
4. 12/19/25 3:37 pm
Jade McCain
(jm558v): Approved
for Pending CCC
Agenda post

History

1. Apr 28, 2014 by
Kristine Swenson
(kswenson)
2. May 7, 2014 by
Lahne Black (lahne)
3. Aug 14, 2014 by
pantaleoa
4. May 18, 2023 by
Jennifer Pohlsander
(jpnfd)

[Created a certificate.](#)

Supporting
Documents

Effective Catalog Edition	FS2026-SP2027
Start Term	
Program Type	
Academic Level	
Program Code	CRTVWR-MI
Department	English & Tech Communication
Discipline	English
Title	
	Creative Writing Minor
CIP Code	

Program Requirements and Description

Creative Writing

The minor requires 12 hours including [ENGLISH 1170](#) Creative Writing. Students are required to take an advanced writing workshop either [ENGLISH 2171](#) Fiction Writing or [ENGLISH 2172](#) Creative Nonfiction Writing. In consultation with the minor advisor, students will select two additional courses, one of which must be at the 3000-level or higher that emphasize literary craft. Suggested Electives: [ENGLISH 2171](#), [ENGLISH 2172](#), [ENGLISH 2247](#), [ENGLISH 3219](#), [ENGLISH 3223](#), [ENGLISH 3226](#), [ENGLISH 3232](#), [ENGLISH 3233](#).

Justification for request

Attach Budget

System Approval Letter

MDHE Approval

Supporting Documents

Reviewer Comments

Program Change Request

Date Submitted: 11/17/25 11:19 am

Viewing: **ES&P-CTU : Environmental Policy Science and Sustainability ~~Policy~~ CTU**

Last approved: 12/20/24 3:00 pm

Last edit: 12/02/25 11:59 am

Changes proposed by: Robin Verble (verbler)

Catalog Pages Using
this Program
[Biological Sciences](#)

Effective Catalog Edition	FS2026-SP2027
Start Term	Fall 2026
Program Type	Certificate
Academic Level	Undergraduate
Program Code	ES&P-CTU
Department	Biological Sciences
Discipline	<u>Environmental</u> Biological Sciences
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. FS Meeting Agenda
8. Faculty Senate Chair
9. Registrar

Approval Path

1. 11/17/25 5:11 pm
Gina Yosten
(gyxmr): Approved for RBIOLSCI Chair
2. 12/03/25 11:58 am
Jade McCain
(jm558v): Approved for CCC Secretary
3. 12/19/25 1:39 pm
Katie Shannon
(shannonk): Approved for Sciences DSCC Chair
4. 12/19/25 3:37 pm
Jade McCain
(jm558v): Approved for Pending CCC Agenda post

History

1. Oct 31, 2023 by
Nancy Winterburg
(nancym)
2. Dec 20, 2024 by
Jade McCain
(jm558v)
3. Dec 20, 2024 by
Jade McCain
(jm558v)
4. Dec 20, 2024 by
Jade McCain
(jm558v)
5. Dec 20, 2024 by
Jade McCain
(jm558v)

Environmental Policy ~~Science~~ and Sustainability ~~Policy~~ CTU

CIP Code 03.0103 - Environmental Studies.

Intended Audience

Main Campus Students

Program-Sp

Admission

Program Requirements and Description

Environmental Science and Policy Undergraduate Certificate

The certificate will offer students across campus an opportunity to gain knowledge and experience in sustainability ~~environmental science~~ and environmental policy. This certificate is open to students from all majors ~~majors~~, and is especially suitable for those interested in adding proficiency and literacy in current environmental issues and sustainable practice to their current major. The certificate 1) exposes students to the Missouri S&T value of environmental sustainability, 2) promotes cross-disciplinary collaboration ~~and thinking~~, and thinking, and 3) expands opportunities to enhance connectivity of social and ~~and~~ political science with traditional STEM disciplines. To receive a Certificate in Environmental Policy and Sustainability, ~~Science & Policy~~, the student must have an average cumulative grade point of 3.0 or better in the certificate courses. Once admitted to the program, a student will be given four ~~three~~ years to complete the program. ~~program.~~ Students must ~~in the Environmental Science degree program will need to~~ take four total courses. ~~6 hours in addition to BIO SCI 1173 and POL SCI 4320; at least one course must come from each topic area.~~ One course must come from each list below with at least two courses at the 3000-level. ;

Required course:		
BIO SCI 1173	Introduction to Environmental Sciences	3
or ENV ENG 2601	Fundamentals of Environmental Engineering and Science	
Required course:		
<u>List 1: Environmental Frameworks</u>		
<u>ENV SCI 1173</u>	<u>Introduction to Environmental Sciences</u>	<u>3</u>
<u>ENV ENG 5642</u>	<u>Sustainability, Population, Energy, Water, and Materials</u>	<u>3</u>
<u>List 2: Science Engineering and Technical Coursework</u>		
<u>ARCH ENG 5448/</u> <u>CIV ENG 5448</u>	<u>Green Engineering: Analysis of Constructed Facilities</u>	<u>3</u>
<u>ARCH ENG 5850</u>	<u>Renewable Energy -PV Fundamentals</u>	<u>3</u>
<u>ARCH ENG 5860</u>	<u>Passive Solar Engineering</u>	<u>3</u>
<u>BIO SCI 2372</u>	Issues in Public Health	3
<u>BIO SCI 3213/</u> <u>ENV SCI 3213</u>	<u>One Health Basics</u>	<u>3</u>
<u>BIO SCI 4563</u>	Global Ecology	3
GEOLOGY 1110	Physical and Environmental Geology	3
ENV ENG 5605	Environmental Systems Modeling	3
GEO ENG 4276	Environmental Aspects Of Mining	
GEO ENG 5233	Risk Assessment In Environmental Studies	3
BIO SCI 4383	Toxicology	3
<u>CHEM ENG 5658</u>	<u>Building Sustainability and Environmental, Social and Governance (ESG)</u>	<u>3</u>
<u>CIV ENG 2601/</u> <u>ENV ENG 2601</u>	<u>Fundamentals of Environmental Engineering and Science</u>	<u>3</u>
<u>ELEC ENG 5150</u>	<u>Photovoltaic Systems Engineering</u>	<u>3</u>
<u>ENV ENG 5650</u>	Public Health Engineering	3
BIO SCI 4313	Introduction to Environmental Microbiology	3
BIO SCI 4363	Freshwater Ecology	3
Select one of the following courses:		

<u>ENG MGT 5513</u>	<u>Energy and Sustainability Management Engineering</u>	<u>3</u>
<u>MECH ENG 5541</u>	<u>Applied Energy Conversion</u>	<u>3</u>
<u>MECH ENG 5543</u>	<u>Energy Efficiency of Vehicles</u>	<u>3</u>
<u>MECH ENG 5566</u>	<u>Solar Energy Technology</u>	<u>3</u>
<u>List 3: Policy and Regulation Coursework</u>		
<u>ENV ENG 5640</u>	Environmental Law And Regulations	3
<u>POL SCI 3300</u>	<u>Principles Of Public Policy</u>	<u>3</u>
<u>POL SCI 4320</u>	The Politics of Innovation	3
Select one of the following courses:		
<u>List 4: Social Sciences and Ethics Coursework</u>		
<u>ECON 4440</u>	Environmental And Natural Resource Economics	3
ECON 4641	Foundations of Sustainability	3
<u>ECON 4540</u>	Energy Economics	3
<u>PHILOS 3277</u>	<u>Wilderness and Its Critics</u>	<u>3</u>
<u>PHILOS 4350</u>	Environmental Ethics and Justice	3
<u>PHILOS 4665</u>	<u>Creating Future Cities</u>	<u>3</u>
<u>HISTORY 4470</u>	<u>American Environmental History</u>	<u>3</u>
To be awarded a certificate in Environmental Science & Policy, a student must complete both core courses and one course from each of the two topic areas.		

Justification for
request

Modifications to certificate curriculum were made to expand certificate reach and add an emphasis on sustainability.

Attach Budget

System Approval
Letter

MDHE Approval

Supporting Documents

[Bio Sci-Env Sci-UGCT-Environmental Science and Policy.pdf](#)
[MS&T PC April 2023.pdf](#)
[Memo to Change and Updates to Certificate.docx](#)
[Bio Sci-Env Sci-UGCT-Environmental Science and Policy2add.docx](#)

[Env Sci UG Certificate Change.pdf](#)

[mod signed env pol cert.docx](#)

[MDHE Receipt_ST UGCRT EnvPolicy Change Title_NOV2025.pdf](#)

Reviewer

Comments

Jade McCain (jm558v) (11/26/25 9:45 am): Attached title change documents.

Jade McCain (jm558v) (12/01/25 11:05 am): Corrected course list to match the approved proposal.

Jade McCain (jm558v) (12/02/25 11:59 am): Removed Pol Sci 3310 and Econ 4641 per department request via email on 12/1/2025.

Program Change Request

Date Submitted: 11/26/25 3:10 pm

Viewing: **GEO ENG-PHD : Geological Engineering PhD**

Last approved: 07/01/20 1:38 pm

Last edit: 12/16/25 8:34 am

Changes proposed by: Jeremy Maurer (jlmd9g)

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

Effective Catalog Edition	FS2026-SP2027
Start Term	Fall 2026
Program Type	Doctor of Philosophy
Academic Level	Graduate
Program Code	GEO ENG-PHD
Department	Earth Sciences and Engineering
Discipline	Geological Engineering
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. 11/26/25 3:20 pm
Stephen Gao (sgao):
Approved for
RGEOENG Chair
2. 12/08/25 10:31 am
Jade McCain
(jm558v): Approved
for CCC Secretary
3. 12/12/25 11:30 am
Theresa Swift
(thswift): Approved
for Engineering
DSCC Chair
4. 12/19/25 3:38 pm
Jade McCain
(jm558v): Approved
for Pending CCC
Agenda post

History

1. Jul 1, 2020 by Leslie Gertsch (gertschl)

Geological Engineering PhD

CIP Code

Program Requirements and Description

Both the PhD and DE programs consist of 72 ~~90~~ credit hours beyond the BS degree or 42 ~~60~~ credit hours beyond the MS degree. If these degrees are not in geological engineering or a related field, remedial courses may be required. No course below the 4000-level ~~5000-level~~ may be applied to the degree requirements. The schedule of course work, research, and/or engineering design is developed by the student in consultation with, and subject to the approval of, their advising committee. There is no foreign language requirement. Details of requirements for this program not covered here can be found in the Academic Program Procedures section of this catalog. In addition to the course requirements and regardless of other degrees held, the PhD student must prepare and defend a comprehensive dissertation based on analytical, numerical, and/or experimental research on an important problem; their solution must add constructively to the body of human knowledge. ~~knowledge. A minimum of 50% of the course work credit hours and the research credit hours completed during the PhD program must be in geological engineering. Enrollment in Geo Eng 6010 (Geological Engineering Graduate Seminar) is required for four semesters. For a student with a MS degree, 30 credit hours from the MS program are accepted toward the PhD requirement. A minimum of 50% of the course work credit hours~~ student holding a BS degree and the research credit hours completed during pursuing the PhD program directly must be in geological engineering. complete 90 total credit hours. Enrollment in Geo Eng 6010 (Geological Engineering Graduate Seminar) is required for four semesters. For a student with a MS degree, 30 credit hours from the MS program are accepted toward the PhD requirement. A student holding a BS degree and pursuing the PhD directly must complete 72 total credit hours. For the self-motivated student with access to an appropriate research project, a geological engineering PhD can be earned online. This option is designed for working professionals who do not wish to take an extended leave of absence from their posts, such as in the military, government, and research sectors.

Justification for
request

Required credits is updated from 90 to 72 for the PhD in Geological Engineering.

Attach Budget

System Approval
Letter

MDHE Approval

Supporting

Documents

Reviewer

Comments

Jade McCain (jm558v) (12/16/25 8:34 am): Changed start term to Fall 2026.

Program Change Request

Date Submitted: 08/20/25 4:37 pm

Viewing: **NU ENG-MS : Nuclear Engineering MS**

Last approved: 07/01/25 11:14 am

Last edit: 10/17/25 12:28 pm

Changes proposed by: Joshua Schlegel (schlegelj)

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

Effective Catalog Edition	FS2026-SP2027
Start Term	Fall 2026
Program Type	Master of Science
Academic Level	Graduate
Program Code	NU ENG-MS
Department	Nuclear Eng & Radiation Sci
Discipline	Nuclear Engineering
Title	

In Workflow

1. **NUC ENG 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. 10/16/25 5:06 pm
Joseph Newkirk (jnewkirk):
Approved for NUC ENG Chair
2. 12/01/25 9:23 am
Jade McCain (jm558v): Approved for CCC Secretary
3. 12/08/25 7:42 am
Theresa Swift (thswift): Approved for Engineering DSCC Chair
4. 12/19/25 3:39 pm
Jade McCain (jm558v): Approved for Pending CCC Agenda post

History

- 1. Apr 17, 2014 by pantaleoa
- 2. Jun 13, 2014 by pantaleoa
- 3. Jul 24, 2015 by pantaleoa
- 4. Dec 4, 2023 by Joshua Schlegel (schlegelj)
- 5. Feb 4, 2025 by Joshua Schlegel (schlegelj)
- 6. Feb 15, 2025 by Crystal Wilson (wilsoncry)
- 7. Jul 1, 2025 by Joshua Schlegel (schlegelj)

Nuclear Engineering MS

CIP Code

Program Requirements and Description

Table 1: Course Requirements for a MS in Nuclear Engineering (Thesis Option)

NUC ENG 3205	Fundamentals of Nuclear Engineering ¹	3
NUC ENG 5203	Reactor Physics I ¹	3
NUC ENG 5241	Nuclear Materials I ¹	3
NUC ENG 5257	Introduction to Nuclear Thermal Hydraulics ¹	3
NUC ENG 5312	Nuclear Radiation Measurements and Spectroscopy ¹	3
<u>5000 Nuclear Engineering Elective</u> ¹		<u>12</u>
<u>6000 Nuclear Engineering Elective</u> ¹		<u>6</u>
<u>Elective</u> ²		<u>5</u>
<u>NUC ENG 6010</u>	Nuclear Engineering Seminar ³	1

5000 Engineering Elective ^{3,4}		3
6000 Engineering Elective ³		3
<u>NUC ENG 6099</u>	Research	6
¹ <u>Nuclear Engineering electives can be any course Nuclear Engineering and Radiation Science Department, excluding 5010 or 6010 course numbers.</u> ² <u>Electives can be Any 3XXX, 4XXX, 5XXX and 6XXX course in the university, including 6099. Cannot have been used towards another degree. Note that 3XXX classes are limited to 6 hours total.</u> 3Engineering electives can be from any department on campus. 1 Students with an undergraduate degree in Nuclear Engineering may have completed some or all of these requirements as part of their previous coursework. In that case, these Core Courses will be replaced by additional Engineering Electives at the 5000 level or above. 2 Students are expected to take two instances of NUC ENG 6010, with 0.5 credits per instance, over two semesters during their MS plan of study. These are negotiated with the student's faculty advisor and should be focused on their area of <u>concentration.</u>		
concentration.		
^{3 2} <u>Students are expected to take two instances of NUC ENG 6010, of NUC ENG 6010, with 0.5 credits per instance, over two semesters during their MS plan of study.</u>		
4 Up to 3 credits of 5000 level Engineering Electives can be replaced by additional credit in 6099: Graduate Research.		
Table 2: Course Requirements for a MS in Nuclear Engineering (Non-Thesis Option)		
NUC ENG 3205	Fundamentals of Nuclear Engineering ¹	3
NUC ENG 5203	Reactor Physics I ¹	3
NUC ENG 5241	Nuclear Materials I ¹	3
NUC ENG 5257	Introduction to Nuclear Thermal Hydraulics ¹	3
NUC ENG 5312	Nuclear Radiation Measurements and Spectroscopy ¹	3
<u>5000 Nuclear Engineering Elective</u> ¹		<u>15</u>
<u>6000 Nuclear Engineering Elective</u> ¹		<u>9</u>
<u>Elective</u> ²		<u>5</u>
<u>NUC ENG 6010</u>	Nuclear Engineering Seminar ³	1
5000 Engineering Elective ³		9
6000 Engineering Elective ³		3
¹ <u>Nuclear Engineering electives can be any course Nuclear Engineering and Radiation Science Department, excluding 5010 or 6010 course numbers.</u> ² <u>Electives can be Any 3XXX, 4XXX, 5XXX and 6XXX course in the university, including 6099. Cannot have been used towards another degree. Note that 3XXX classes are limited to 6 hours total.</u> 3Engineering electives can be from any department on campus. 1 Students with an undergraduate degree in Nuclear Engineering may have completed some or all of these courses as part of their previous coursework. In that case, these Core Courses will		

~~instead be additional Engineering Electives at the 5000 level or above. 2 Students are expected to take two instances of NUC ENG 6010, with 0.5 credits per instance, over two semesters during their MS plan of study.~~
These are negotiated with the student's faculty advisor and should be focused on their area of concentration.
~~concentration.~~
3 Students 2Students are expected to take two instances of NUC ENG 6010, of NUC ENG 6010, with 0.5 credits per instance, over two semesters during their MS plan of study.

Justification for
request

Correcting errors in the previous version.

Attach Budget

System Approval
Letter

MDHE Approval

Supporting
Documents

Reviewer
Comments

Jade McCain (jm558v) (10/17/25 12:26 pm): Changed effective requested date to Fall 2026 per CCC details per CCC deadlines.

Program Change Request

Date Submitted: 11/04/25 8:28 am

Viewing: **NU ENG-PHD : Nuclear Engineering PhD**

Last approved: 07/01/25 11:14 am

Last edit: 12/03/25 2:14 pm

Changes proposed by: Joshua Schlegel (schlegelj)

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

Effective Catalog Edition	FS2026-SP2027
Start Term	Fall 2026
Program Type	Doctor of Philosophy
Academic Level	Graduate
Program Code	NU ENG-PHD
Department	Nuclear Eng & Radiation Sci
Discipline	Nuclear Engineering
Title	

In Workflow

1. **NUC ENG 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. 10/16/25 5:07 pm
Joseph Newkirk (jnewkirk):
Approved for NUC ENG Chair
2. 10/30/25 8:58 am
Jade McCain (jm558v): Rollback to Initiator
3. 12/01/25 4:50 pm
Joseph Newkirk (jnewkirk):
Approved for NUC ENG Chair
4. 12/03/25 12:00 pm
Jade McCain (jm558v): Approved for CCC Secretary
5. 12/12/25 11:30 am
Theresa Swift

(thswift): Approved
for Engineering
DSCC Chair
6. 12/19/25 3:39 pm
Jade McCain
(jm558v): Approved
for Pending CCC
Agenda post

History

1. Dec 4, 2023 by
Joshua Schlegel
(schlegelj)
2. Feb 4, 2025 by
Joshua Schlegel
(schlegelj)
3. Feb 15, 2025 by
Crystal Wilson
(wilsoncry)
4. Jul 1, 2025 by
Joshua Schlegel
(schlegelj)

Nuclear Engineering PhD

CIP Code

Program Requirements and Description

~~The doctoral program will include at least 72 credit hours of total coursework.~~
~~Recommended Plan of Study 1 Students with an undergraduate degree in Nuclear Engineering may have completed some or all of these requirements as part of their previous coursework. In that case, these courses will be replaced by additional Engineering Electives at the 5000 level or above. 2 Students are expected to complete six semesters of seminar, at 0.5 credits per semester. Up to two instances, or one credit, can be included in the 30 credit block awarded to students who have already completed a MS. 3 Engineering electives can be from any department on campus. These are negotiated with the student's faculty advisor and should be focused on their area of concentration. 4 Up to 6 credits of 5000 level Engineering Electives can be replaced by additional credit in NUC ENG 6099: Graduate Research. Students who already hold a master's Master's degree will be required to complete receive a minimum of forty-two hours block of graduate credit. 30 credit hours that will apply toward that requirement. The plan of study (Form 5/5-A) must include a minimum of twelve credit hours of 4000-, 5000-, and 6000-level lecture courses (1000/2000-level courses cannot be included). It is recommended that~~

nine credit hours of the required coursework come from the group of 6000-level lecture courses. Additionally, a minimum of twenty-four credit hours of graduate research is required. A Ph.D. student who holds a master's degree will receive a block of thirty credit hours that can be included on the Form 5/5-A, which will count toward the total seventy-two-hour program requirement.

Students who do not hold a master's degree will be required to complete a minimum of seventy-two hours of graduate credit. The plan of study (Form 5/5-A) must include a minimum of thirty credit hours of 4000-, 5000-, and 6000-level lecture courses (1000/2000-level courses cannot be included). It is recommended that fifteen credit hours of the required coursework come from the group of 6000-level lecture courses. Additionally, a minimum of thirty credit hours of graduate research is required.

Credit from only one master's degree may be included on the doctoral plan of study (Form 5/5-A).

Recommended ~~Recommended~~ Plan of Study

NUC ENG 3205	Fundamentals of Nuclear Engineering ¹	3
NUC ENG 5203	Reactor Physics I ¹	3
NUC ENG 5241	Nuclear Materials I ¹	3
NUC ENG 5257	Introduction to Nuclear Thermal Hydraulics ¹	3
NUC ENG 5312	Nuclear Radiation Measurements and Spectroscopy ¹	3
<u>5000 Nuclear Engineering Elective</u> ¹		<u>15</u>
<u>6000 Nuclear Engineering Elective</u> ¹		<u>15</u>
<u>Elective</u> ²		<u>15</u>
<u>NUC ENG 6010</u>	Nuclear Engineering Seminar ³	3
Math Elective or Comp Sci Elective		6
5000 Engineering Elective ^{3,4}		15
6000 Engineering Elective		9
<u>NUC ENG 6099</u>	Research	24
Total Credits		72

¹ Nuclear Engineering electives can be any course Nuclear Engineering and Radiation Science Department, excluding 5010 or 6010 course numbers.

² Any 3XXX, 4XXX, 5XXX and 6XXX course in the university, including 6099. Cannot have been used towards another degree. Note that 3XXX classes are limited to 6 hours total.

³ Students ~~2Students~~ are expected to complete six semesters of NUC ENG 6010, seminar, at 0.5 credits per semester. Up to two instances, or one credit, can be included in the 30 credit block awarded to students who have already completed a MS.

PhD candidates must also complete a qualifying examination within their first four semesters of study, a comprehensive examination when at least 50% of their coursework is completed, and a final examination where they will present and defend the research included in their dissertation.

There is a residency requirement for the PhD in Nuclear Engineering. Residency at Missouri S&T is defined as sustained intellectual interactions among the student and the academic community. The candidate for a Ph.D. degree will normally complete three years of residency, which is the equivalent of completing six academic semesters while enrolled as an on-campus student at Missouri S&T. Students holding a master's degree are automatically credited with two semesters of residency. Students unable to meet the residency requirement given above, such as distance students, can meet this requirement through an alternative route in consultation with their advisor.

Justification for
request

Correcting errors in the previous version.

Attach Budget

System Approval
Letter

MDHE Approval

Supporting
Documents

Reviewer
Comments

Jade McCain (jm558v) (10/30/25 8:58 am): Rollback: Rollback per does not meet the minimum requirements and does not address requirements for students with a Master's degree.

Jade McCain (jm558v) (12/03/25 2:03 pm): Changed start term to Fall 2026.

Jade McCain (jm558v) (12/03/25 2:14 pm): Corrected formatting.

Program Change Request

New Program Proposal

Date Submitted: 11/13/25 10:28 am

Viewing: **PROPOSED : Creative Writing CTU**

Last edit: 12/05/25 1:30 pm

Changes proposed by: Kathryn Dolan (dolankc)

Effective Catalog Edition	FS2026-SP2027
Start Term	Fall 2026
Program Type	Certificate
CIM Prospectus	
Academic Level	Undergraduate
Program Code	PROPOSED
Department	English & Tech Communication
Discipline	English
Offered by	
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. ProvostOffice
10. Registrar

Approval Path

1. 11/06/25 11:36 am
Kathryn Dolan (dolankc): Approved for REGLISH Chair
2. 11/07/25 3:45 pm
Crystal Wilson (wilsoncry): Rollback to Initiator
3. 11/13/25 10:37 am
Kathryn Dolan (dolankc): Approved for REGLISH Chair
4. 12/05/25 1:31 pm
Jade McCain (jm558v): Approved for CCC Secretary
5. 12/17/25 1:50 pm
Alejandra Sobrado (asgx4): Approved

for Arts &
Humanities DSCC
Chair

6. 12/19/25 3:39 pm

Jade McCain
(jm558v): Approved
for Pending CCC
Agenda post

Creative Writing CTU

CIP Code

Purpose

Intended Audience

Distance (online) Students

Main Campus Students

Program-Specific

Admission

Program Requirements and Description

This certificate is designed to help students develop both their reading and their creative writing skills. Students will discuss the creative process, study examples of well-crafted poems, stories, and narrative essays, and develop their own ideas and techniques. Literary journals and the publication process will be discussed.

The Creative Writing certificate features a community approach where students receive feedback on their work from both peers and instructors with a focus on revision. At the completion of the certificate, a student will have their own portfolio of original, revised, creative work.

Students will be able to respectfully and insightfully respond to their peers' work, use craft and style choices to find one's original voice, be able to analyze the use of craft and style choices and how they affect a piece of writing, understand the purpose of and utilize creative writing techniques, engage in deep revision, analyze the writing techniques of published authors, engage productively with their peers in the classroom writing community, and produce polished poems, stories, and/or narrative essays.

Required

<u>ENGLISH 1170</u>	Creative Writing	3
<u>ENGLISH 2171</u>	Fiction Writing	3
<u>ENGLISH 2172</u>	Creative Nonfiction Writing	3

At least one of:		
<u>ENGLISH 2230</u>	Literature And Film	3
<u>ENGLISH 2232</u>	Comics and Graphic Novels	3
<u>ENGLISH 2240</u>	Children's Literature	3
<u>ENGLISH 2241</u>	Young Adult Literature	3
<u>ENGLISH 2243</u>	Science Fiction	3
<u>ENGLISH 2244</u>	Fantasy Literature	3
<u>ENGLISH 2247</u>	American Crime And Detective Fiction	3
<u>ENGLISH 2248</u>	Thematic Studies in Literature and Film	3
<u>ENGLISH 3227</u>	American Gothic	3
<u>ENGLISH 3234</u>	Myth & Folklore	3
<u>ENGLISH 3236</u>	Tolkien & Lewis	3

Justification for
request

Create new certificate from preexisting minor

Attach Budget

System Approval
Letter

MDHE Approval

Supporting Documents [New UGrad Certificate Proposal.doc](#)
[Program Change \(PC\) Form Creative Writing ETC.docx](#)
[Raper email cw cert approval.pdf](#)

Reviewer

Comments

Crystal Wilson (wilsoncry) (11/07/25 3:44 pm): Added the word PROPOSED to the Program Code field.

Crystal Wilson (wilsoncry) (11/07/25 3:45 pm): Rollback: Need program change form and approval memos per the undergraduate certificate approval process. Also, need courses listed out for the certificate per the attached supporting documents.

Jade McCain (jm558v) (12/05/25 1:30 pm): Provost's Office approved the discrepancies of missing and additional courses per the approved proposal document via email on 12/4/2025.

Program Change Request

Date Submitted: 09/24/25 9:19 am

Viewing: **PSYCH-BA : Psychological Science BA**

Last approved: 07/17/25 3:10 pm

Last edit: 12/17/25 3:23 pm

Changes proposed by: Clair Kueny (reynoldscla)

Catalog Pages Using
this Program
[Psychological Science](#)

Effective Catalog Edition	FS2026-SP2027
Start Term	Fall 2026
Program Type	Bachelor of Arts
Academic Level	Undergraduate
Program Code	PSYCH-BA
Department	Psychological Science
Discipline	Psychology
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. FS Meeting Agenda
8. Faculty Senate Chair
9. Registrar

Approval Path

1. 09/24/25 9:39 am
Clair Kueny (reynoldscla):
Approved for RPSYCHOL Chair
2. 10/14/25 11:32 am
Jade McCain (jm558v): Rollback to RPSYCHOL Chair for CCC Secretary
3. 12/04/25 2:15 pm
Clair Kueny (reynoldscla):
Approved for RPSYCHOL Chair
4. 12/04/25 2:38 pm
Jade McCain (jm558v): Rollback to RPSYCHOL Chair for CCC Secretary

5. 12/04/25 2:42 pm
Clair Kueny
(reynoldscla):
Approved for
RPSYCHOL Chair
6. 12/08/25 9:23 am
Jade McCain
(jm558v): Approved
for CCC Secretary
7. 12/08/25 10:40 am
Cecil Eng Huang
Chua (cchua):
Approved for Social
Sciences DSCC Chair
8. 12/19/25 3:39 pm
Jade McCain
(jm558v): Approved
for Pending CCC
Agenda post

History

1. Aug 4, 2014 by
Nancy Stone
(nstone)
2. Mar 20, 2015 by
Nancy Stone
(nstone)
3. Jun 19, 2015 by
Nancy Stone
(nstone)
4. Jul 21, 2015 by
pantaleoa
5. Jun 28, 2017 by
Nathan Weidner
(weidnern)
6. Jun 14, 2019 by
Susan Murray
(murray)
7. Jul 1, 2020 by Devin
Burns (burnsde)

8. Mar 4, 2021 by
Devin Burns
(burnsde)
9. May 5, 2021 by
Devin Burns
(burnsde)
10. Feb 25, 2022 by
Devin Burns
(burnsde)
11. Apr 14, 2023 by
Devin Burns
(burnsde)
12. Oct 17, 2023 by
Devin Burns
(burnsde)
13. Jul 5, 2024 by
Crystal Wilson
(wilsoncry)
14. Oct 25, 2024 by
Devin Burns
(burnsde)
15. Jul 1, 2025 by
Crystal Wilson
(wilsoncry)
16. Jul 17, 2025 by
Crystal Wilson
(wilsoncry)

Psychological Science BA

CIP Code 42.0101 - Psychology, General.

Program Requirements and Description

Bachelor of Arts

Psychological Science

A minimum of 120 credit hours is required for a bachelor of arts degree in psychological science and a cumulative ~~an average of at least two~~ grade point average of 2.0 ~~points per credit hour~~ must be obtained. The psychological science B.A. curriculum requires 6 hours of English composition, 10 ~~Composition, 14~~ hours of math and science,

12 ~~semester~~ hours in humanities, 12 ~~semester~~ hours ~~is required~~ in social sciences, 12-16 hours of foreign ~~language, language~~ and a minimum of 35 hours ~~are required~~ in psychology courses. ~~psychology~~. Up to 12 credit hours of advanced ROTC may be credited toward the degree. Specific requirements for the bachelor of arts degree are outlined in the sample program listed below. Additionally, students must complete all general education requirements as stated in the catalog, and as applicable to the student's catalog year. These requirements are built into the degree program.

ENGLISH 1120 and ENGLISH 1160 ~~one additional three hour composition course~~ (6 hours).

Western civilization (HISTORY 1100 and HISTORY 1200) ~~HISTORY 1200~~ (6 hours).

Foreign languages for at least 3 semesters of basic study in French, German, Russian, Spanish or an approved substitute; or one year of basic study in a foreign language in either French, German, Russian, Spanish, or an approved substitute, and a humanities or social sciences course taught in a foreign country and employing the language of that country; or one year of basic study in each of two of the foreign languages of French, German, Russian or Spanish or an approved substitute (12-16 hours).

~~Sciences.~~ Science and math courses should include at ~~At~~ least one course taken in biological (biological sciences) ~~and physical (chemistry, geology~~ and one course completed in physical (chemistry, geology, geophysics, physics) sciences. A laboratory course is required. STAT 1115 is also required (10 hours).

~~A laboratory course is required (and a lab offered in engineering also may count at the discretion of the student's major advisor) toward the total requirement. STAT 1115 is required, and an additional elective in Science or Math (14 hours). Humanities and fine arts.~~ Humanities and fine arts courses ~~Courses~~ used to satisfy this requirement

must include one course in each of the three areas of literature (English or American), philosophy, and fine arts ~~and fine arts~~ (art, music or theater), but not to include studio and ~~and~~ performance offerings (12 hours).

~~Social Sciences.~~ Social Science courses should include at ~~At~~ least two of the following social science areas: ~~areas are to be included:~~ economics, political science, or history (6 hours).

Psychology Courses (35 hours)

Required:*

General Skills Courses:

<u>PSYCH 1100</u>	Introduction to Psychology	1
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<u>PSYCH 1101</u>	General Psychology	3
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<u>PSYCH 2200</u>	Research Methods	4
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Content Courses:

<u>PSYCH 3310</u>	Developmental Psychology	3
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<u>PSYCH 4400</u>	Cognitive Psychology	3
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<u>PSYCH 4501</u>	Abnormal Psychology	3
-------------------	---------------------	---

<u>PSYCH 4600</u>	Social Psychology	3
-------------------	-------------------	---

And one of the following 2 courses:

PSYCH 4410	Neuroscience	3
PSYCH 4411	Sensation and Perception	3
Capstone Course:		
Select three credit hours from the Capstone courses:		
PSYCH 4995	Rationality	3
PSYCH 4720	Psychology of Social Technology	3
PSYCH 4590	Health Psychology	3
PSYCH 4992	Cross-Cultural Psychology	3
PSYCH 4993	Psychology of Gender	3
PSYCH 4990	Internship	0-6
PSYCH 4099	Undergraduate Research	0-6
*These required courses total 26 hours.		
Elective Courses:		
Select an additional 9 hours of psychology electives to complete the 35 hour degree requirement.		
Major-field requirements: A cumulative grade point average of 2.0 must be earned in all course work taken in the major field. Upper-class (3000-4000-level) courses completed with grades of "D" may not be included in the course work for the major field without the approval of the chair of the department. At least nine hours of upper-class work in the major field must be completed in residence at Missouri S&T.		
Minor: A minor will be selected from any discipline other than the major with the approval of the student's advisor. A total of at least 15 hours is required for the minor, but may include courses which also satisfy other requirements. At least nine hours must be beyond the introductory <u>level</u> .		
level. A cumulative grade point average of 2.0 must be earned in all course work required in the minor field. At least six hours of work in the minor field must be completed in residence at Missouri S&T.		
Basic ROTC may be elected in the freshman and sophomore years, but is not creditable toward a degree. Up to 12 credit hours of advanced ROTC may be credited toward a degree.		
Elective Credits: In consultation with his/her advisor, each student will <u>select</u> elect sufficient additional courses to complete a minimum of 120 credit hours.		
Industrial/Organizational Psychology		
PSYCH 4700	Industrial Psychology	3
PSYCH 4602	Organizational Psychology	3
And 2 of the following 4:		
PSYCH 4500	Personality Theory	3

PSYCH 4600	Social Psychology	3
PSYCH 4601	Group Dynamics	3
PSYCH 4610	Psychology of Leadership in Organizations	3
Health Psychology		
PSYCH 4590	Health Psychology	3
And 3 of the following 4:		
PSYCH 4501	Abnormal Psychology	3
PSYCH 3501	Drugs and Behavior	3
PSYCH 4510	Clinical Psychology	3
PSYCH 4990	Internship	0-6
Cognition and Neuroscience		
PSYCH 4400	Cognitive Psychology	3
PSYCH 4410	Neuroscience	3
And 2 of the following 3:		
PSYCH 4411	Sensation and Perception	3
PSYCH 3501	Drugs and Behavior	3
PSYCH 4501	Abnormal Psychology	3
Human Factors		
PSYCH 4400	Cognitive Psychology	3
PSYCH 4710	Human Factors	3
And 2 of the following 3:		
PSYCH 4720	Psychology of Social Technology	3
PSYCH 4411	Sensation and Perception	3
PSYCH 4700	Industrial Psychology	3
Diversity and Inclusion		
PSYCH 4600	Social Psychology	3
And 3 of the following 4:		
PSYCH 4993	Psychology of Gender	3

PSYCH 4500	Personality Theory	3
PSYCH 4992	Cross-Cultural Psychology	3
PSYCH 4310	Psychology Of The Exceptional Child	3

~~Emphasis Areas Note: The following areas identify courses from which a student may opt to develop an emphasis area. It is not required that students obtain an emphasis specialty within psychological science. At least one class for each emphasis area is already required for all majors, so the remaining three may be taken as the additional 9 hours of required psychology electives. In this way, getting an emphasis requires no additional courses, just less flexibility in which courses you take.~~

Bachelor of Arts Psychological Science (Secondary Education Emphasis Area)

You may earn a B.A. degree in psychological science from Missouri S&T and certification to teach at the secondary level in the schools of Missouri with the secondary education emphasis area program.

To be eligible for student teaching and certification, students must have a 2.5 content GPA and a 3.0 education GPA. Students must also pass the appropriate content assessment. Missouri S&T allows students to choose their student teaching placement, if the district agrees and a qualified cooperating teacher is available. This program is approved by the Missouri Department of Elementary and Secondary Education. License reciprocity determinations outside of Missouri can be found at <https://teaching.missouri.edu/student/state-authorization/mst/licensure>.

A degree with this emphasis area requires 122 credit hours. The required courses are provided below.

Communications Skills: 6 semester hours		
<u>ENGLISH 1120</u>	Exposition And Argumentation	3
<u>ENGLISH 1160</u>	Writing And Research	3
Humanities: 9 semester hours		

<u>ART 1180</u>	Art Appreciation	3
or <u>MUSIC 1150</u>	Music Appreciation	
or <u>THEATRE 1150</u>	Theatre for Social Change	
Philosophy course		3
<u>ENGLISH 1211</u>	British Literature I: The Beginnings To 1800	3
or <u>ENGLISH 1212</u>	British Literature II 1800 To Present	
or <u>ENGLISH 1221</u>	American Literature: 1600 To 1865	
or <u>ENGLISH 1222</u>	American Literature: 1865 To Present	
or <u>ENGLISH 1231</u>	World Literature I: From The Beginnings To The Renaissance	
Social Sciences: 21 semester hours		
<u>HISTORY 1300</u>	American History To 1877	3
<u>HISTORY 1310</u>	American History Since 1877	3
<u>POL SCI 1200</u>	American Government	3
<u>POL SCI 3211</u>	American Political Parties	3
or <u>POL SCI 3300</u>	Principles Of Public Policy	
or <u>POL SCI 3760</u>	The American Presidency	
or <u>POL SCI 3763</u>	Contemporary Political Thought	
<u>PSYCH 1101</u>	General Psychology	3
<u>ECON 1100</u>	Principles Of Microeconomics	3
or <u>ECON 1200</u>	Principles Of Macroeconomics	
Geography		3
Natural Science/Mathematics: 13 semester hours		
One course in Physics, Chemistry or Geology		3
Natural Sciences Lab		1
Mathematics 1120, 1103, 1140+		3
<u>STAT 1115</u>	Statistics For The Social Sciences I	3
<u>BIO SCI 1113</u>	General Biology	3
Professional Requirements: 25 semester hours		

<u>EDUC 1074</u>	Foundations of Education in a Diverse Society	3
<u>EDUC 2251</u>	Historical Foundation Of American Education	3
<u>EDUC 3170</u>	Teaching Reading and Writing in Middle/High School	3
<u>EDUC 3340</u>	<u>Assessment of Student Learning</u>	<u>3</u>
<u>EDUC 3216</u>	Instructional Literacy in the Content Area	3
<u>EDUC 3280</u>	Instructional Strategies in the Content Area	3
<u>EDUC 4298</u>	Student Teaching Seminar	1
<u>PSYCH 2300</u>	Educational Psychology	3
<u>PSYCH 3311</u>	Psychological & Educational Development Of The Adolescent	3
<u>PSYCH 4310</u>	Psychology Of The Exceptional Child	3
Clinical Experience: 16 semester hours		
<u>EDUC 1104</u>	Teacher Field Experience I	1
<u>EDUC 1164</u>	Teacher Field Experience II	2
<u>EDUC 3298</u>	Teacher Field Experience III	1
<u>EDUC 4299</u>	Student Teaching	12
Psychology Degree Requirements: 17 semester hours		
<u>PSYCH 1100</u>	Introduction to Psychology	1
<u>PSYCH 2200</u>	Research Methods	4
<u>PSYCH 3310</u>	Developmental Psychology	3
<u>PSYCH 4400</u>	Cognitive Psychology	3
<u>PSYCH 4501</u>	Abnormal Psychology	3
<u>PSYCH 4600</u>	Social Psychology	3
Certification: 15 semester hours		
6 hours of American History from the following:		
<u>HISTORY 3320</u>	Colonial America	
<u>HISTORY 3325</u>	Revolutionary America, 1754-1789	
<u>HISTORY 3340</u>	Age Of Jefferson And Jackson	
<u>HISTORY 3345</u>	Civil War And Reconstruction	

<u>HISTORY 3360</u>	Recent United States History
<u>HISTORY 3425</u>	History Of The Old South
<u>HISTORY 3426</u>	History Of The Modern South
<u>HISTORY 3480</u>	History Of Baseball
<u>HISTORY 3440</u>	Grunts: 20th Century Americans In Combat
<u>HISTORY 3442</u>	The United States in Vietnam
<u>HISTORY 3761</u>	U.S. Diplomatic History to World War II
<u>HISTORY 4435</u>	History of the American West
9 hours of World History from the following:	
<u>HISTORY 1100</u>	Early Western Civilization
<u>HISTORY 1200</u>	Modern Western Civilization
<u>HISTORY 2220</u>	Making Of Modern Britain
<u>HISTORY 2222</u>	The Making Of Modern France
<u>HISTORY 2224</u>	Making Of Modern Russia
<u>HISTORY 3130</u>	Medieval History I
<u>HISTORY 3135</u>	Medieval History II
<u>HISTORY 3140</u>	History Of Renaissance Thought
<u>HISTORY 3230</u>	Europe In The Age Of The French Revolution And Napoleon
<u>HISTORY 3235</u>	Foundations Of Contemporary Europe 1815-1914
<u>HISTORY 3240</u>	Contemporary Europe
<u>HISTORY 3660</u>	Modern East Asia

Justification for
request

Now that a general education curriculum has been approved by the University, we are updating our degree programs to better align with that curriculum. In the Psych BA, we will now require fewer science/math courses to align with the 10 credit minimum outlined in the general education requirements. We also now include English 1160 as a required composition course (in addition to English 1120) as it will ensure our students meet both general education requirements and our composition requirements, and will minimize advisor/advisee confusion when deciding on the communication/composition courses to complete. We removed the emphasis areas because, as of Fall 2025, we have successfully launched our

certificates (which were essentially our emphasis areas restructured to serve as certificates) and so the duplication is no longer needed. Having only certificates will streamline our catalog offerings for students and reduce confusion.

In the Psych BA Secondary Edu emphasis area, we replaced Edu 2251 with Edu 3340 to better align with the Education Department's and DESE's recommendations for the professional requirements curriculum in this degree plan. This change was approved by the Education Department Chair.

All other edits were editorial to clarify language and reduce redundant information that is available elsewhere in the undergraduate catalog.

Attach Budget

System Approval
Letter

MDHE Approval

Supporting

[Psych-Title Change-Psychogocial Sciences.pdf](#)

Documents

[MS&T PC April 2023 Approval Degree Change Name.pdf](#)

[Email thread confirming change to Psych Science.pdf](#)

[Psychological Science Department Approval.pdf](#)

[Curriculum Before and After BA Psych Sci.docx](#)

[Program Change \(PC\) Form Removing Emphasis Areas Psych BA.docx](#)

[Program Change \(PC\) Form Removing Emphasis Areas Psych BA.pdf](#)

Reviewer

Comments

Jade McCain (jm558v) (10/14/25 11:32 am): Rollback: Rollback per needs required approval paperwork for revisions to emphasis area.

Jade McCain (jm558v) (12/04/25 2:38 pm): Rollback: Rollback per department request.

Jade McCain (jm558v) (12/08/25 9:17 am): Added signed PC form.

Crystal Wilson (wilsoncry) (12/17/25 3:23 pm): Updated language to align with language for general education.

Program Change Request

Date Submitted: 09/24/25 9:39 am

Viewing: **PSYCH-BS : Psychological Science BS**

Last approved: 08/27/25 2:44 pm

Last edit: 12/17/25 3:24 pm

Changes proposed by: Clair Kueny (reynoldscla)

Catalog Pages Using
this Program

[Psychological Science](#)

Effective Catalog Edition	FS2026-SP2027
Start Term	Fall 2026
Program Type	Bachelor of Science
Academic Level	Undergraduate
Program Code	PSYCH-BS
Department	Psychological Science
Discipline	Psychology
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. FS Meeting Agenda
8. Faculty Senate Chair
9. Registrar

Approval Path

1. 09/24/25 9:39 am
Clair Kueny (reynoldscla):
Approved for RPSYCHOL Chair
2. 10/14/25 11:32 am
Jade McCain (jm558v): Rollback to RPSYCHOL Chair for CCC Secretary
3. 12/04/25 2:22 pm
Clair Kueny (reynoldscla):
Approved for RPSYCHOL Chair
4. 12/12/25 1:18 pm
Jade McCain (jm558v): Approved for CCC Secretary
5. 12/16/25 2:43 pm

Cecil Eng Huang
Chua (cchua):
Approved for Social
Sciences DSCC Chair

6. 12/19/25 3:39 pm

Jade McCain
(jm558v): Approved
for Pending CCC
Agenda post

History

1. May 6, 2014 by
Nancy Stone
(nstone)
2. Jul 8, 2014 by
pantaleoa
3. Jul 8, 2014 by
pantaleoa
4. Mar 20, 2015 by
Nancy Stone
(nstone)
5. Jun 19, 2015 by
Nancy Stone
(nstone)
6. Jul 21, 2015 by
pantaleoa
7. Jun 28, 2017 by
Nathan Weidner
(weidnern)
8. Jun 14, 2019 by
Susan Murray
(murray)
9. Jul 1, 2020 by Devin
Burns (burnsde)
10. Mar 4, 2021 by
Devin Burns
(burnsde)
11. May 5, 2021 by
Devin Burns
(burnsde)

12. Feb 25, 2022 by
Devin Burns
(burnsde)
13. Apr 14, 2023 by
Devin Burns
(burnsde)
14. Oct 17, 2023 by
Devin Burns
(burnsde)
15. Jul 5, 2024 by
Crystal Wilson
(wilsoncry)
16. Oct 25, 2024 by
Devin Burns
(burnsde)
17. Jul 1, 2025 by
Crystal Wilson
(wilsoncry)
18. Jul 14, 2025 by
Crystal Wilson
(wilsoncry)
19. Aug 27, 2025 by
Crystal Wilson
(wilsoncry)

Psychological Science BS

CIP Code 42.0101 - Psychology, General.

Program Requirements and Description

Bachelor of Science Psychological Science

A minimum of 120 credit hours is required for a bachelor of science degree in psychological science and a cumulative grade point average of 2.0 must be obtained. These requirements for the B.S. degree are in addition to credit received for basic ROTC.

The psychological science bachelor of science curriculum requires 6 ~~six~~ hours of English composition; 23 ~~twenty~~ hours of math, science, and/or ~~science and~~ computer science; 12 ~~twelve semester~~ hours in the humanities; and 12 ~~twelve semester~~ hours in ~~the~~ social sciences. Specific requirements for the bachelor degree are outlined in the

sample program listed below. Additionally, students must complete all general education requirements as stated in the catalog, and as applicable to the student's catalog year. These requirements are built into the degree program.

ENGLISH 1120 and ENGLISH 1160 ~~(entering students will normally take ENGLISH 1120 either semester of the first year.)~~ (6 hours)

Science and math courses should A total 23 ~~of 20~~ hours in biological, physical, (chemistry, geology, ~~geology and geophysics~~, and physics), and mathematical (mathematics/statistics and computer science or information science & technology) sciences, to include at least one course taken in the biological and one in the physical sciences. Of the biological and physical science offerings, at least one must be a laboratory course. STAT 1115 is required. Engineering courses may, at the discretion of the student's major advisor, also count toward this total requirement. 23 ~~(20)~~ hours)

Humanities ~~12 hours in humanities~~ and fine arts courses can include literature, ~~(literature~~, philosophy, art, music, or theater. ~~theater)~~. Foreign language courses may count toward fulfilling this requirement. Courses used to satisfy this requirement must be taken in at least two humanities areas. (12 hours)

Social ~~12 hours in at least two social~~ sciences courses should include courses from at least two social science areas (economics ~~fields outside the major area (economics~~ or history or political science) outside the major area. ~~science)~~. A course in Modern Western Civilization (HISTORY 1200), American History To 1877 (HISTORY 1300) or American History Since 1877 (HISTORY 1310), or American Government (POL SCI 1200) must be taken to satisfy the requirement of the state of Missouri (the "Williams Law"), and this course may count toward fulfilling the social sciences requirement. (12 hours)

Psychology Courses (35 hours)

Required:*

General Skills Courses:

<u>PSYCH 1100</u>	Introduction to Psychology	1
<u>PSYCH 1101</u>	General Psychology	3
<u>PSYCH 2200</u>	Research Methods	4

Content Courses:

<u>PSYCH 3310</u>	Developmental Psychology	3
<u>PSYCH 4400</u>	Cognitive Psychology	3
<u>PSYCH 4501</u>	Abnormal Psychology	3
<u>PSYCH 4600</u>	Social Psychology	3

And one of the following 2 courses:

<u>PSYCH 4410</u>	Neuroscience	3
<u>PSYCH 4411</u>	Sensation and Perception	3

Capstone Course:		
Select three credit hours from the following Capstone courses:		
PSYCH 4995	Rationality	3
PSYCH 4720	Psychology of Social Technology	3
PSYCH 4590	Health Psychology	3
PSYCH 4992	Cross-Cultural Psychology	3
PSYCH 4993	Psychology of Gender	3
PSYCH 4990	Internship	0-6
PSYCH 4099	Undergraduate Research	0-6
*These required courses total 26 hours.		
Elective Courses:		
Select an additional 9 hours of psychology electives to complete the 35 hour degree requirement.		
<u>Major-field requirements: A cumulative grade point average of 2.0 must be earned in all course work taken in the major field. Upper class (3000-level and above) courses completed with grades of "D" may not be included in the course work for the major field without the approval of the advisor and the chair of the department concerned.</u>		
Minor: A minor will be selected from any discipline other than the major with the approval of the student's advisor. A total of at least 15 hours is required for the minor, but may include courses which also satisfy other requirements. At least nine hours must be beyond the introductory level.		
Basic ROTC may be elected in the freshman and sophomore years, but is not creditable toward a degree. Six credit hours of advanced ROTC may be credited toward a degree.		
Elective Credits: In consultation with his/her advisor, each student will elect sufficient additional courses to complete a minimum of 120 credit <u>hours.</u> hours which may include MATH 1160 and one of MATH 1120 or MATH 1140.		
A cumulative grade point average of 2.0 must be earned in all course work taken in the major field. Upper class (3000-level and above) courses completed with grades of "D" may not be included in the course work for the major field without the approval of the advisor and the chair of the department concerned.		
Emphasis Areas		
Note: The following areas identify courses from which a student may opt to develop an emphasis area. It is not required that students obtain an emphasis specialty within psychological science. At least one class for each emphasis area is already required for all majors, so the remaining three may be taken as the additional 9 hours of required psychology electives. In this way, getting an emphasis requires no additional courses, just less flexibility in which courses you take.		
Industrial/Organizational Psychology		
PSYCH 4700	Industrial Psychology	3
PSYCH 4602	Organizational Psychology	3

And 2 of the following 4:		
PSYCH 4600	Social Psychology	3
PSYCH 4601	Group Dynamics	3
PSYCH 4500	Personality Theory	3
PSYCH 4610	Psychology of Leadership in Organizations	3
Health Psychology		
PSYCH 4590	Health Psychology	3
And 3 of the following 4:		
PSYCH 4501	Abnormal Psychology	3
PSYCH 4510	Clinical Psychology	3
PSYCH 3501	Drugs and Behavior	3
PSYCH 4990	Internship	0-6
Cognition and Neuroscience		
PSYCH 4400	Cognitive Psychology	3
PSYCH 4410	Neuroscience	3
And 2 of the following 3:		
PSYCH 4411	Sensation and Perception	3
PSYCH 3501	Drugs and Behavior	3
PSYCH 4501	Abnormal Psychology	3
Human Factors		
PSYCH 4400	Cognitive Psychology	3
PSYCH 4710	Human Factors	3
And 2 of the following 3:		
PSYCH 4720	Psychology of Social Technology	3
PSYCH 4700	Industrial Psychology	3
PSYCH 4411	Sensation and Perception	3
Diversity and Inclusion		
PSYCH 4600	Social Psychology	3

And 3 of the following 4:		
PSYCH 4993	Psychology of Gender	3
PSYCH 4992	Cross-Cultural Psychology	3
PSYCH 4310	Psychology Of The Exceptional Child	3
PSYCH 4500	Personality Theory	3
Bachelor of Science Psychological Science (Secondary Education Emphasis Area) You may earn a B.S. degree in psychological science from Missouri S&T and certification to teach at the secondary level in the schools of Missouri with the secondary education emphasis area program. To be eligible for student teaching and certification, students must have a 2.5 content GPA and a 3.0 education GPA. Students must also pass the appropriate content assessment. Missouri S&T allows students to choose their student teaching placement, if the district agrees and a qualified cooperating teacher is available. This program is approved by the Missouri Department of Elementary and Secondary Education. License reciprocity determinations outside of Missouri can be found at https://teaching.missouri.edu/student/state-authorization/mst/licensure. A degree with this emphasis area requires 122 credit hours. The required courses are provided below.		
Communications Skills: 6 semester hours		
ENGLISH 1120	Exposition And Argumentation	3
ENGLISH 1160	Writing And Research	3
Humanities: 6 semester hours		
6 Credits in Humanities & Fine Arts, selected from two disciplines across		
ART 1180	Art Appreciation	3
or MUSIC 1150	Music Appreciation	
or THEATRE 1150	Theatre for Social Change	
or ENGLISH 1211	British Literature I: The Beginnings To 1800	
or ENGLISH 1212	British Literature II 1800 To Present	
or ENGLISH 1221	American Literature: 1600 To 1865	
or ENGLISH 1222	American Literature: 1865 To Present	
or ENGLISH 1231	World Literature I: From The Beginnings To The Renaissance	
Social Sciences: 21 semester hours		
HISTORY 1300	American History To 1877	3
HISTORY 1310	American History Since 1877	3
POL SCI 1200	American Government	3

POL SCI 3211	American Political Parties	3
or POL SCI 3300	Principles Of Public Policy	
or POL SCI 3760	The American Presidency	
or POL SCI 3763	Contemporary Political Thought	
PSYCH 1101	General Psychology	3
ECON 1100	Principles Of Microeconomics	3
or ECON 1200	Principles Of Macroeconomics	
HISTORY 2110	World Regional Geography	3
Natural Sciences/Mathematics: 16 semester hours		
One course in Physics, Chemistry or Geology		3
Natural Sciences Lab		1
Mathematics 1120, 1140+		3
BIO SCI 1113	General Biology	3
STAT 1115	Statistics For The Social Sciences I	3
3 additional hours of Math &/or Science courses		3
Professional Requirements: 25 semester hours		
EDUC 1074	Foundations of Education in a Diverse Society	3
EDUC 2251	Historical Foundation Of American Education	3
EDUC 3170	Teaching Reading and Writing in Middle/High School	3
EDUC 3216	Instructional Literacy in the Content Area	3
EDUC 3280	Instructional Strategies in the Content Area	3
EDUC 4298	Student Teaching Seminar	1
PSYCH 2300	Educational Psychology	3
PSYCH 3311	Psychological & Educational Development Of The Adolescent	3
PSYCH 4310	Psychology Of The Exceptional Child	3
Clinical Experience: 16 semester hours		
EDUC 1104	Teacher Field Experience I	1
EDUC 1164	Teacher Field Experience II	2

EDUC 3298	Teacher Field Experience III	1
EDUC 4299	Student Teaching	12
Psychology Degree Requirements: 17 semester hours		
PSYCH 1100	Introduction to Psychology	1
PSYCH 2200	Research Methods	4
PSYCH 3310	Developmental Psychology	3
PSYCH 4400	Cognitive Psychology	3
PSYCH 4501	Abnormal Psychology	3
PSYCH 4600	Social Psychology	3
Certification: 15 semester hours		
6 hours of American History from the following:		
HISTORY 3320	Colonial America	
HISTORY 3325	Revolutionary America, 1754-1789	
HISTORY 3340	Age Of Jefferson And Jackson	
HISTORY 3345	Civil War And Reconstruction	
HISTORY 3360	Recent United States History	
HISTORY 3425	History Of The Old South	
HISTORY 3426	History Of The Modern South	
HISTORY 3480	History Of Baseball	
HISTORY 3440	Grunts: 20th Century Americans In Combat	
HISTORY 3442	The United States in Vietnam	
HISTORY 3761	U.S. Diplomatic History to World War II	
HISTORY 4435	History of the American West	
9 hours of World History from the following:		
HISTORY 1100	Early Western Civilization	
HISTORY 1200	Modern Western Civilization	
HISTORY 2220	Making Of Modern Britain	
HISTORY 2222	The Making Of Modern France	

HISTORY 2224	Making Of Modern Russia
HISTORY 3130	Medieval History I
HISTORY 3135	Medieval History II
HISTORY 3140	History Of Renaissance Thought
HISTORY 3230	Europe In The Age Of The French Revolution And Napoleon
HISTORY 3235	Foundations Of Contemporary Europe 1815-1914
HISTORY 3240	Contemporary Europe
HISTORY 3660	Modern East Asia

Justification for
request

Now that a general education curriculum has been approved by the University, we are updating our degree programs to better align with that curriculum. After updating the Psych BA to align with the general education requirements, we realized that BA students technically required 3 more credits of 'structured' curriculum than BS students. By updating the BS requirement to 23 credits of science and math (from 20), we now have the same level of required/structured credit for the BA and BS psychology students.

We removed the emphasis areas because as of Fall 2025 we have successfully launched our certificates (which were essentially our emphasis areas restructured to serve as certificates) and so the duplication is no longer needed. Having only certificates will streamline our catalog offerings for students and reduce confusion.

After the changes that were made the Secondary Edu Psych BS as a result of the general education curriculum updates and the adjustments from DESE, we realized that there was only a 3 credit difference in content between the Secondary Edu Psych BA and Secondary Edu BS (a difference of 9 credits in humanities/13 credits in science & math [BA] or 6 credits in humanities/16 credits in science & math [BS]). Given that the Secondary Edu emphasis overall prepares a student to teach high school social studies, we believe the most appropriate degree to represent the Secondary Edu Psych emphasis is the BA rather than the BS. Thus, we have removed the Secondary Edu emphasis option for the BS. This change was communicated with and approved by the Education department chair and will not impact our overall ability to offer secondary edu certifications to psych majors. In fact, we believe this change will streamline our offerings and greatly reduce confusion among advisees and advisors over which secondary edu degree to complete since the reality is they were minimally different.

All other edits were editorial to clarify language and reduce redundant information that is available elsewhere in the undergraduate catalog.

Attach Budget

System Approval
Letter

MDHE Approval

Supporting Documents

[Psych-Title Change-Psychogocial Sciences.pdf](#)
[MS&T PC April 2023 _Approval Degree Change Name.pdf](#)
[Email thread confirming change to Psych Science.pdf](#)
[Curriculum before and after BS Psych Sci.docx](#)
[Program Change \(PC\) Form Removing Emphasis Areas Psych BS.docx](#)
[Program Change \(PC\) Form Removing Emphasis Areas Psych BS.pdf](#)

Reviewer

Comments

Jade McCain (jm558v) (10/14/25 11:32 am): Rollback: Rollback per needs required approval paperwork for revisions to emphasis area.

Jade McCain (jm558v) (12/08/25 9:24 am): Added signed PC form.

Crystal Wilson (wilsoncry) (12/17/25 3:24 pm): Updated language to align with language for general education.

Experimental Change Request

New Proposal

Date Submitted: 10/31/25 7:09 pm

Viewing: **BUS 5001.016: Services Marketing and Innovation**

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

Changes proposed by: Cecil Eng Huang Chua (cecq8z)

Requested Effective Date	Spring 2026
Department	Business and Information Tech (RBUS&IT)
Discipline	Business (BUS)
Course Number	5001
Topic ID	016
Experimental Title	

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. CAT entry
8. Registrar

Approval Path

1. 10/31/25 9:20 pm
Cassie Elrod (cassa):
Approved for
RBUS&IT Chair
2. 11/12/25 1:43 pm
Jade McCain
(jm558v): Approved
for CCC Secretary
3. 11/12/25 2:51 pm
Cecil Eng Huang
Chua (cchua):
Approved for Social
Sciences DSCC Chair
4. 12/19/25 3:37 pm
Jade McCain
(jm558v): Approved
for Pending CCC
Agenda post

Experimental Svcs Mkt & Innov

Abbreviated Course

Title

Co-Listed Course

Instructors

David Bojanic

Experimental

Catalog Description

This course examines marketing practices in service industries such as health care, financial services, information technology, sports, and travel and tourism. There is a particular emphasis on innovations in services that create value for customers.

Prerequisite(s)

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 course is useful for students in various majors, including business and information technology, engineering, biomedical, arts and sciences.

Reviewer

Comments

Jade McCain (jm558v) (11/12/25 1:42 pm): Corrected formatting, added grading basis, and selected "yes" for elective for majors.

Jade McCain (jm558v) (12/12/25 12:01 pm): Added Topic ID.

Experimental Change Request

New Proposal

Date Submitted: 11/10/25 1:51 pm

Viewing: **COMP ENG 5001.007: Explainable Machine Learning (XAI)**

Last edit: 12/12/25 10:57 am

Changes proposed by: R.Joe Stanley (stanleyj)

Requested Effective Date	Spring 2026
Department	Electrical & Computer Engr (RELECENG)
Discipline	Computer Engineering (COMP ENG)
Course Number	5001
Topic ID	007
Experimental Title	

In Workflow

- RELECENG Chair
- CCC Secretary
- Engineering DSCC Chair
- Pending CCC Agenda post
- CCC Meeting Agenda
- Campus Curricula Committee Chair
- CAT entry
- Registrar

Approval Path

- 11/08/25 7:59 pm
Jonathan Kimball (kimballjw):
Rollback to Initiator
- 11/10/25 2:16 pm
Jonathan Kimball (kimballjw):
Approved for RELECENG Chair
- 11/12/25 1:46 pm
Jade McCain (jm558v): Approved for CCC Secretary
- 11/15/25 10:18 am
Theresa Swift (thswift): Approved for Engineering DSCC Chair
- 12/19/25 3:37 pm
Jade McCain

Explainable Machine Learning (XAI)

Experimental

Explain Machine Learn

Abbreviated Course

Title

Co-Listed Course

Instructors

Dr. Mohamed Nafea

Experimental

Catalog Description

This course provides a comprehensive overview of methods and principles of Explainable Machine Learning (XAI), examining why and how ML models make their decisions. Students will study theoretical foundations, practical methods and various applications of XAI, covering both fundamental concepts and state-of-the-art developments. Topics covered include interpretable model design, pre-hoc and post-hoc explanations (feature attribution, counterfactuals, etc), model-agnostic explainers, explanation evaluation, ethical considerations, and modern applications like healthcare and LLMs. Students will gain hands-on experience with real datasets and current research trends, developing skills to implement, evaluate, and critically survey XAI methods.

Prerequisite(s)

Comp Sci 1500, Math 3108, Stat 3113 or Stat 3117 or Stat 5643. Coursework or experience with machine learning is preferred.

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 Computational Intelligence emphasis area in Computer Engineering is expanding its introductory course offerings to expose student to relevant tools and techniques that promote breadth and depth of knowledge in the field of Computer Engineering.

Reviewer

Comments

Jonathan Kimball (kimballjw) (11/08/25 7:59 pm): Rollback: Incorrect STAT prereqs.

Jade McCain (jm558v) (11/12/25 1:46 pm): Corrected prerequisite formatting and added grading basis.

Jade McCain (jm558v) (12/12/25 10:57 am): Added Topic ID.

Experimental Change Request

New Proposal

Date Submitted: 11/14/25 10:22 am

Viewing: **COMP SCI 5001.080: Internet Security**

Last edit: 12/12/25 12:12 pm

Changes proposed by: Venkata Sriram Siddhardh Nadendla (nadendla)

Requested Effective Date	Spring 2026
Department	Computer Science (RCOMPSCI)
Discipline	Computer Science (COMP SCI)
Course Number	5001
Topic ID	080
Experimental Title	

In Workflow

1. RCOMPSCI 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. 04/22/25 1:24 pm
Seung-Jong Park (spxzb): Approved for RCOMPSCI Chair
2. 04/23/25 8:34 am
Jade McCain (jm558v): Approved for CCC Secretary
3. 04/24/25 9:27 pm
Kelly Liu (liukh): Approved for Engineering DSCC Chair
4. 04/28/25 2:18 pm
Jade McCain (jm558v): Approved for Pending CCC Agenda post
5. 05/13/25 3:39 pm
Jade McCain

- (jm558v): Rollback to Initiator
6. 11/14/25 10:49 am
Seung-Jong Park
(spxzb): Approved for RCOMPSCI Chair
7. 11/25/25 12:07 pm
Jade McCain
(jm558v): Approved for CCC Secretary
8. 12/08/25 7:43 am
Theresa Swift
(thswift): Approved for Engineering DSCC Chair
9. 12/19/25 3:37 pm
Jade McCain
(jm558v): Approved for Pending CCC Agenda post

Internet Security

Experimental Internet Security

Abbreviated Course

Title

Co-Listed Course

Instructors

Junjie Xiong and Sejun Song

Experimental

Catalog Description

This course provides an in-depth study of both theoretical and practical foundations in various aspects of internet security, with particular emphasis on network defense. Topics covered include cryptographic algorithms, authentication and access control in networked environments, along with key security standards including Kerberos, PKI, IPsec, and TLS/SSL. The course also explores real-world applications like web security.

Prerequisite(s)

A grade of "C" or better in Comp Sci 4610.

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 course fills a gap in our current catalog between the 4000-level and 6000-level network security courses in the Comp Sci department. To better prepare students for CIS 6605: Advanced Network Security, a 5000-level internet security course is proposed. Additionally, internet security remains a highly relevant and in-demand field in both academia and industry, and is particularly aligned with NSA's CAE knowledge units under network defense. As cybersecurity threats continue to evolve, equipping students with a strong foundation at the graduate level will enable them to effectively address emerging security challenges in both research and practical applications.

Note: After the last kickback of this EC form in Summer 2025, ECE and CS departments engaged in a long conversation to address the concerns of overlap between the proposed experimental course and CE 5420 (Introduction to Network Security). This form is now resubmitted for approval after we reached a consensus.

Reviewer

Comments

Jade McCain (jm558v) (04/23/25 8:33 am): Removed Topic ID, corrected prerequisite formatting, and added grading basis.

Jade McCain (jm558v) (04/28/25 10:53 am): Added Topic ID.

Jade McCain (jm558v) (05/13/25 3:39 pm): Rollback: Rollback per needs clarification due to

similarities with COMP ENG 5420. If the content is the same the course should be co-listed with COMP ENG 5420.

Crystal Wilson (wilsoncry) (11/14/25 10:30 am): Changed effective date to spring 2026 per request of department.

Jade McCain (jm558v) (11/25/25 12:06 pm): Changed Topic ID to TBD.

Jade McCain (jm558v) (12/12/25 12:12 pm): Added Topic ID.

Experimental Change Request

New Proposal

Date Submitted: 11/17/25 11:32 am

Viewing: **GEO ENG 2001.005: Hacking Planet Earth**

Last edit: 12/12/25 1:16 pm

Changes proposed by: Jeremy Maurer (jlmd9g)

Requested Effective Date	Spring 2026
Department	Earth Sciences and Engineering (RGEOENG)
Discipline	Geological Engineering (GEO ENG)
Course Number	2001
Topic ID	005
Experimental 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. CAT entry
8. Registrar

Approval Path

1. 11/17/25 11:34 am
Stephen Gao (sgao): Approved for RGEOENG Chair
2. 11/25/25 1:24 pm
Jade McCain (jm558v): Approved for CCC Secretary
3. 12/08/25 7:43 am
Theresa Swift (thswift): Approved for Engineering DSCC Chair
4. 12/19/25 3:37 pm
Jade McCain (jm558v): Approved for Pending CCC Agenda post

Experimental Hacking Planet Earth

Abbreviated Course

Title

Co-Listed Course

Instructors

Jeremy Maurer

Experimental

Catalog Description

A hands-on, project-based introduction to technical and computational problems in the earth sciences. The course focuses on applying principles from computer science and data science, including data analysis, machine learning and AI, numerical modeling, and GIS programming, to real-world applications in Earth science, geology, seismology, natural hazards, and remote sensing. Topics include time-series analysis, analysis of remote sensing imagery, and numerical simulation of natural processes.

Prerequisite(s)

Corequisite(s)

Field Trip

Statement

Credit Hours

Credit Type	Credit Hours
Lecture	1

Total: 1

Required for Majors No

Elective for Majors Yes

Grading Basis Graded

Repeatable No

Justification for
experimental
course:

This course aims to introduce students who already have a technical background in computers

and software or mathematics to interesting problems in geology, geological engineering, geospatial science and engineering, and resource engineering. The course is aimed in particular at computer science majors who need 4 cr hrs to fulfill their science elective requirement, and will take this course in conjunction with one of the existing 3-cr courses in the department.

Reviewer

Comments

Jade McCain (jm558v) (11/25/25 12:34 pm): Added graded basis and change Topic ID to TBD.

Jade McCain (jm558v) (12/12/25 1:16 pm): Added Topic ID.

Experimental Change Request

New Proposal

Date Submitted: 11/25/25 8:36 am

Viewing: **HISTORY 3001.022: The Cold War - A Global History**

Last edit: 12/17/25 3:55 pm

Changes proposed by: Shannon Fogg (sfogg)

Requested Effective Date	Fall 2026
Department	History & Political Science (RHISTORY)
Discipline	History (HISTORY)
Course Number	3001
Topic ID	022
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. 11/25/25 8:58 am
Shannon Fogg (sfogg): Approved for RHISTORY Chair
2. 11/25/25 1:29 pm
Jade McCain (jm558v): Approved for CCC Secretary
3. 12/17/25 1:50 pm
Alejandra Sobrado (asgx4): Approved for Arts & Humanities DSCC Chair
4. 12/19/25 3:38 pm
Jade McCain (jm558v): Approved for Pending CCC Agenda post

The Cold War - A Global History

Experimental History of the Cold War

Abbreviated Course

Title

Co-Listed Course

Instructors

Dr. Chris Ketcherside

Experimental

Catalog Description

A global history of the conflict between the Soviet Union and the United States after WWII. Lasting until the early 1990s, this standoff between rival ideologies affected nearly every other country militarily, economically, politically, socially, and culturally. This class will examine how the Cold War directly and indirectly impacted global history from 1945 until 1991.

Prerequisite(s)

History 1200 or History 1300 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:

The Cold War was a critical era of world history, and is still pertinent given the current status of

Russia in relations with the rest of the world. It is a popular subject to students as it relatively recent.

Reviewer

Comments

Jade McCain (jm558v) (11/25/25 1:28 pm): Added grading basis and punctuation.

Jade McCain (jm558v) (12/17/25 3:55 pm): Added Topic ID.