Minutes of the Campus Curricula Committee Meeting
March 7, 2018
2:00pm, 216 Parker Hall
(For Faculty Senate Meeting of March 22, 2018)

Attendees: Steve Raper, Barry Flachsbart, Petra Dewitt, Thomas Schuman, Katie Shannon, Gearoid MacSithigh, Kyle Perry and Brittany Parnell

The following curriculum forms were discussed and approved:

Course Change Forms:

File: 4506  BIO SCI 4373: Stem Cell Biology
File: 4505  BIO SCI 5343: Biology of Aging
File: 4507  BIO SCI 6373: Advanced Stem Cell Biology
File: 2494.2 EDUC 3203: Introduction to STEM Education
File: 4517  EDUC 3220: Teaching Science in the Elementary Classroom
File: 4519  EDUC 3430: Literature for Children
File: 4518  EDUC 3530: Integrated Social Studies and Humanities for the Elementary Classroom
File: 4527  EDUC 5100: PLTW Training
File: 2328.1 EDUC 5370: Teachers Academy: Effective Instructional Strategies
File: 4512  ELEC ENG 5680: Introduction to Radar Systems
File: 4526  ENGLISH 3590: Game Studies
File: 1211.6 GEOLOGY 3631: Systematic Paleontology
File: 1126.1 GEOLOGY 6611: Advanced Palynology
File: 1498.1 MATH 6417: Functional Analysis I
File: 1494.1 MATH 6418: Functional Analysis II
File: 2364.1 MET ENG 5480: Refining Of Metals
File: 1702.1 MIN ENG 4413: Material Processing By High-Pressure Water Jet
File: 2362.1 MIN ENG 4422: Coal Preparation
File: 500.1  MIN ENG 5413: Material Processing by High Pressure Water Jet
File: 2019.1 MIN ENG 5422: Coal Preparation
File: 4513  MS&E 5060: Chemistry of Construction Materials
File: 4514  MS&E 6060: Advanced Chemistry of Construction Materials
File: 4510  PSYCH 3501: Drugs and Behavior
File: 4359.4 PSYCH 6602: Employee Affect and Behavior
File: 4521  TCH COM 3550: Writing for Social Media
File: 4520  TCH COM 3580: Business Communication
Degree Change Forms:
- File: 84.7  MATH-MST: Mathematics MST
- File: 259  PROPOSED: Game Studies (Minor)
- File: 258  PROPOSED: Minor in Social Media in Industry

Experimental Course Forms:
- File: 4522  HISTORY 2001.001: History of Mexico
- File: 4523  PET ENG 6001.009: Applications of Data Analytics in Petroleum Engineering
- File: 4511  PSYCH 3001.003: Psychology of Human Sexuality

The Curriculum Committee approved a proposal from Kate Drowne to implement graduate-level education courses through Project Lead The Way with the variable credit course, EDUC 5100: PLTW Training.

The meeting adjourned at 3:10 pm

Stephan A. Raper, Chair
Missouri S&T Campus Curricula Committee
## Course Change Request

### New Course Proposal

**Date Submitted:** 12/07/17 4:44 pm

**Viewing:** **BIO SCI 4373 : Stem Cell Biology**

**File:** 4506  
**Last edit:** 12/08/17 9:32 am  
**Changes proposed by:** niyogid

- **Requested Effective Change Date:** Fall 2018  
- **Department:** Biological Sciences  
- **Discipline:** Biological Sciences (BIO SCI)  
- **Course Number:** 4373  
- **Title:** Stem Cell Biology  
- **Abbreviated Course Title:** Stem Cell Biology

**Catalog Description:** This course will cover the fast-moving field of stem cell biology. Topics include: development and organogenesis, regeneration and repair, stem cell types and sources, pluripotency and reprogramming, stem cells and cancer, therapeutics, and ethics.

- **Prerequisites:** Bio Sci 2213.  
- **Field Trip Statement:** NA  
- **Credit Hours:**  
  - LEC: 3  
  - LAB: 0  
  - IND: 0  
  - RSD: 0  
  - Total: 3

- **Required for Majors:** No  
- **Elective for Majors:** Yes

**Justification for new course:** This class has been offered twice as an experimental class (BioSci 5001). We are offering this topic as 4000 and 6000 options for its permanent listings in the catalog.

- **Semesters previously offered as an experimental course:** Fall 2015, Fall 2017  
  - Fall 2015 enrollment- 12  
  - Fall 2017 enrollment- 12

- **Co-Listed Courses:**

**Course Reviewer Comments**

### Approval Path

1. **12/08/17 7:13 am**  
   David Duvernell  
   (duvernelld):  
   Approved for RBIOLSCI Chair

2. **12/08/17 9:21 am**  
   Brittany Parnell  
   (ershenb):  
   Approved for CCC Secretary

3. **01/31/18 9:25 am**  
   Katie Shannon  
   (shannonk):  
   Approved for Sciences DSCC Chair

4. **02/20/18 11:42 am**  
   Brittany Parnell  
   (ershenb):  
   Approved for Pending CCC Agenda post

5. **03/08/18 12:23 pm**  
   Brittany Parnell  
   (ershenb):  
   Approved for CCC Meeting Agenda
6. 03/08/18 4:43 pm
sraper: Approved
for Campus
Curricula
Committee Chair
# Course Change Request

## New Course Proposal

**Date Submitted:** 12/07/17 3:52 pm  
**Viewing:** BIO SCI 5343 : Biology of Aging  
**File:** 4505  
**Last edit:** 12/08/17 9:31 am  
**Changes proposed by:** niyogid

### Requested  
**Effective Change Date:** Fall 2018

<table>
<thead>
<tr>
<th>Department</th>
<th>Biological Sciences</th>
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</thead>
<tbody>
<tr>
<td>Discipline</td>
<td>Biological Sciences (BIO SCI)</td>
</tr>
<tr>
<td>Course Number</td>
<td>5343</td>
</tr>
<tr>
<td>Title</td>
<td>Biology of Aging</td>
</tr>
<tr>
<td>Abbreviated Title</td>
<td>Biology of Aging</td>
</tr>
</tbody>
</table>

### Catalog Description

We will discuss the proximate and ultimate mechanisms of aging, and review a few leading theories of aging with the emphases on oxidative stress and life history tradeoffs. We will take the comparative approach to study aging across species, and the interventions that extend animals' lifespan, and explore why they may or may not work on humans.

### Prerequisites


### Field Trip Statement

NA

### Credit Hours

<table>
<thead>
<tr>
<th>LEC</th>
<th>LAB</th>
<th>IND</th>
<th>RSD</th>
<th>Total</th>
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<tbody>
<tr>
<td>3</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>3</td>
</tr>
</tbody>
</table>

### Required for Majors

No

### Elective for Majors

Yes

### Justification for new course:

| Approval Path |  
|---------------|---|
| 1. 12/08/17 7:14 am  
David Duvernell (duvernelld):  
Approved for RBIOLSCI Chair |
| 2. 12/08/17 9:31 am  
Brittany Parnell (ershenb):  
Approved for CCC Secretary |
| 3. 01/31/18 9:25 am  
Katie Shannon (shannonknk):  
Approved for Sciences DSCC Chair |
| 4. 02/20/18 11:42 am  
Brittany Parnell (ershenb):  
Approved for |
This new class has been taught 3 times as an experimental course, as BioSci 3001. We are elevating the class to the 5000 level, given more advanced topics to be covered and anticipated enrollment by graduate students.

Semesters previously offered as an experimental course:
- Fall 2014; Spring 2016; Spring 2017
- Fall 2014 enrollment: 13
- Spring 2016 enrollment: 22
- Spring 2017 enrollment: 14

Co-Listed Courses:

Course Reviewer

Comments

Key: 4505 Preview Bridge
## New Course Proposal

**BIO SCI 6373: Advanced Stem Cell Biology**

**Course Title:** Advanced Stem Cell Biology

**Abbreviated Course Title:** Adv Stem Cell Bio

**Catalog Description:** This course will cover the fast-moving field of stem cell biology. Topics include: development and organogenesis, regeneration and repair, stem cell types and sources, pluripotency and reprogramming, stem cells and cancer, therapeutics, and ethics. Research proposal and additional readings required for graduate credit.

**Prerequisites:**
- Field Trip Statement: NA

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

**Required for Majors:** No

**Elective for Majors:** Yes

**Justification for new course:**
- This class has been taught twice as an experimental class as BioSci 5001. We now wish to include a graduate section at the 6000 level for our MS students in Applied and Environmental Biology.

**Semesters previously offered as an experimental course:**
- Fall 2015, Fall 2017.
- Fall 2015 enrollment: 12
- Fall 2017 enrollment: 12

**Co-Listed Courses:**

**Course Reviewer Comments:** ershenb (03/08/18 12:24 pm): removed "Graduate Standing" in the prerequisites

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**Approval Path**

1. 12/08/17 7:15 am
   - David Duvernell (duvernelld):
     - Approved for RBIOLSCI Chair

2. 12/08/17 9:39 am
   - Brittany Parnell (ershenb):
     - Approved for CCC Secretary

3. 01/31/18 9:25 am
   - Katie Shannon (shannonk):
     - Approved for Sciences DSCC Chair

4. 02/20/18 11:42 am
   - Brittany Parnell (ershenb):
     - Approved for Pending CCC Agenda post

5. 03/08/18 12:24 pm
   - Brittany Parnell (ershenb):
     - Approved for CCC Meeting Agenda
Course Change Request

Date Submitted: 01/12/18 11:37 am

Viewing: **EDUC 3203 2203**: Introduction to STEM Education

Problems Of Teaching Mathematics

File: 2494.2
Last approved: 03/06/17 3:15 am
Last edit: 02/01/18 9:28 am
Changes proposed by: schwartzem

- **Requested Effective Change Date**: Fall 2018 2017
- **Department**: Arts, Languages, & Philosophy
- **Discipline**: Education (EDUC)
- **Course Number**: 3203 2203
- **Title**: Introduction to STEM Education Problems Of Teaching Mathematics
- **Abbreviated Course Title**: Intro to STEM Education
- **Course Title**: Pros Of Teaching Math

**Catalog Description**
A study of current methodologies for teaching in area of specialization. **Students are introduced to a variety of instructional programs including Project Lead the Way.**

**Prerequisites**

**Field Trip Statement**

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

**Required for Majors**: Yes No

**Elective for Majors**: No

**Justification for change:**
Course has been adapted to include STEM learning so it does not just focus on mathematics now, but rather on science, mathematics, technology and engineering principles. Therefore, the name should be changed from Problems of Teaching Mathematics to Intro to STEM Education since the focus has broadened.

**Approval Path**

1. 01/23/18 12:40 pm Kelly Carter (carterke):
   Approved for EDUC Chair
2. 01/23/18 1:20 pm Brittany Parnell (ershenb):
   Approved for CCC Secretary
3. 02/01/18 8:48 pm Barry Flachsbart (barryf):
   Approved for Social Sciences DSCC Chair
4. 02/20/18 11:42 am Brittany Parnell (ershenb):

https://nextcatalog.mst.edu/courseleaf/courseleaf.cgi?page=/courseadmin/2494/index.html... 3/13/2018
<table>
<thead>
<tr>
<th>Course Reviewer Comments</th>
<th>Approved for Pending CCC Agenda post 03/08/18 12:26 pm Brittany Parnell (ershenb): Approved for CCC Meeting Agenda 03/08/18 4:43 pm sraper: Approved for Campus Curricula Committee Chair</th>
</tr>
</thead>
</table>
| **EDUC 3203: Introduction to STEM Education** 3/13/2018 | Change to 3xxx to be consistent with other required courses -- really at this level. Was taught in Sp16 & Sp18 as 2203.

Semesters previously offered as an experimental course

Co-Listed Courses:

**History**
1. Mar 6, 2017 by dewittp (2494.1)
# Course Change Request

**New Course Proposal**

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<th>01/31/18 2:46 pm</th>
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**Viewing:** EDUC 3220: Teaching Science in the Elementary Classroom

**File:** 4517

**Last edit:** 02/01/18 1:08 pm

**Changes proposed by:** schwartzem

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<th>Department</th>
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<table>
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<tr>
<th>Course Number</th>
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<tr>
<th>Title</th>
<th>Teaching Science in the Elementary Classroom</th>
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<table>
<thead>
<tr>
<th>Abbreviated Course Title</th>
<th>Teaching Science</th>
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</table>

<table>
<thead>
<tr>
<th>Catalog Description</th>
<th>A study in methods and materials for teaching science. This course will cultivate students’ understanding of Science, Technology, Engineering and Mathematics (STEM) education with a focus on implications for teaching and learning.</th>
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<tr>
<th>Prerequisites</th>
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<th>Credit Hours</th>
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<th>RSD: 0</th>
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<tr>
<th>Required for Majors</th>
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<tr>
<th>Elective for Majors</th>
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<th>Justification for new course:</th>
<th>Seeking a new permanent number</th>
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<th>Co-Listed Courses:</th>
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<tr>
<th>Approval Path</th>
<th></th>
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1. 02/01/18 11:01 am
Kelly Carter (carterke):
Approved for EDUC Chair

2. 02/01/18 1:31 pm
Brittany Parnell (ershenb):
Approved for CCC Secretary

3. 02/01/18 8:48 pm
Barry Flachsbart (barryf):
Approved for Social Sciences DSCC Chair

4. 02/20/18 11:42 am
Brittany Parnell (ershenb):
Approved for Pending CCC Agenda post

5. 03/08/18 12:27 pm
Brittany Parnell (ershenb):
Approved for CCC Meeting Agenda

https://nextcatalog.mst.edu/courseleaf/courseleaf.cgi?page=/courseadmin/4517/index.html...
## Course Change Request

### New Course Proposal

**Date Submitted:** 01/31/18 2:59 pm  
**Viewing:** EDUC 3430: Literature for Children  
**File:** 4519  
**Last edit:** 02/01/18 1:43 pm  
**Changes proposed by:** schwartzem

<table>
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<th>Requested Effective Change Date</th>
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</thead>
<tbody>
<tr>
<td>Department</td>
<td>Arts, Languages, &amp; Philosophy</td>
</tr>
<tr>
<td>Discipline</td>
<td>Education (EDUC)</td>
</tr>
<tr>
<td>Course Number</td>
<td>3430</td>
</tr>
<tr>
<td>Title</td>
<td>Literature for Children</td>
</tr>
<tr>
<td>Abbreviated Course Title</td>
<td>Literature for Children</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Catalog Description</th>
<th>A study of children's literary works, authors, genres, and illustrators appropriate for the elementary classroom.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prerequisites</td>
<td></td>
</tr>
</tbody>
</table>

**Field Trip Statement**

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

**Required for Majors**  
**Yes**

**Elective for Majors**  
**No**

**Justification for new course:**  
Seeking a new permanent number.

**Semesters previously offered as an experimental course**  
Spring 2016  
Spring 2018  
Spring 2016 enrollment -11  
Spring 2018 enrollment - 9

**Co-Listed Courses:**

**Course Reviewer Comments**  

### Approval Path

1. 02/01/18 11:01 am  
   - Kelly Carter  
   - (carterke):  
   - Approved for EDUC Chair

2. 02/01/18 1:43 pm  
   - Brittany Parnell  
   - (ershenb):  
   - Approved for CCC Secretary

3. 02/01/18 8:48 pm  
   - Barry Flachsbart  
   - (barryf):  
   - Approved for Social Sciences DSCC Chair

4. 02/20/18 11:42 am  
   - Brittany Parnell  
   - (ershenb):  
   - Approved for Pending CCC Agenda post

5. 03/08/18 12:29 pm  
   - Brittany Parnell  
   - (ershenb):  
   - Approved for CCC Meeting Agenda

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https://nextcatalog.mst.edu/courseleaf/courseleaf.cgi?page=/courseadmin/4519/index.html...
# Course Change Request

## New Course Proposal

Date Submitted: 01/31/18 2:51 pm

**Viewing:** EDUC 3530: Integrated Social Studies and Humanities for the Elementary Classroom

**File:** 4518  
**Last edit:** 02/01/18 1:47 pm  
**Changes proposed by:** schwartzem

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<th>Fall 2018</th>
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<tr>
<td>Department</td>
<td>Arts, Languages, &amp; Philosophy</td>
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<td>Discipline</td>
<td>Education (EDUC)</td>
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<tr>
<td>Course Number</td>
<td>3530</td>
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<tr>
<td>Title</td>
<td>Integrated Social Studies and Humanities for the Elementary Classroom</td>
</tr>
<tr>
<td>Abbreviated Course Title</td>
<td>Teaching Social Studies</td>
</tr>
</tbody>
</table>

**Catalog Description**

The course will focus on the methodology and materials needed to facilitate elementary students' development in social studies. This course will integrate the curriculum and teaching strategies in social studies with music, physical education, and art.

**Prerequisites**

**Field Trip Statement**

**Credit Hours**

<table>
<thead>
<tr>
<th>LEC: 3</th>
<th>LAB: 0</th>
<th>IND: 0</th>
<th>RSD: 0</th>
<th>Total: 3</th>
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<tbody>
<tr>
<td>Required for Majors</td>
<td>Yes</td>
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<tr>
<td>Elective for Majors</td>
<td>No</td>
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</table>

**Justification for new course:**  
Seeking a new permanent number.

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**Approval Path**

1. 02/01/18 11:02 am  
   Kelly Carter  
   (carterke):  
   Approved for EDUC Chair

2. 02/01/18 1:57 pm  
   Brittany Parnell  
   (ershenb):  
   Approved for CCC Secretary

3. 02/01/18 8:48 pm  
   Barry Flachsbart  
   (barryf):  
   Approved for Social Sciences DSCC Chair

4. 02/20/18 11:42 am  
   Brittany Parnell  
   (ershenb):
<table>
<thead>
<tr>
<th>Semesters previously offered as an experimental course</th>
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<tbody>
<tr>
<td>Spring 2016</td>
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<p>| | |</p>
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<tr>
<th></th>
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<tbody>
<tr>
<td>Spring 2016 enrollment- 11</td>
<td>Spring 2018 enrollment- 12</td>
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Co-Listed Courses:

<table>
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<tr>
<th>Course Reviewer</th>
<th>Comments</th>
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<tbody>
<tr>
<td>Edu 3530: Integrated Social Studies and Humanities for the Elementary Classroom</td>
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https://nextcatalog.mst.edu/courseleaf/courseleaf.cgi?page=/courseadmin/4518/index.html... 3/13/2018
Course Change Request

New Course Proposal

Date Submitted: 02/16/18 8:34 am
Viewing: EDUC 5100: PLTW Training
File: 4527
Last edit: 02/21/18 2:01 pm
Changes proposed by: kdrowne

Requested Effective Change Date: Summer 2018
Department: History and Political Science
Discipline: Education (EDUC)
Course Number: 5100
Title: PLTW Training
Abbreviated Course Title: PLTW Training

Catalog Description: This graduate-level Project Lead the Way course prepares K-12 educators to become more effective teachers of STEM-focused material.

Prerequisites
Field Trip Statement
Credit Hours: LEC: 1-4 LAB: 0 IND: 0 RSD: 0 Total: 1-4
Required for Majors: No
Elective for Majors: Yes

Justification for new course: EDUC 5100 will be listed as a repeatable, variable credit course (1-4 credits). About two dozen possible graduate-level course experiences will fall under EDUC 5100, including STEM Instruction for grades K-12, emphasizing the areas of Biomedical Science, Computer Science, and Engineering. Students will be able to sign up for the appropriate course when they enroll online. This repeatable course with variable credit is a preferable alternative to listing 26 possible PLTW graduate courses in our catalog.

Please note that this course will be housed in the Department of Teacher Education and Certification (not the Department of History and Political Science).

This variable credit course is set up like a Special Topics course, but it is independent of Special Topics courses for the purposes of PLTW.

Semesters previously offered as an experimental course: These PLTW training courses have been taught regularly on our campus for more than ten years.

Approval Path
1. 02/19/18 8:47 am sfogg: Approved for RHISTORY Chair
2. 02/20/18 11:16 am Kelly Carter (carterke): Approved for EDUC Chair
3. 02/21/18 1:13 pm Brittany Parnell (ershenb): Approved for CCC Secretary
4. 02/21/18 3:09 pm Barry Flachsbart (barryf): Approved for Social Sciences DSCC Chair
5. 02/21/18 3:41 pm Brittany Parnell (ershenb): Approved for Pending CCC Agenda post
6. 03/08/18 12:31 pm Brittany Parnell
<table>
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<tr>
<th>Co-Listed Courses:</th>
<th>(ershenb): Approved for CCC Meeting Agenda</th>
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<tbody>
<tr>
<td>Course Reviewer Comments</td>
<td>7. 03/08/18 4:44 pm sraper: Approved for Campus Curricula Committee Chair</td>
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**Co-Listed Courses:**

EDUC 5100: PLTW Training

https://nextcatalog.mst.edu/courseleaf/courseleaf.cgi?page=/courseadmin/4527/index.html... 3/13/2018
# Course Change Request

**Date Submitted:** 02/14/18 4:35 pm  
**Viewing:** EDUC 5370 4370 - Teachers Academy: Effective Instructional Strategies

**Requested Effective Change Date:** Fall 2018 08/01/2014  
**Changes proposed by:** carterke

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<th>Field</th>
<th>Description</th>
<th>Prerequisites</th>
<th>Credit Hours</th>
<th>Required for Majors</th>
<th>Elective for Majors</th>
<th>Justification for change:</th>
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<tr>
<td>Department</td>
<td>Arts, Languages, &amp; Philosophy</td>
<td>Graduate standing.</td>
<td>LEC: 3</td>
<td>No</td>
<td>Yes No</td>
<td>This course was updated in 8/2014. Because of graduate standing as a prerequisite, it should have been numbered as a 5000 level course. So I propose a change from 4370 to 5370 to comply with graduate level numbering.</td>
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<td>Teachers Academy</td>
<td></td>
<td>Total: 3</td>
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</table>

**Catalog Description:** Participants will develop an understanding of research-based instruction and the ability to implement the instructional strategies in their classrooms. In addition to effective instructional practices, the teachers' academy will focus on leadership, empowerment, collaboration and renewal.

**Field Trip Statement:**

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

**Required for Majors:** No

**Elective for Majors:** Yes No

**Semesters previously offered as an experimental course:**

**Co-Listed Courses:**

**Course Reviewer Comments:**

**Approval Path:**

1. 02/15/18 4:39 pm  
   Kelly Carter  
   approved for EDUC Chair  
2. 02/16/18 8:42 am  
   Brittany Parnell  
   approved for CCC Secretary  
3. 02/21/18 3:09 pm  
   Barry Flachsbart  
   approved for Social Sciences DSCC Chair  
4. 02/21/18 3:40 pm  
   Brittany Parnell  
   approved for CCC Secretary  
5. 03/08/18 12:46 pm  
   Brittany Parnell  
   approved for Pending CCC Agenda post
6. 03/08/18 4:44 pm  
   sraper: Approved
## Course Change Request

**New Course Proposal**

<table>
<thead>
<tr>
<th>Date Submitted: 01/17/18 12:54 pm</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Viewing: ELEC ENG 5680: Introduction to Radar Systems</strong></td>
</tr>
<tr>
<td><strong>File: 4512</strong></td>
</tr>
<tr>
<td><strong>Last edit: 03/08/18 2:24 pm</strong></td>
</tr>
<tr>
<td><strong>Changes proposed by: sweetk</strong></td>
</tr>
<tr>
<td><strong>Requested Effective Change Date</strong></td>
</tr>
<tr>
<td><strong>Department</strong>: Electrical and Computer Engineering</td>
</tr>
<tr>
<td><strong>Discipline</strong>: Electrical Engineering (ELEC ENG)</td>
</tr>
<tr>
<td><strong>Course Number</strong>: 5680</td>
</tr>
<tr>
<td><strong>Title</strong>: Introduction to Radar Systems</td>
</tr>
<tr>
<td><strong>Abbreviated Course Title</strong>: Intro to Radar Systems</td>
</tr>
<tr>
<td><strong>Catalog Description</strong>: The objective of this course is to introduce senior and graduate students to various radar system principles, designs and applications (e.g., pulse, frequency-modulated, chirp, Doppler radars). Topics related to signals, systems, noise, resolution, multiple sampling, different imaging modalities, and remote sensing will also be discussed.</td>
</tr>
<tr>
<td><strong>Prerequisites</strong>: Elec Eng 3400 and Elec Eng 3600.</td>
</tr>
<tr>
<td><strong>Field Trip Statement</strong></td>
</tr>
<tr>
<td><strong>Credit Hours</strong>: LEC: 3</td>
</tr>
<tr>
<td><strong>Required for Majors</strong>: No</td>
</tr>
<tr>
<td><strong>Elective for Majors</strong>: Yes</td>
</tr>
<tr>
<td><strong>Justification for new course</strong>: We have a strong electromagnetic, signal and image processing core competency both in the type of courses we offer and the research that we conduct in the department. Many of our students perform Co-Op and internships at institutions such as Sandia National Lab., and are hired by companies and government organizations that are involved in radar R&amp;D. Consequently, this course will not only benefit the students in being prepared for such engagements but also gives them an advantage over those without having had this background when they apply for their career positions.</td>
</tr>
<tr>
<td><strong>Semesters previously offered as an experimental course</strong>: Spring 2013, Fall 2017</td>
</tr>
<tr>
<td><strong>Co-Listed Courses</strong>: Spring 13 enrollment- 8</td>
</tr>
</tbody>
</table>

---

**In Workflow**

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

**Approval Path**

1. 01/19/18 5:46 pm  
   Daryl Beetner  
   (daryl): Approved for RELECENG Chair
2. 01/22/18 3:28 pm  
   Brittany Parnell  
   (ershenb): Approved for CCC Secretary
3. 02/04/18 11:42 am  
   Brittanay Parnell  
   (ershenb): Approved for Engineering DSCC Chair
4. 02/20/18 11:42 am  
   Brittany Parnell  
   (ershenb): Approved for Pending CCC Agenda post
5. 03/08/18 2:25 pm  
   Brittany Parnell  
   (ershenb): Approved for CCC Meeting Agenda
6. 03/08/18 4:44 pm  
   sraper: Approved for Campus

---

https://nextcatalog.mst.edu/courseleaf/courseleaf.cgi?page=/courseadmin/4512/index.html... 3/13/2018
<table>
<thead>
<tr>
<th>Course Reviewer</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>sraper (01/23/18 2:40 pm)</td>
<td>Changed prereq from a comma to an and between both courses to strengthen.</td>
</tr>
<tr>
<td>ershenb (03/08/18 2:24 pm)</td>
<td>changed &quot;EE&quot; to &quot;Elec Eng&quot; in prerequisites</td>
</tr>
</tbody>
</table>
## Course Change Request

### New Course Proposal

<table>
<thead>
<tr>
<th>Date Submitted: 02/11/18 3:42 pm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Viewing: <strong>ENGLISH 3590: Game Studies</strong></td>
</tr>
<tr>
<td>File: 4526</td>
</tr>
<tr>
<td>Last edit: 02/12/18 11:05 am</td>
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<tr>
<td>Changes proposed by: kswenson</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Requested Effective Change Date</th>
<th>Fall 2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department</td>
<td>English and Technical Communication</td>
</tr>
<tr>
<td>Discipline</td>
<td>English (ENGLISH)</td>
</tr>
<tr>
<td>Course Number</td>
<td>3590</td>
</tr>
<tr>
<td>Title</td>
<td>Game Studies</td>
</tr>
<tr>
<td>Abbreviated Course Title</td>
<td>Game Studies</td>
</tr>
</tbody>
</table>

**Catalog Description**

An introduction to the study of games with an emphasis on their pedagogical and communicative uses. May cover topics such as game theory and design, gamification of classroom or workplace activities, game genres, and writing game narratives.

**Prerequisites**

One semester of literature or composition.

**Field Trip Statement**

**Credit Hours**

<table>
<thead>
<tr>
<th>LEC: 3</th>
<th>LAB: 0</th>
<th>IND: 0</th>
<th>RSD: 0</th>
<th>Total: 3</th>
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</thead>
<tbody>
<tr>
<td>No</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Required for Majors**

Yes

**Elective for Majors**

Yes

**Justification for new course:**

Required for new minor in Game Studies. (See DC form/proposal which also contains syllabus for Games Studies.)

Student demand to study games as an entertainment medium, as a learning tool, and as a career field is high and increasing. Additionally, dozens of colleges and universities worldwide offer both degrees and minors in game studies, creating a vast and growing scholarly and learning community. This is a field that needs study and research from Missouri's premier science and technology university.

**Semesters previously offered as an experimental course**

N/A

**Co-Listed Courses:**

TCH COM 3590 - *Course Not Found*

---

## Approval Path

1. 02/11/18 3:43 pm
   - Kristine Swenson (kswenson): Approved for ENGLISH Chair
2. 02/12/18 1:56 pm
   - Brittany Parnell (ershenb): Approved for CCC Secretary
3. 02/20/18 11:42 am
   - Petra Dewitt (dewittp): Approved for Arts & Humanities DSCC Chair
4. 02/20/18 11:42 am
   - Brittany Parnell (ershenb): Approved for Pending CCC Agenda post
5. 03/12/18 9:18 am
   - Brittany Parnell (ershenb): Approved for CCC Meeting Agenda
<table>
<thead>
<tr>
<th>Course Reviewer</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Approved for Campus Curricula Committee Chair</td>
<td>03/12/18 9:42 am</td>
</tr>
</tbody>
</table>
# Course Change Request

**Date Submitted:** 01/12/18 4:35 pm  
**Viewing:** GEOLOGY 3631: Systematic Paleontology  
**File:** 1211.6  
**Last approved:** 06/27/16 3:12 am  
**Last edit:** 01/31/18 9:26 am  
**Changes proposed by:** ikuenobe

### Programs referencing this course
- GLGPH-BS: Geology and Geophysics BS

### Other Courses referencing this course
- In The Prerequisites:
  - GEOLOGY 5741: Micropaleontology
  - GEOLOGY 6611: Advanced Palynology

### Requested Effective Change Date
- Fall 2018 2016

### Department
Geosciences and Geological and Petroleum Engineering

### Discipline
Geology (GEOLOGY)

### Course Number
3631

### Title
Systematic Paleontology

### Abbreviated Course Title
Systematic Paleontology

### Catalog Description
Provide understanding of introduction to paleontological principles, morphological concepts, evolution of life, biostratigraphy, paleoenvironments, and applications/uses of fossils. The study of fossil invertebrates, microfossils, plants and palynology. Chronicles evolution and classification of microfossils, invertebrates, plants and palynomorphs. Emphasis on writing and oral skills. A compulsory field trip to The Field Museum (Chicago) may be at student expense. Emphasis of the course is on fossil morphology, classification, and environmental relationships.

### Prerequisites
Geology 1110 or Geology 1120 or Bio Sci 1113.

### Field Trip Statement

### Credit Hours
<table>
<thead>
<tr>
<th>LEC</th>
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<th>IND</th>
<th>RSD</th>
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<tbody>
<tr>
<td>2</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>3</td>
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</table>

### Required for Majors
- No

### Elective for Majors
- Yes

### Justification for change:
Catalog description updated to include field trip statement and reflect changes due to the addition of a distance section (beginning fall 2018)

### Semesters previously
- 2016

### Approval Path
1. 01/14/18 9:33 am David Borrok (borrokd): Approved for RGEOSENG Chair
2. 01/22/18 2:26 pm Brittany Parnell (ershenb): Approved for CCC Secretary
3. 01/31/18 9:26 am Katie Shannon (shannonk): Approved for Sciences DSCC Chair
4. 02/20/18 11:43 am Brittany Parnell (ershenb): Approved for Pending CCC Agenda post
5. 03/08/18 2:29 pm Brittany Parnell (ershenb): Approved for CCC Meeting Agenda

https://nextcatalog.mst.edu/courseleaf/courseleaf.cgi?page=/courseadmin/1211/index.html...
offered as an experimental course

Co-Listed Courses:

<table>
<thead>
<tr>
<th>Course Reviewer</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>ershenb (01/22/18 2:24 pm)</td>
<td>moved Field Trip statement up to the Catalog Description.</td>
</tr>
<tr>
<td>ershenb (01/22/18 2:25 pm)</td>
<td>updated Start Term to Fall 2018.</td>
</tr>
</tbody>
</table>

for Campus Curricula Committee Chair

**History**

1. Jun 27, 2016 by ikuenobe (1211.1)
# Course Change Request

Date Submitted: 01/12/18 4:13 pm

**Viewing:** GEOLOGY 6611: Advanced Palynology  
**File:** 1126.1  
**Last edit:** 01/31/18 9:26 am  
**Changes proposed by:** ikuenobe

**Requested Effective Change Date:** Fall 2018 08/01/2014

<table>
<thead>
<tr>
<th>Department</th>
<th>Geosciences and Geological and Petroleum Engineering</th>
</tr>
</thead>
<tbody>
<tr>
<td>Discipline</td>
<td>Geology (GEOLOGY)</td>
</tr>
<tr>
<td>Course Number</td>
<td>6611</td>
</tr>
<tr>
<td>Title</td>
<td>Advanced Palynology</td>
</tr>
<tr>
<td>Abbreviated Course Title</td>
<td>Advanced Palynology</td>
</tr>
</tbody>
</table>

**Catalog Description:** Study of organic-walled microfossils, and the processes of sporopollenin preservation, sedimentation and palynofacies. *Chronicle of Phanerozoic Palynology in Lectures*. Major emphasis on independent palynostratigraphic research and applications, such as biostratigraphy, paleoclimatology and paleoenvironments. *Chronicle of Phanerozoic Palynology in Lectures*.

**Prerequisites:** Geology 3631 or Geology 5741. 4641.

**Field Trip Statement:**

**Credit Hours:**  
<table>
<thead>
<tr>
<th>LEC:</th>
<th>LAB:</th>
<th>IND:</th>
<th>RSD:</th>
<th>Total:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>3</td>
</tr>
</tbody>
</table>

**Required for Majors:** No

**Elective for Majors:** Yes No

**Semesters previously offered as an experimental course:**

**Co-Listed Courses:**

**Justification for change:**  
1. One pre-requisite, Micropaleontology, has been renumbered to 5741.  
2. Catalog description updated to reflect current advances in the field.

**Course Reviewer Comments:**

**Approval Path**

1. 01/12/18 4:25 pm  
   David Borrok (borrokd):  
   Approved for RGEOSENG Chair

2. 01/22/18 1:55 pm  
   Brittany Parnell (ershenb):  
   Approved for CCC Secretary

3. 01/31/18 9:27 am  
   Katie Shannon (shannonk):  
   Approved for Sciences DSCC Chair

4. 02/20/18 11:47 am  
   Brittany Parnell (ershenb):  
   Approved for Pending CCC Agenda post

5. 03/08/18 2:30 pm  
   Katie Shannon (shannonk):  
   Approved for CCC Meeting Agenda post

6. 03/08/18 4:44 pm  
   sraper: Approved
Course Change Request

Date Submitted: 12/07/17 5:45 pm

Viewing: MATH 6417: Functional Analysis I

File: 1498.1

Last edit: 03/08/18 2:35 pm

Changes proposed by: prunnion

Other Courses referencing this course

In The Prerequisites:

MATH 6375: Theory Of Partial Differential Equations

Requested Effective Change Date

Fall 2018 08/01/2014

Department

Mathematics & Statistics

Discipline

Mathematics (MATH)

Course Number

6417

Title

Functional Analysis I

Abbreviated Course Title

Functional Analysis I

Catalog Description

Banach spaces, Hilbert spaces, linear transformations, Hahn-Banach theorem, duality, open-mapping theorem, closed graph theorem, uniform boundedness principle, weak topologies, convexity, bounded linear maps, compact theorem, self adjoint and normal operators, and spectral related topics of Banach and Hilbert space theory.

Prerequisites

Math 5215; Math 5215 and (Math 5108 or Math 5585. Math 5585)

Field Trip Statement

Credit Hours

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

Required for Majors

No

Elective for Majors

Yes No

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 Registrar
11. Peoplesoft

Approval Path

1. 01/08/18 3:37 pm sclark: Approved for RMATHEMA Chair
2. 01/11/18 9:12 am Brittany Parnell (ershenb): Approved for CCC Secretary
3. 01/31/18 2:17 pm Katie Shannon (shannonk): Approved for Sciences DSCC Chair
4. 02/20/18 11:47 am Brittany Parnell (ershenb): Approved for

https://nextcatalog.mst.edu/courseleaf/courseleaf.cgi?page=/courseadmin/1498/index.html...
Justification for change:
The catalog description is being updated according to current trends in functional analysis and faculty research interests.

Semesters previously offered as an experimental course

Co-Listed Courses:

Course Reviewer ershenb (03/08/18 2:35 pm): removed "and" from prerequisites and added ";;" Comments
# Course Change Request

**Date Submitted:** 01/08/18 3:33 pm

**Viewing:** MATH 6418 : Functional Analysis II

**File:** 1494.1

**Last edit:** 01/31/18 2:17 pm

**Changes proposed by:** prunnion

**Requested Effective Change Date:** Fall 2018 08/01/2014

<table>
<thead>
<tr>
<th>Department</th>
<th>Mathematics &amp; Statistics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Discipline</td>
<td>Mathematics (MATH)</td>
</tr>
<tr>
<td>Course Number</td>
<td>6418</td>
</tr>
<tr>
<td>Title</td>
<td>Functional Analysis II</td>
</tr>
<tr>
<td>Abbreviated Course Title</td>
<td>Functional Analysis II</td>
</tr>
<tr>
<td>Catalog Description</td>
<td>A continuation of Math 6417 with additional topics related to bounded and unbounded operators and their applications. Spectral analysis of linear operators, spectral theorems, selected applications, an introduction to the theory of topological linear spaces, and papers from the recent literature.</td>
</tr>
<tr>
<td>Prerequisites</td>
<td>Math 6215 and Math 6417.</td>
</tr>
<tr>
<td>Credit Hours</td>
<td>LEC: 3 LAB: 0 IND: 0 RSD: 0 Total: 3</td>
</tr>
<tr>
<td>Required for Majors</td>
<td>No</td>
</tr>
<tr>
<td>Elective for Majors</td>
<td>Yes No</td>
</tr>
<tr>
<td>Justification for change:</td>
<td>The catalog description is being updated according to current trends in functional analysis and faculty research interests.</td>
</tr>
<tr>
<td>Course Reviewer Comments</td>
<td>shannonk (09/27/17 9:41 am): Rollback: Only special topics and seminar courses may be repeated for credit. The committee is concerned that this course description does not contain language preventing students from getting credit for identical content. kristyg (01/08/18 3:30 pm): Rollback: Rollback per conversation with Paul Runnion.</td>
</tr>
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</table>

**Approval Path**

1. 09/07/17 1:22 pm sclark: Approved for RMATHEMA Chair
2. 09/08/17 10:20 am Brittany Parnell (ershenb): Approved for CCC Secretary
3. 09/27/17 9:41 am Katie Shannon (shannonk): Rollback to RMATHEMA Chair for Sciences DSCC Chair
4. 01/08/18 3:30 pm Kristy Giacomelli (kristyg): Rollback to Initiator
5. 01/08/18 3:37 pm sclark: Approved for RMATHEMA Chair
6. 01/11/18 9:13 am Brittany Parnell (ershenb):
Approved for CCC Secretary
7. 01/31/18 2:18 pm
Katie Shannon (shannonk):
Approved for Sciences DSCC Chair

8. 02/20/18 11:47 am
Brittany Parnell (ershenb):
Approved for Pending CCC Agenda post

9. 03/08/18 2:40 pm
Brittany Parnell (ershenb):
Approved for CCC Meeting Agenda

10. 03/08/18 4:45 pm
sraper: Approved for Campus Curricula Committee Chair
## Course Change Request

Date Submitted: 01/31/18 10:28 am

Viewing: **MET ENG 5480 : Refining Of Metals**

**File**: 2364.1  
Last edit: 02/01/18 9:38 am  
Changes proposed by: smiller

**Requested Effective Change Date**: Fall 2018 08/01/2014

---

**Department**: Materials Science & Engineering  
**Discipline**: Metallurgical Engineering (MET ENG)

**Course Number**: 5480  
**Title**: Refining Of Metals  
**Abbreviated Course Title**: Refining Of Metals

**Catalog Description**: Principles and applications of refined metal production by electrochemical methods, thermochemistry, phase equilibria, and kinetics as applied to the refining of metals and alloys. The course will address basic copper and zinc processing, electrometallurgy, anodes and anodic processes, cathode deposit control and contamination mechanisms, Faraday's Law and current efficiency, and current state of practice. Theory of dilute solutions, interaction coefficients and reactions of metals with gases and slags. Analysis and design of refining processes. Optional third credit hour requires a term paper.

**Prerequisites**: Cer Eng 3230 and Met Eng 3220 4350 or graduate standing. Cer Eng 3230.

**Field Trip Statement**: LEC: 9  
LAB: 0  
IND: 0  
RSD: 0  
Total: 3 2-3

**Credit Hours Required for Majors**: No  
**Elective for Majors**: Yes

**Justification for change**: change from independent study to lecture format, update course description.

---

**Approval Path**

1. 01/31/18 10:36 am  
   Greg Hilmas (ghilmas): Approved for RMATSENG Chair

2. 01/31/18 10:50 am  
   Brittany Parnell (ershenb): Approved for CCC Secretary

3. 02/13/18 1:49 pm sraper: Approved for Engineering DSCC Chair

4. 02/20/18 11:47 am  
   Brittany Parnell (ershenb): Approved for Pending CCC Agenda post

5. 02/20/18 11:47 am  
   Brittany Parnell (ershenb): Approved for Pending CCC Agenda post

6. 03/08/18 4:45 pm sraper: Approved
Course Change Request

A deleted record cannot be edited

Course Deactivation Proposal

Date Submitted: 02/05/18 10:05 am

Viewing: MIN ENG 4413 : Material Processing By High-Pressure Water Jet

File: 1702.1
Last edit: 02/05/18 10:08 am
Changes proposed by: cifarellit

Other Courses referencing this course

In The Catalog Description:

MECH ENG 5606 : Material Processing By High-Pressure Water Jet

Requested Effective Change Date

Fall 2017 08/01/2014

Department
Mining & Nuclear Engineering

Discipline
Mining Engineering (MIN ENG)

Course Number
4413

Title
Material Processing By High-Pressure Water Jet

Abbreviated Course Title
Mtl Proc Hghpres Wtr Jet

Catalog Description
Methods of generating high pressure water jets; standard equipment, existing techniques and basic calculations. Applications of water jets to materials cutting and mineral processing. Safety rules. The course will be supported by laboratory demonstrations.

Prerequisites

Field Trip Statement

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

Required for Majors
No

Elective for Majors
No

Justification for change:
Delete 4000 level undergrad courses and teach at a 5000 level. Will replace this course in the curriculum with 5413.

Semesters previously offered as an experimental course

Co-Listed Courses:
MECH ENG 5606 - Material Processing By High-Pressure Water Jet

Course Reviewer
Comments

Approval Path

1. 02/05/18 10:09 am
   Braden Lusk (Blusk): Approved for RMINNUCL Chair
2. 02/05/18 10:20 am
   Brittany Parnell (ershenb): Approved for CCC Secretary
3. 02/13/18 1:48 pm
   Sraper: Approved for Engineering DSCC Chair
4. 02/20/18 11:47 am
   Brittany Parnell (ershenb): Approved for Pending CCC Agenda post
5. 03/08/18 2:42 pm
   Brittany Parnell (ershenb): Approved for Peoplesoft

Meeting Agenda
# Course Change Request

A deleted record cannot be edited

## Course Deactivation Proposal

**Date Submitted:** 02/05/18 10:06 am  
**Viewing:** MIN ENG 4422: Coal Preparation  
**File:** 2362.1  
**Last edit:** 02/05/18 10:09 am  
**Changes proposed by:** cifarellit

<table>
<thead>
<tr>
<th>Programs referencing this course</th>
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</thead>
<tbody>
<tr>
<td>MNRL PR-MI: Mineral Process Eng Minor</td>
</tr>
</tbody>
</table>

### Requested Effective Change

Effective Change Date: Fall 2017 08/01/2014

**Department:** Mining & Nuclear Engineering  
**Discipline:** Mining Engineering (MIN ENG)  
**Course Number:** 4422  
**Title:** Coal Preparation  
**Abbreviated Course Title:** Coal Preparation

**Catalog Description:** Coal properties, sampling, testing, breaking, sizing, cleaning and dewatering. Disposal of refuse.

**Prerequisites:** Min Eng 3412 and senior standing.

**Field Trip Statement:**

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

**Required for Majors:** No  
**Elective for Majors:** No

**Justification for change:** Delete this 4000 level course and replace with 5000 level in the curriculum. This will be replaced with 5422.

**Semesters previously offered as an experimental course:**

**Co-Listed Courses:**

**Course Reviewer Comments:**

<table>
<thead>
<tr>
<th>Approval Path</th>
</tr>
</thead>
<tbody>
<tr>
<td>In Workflow</td>
</tr>
<tr>
<td>1. RMINNUCL Chair</td>
</tr>
<tr>
<td>2. CCC Secretary</td>
</tr>
<tr>
<td>3. Engineering DSCC Chair</td>
</tr>
<tr>
<td>4. Pending CCC Agenda post</td>
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<tr>
<td>5. CCC Meeting Agenda Committee Chair</td>
</tr>
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<td>6. Campus Curricula Committee Chair</td>
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<td>7. FS Meeting Agenda</td>
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<td>8. Faculty Senate Chair</td>
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<tr>
<td>9. Registrar</td>
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<tr>
<td>10. CAT entry</td>
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<tr>
<td>11. Peoplesoft</td>
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</tbody>
</table>

**Date Submitted:** 02/05/18 10:09 am  
**Braden lusk (blusk):** Approved for RMINNUCL Chair  
**Date:** 02/05/18 10:20 am  
**Brittany Parnell (ersheng):** Approved for CCC Secretary  
**Date:** 02/13/18 1:48 pm  
**sraper:** Approved for Engineering  
**Date:** 03/08/18 2:43 pm  
**Brittany Parnell (ersheng):** Approved for CCC Meeting Agenda

https://nextcatalog.mst.edu/courseleaf/courseleaf.cgi?page=/courseadmin/2362/index.html... 3/13/2018
6. 03/08/18 4:45 pm
sraper: Approved for Campus Curricula Committee Chair
# Course Change Request

**Date Submitted:** 10/31/17 12:16 pm

**Viewing:** MIN ENG 5413: Material Processing by High Pressure Water Jet  
Adv Mtl Proc Hghpres Wtr Jet

**File:** 500.1  
**Last edit:** 03/09/18 9:53 am  
**Changes proposed by:** cifarellit

<table>
<thead>
<tr>
<th>Requested</th>
<th>Fall 2018 08/01/2014</th>
</tr>
</thead>
<tbody>
<tr>
<td>Effective Change Date</td>
<td></td>
</tr>
<tr>
<td>Department</td>
<td>Mining &amp; Nuclear Engineering</td>
</tr>
<tr>
<td>Discipline</td>
<td>Mining Engineering (MIN ENG)</td>
</tr>
<tr>
<td>Course Number</td>
<td>5413</td>
</tr>
<tr>
<td>Title</td>
<td>Material Processing by High Pressure Water Jet Adv Mtl Proc Hghpres Wtr Jet</td>
</tr>
<tr>
<td>Abbreviated Course Title</td>
<td>Adv Mtl Proc Hghpres Wtr Jet</td>
</tr>
</tbody>
</table>

**Catalog Description:** Methods of generating high pressure water jets; standard equipment, existing techniques and basic calculations. Applications of water jets to materials cutting and mineral processing. Safety rules. The course will be supported by laboratory demonstrations. Advanced methods for continuously generating high pressure, power calculations, applications of waterjets in the mining and manufacturing industries, and safety considerations. Research paper or design project required.

**Prerequisites:** Mi Eng 4413 or Consent of Instructor.

**Field Trip Statement:**

**Credit Hours:**

<table>
<thead>
<tr>
<th>LEC</th>
<th>LAB</th>
<th>IND</th>
<th>RSD</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>3</td>
</tr>
</tbody>
</table>

**Required for Majors:** No

**Elective for Majors:** Yes No

**Semesters previously offered as an experimental course:**

**Co-Listed Courses:** MECH ENG 5606 - Material Processing By High-Pressure Water Jet

**Course Reviewer Comments:**

sraper (11/29/17 11:04 am): checked "elective for majors"

ershenb (03/09/18 9:53 am): Removed "Co-listed with Mech Eng 5606." from the prerequisites section.

**Approval Path**

1. 11/27/17 7:15 pm  
  Braden lusk (blusk): Approved for RMINNUCL Chair

2. 11/28/17 11:17 am  
  Brittany Parnell (ershenb): Approved for CCC Secretary

3. 01/08/18 1:43 pm  
  sraper: Approved for Engineering DSCC Chair

4. 01/23/18 4:01 pm  
  Brittany Parnell (ershenb): Approved for Pending CCC Agenda post

5. 03/09/18 9:53 am  
  Brittany Parnell (ershenb): Approved for CCC Meeting Agenda

6. 03/09/18 11:16 am  
  sraper: Approved for Campus
## Course Change Request

**Date Submitted:** 10/31/17 12:22 pm  
**Viewing:** MIN ENG 5422: Advanced Coal Preparation  
**File:** 2019.1  
**Last edit:** 03/09/18 9:52 am  
**Changes proposed by:** cifarelli

<table>
<thead>
<tr>
<th>Requested Effective Change Date</th>
<th>Fall 2018 08/01/2018</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Department</strong></td>
<td>Mining &amp; Nuclear Engineering</td>
</tr>
<tr>
<td><strong>Discipline</strong></td>
<td>Mining Engineering (MIN ENG)</td>
</tr>
<tr>
<td><strong>Course Number</strong></td>
<td>5422</td>
</tr>
<tr>
<td><strong>Title</strong></td>
<td>Advanced Coal Preparation</td>
</tr>
<tr>
<td><strong>Abbreviated Course Title</strong></td>
<td>Advanced Coal Preparation</td>
</tr>
</tbody>
</table>

### Catalog Description

- Coal properties, sampling, testing, breaking, sizing, cleaning and dewatering.  
- Disposal of refuse. Advanced methods for designing coal processing circuitry and practices, flowsheet design, sampling, advanced ash and moisture analyzers; coarse, intermediate, and fine coal cleaning; dewatering; dry coal cleaning research. Research paper or design project required.

### Prerequisites

- Min Eng 2412. Mi Eng 4422 or Consent of Instructor.

### Field Trip Statement

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

### Required for Majors

No

### Elective for Majors

Yes

### Justification for Change:

Course was being offered to graduate and undergraduate students under two separate course numbers. 5422 was selected as the course number to utilize based on recommendations of the curriculum committee.

### Field Trip Statement

- No

### Co-Listed Courses:

<table>
<thead>
<tr>
<th>Course Reviewer</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>sraper (11/29/17 11:14 am)</td>
<td>checked &quot;elective for majors&quot;</td>
</tr>
<tr>
<td>ershenb (03/09/18 9:52 am)</td>
<td>Removed &quot;consent of instructor&quot; from prerequisites.</td>
</tr>
</tbody>
</table>

### Approval Path

1. 11/27/17 7:16 pm  
   - Braden Lusk (blusk): Approved for RMINNUCL Chair

2. 11/28/17 11:20 am  
   - Brittany Parnell (ershenb): Approved for CCC Secretary

3. 01/08/18 1:43 pm  
   - sraper: Approved for Engineering DSCC Chair

4. 01/23/18 4:03 pm  
   - Brittany Parnell (ershenb): Approved for Pending CCC Agenda post

5. 03/09/18 9:52 am  
   - Brittany Parnell (ershenb): Approved for CCC Meeting Agenda

6. 03/09/18 11:16 am  
   - sraper: Approved for Campus

---

https://nextcatalog.mst.edu/courseleaf/courseleaf.cgi?page=/courseadmin/2019/index.html...  
3/13/2018
Course Change Request

New Course Proposal

Date Submitted: 01/22/18 2:55 pm

Viewing: MS&E 5060: Chemistry of Construction Materials

File: 4513
Last edit: 03/08/18 2:45 pm
Changes proposed by: kumarad

Requested Effective Change Date
Fall 2018

Department Materials Science & Engineering
Discipline Materials Science & Eng (MS&E)
Course Number 5060
Title Chemistry of Construction Materials
Abbreviated Course Title Const Mat Chem

Catalog
Description
The objective of the course is to utilize fundamental concepts of materials science and chemistry to understand, analyze, and describe the chemistry of construction materials. Special focus is given to describe composition-reactivity-microstructure-property relations in various cementitious materials.

Prerequisites
At least Senior Standing.

Field Trip
Statement

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

Justification for new course:
The course has been previously offered on two occasions -- as an experimental course (MSE 5001/6001) -- in Spring semester of 2016 and Fall semester of 2017.
Semesters
previously
offered as an
experimental
course
Spring 2016
Fall 2017

Spring 2016 enrollment (5001)- 5
Fall 2016 enrollment (6001)- 13

Co-Listed
Courses:

<table>
<thead>
<tr>
<th>Course Reviewer</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>sraper (01/23/18 2:43 pm)</td>
<td>took .00 our of hours (3.00) put 3 in total as it was zero. Changed to elective for majors. Will inquire about prereq statement. Not sure if this was approved at EC stage with &quot;Senior undergraduate&quot;.</td>
</tr>
<tr>
<td>ershenb (03/08/18 2:45 pm)</td>
<td>removed &quot;Senior Undergraduate&quot; in prereqs and added &quot;At least Senior Standing.&quot;</td>
</tr>
</tbody>
</table>

Key: 4513
Preview Bridge
# Course Change Request

## New Course Proposal

**Date Submitted:** 01/22/18 2:59 pm  
**Viewing:** MS&E 6060: Advanced Chemistry of Construction Materials

**File:** 4514  
**Last edit:** 03/08/18 2:48 pm  
**Changes proposed by:** kumarad

### Requested
- Effective Change Date: Fall 2018

### Department
- Materials Science & Engineering

### Discipline
- Materials Science & Eng (MS&E)

### Course Number
- 6060

### Title
- Advanced Chemistry of Construction Materials

### Abbreviated Course Title
- Adv Chem Const Mat

### Catalog Description
- To describe fundamental composition-reactivity-microstructure-property relationships in construction materials. Tests will include quizzes, written-exams, as well as a term paper and a presentation on a topic relevant to the course.

### Prerequisites

### Field Trip Statement

### Credit Hours
<table>
<thead>
<tr>
<th>LEC</th>
<th>LAB</th>
<th>IND</th>
<th>RSD</th>
<th>Total</th>
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</thead>
<tbody>
<tr>
<td>3</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>3</td>
</tr>
</tbody>
</table>

### Required for Majors
- No

### Elective for Majors
- Yes

### Justification for new course:
- The course has been previously offered on two occasions -- as an experimental course (MSE 5001/6001) -- in Spring semester of 2016 and Fall semester of 2017.

### Semesters previously offered as an experimental course
- Spring 2016
- Fall 2017

### Spring 2016 enrollment (5001) - 5
### Fall 2017 enrollment (6001) - 13

### Co-Listed Courses:

### Course Reviewer Comments

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
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</thead>
</table>
| **sraper (01/23/18 2:44 pm):** Fixed credit hours from 3.00 to 3 etc. Checked elective for majors. Will make inquiry about catalog description. Not sure if it was approved this way at EC level.  
**ershenb (03/08/18 2:48 pm):** removed "Graduate Standing" from prerequisite. |

### Approval Path

1. 01/22/18 3:12 pm  
   Greg Hilmas (ghilmas): Approved for RMATSENG Chair

2. 01/22/18 3:55 pm  
   Brittany Parnell (ershenb): Approved for CCC Secretary

3. 01/31/18 3:01 pm  
   sraper: Approved for Engineering DSCC Chair

5. 03/08/18 2:48 pm  
   Brittany Parnell (ershenb): Approved for CCC Meeting Agenda

6. 03/08/18 4:45 pm  
   sraper: Approved for Campus
## Course Change Request

### New Course Proposal

<table>
<thead>
<tr>
<th>Date Submitted: 01/10/18 4:23 pm</th>
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<tbody>
<tr>
<td>Viewing: <strong>PSYCH 3501 : Drugs and Behavior</strong></td>
</tr>
<tr>
<td>File: 4510</td>
</tr>
<tr>
<td>Last edit: 01/22/18 1:59 pm</td>
</tr>
<tr>
<td>Changes proposed by: hensleea</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Requested Effective Change Date</th>
<th>Fall 2018</th>
</tr>
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<tbody>
<tr>
<td>Department</td>
<td>Psychological Science</td>
</tr>
<tr>
<td>Discipline</td>
<td>Psychology (PSYCH)</td>
</tr>
<tr>
<td>Course Number</td>
<td>3501</td>
</tr>
<tr>
<td>Title</td>
<td>Drugs and Behavior</td>
</tr>
<tr>
<td>Abbreviated Course Title</td>
<td>Drugs and Behavior</td>
</tr>
</tbody>
</table>

| Catalog Description | An introduction to the behavioral effects of drugs. A broad range of topics are covered including the 1) History of therapeutic and recreational drug use and abuse 2) Consequences of drug abuse and addiction 3) Behavioral, psychological, and physiological effects of drugs 4) Research methods used to study drugs 5) Effective treatments for drug problems. |

<table>
<thead>
<tr>
<th>Prerequisites</th>
<th>Psych 1001.</th>
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</thead>
<tbody>
<tr>
<td>Field Trip Statement</td>
<td>LEC: 3 LAB: 0 IND: 0 RSD: 0 Total: 3</td>
</tr>
<tr>
<td>Credit Hours</td>
<td></td>
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<tr>
<td>Required for Majors</td>
<td>No</td>
</tr>
<tr>
<td>Elective for Majors</td>
<td>Yes</td>
</tr>
</tbody>
</table>

| Justification for new course: | To continue to provide an upper-level social science elective for engineering majors and to expand the clinical curriculum electives for psychology majors. |

<table>
<thead>
<tr>
<th>Semesters previously offered as an experimental course</th>
<th>Fall 2016 and Fall 2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>Co-Listed Courses:</td>
<td></td>
</tr>
</tbody>
</table>

| Course Reviewer Comments | |

### Approval Path

<table>
<thead>
<tr>
<th>Approval Path</th>
<th>01/11/18 12:48 pm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Approved for</td>
<td>RPSYCHOL Chair</td>
</tr>
<tr>
<td>Brittany Parnell</td>
<td>(ershenb)</td>
</tr>
<tr>
<td>02/01/18 9:22 am</td>
<td>Barry Flachsbart (barryf):</td>
</tr>
<tr>
<td>02/20/18 11:48 am</td>
<td>Brittany Parnell (ershenb):</td>
</tr>
<tr>
<td>03/08/18 2:49 pm</td>
<td>Brittany Parnell (ershenb):</td>
</tr>
</tbody>
</table>

https://nextcatalog.mst.edu/courseleaf/courseleaf.cgi?page=/courseadmin/4510/index.html... 3/13/2018
## Course Change Request

<table>
<thead>
<tr>
<th>Date Submitted:</th>
<th>02/11/18 8:19 pm</th>
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</thead>
<tbody>
<tr>
<td>Viewing:</td>
<td><strong>PSYCH 6602:</strong> Employee Affect and Behavior <em>Job Attitudes, Emotions, and Discretionary Behaviors</em></td>
</tr>
<tr>
<td>File:</td>
<td>4359.4</td>
</tr>
<tr>
<td>Last approved:</td>
<td>01/26/17 3:15 am</td>
</tr>
<tr>
<td>Last edit:</td>
<td>02/12/18 10:54 am</td>
</tr>
<tr>
<td>Changes proposed by:</td>
<td>weidnern</td>
</tr>
</tbody>
</table>

### Programs referencing this course

| Programs referencing this course: | INORGPS-MS: Industrial Organizational Psychology MS |

### Requested Effective Change Date

| Requested Effective Change Date: | Summer 2018 Fall 2017 |

### Department

| Department: | Psychological Science |

### Discipline

| Discipline: | Psychology (PSYCH) |

### Course Number

| Course Number: | 6602 |

### Title

| Title: | Employee Affect and Behavior *Job Attitudes, Emotions, and Discretionary Behaviors* |

### Abbreviated Course Title

| Abbreviated Course Title: | Affect Emotions and Behavior |

### Catalog Description

| Catalog Description: | Theory and research surrounding employee attitudes, emotions, and behaviors with an emphasis on antecedents and outcomes of: job satisfaction, engagement, organizational justice, trait and state positive and negative affect, organizational citizenship, counterproductive work, and proactive behaviors and the implications for both employees and organizations. |

### Prerequisites

| Prerequisites: | Psych 5010. |

### Field Trip Statement

| Field Trip Statement: | |

### Credit Hours

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

### Required for Majors

| Required for Majors: | Yes |

### Elective for Majors

| Elective for Majors: | No |

### Justification for change:

| Justification for change: | The old name was too long. Students were getting confused about it. Employee Affect and Behavior is a good name for the course which fits with it’s objectives. The short title has been changed as well. This course will be offered for the first time in SS 2018. If we can get the change done before then, it will never have been offered under the long name. |

### Semesters previously offered as an

| Semesters previously offered as an: | |

---

https://nextcatalog.mst.edu/courseleaf/courseleaf.cgi?page=/courseadmin/4359/index.html... 3/13/2018
<table>
<thead>
<tr>
<th>Course Reviewer</th>
<th>Comments</th>
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</thead>
<tbody>
<tr>
<td>murray (02/10/18 7:08 pm)</td>
<td>Rollback: the short title still has emotion. You sure about that? thanks</td>
</tr>
</tbody>
</table>

**Experimental course**

**Co-Listed Courses:**

**PSYCH 6602: Employee Affect and Behavior**

https://nextcatalog.mst.edu/courseleaf/courseleaf.cgi?page=/courseadmin/4359/index.html...
# Course Change Request

## New Course Proposal

**Date Submitted:** 01/31/18 8:35 pm  
**Viewing:** TCH COM 3550 : Writing for Social Media  
**File:** 4521  
**Last edit:** 03/12/18 9:20 am  
**Changes proposed by:** kswenson

**Requested Effective Change Date:** Fall 2018  
**Department:** English and Technical Communication  
**Discipline:** Technical Communication (TCH COM)  
**Course Number:** 3550  
**Title:** Writing for Social Media  
**Abbreviated Course Title:** Writing for Social Media  

**Catalog Description:**  
The theory and practice of writing for social media. Emphasis on the role of social media in industry.

**Prerequisites:**  
One semester of college composition or technical writing.

**Field Trip Statement:**

**Credit Hours:**  
<table>
<thead>
<tr>
<th>LEC</th>
<th>LAB</th>
<th>IND</th>
<th>RSD</th>
<th>Total</th>
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<tbody>
<tr>
<td>3</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>3</td>
</tr>
</tbody>
</table>

**Required for Majors:** No  
**Elective for Majors:** Yes

**Justification for new course:**  
Required for new minor, Social Media in Industry. See separate proposal with syllabus.

**Semesters previously offered as an**

---

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

**Approval Path:**  
1. 01/31/18 8:52 pm  
   Kristine Swenson  
   (kswenson):  
   Approved for RENGLISH Chair  
2. 02/01/18 3:43 pm  
   Brittany Parnell  
   (ershenb):  
   Approved for CCC Secretary  
3. 02/20/18 11:48 am  
   Petra Dewitt  
   (dewittp):  
   Approved for Arts & Humanities DSCC Chair  
4. 02/20/18 11:45 am  
   Brittany Parnell
<table>
<thead>
<tr>
<th>Experimental Course</th>
<th>N/A</th>
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<tbody>
<tr>
<td>Co-Listed Courses:</td>
<td></td>
</tr>
<tr>
<td>ENGL 3550 - <strong>Course Not Found</strong></td>
<td></td>
</tr>
</tbody>
</table>

**Course Reviewer Comments**

*ershenb (03/12/18 9:20 am):* Removed "Co-listed as ENGL 3550 Writing for Social Media." from Catalog Description.
# Course Change Request

**New Course Proposal**

| Date Submitted: 01/31/18 5:13 pm |
|-------------------|------------------|
| Viewing: **TCH COM 3580**: Business Communication |
| Last edit: 02/02/18 11:48 am |
| Changes proposed by: kswenson |
| Requested Effective Change Date |
| Department: English and Technical Communication |
| Discipline: Technical Communication (TCH COM) |
| Course Number: 3580 |
| Title: Business Communication |
| Abbreviated Course Title: Business Communication |
| Catalog Description: The principles and practice of business communication. Covers topics such as genres of business writing, business uses of social media, branding and content strategy, and intercultural business communication. |
| Prerequisites: One semester of college composition or technical writing. |
| Field Trip Statement: N/A |
| Credit Hours: LEC: 3 | LAB: 0 | IND: 0 | RSD: 0 | Total: 3 |
| Required for Majors: No |
| Elective for Majors: Yes |
| Justification for new course: Required for our new minor (proposed) in Social Media in Industry. See that proposal for justification. |
| Semesters previously |

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**Approval Path**

1. **01/31/18 5:19 pm**
   - Kristine Swenson (kswenson): Approved for RENGLISH Chair

2. **02/02/18 11:34 am**
   - Brittany Parnell (ershenb): Approved for CCC Secretary

3. **02/20/18 11:48 am**
   - Petra Dewitt (dewittp): Approved for Arts & Humanities DSCC Chair

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https://nextcatalog.mst.edu/courseleaf/courseleaf.cgi?page=/courseadmin/4520/index.html... 3/13/2018
<table>
<thead>
<tr>
<th>Course Reviewer</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>dewittp (02/02/18 11:48 am)</strong></td>
<td>Marked elective for majors.</td>
</tr>
</tbody>
</table>

Co-Listed Courses:

<table>
<thead>
<tr>
<th>Course Reviewer</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brittany Parnell (ershenb):</td>
<td>Approved for CCC Meeting Agenda</td>
</tr>
<tr>
<td>03/12/18 9:21 am</td>
<td></td>
</tr>
<tr>
<td>Brittany Parnell (ershenb):</td>
<td>Approved for Campus Curricula Committee Chair</td>
</tr>
<tr>
<td>03/12/18 9:42 am</td>
<td></td>
</tr>
</tbody>
</table>
Program Change Request

Date Submitted: 12/07/17 5:41 pm

Viewing: MATH-MST : Mathematics MST

File: 84.7

Last approved: 06/27/16 9:25 am

Last edit: 12/07/17 5:41 pm

Changes proposed by: prunnion

Catalog Pages Using this Program
Mathematics and Statistics

Start Term
Fall 2018

Program Code
MATH-MST

Department
Mathematics & Statistics

Title
Mathematics MST

Program Requirements and Description

The master of science for teachers program is primarily designed for secondary school teachers in the physical sciences and mathematics. The program of study must include at least 32 hours of courses numbered at the 4000-level or above in science and mathematics, three hours of which must be at the 6000-level. A student may, with the approval of the student's master's committee, substitute up to six credit hours of coursework at the 3000 level in place of six hours of 4000-level courses.

Justification for request

This change is being made to bring this degree into compliance with the standard that 2000-level courses are not permitted for graduate degree programs.

Supporting Documents

Course Reviewer Comments
Program Change Request

New Program Proposal

Date Submitted: 02/11/18 3:35 pm

Viewing: PROPOSED : Game Studies (Minor)

File: 259

Last edit: 02/12/18 3:15 pm

Changes proposed by: kswenson

Start Term

Fall 2018

Program Code

PROPOSED

Department

English and Technical Communication

Title

Game Studies (Minor)

Program Requirements and Description

Overall Goals and Objectives:

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

Requirements:

1. TCH COM or ENGL 3590 Game Studies
2. TCH COM 5530 - Usability Studies
3. English 1170--Creative Writing Fiction OR English 2171--Fiction Writing
4. One of the following:
   • English 2243--Science Fiction
   • English 2244--Fantasy Literature
Justification for request

Student demand to study games as an entertainment medium, as a learning tool, and as career field is high and increasing. Additionally, dozens of colleges and universities worldwide offer both degrees and minors in game studies, creating a vast and growing scholarly and learning community. This is a field that needs study and research from Missouri's premier science and technology university.

Games permeate society and culture in a number of significant ways. In fiction studies, games are a unique narrative medium that features interaction between reader (player) and author (developer). Like theatre, games are a collaborative art that includes cinema, animation, computer science, communication theory, and visual art. Through games, cognitive science, art, and media communication work together in production. A Game Studies minor therefore highlights interdisciplinarity and broadens skills/training of STEM, Psychological Science, Communication, and Humanities students.

Supporting Documents

- Game Studies Syllabus.docx
- Game Studies Minor Proposal.doc

Course Reviewer Comments

ershenb (02/12/18 11:32 am): added "t" to Graphic Novel
dewittp (02/12/18 3:15 pm): Clarified course requirements
The purpose of this minor will be to supplement existing degree programs with the latest knowledge concerning social media. Objectives include training students to write for social media, brand and market products via social media, use social media to conduct user research, and create and manage social media sites such as user forums. “Technical communicators are uniquely suited to serve as community managers of companies’ online help forums” (Jordan Frith, “Forum Moderation as Technical Communication: The Social Web and Employment Opportunities for Technical Communicators”).

1. ENGL/TCH COM 3550 Writing for Social Media (new course—required)
2. TCH COM 3580 Business Communication (new course—required)
3. ENGL/TCH COM 3560 Technical Marketing Communication (existing course—required)
4. One of the Following: TCH COM 5560 Web-Based Communication, TCH COM 4520 Help Authoring, TCH COM 3440 Theory of Visual Technical Communication

No new faculty will be required for this minor.

Justification for request

Technical communication students are routinely asked about their social media skills during job interviews. Because “social media is increasingly becoming a standard part of the technical communicator's toolkit” (Kirk St. Amant, "Reconsidering Social Media for Global Contexts"), students are anxious to acquire the latest theoretical and practical knowledge in this area. Other students, such as those majoring in business, IST, Ensligh, and the sciences, would also benefit from this minor. Almost every major company in the United States is now actively pursuing social media as a method for branding and building relationships with customers. Technical communicators are using it to connect with, and learn about, users of products and documents. Therefore, there is a high demand for employees with professional (rather than just casual) training in social media use.

Supporting Documents
PROPOSED: Minor in Social Media in Industry

https://nextcatalog.mst.edu/courseleaf/courseleaf.cgi?page=/programadmin/258/index.html... 3/13/2018
New Experimental Course Proposal

Date Submitted: 02/01/18 1:02 pm

Viewing: HISTORY 2001.001 : History of Mexico

File: 4522
Last edit: 03/08/18 3:05 pm
Changes proposed by: sfogg

Requested Fall 2018
Effective Change Date

Department History and Political Science

Discipline History (HISTORY)

Course Number 2001
Topic ID 001
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. 02/01/18 1:04 pm
   sfogg: Approved for RHISTORY Chair
2. 02/01/18 2:10 pm
   Brittany Parnell (ershenb):
   Approved for CCC Secretary
3. 02/02/18 11:41 am
   Petra Dewitt (dewittp):

https://nextcatalog.mst.edu/courseadmin/
<table>
<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>02/20/18 11:47 am</td>
<td>Brittany Parnell (ershenb):</td>
<td>Approved for Arts &amp; Humanities DSCC Chair Pending CCC Agenda post</td>
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<td>03/08/18 3:06 pm</td>
<td>Brittany Parnell (ershenb):</td>
<td>Approved for CCC Meeting Agenda</td>
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<td>03/08/18 4:44 pm</td>
<td>sraper:</td>
<td>Approved for Campus Curricula Committee Chair</td>
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<tr>
<td>03/09/18 8:23 am</td>
<td>Marita Tibbetts (tibbettsmg):</td>
<td>Approved for CAT entry</td>
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<table>
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<tr>
<th>Course Title</th>
<th>Instructors</th>
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<tbody>
<tr>
<td>History of Mexico</td>
<td>Rebecca Crosthwait</td>
</tr>
<tr>
<td>Experimental</td>
<td>History of Mexico</td>
</tr>
<tr>
<td>Abbreviated</td>
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</tbody>
</table>
Experimental
Catalog
Description
Examination of social, cultural, economic, and political history of modern Mexico since independence. Special attention given to indigenous peoples; modernization; and Mexico’s history of nation-building, protest, and revolution. Provides understanding of the particular relationships and interconnections Mexico has with the world and in particular, the U.S.
Prerequisites
One of either History 1100, 1200, 1300 or 1310.
Field Trip
Statement
Credit Hours          LEC: 3          LAB: 0          IND: 0          RSD: 0
Total: 3
Justification for new course:
Need an upper-level replacement for an instructor that received a grant in January. The course will add diversity to the offerings in the department.
Semester(s) previously taught
Co-Listed Courses:
Course Reviewer
Comments
ershenb (03/08/18 3:05 pm): added "One of" and removed repeating "History" out of prerequisite.
New Experimental Course Proposal

Date Submitted: 02/02/18 1:33 pm

Viewing: **PET ENG 6001.009 : Applications of Data Analytics in Petroleum Engineering**

**Requested Effective Change Date**

**Fall 2018**

**Department**

Geosciences and Geological and Petroleum Engineering

**Discipline**

Petroleum Engineering (PET ENG)

**Course Number**

6001

**Topic ID**

009

**Experimental Title**

Applications of Data Analytics in Petroleum Engineering

**Experimental Abbreviated Course Title**

Applic Data Analyt Pet E

**Instructors**

Mingzhen Wei

**Experimental Catalog Description**

Introduction to data analytics such as data quality mining, fundamental statistical analysis, artificial intelligent methods, goal identification and problem formulation, data analytics methods and selection, and pattern/knowledge discovery. Coursework will include petroleum engineering case studies, group/individual projects and literature review.

**Prerequisites**

Graduate Standing.

**Field Trip Statement**

N/A

**Credit Hours**

**LEC:** 2  **LAB:** 1  **IND:** 0  **RSD:** 0  **Total:** 3

**Justification for new course:**

Applications of data analytics are multiplying in oilfield operations. Pet Eng students are taking lower level courses in business in data analytics, which we will still encourage, but we wanted to offer an advanced class which is designed to focus on petroleum engineering applications.

**Semester(s) previously taught**

N/A

**Co-Listed Courses:**

**Course Reviewer Comments**

ershenb (03/12/18 11:21 am): Removed "Programming skills and consent of instructor." and replaced with "Graduate Standing" in the prerequisites.
Course Change Request

New Experimental Course Proposal

Date Submitted: 01/16/18 5:31 pm

Viewing: PSYCH 3001.003 : Psychology of Human Sexuality
File: 4511
Last edit: 03/08/18 3:12 pm
Changes proposed by: bakerden

Requested Effective Change Date
Fall 2018

Department Psychological Science
Discipline Psychology (PSYCH)
Course Number 3001
Topic ID 003
Experimental Title Psychology of Human Sexuality
Experimental Abbreviated Course Title Psych of Human Sexuality
Instructors Denise A Baker

Experimental Catalog Description
Explores research from neuro, cognitive, and social psychology related to aspects of human sexuality such as sexual development, love and attraction, gender and gender roles, and reproductive health. Students will also gain an understanding of key biological and neurological factors that influence human sexual anatomy, behaviors, beliefs, and attitudes.

Prerequisites
Psych 1101.

Field Trip Statement

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

Justification for new course:

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

Approval Path
1. 01/17/18 9:02 am
murray:
Approved for RPSYCHOL Chair
2. 01/22/18 1:53 pm
Brittany Parnell (ershenb):
Approved for CCC Secretary
3. 02/01/18 9:22 am
Barry Flachsbart (barryf):
Approved for Social Sciences DSCC Chair
4. 02/20/18 11:48 am
Brittany Parnell (ershenb):
Approved for Pending CCC Agenda post
5. 03/08/18 3:12 pm
Brittany Parnell (ershenb):
The course materials will be a relevant and important elective to undergraduate students majoring in psychology (especially clinical psychology or neuroscience). The course may also be relevant to student majoring in biology and students from other disciplines may also benefit from taking this course as an elective.

<table>
<thead>
<tr>
<th>Semester(s)</th>
<th>previously taught</th>
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<tr>
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<tr>
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<th>Comments</th>
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<tbody>
<tr>
<td>ershenb (03/08/18 3:12 pm):</td>
<td>Removed &quot;instructor permission&quot; from prerequisites</td>
</tr>
</tbody>
</table>

Key: 4511