



Minutes of the Campus Curricula Committee Meeting

March 1, 2017

3:00 pm, 216 Parker Hall

(For Faculty Senate Meeting of April 10, 2017)

Attendees: Ilene Morgan, Petra Dewitt, Steve Raper, Gearoid MacSithigh, Paul Worsey, Barry Flachsbart, Tom Schuman and Kristy Giacomelli

The following curriculum forms were discussed and approved:

Course Change Forms:

File#: 4350	BUS 5910: Privacy and Information Security Law
File#: 1368.1	BUS 6723: Artificial Intelligence, Robotics and Information System Management
File#: 519.5	CER ENG 2240: Applied Glass Forming
File#: 1451.4	CIV ENG 2601: Fundamentals Of Environmental Engineering And Science
File#: 6406	COMP SCI 6406: Machine Learning in Computer Vision
File#: 250.1	ENV ENG 3615: Water And Wastewater Engineering
File#: 447.1	ENV ENG 4609: Research in Environmental Engineering
File#: 4271.4	ERP 4220: Introduction to Enterprise Decision Dashboard Prototyping
File#: 563.6	ERP 5240: Enterprise Application Development and Software Security
File#: 1565.7	IS&T 1552: Implementing Information Systems: Data Perspective
File#: 2441.1	IS&T 3131: Computing Internals And Operating Systems
File#: 259.1	IS&T 3423: Database Management
File#: 4349	IS&T 4780: Human and Organizational Factors in Cybersecurity
File#: 4385	IS&T 6780: Adv Human and Organizations Factors in Cybersecurity
File#: 1903.6	MET ENG 3220: Introduction to Extractive Metallurgy
File#: 313.1	MET ENG 4230: Corrosion And Its Prevention

Please note that an administrative change will be required at process end due to a software issue. The extra "grade" will be removed and "elective for majors" will be marked.

File#: 2291.1	MET ENG 5520: Electron Microscopy
File#: 4391	MET ENG 5525: Scanning Electron Microscopy Lab
File#: 2215.5	MET ENG 6530: Transmission Electron Microscopy
File#: 4392	MET ENG 6535: Transmission Electron Microscopy Lab

Experimental Course Forms:

File#: 4372	CER ENG 4001.001: Introduction to Optical Properties of Materials
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Degree Change Forms:

File#: 247	PROPOSED : Cybersecurity Management and Information Assurance Minor
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File#: 2121.1 MET ENG 2002: Cooperative Training – *was shredded based on clarification of the department's intentions.*

The following form was tabled pending the submission of a degree change form:

File#: 1974.1 MET ENG 1210: Chemistry of Materials

The meeting adjourned at 4:15 pm.

A handwritten signature in cursive script, appearing to read "Ilene H. Morgan", written over a horizontal line.

Ilene H. Morgan, Chair
Missouri S&T Campus Curricula Committee

Course Inventory Change Request

New Course Proposal

Date Submitted: 02/02/17 9:47 am

Viewing: **BUS 5910 : Privacy and Information Security Law**

File: 4350

Last edit: 03/02/17 9:46 am

Changes proposed by: barryf

Requested Fall 2017

Effective Change

Date

Department Business and Information Technology

Discipline Business (BUS)

Course Number 5910

Title

Privacy and Information Security Law

Abbreviated Pvcy&Info Security Law

Course Title

Catalog

Description

In Workflow

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

Approval Path

1. 02/07/17 10:47
am
siauk: Approved
for RBUSADMN
Chair
2. 02/09/17 11:06
am
Lahne Black

- (lahne): Approved
for CCC Secretary
3. 02/09/17 12:08
pm
Barry Flachsbart
(barryf):
Approved for
Social Sciences
DSCC Chair
4. 02/14/17 10:45
am
Kristy Giacomelli
(kristyg):
Approved for
Pending CCC
Agenda post
5. 03/02/17 9:12 am
Kristy Giacomelli
(kristyg):
Approved for CCC
Meeting Agenda
6. 03/02/17 9:46 am
Ilene Morgan
(imorgan):
Approved for
Campus Curricula
Committee Chair

Explores issues concerning the use, disclosure, and protection of information (personal, organizational, health, and financial) from a legal perspective. A focus on understanding, planning, protecting, and responding to data breaches and other information risk and threats. Case studies based on litigation are reviewed and analyzed. Assumes MIS familiarity.

Prerequisites

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:

Required for the Cybersecurity Management and Information Assurance Minor.
Required for the Cybersecurity Management and Information Assurance Graduate
Certificate.

Semesters
previously
offered as an
experimental
course

F15 (6 enrolled students) and F16 (4 enrolled students) as IS&T 5001. We believe it is
more appropriately designated as a BUS course.

Co-Listed
Courses:

Course Reviewer
Comments

Course Inventory Change Request

Date Submitted: 02/07/17 8:50 pm

Viewing: **BUS 6723 : Artificial Intelligence, Robotics, and ~~Corporate~~ Information Systems Management**

File: 1368.1

Last edit: 02/09/17 11:07 am

Changes proposed by: barryf

Catalog Pages
referencing this
course

[Business Administration](#)

[Information Science and Technology](#)

Programs
referencing this
course

[BUS AD-MBA: Business Administration MBA](#)

Requested Fall **2017** ~~2014~~

Effective Change
Date

Department Business and Information Technology

Discipline Business (BUS)

Course Number 6723

Title
Artificial Intelligence, Robotics, and ~~Corporate~~ Information Systems Management

In Workflow

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

Approval Path

1. 02/07/17 10:11 pm
siauk: Approved for RBUSADMN Chair
2. 02/09/17 11:07 am
Lahne Black

Abbreviated Course Title	AI, Robotics, IS Mgmt Corporate Info Systems Mgt	(lahne): Approved for CCC Secretary
Catalog Description		<p>3. 02/09/17 12:09 pm Barry Flachsbart (barryf): Approved for Social Sciences DSCC Chair</p> <p>4. 02/14/17 10:53 am Kristy Giacomelli (kristyg): Approved for Pending CCC Agenda post</p> <p>5. 03/02/17 8:13 am Kristy Giacomelli (kristyg): Approved for CCC Meeting Agenda</p> <p>6. 03/02/17 9:17 am Ilene Morgan (imorgan): Approved for Campus Curricula Committee Chair</p>

The course, ~~This course is~~ designed ~~primarily for potential managerial end users as managers, entrepreneurs, or~~ business **executives, covers management of professionals in a technology-enabled business environment; it helps students learn how to use and manage** information to revitalize business processes, improve business decision-making, **embrace emerging and disruptive technologies, manage IT projects,** and gain competitive advantages. **The course also covers implications of AI, automation, machine learning, and robotics on business and society.** MBA core.

Prerequisites

Graduate standing.

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:

Focus more on modern topics.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 1368

[Preview Bridge](#)

Course Inventory Change Request

Date Submitted: 12/23/16 9:54 am

Viewing: **CER ENG 2240 ~~3240~~: Applied Glass Forming**

File: 519.5

Last approved: 10/21/16 2:24 pm

Last edit: 03/02/17 9:18 am

Changes proposed by: smiller

Requested	Fall Spring 2017
Effective Change Date	
Department	Materials Science & Engineering
Discipline	Ceramic Engineering (CER ENG)
Course Number	2240 3240
Title	Applied Glass Forming
Abbreviated Course Title	Applied Glass Forming

Catalog Description

- 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. Ishelton
 - 11. Peoplesoft

- Approval Path
- 1. 12/23/16 3:18 pm
mjokeefe:
Approved for
RMATSENG Chair
 - 2. 01/12/17 5:53 pm
Kristy Giacomelli
(kristyg):
Approved for CCC
Secretary

3. 01/25/17 3:36 pm
sraper: Approved
for Engineering
DSCC Chair
4. 02/14/17 10:54
am
Kristy Giacomelli
(kristyg):
Approved for
Pending CCC
Agenda post
5. 03/02/17 8:14 am
Kristy Giacomelli
(kristyg):
Approved for CCC
Meeting Agenda
6. 03/02/17 9:18 am
Ilene Morgan
(imorgan):
Approved for
Campus Curricula
Committee Chair

History

1. Oct 21, 2016 by
smiller (519.1)
-

Examines the properties and behavior of molten glass along with basic forming techniques, including off-hand shaping, molding and casting.

Prerequisites

A ~~"C" or better~~ grade of **"C" or better** in either Cer Eng 2210 or Met Eng 1210.

Freshman standing or sophomore standing only.

Field Trip

Statement

Credit Hours	LEC: 1	LAB: 1	IND: 0	RSD: 0
Total: 2				
Required for Majors	No			
Elective for Majors	Yes			

Justification for
change:

Course number change to more accurately reflect the level of the material presented in the course. Elimination of Met Eng 1210 as prerequisite due to deactivation of that course.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

sraper (01/25/17 3:36 pm): changed effective date to Fall 2017

Key: 519

[Preview Bridge](#)

Course Inventory Change Request

Date Submitted: 10/31/16 10:41 am

Viewing: **CIV ENG 2601 : Fundamentals Of Environmental Engineering And Science**

File: 1451.4

Last approved: 02/09/15 3:18 am

Last edit: 03/02/17 9:20 am

Changes proposed by: mfitc

Programs

referencing this

course

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

Other Courses

referencing this

course

In The Catalog Description:

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

In The Prerequisites:

[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](#)

[CIV ENG 6608 : Environmental Engineering Analysis Laboratory](#)

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

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

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. **Ishelton**

11. **Peoplesoft**

Approval Path

1. 01/18/17 11:41 am

Joel Burken

(burken):

Approved for

RCIVILEN Chair

2. 01/24/17 9:42 am

Kristy Giacomelli

(kristyg):

[ENV ENG 5650 : Public Health Engineering](#)
[ENV ENG 5665 : Indoor Air Pollution](#)
[ENV ENG 5670 : Solid Waste Management](#)
[ENV ENG 6608 : Environmental Engineering Analysis Laboratory](#)

Requested	Fall 2017 2015
Effective Change Date	
Department	Civil, Architectural, and Environmental Engineering
Discipline	Civil Engineering (CIV ENG)
Course Number	2601
Title	Fundamentals Of Environmental Engineering And Science
Abbreviated Course Title	Fund Of Env Engr & Sci

Catalog
Description

Approved for CCC
Secretary

3. 02/09/17 3:19 pm
sraper: Approved
for Engineering
DSCC Chair

4. 02/14/17 10:55
am

Kristy Giacomelli
(kristyg):

Approved for
Pending CCC

Agenda post

5. 03/02/17 8:15 am
Kristy Giacomelli
(kristyg):

Approved for CCC
Meeting Agenda

6. 03/02/17 9:20 am
Ilene Morgan
(imorgan):

Approved for
Campus Curricula
Committee Chair

History

1. Feb 9, 2015 by
mfitch (1451.1)

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.

Prerequisites

Chem 1310, Chem 1301, or Chem 1351; Math 1214, Math 1212, or Math 1208.

Field Trip Statement

Credit Hours LEC: 2 LAB: 1 IND: 0 RSD: 0

Total: 3

Required for
Majors Yes

Elective for
Majors No

Justification for change:

Objections from students without any chemistry or calculus that the class assumes some background. Had tried to avoid prereqs to make it easy to take, but indeed some such knowledge is assumed.

Semesters
previously
offered as an
experimental
course

Co-Listed

Courses:

ENV ENG 2601 - Fundamentals of Environmental Engineering and Science

Course Reviewer

Comments

sraper (01/26/17 1:13 pm): Changed effective date to FS 17.

Key: 1451

[Preview Bridge](#)

Course Inventory Change Request

New Course Proposal

Date Submitted: 01/05/17 11:28 am

Viewing: **COMP SCI 6406 : Machine Learning in
Computer Vision**

File: 4376

Last edit: 03/02/17 8:16 am

Changes proposed by: tauritzd

Requested Fall 2017

Effective Change
Date

Department Computer Science

Discipline Computer Science (COMP SCI)

Course Number 6406

Title
Machine Learning in Computer Vision

Abbreviated ML in Computer Vision
Course Title

Catalog
Description

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. Ishelton
11. Peoplesoft

Approval Path

1. 01/05/17 11:34
am
Sajal Das (sdas):
Approved for
RCOMPSCI Chair
2. 01/12/17 5:57 pm
Kristy Giacomelli
(kristyg):
Approved for CCC
Secretary

3. 01/25/17 3:37 pm
sraper: Approved
for Engineering
DSCC Chair
4. 02/14/17 10:55
am
Kristy Giacomelli
(kristyg):
Approved for
Pending CCC
Agenda post
5. 03/02/17 8:16 am
Kristy Giacomelli
(kristyg):
Approved for CCC
Meeting Agenda
6. 03/02/17 9:21 am
Ilene Morgan
(imorgan):
Approved for
Campus Curricula
Committee Chair

Introduces machine learning fundamentals in current computer vision research.

Topics include modeling complex data densities, regression and classification models, graphical models such as chains, trees, and grids, temporal models such as particle filtering and models for visual recognition such as deep learning. Students will implement select course topics.

Prerequisites

A grade of "C" or better in either Comp Sci 5402 or Comp Sci 5404.

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:

This course covers the state-of-the-art in machine learning applied to computer vision, an important topic in the CS department's computational intelligence and computer vision focus area. This course has been offered twice with solid enrollment for a 6000-level course and high teaching evaluations. It's being offered for a third time as an experimental course in SP2017 and we request that it be made permanent effective FS2017.

Semesters
previously
offered as an
experimental
course

SP2015, SP2016

Co-Listed
Courses:

Course Reviewer
Comments

Course Inventory Change Request

Date Submitted: 10/31/16 10:43 am

Viewing: **ENV ENG 3615 : Water And Wastewater Engineering**

File: 250.1

Last edit: 03/02/17 8:17 am

Changes proposed by: mfitch

Programs

referencing this course

EV ENG-BS: Environmental Engineering BS

Other Courses

referencing this course

In The Catalog Description:

CIV ENG 3615 : Water And Wastewater Engineering

In The Prerequisites:

CIV ENG 5619 : Environmental Engineering Design

ENV ENG 5619 : Environmental Engineering Design

ENV ENG 5635 : Phytoremediation and Natural Treatment Systems: Science and Design

Requested Fall **2017** ~~2014~~

Effective Change Date

Department Civil, Architectural, and Environmental Engineering

Discipline Environmental Engineering (ENV ENG)

Course Number 3615

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. Ishelton
- 11. Peoplesoft

Approval Path

- 1. 01/18/17 11:41 am
Joel Burken
(burken):
Approved for
RCIVILEN Chair
- 2. 01/24/17 9:42 am
Kristy Giacomelli
(kristyg):

<div data-bbox="89 105 164 140">Title</div> <div data-bbox="110 157 638 197">Water And Wastewater Engineering</div> <div data-bbox="89 231 277 268">Abbreviated</div> <div data-bbox="386 231 776 268">Water & Wastewater Engr</div> <div data-bbox="89 285 271 321">Course Title</div>	<div data-bbox="1273 84 1544 176">Approved for CCC Secretary</div> <div data-bbox="1242 193 1549 388">3. 02/09/17 3:19 pm sraper: Approved for Engineering DSCC Chair</div> <div data-bbox="1242 405 1515 497">4. 02/14/17 10:58 am</div> <div data-bbox="1273 514 1528 768">Kristy Giacomelli (kristyg): Approved for Pending CCC Agenda post</div> <div data-bbox="1242 785 1549 1037">5. 03/02/17 8:17 am Kristy Giacomelli (kristyg): Approved for CCC Meeting Agenda</div> <div data-bbox="1242 1054 1549 1356">6. 03/02/17 9:21 am Ilene Morgan (imorgan): Approved for Campus Curricula Committee Chair</div>
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A study of the engineering design principles dealing with the quantity, quality and treatment of water, and the quantity, characteristics, treatment and disposal of wastewater.

Prerequisites

Civ Eng 2601 and at least junior standing. ~~Civ Eng 2601.~~

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:

Sophomores with 2601 (current prerequisite) have done poorly, 3615 requires more intellectual maturity and thus JR standing.

Semesters
previously
offered as an
experimental
course

Co-Listed

Courses:

CIV ENG 3615 - Water And Wastewater Engineering

Course Reviewer

Comments

sraper (01/26/17 1:13 pm): Changed effective date to FS 17.

sraper (01/31/17 12:17 pm): changed to required course

Course Inventory Change Request

Date Submitted: 10/31/16 10:42 am

Viewing: **ENV ENG 4609 : Research in Environmental Engineering**

File: 447.1

Last edit: 01/31/17 12:18 pm

Changes proposed by: mfitich

Programs
referencing this
course

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

Requested Fall **2017** ~~2014~~
Effective Change
Date

Department Civil, Architectural, and Environmental Engineering

Discipline Environmental Engineering (ENV ENG)

Course Number 4609

Title
Research in Environmental Engineering

Abbreviated Research in Env Eng
Course Title

Catalog
Description

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. Ishelton
11. Peoplesoft

Approval Path

1. 01/18/17 11:41 am
Joel Burken
(burken):
Approved for
RCIVILEN Chair
2. 01/24/17 9:42 am
Kristy Giacomelli
(kristyg):

Approved for CCC
Secretary

3. 02/09/17 3:19 pm
craper: Approved
for Engineering
DSCC Chair

4. 02/14/17 10:58
am

Kristy Giacomelli
(kristyg):

Approved for
Pending CCC
Agenda post

5. 03/02/17 8:17 am
Kristy Giacomelli
(kristyg):

Approved for CCC
Meeting Agenda

6. 03/02/17 9:22 am
Ilene Morgan
(imorgan):

Approved for
Campus Curricula
Committee Chair

Students will investigate cutting edge research in the environmental engineering field including experimental studies, current environmental policy changes, and international environmental issues. Investigation to include live research seminars, reading current literature, and/or laboratory experimentation.

Prerequisites

Senior standing. ~~Env Eng or Civ Eng 3615.~~

Field Trip

Statement

Credit Hours

LEC: 1

LAB: 0

IND: 0

RSD: 0

Total: 1

Required for
Majors

No

Elective for
Majors

Yes ~~No~~

Justification for
change:

Delete 3615 prereq and replace with SR standing: the class does not build on 3615 but requires intellectual maturity.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer

Comments

sraper (01/26/17 1:14 pm): Changed effective date to FS 17.

sraper (01/31/17 12:18 pm): changed to elective for majors

Key: 447

[Preview Bridge](#)

Course Inventory Change Request

Date Submitted: 02/02/17 9:43 am

Viewing: **ERP 4220 : Introduction to Enterprise Decision Dashboard Prototyping**

File: 4271.4

Last approved: 10/24/16 3:11 am

Last edit: 03/02/17 8:18 am

Changes proposed by: barryf

Requested	Spring 2018 Fall 2016
Effective Change	
Date	
Department	Business and Information Technology
Discipline	Enterprise Resource Planning (ERP)
Course Number	4220
Title	Introduction to Enterprise Decision Dashboard Prototyping
Abbreviated	Intro Dashboard Prototyp
Course Title	

Catalog
Description

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

- Approval Path
- 1. 02/07/17 10:46 am
siauk: Approved for RINFSCTE Chair
 - 2. 02/09/17 11:13 am
Lahne Black (lahne): Approved for CCC Secretary

3. 02/09/17 12:09 pm
Barry Flachsbart
(barryf):
Approved for
Social Sciences
DSCC Chair
4. 02/14/17 10:59 am
Kristy Giacomelli
(kristyg):
Approved for
Pending CCC
Agenda post
5. 03/02/17 8:19 am
Kristy Giacomelli
(kristyg):
Approved for CCC
Meeting Agenda
6. 03/02/17 9:22 am
Ilene Morgan
(imorgan):
Approved for
Campus Curricula
Committee Chair

History

1. Oct 24, 2016 by
Barry Flachsbart
(barryf)
-

Study design and implementation principles for enterprise decision dashboards utilizing data warehouse and databases to support visual analytics. SAP HANA & BW, Business Objects Dashboards, IBM Watson Analytics, SAS Visual Analytics, or similar tools are used for practical assignments.

Prerequisites

A grade ~~(ERP 2110 or ERP 5110)~~ and one of "C" or better in ~~ERP 5410, ERP 6444, or~~
IS&T **1750. 6444.**

Field Trip

Statement

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

Required for Majors	No
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Elective for Majors	Yes
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Justification for
change:
Instructor believes this single prerequisite will suffice.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Course Inventory Change Request

Date Submitted: 02/02/17 9:44 am

Viewing: **ERP 5240 : Enterprise Application Development and Software Security** ~~Mobile Application Development~~

File: 563.6
Last approved: 06/27/16 3:12 am
Last edit: 02/09/17 11:26 am
Changes proposed by: barryf

Catalog Pages
referencing this
course
[Information Science and Technology](#)

Programs
referencing this
course
[MOBLB&T-MI: Mobile Bus & Tech Minor](#)

Requested	Summer 2017 Fall 2016
Effective Change Date	
Department	Business and Information Technology
Discipline	Enterprise Resource Planning (ERP)
Course Number	5240
Title	Enterprise Application Development and Software Security Mobile Application Development

- In Workflow
- 1. **RBUSADMN** Chair
 - 2. **CCC Secretary**
 - 3. **Social Sciences DSCC Chair**
 - 4. **Pending CCC Agenda post**
 - 5. **CCC Meeting Agenda**
 - 6. **Campus Curricula Committee Chair**
 - 7. **FS Meeting Agenda**
 - 8. Faculty Senate Chair
 - 9. Registrar
 - 10. Ishelton
 - 11. Peoplesoft

- Approval Path
- 1. 02/07/17 10:47 am
siauk: Approved for RBUSADMN Chair
 - 2. 02/09/17 11:24 am
Lahne Black

Abbreviated Course Title	App Dev & Sftwr Security Enterprise & Mobile Apps	(lahne): Approved for CCC Secretary
Catalog Description		3. 02/09/17 12:09 pm Barry Flachsbart (barryf): Approved for Social Sciences DSCC Chair
		4. 02/14/17 11:14 am Kristy Giacomelli (kristyg): Approved for Pending CCC Agenda post
		5. 03/02/17 8:19 am Kristy Giacomelli (kristyg): Approved for CCC Meeting Agenda
		6. 03/02/17 9:23 am Ilene Morgan (imorgan): Approved for Campus Curricula Committee Chair
		History
		1. Jun 27, 2016 by barryf (563.1)

This course provides a conceptual foundation and hands on experience in web and mobile based (HTML5) applications development deployed through an enterprise ~~Enterprise and Mobile~~ platform. ~~SAP~~ Enterprise development tools, such as SAP

~~tools will be used to build these apps, including SAP Design Studio, HANA Cloud Platform, and SAP Mobile Platform.~~ **will be used to build these apps. The course also covers software cybersecurity from a web and mobile perspective**

Prerequisites

Programming knowledge and either ERP 2110 or preceded or accompanied by ERP 5110.

Field Trip

Statement

Credit Hours

LEC: 3

LAB: 0

IND: 0

RSD: 0

Total: 3

Required for
Majors

No

Elective for
Majors

Yes ~~No~~

Justification for
change:

Changing the course to deal more extensively with security issues.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer

Comments

siauk (01/31/17 12:58 pm): Rollback: As you requested.

Course Inventory Change Request

Date Submitted: 02/01/17 6:38 pm

Viewing: **IS&T 1552 : Implementing Information Systems: Data Perspective**

File: 1565.7

Last approved: 10/31/16 3:11 am

Last edit: 03/02/17 8:35 am

Changes proposed by: barryf

Programs

referencing this
course

[BUS&MS-BS: Business and Mgmt Systems BS](#)

[IST-BS: Information Science and Tch BS](#)

[IST-MI: Information Sci & Tech Minor](#)

Other Courses

referencing this
course

In The Prerequisites:

[IS&T 3131 : Computing Internals And Operating Systems](#)

[IS&T 3333 : Data Networks and Information Security](#)

[IS&T 3420 : Introduction to Data Science and Management](#)

[IS&T 3423 : Database Management](#)

[IS&T 3553 : Modular Software Systems in Java](#)

[IS&T 5423 : Foundations of Data Management](#)

[PSYCH 3720 : Web Design And Development](#)

Requested Spring **2018** ~~2017~~
Effective Change
Date

In Workflow

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

Approval Path

1. 02/01/17 7:16 pm
siauk: Approved
for RINFSCTE
Chair
2. 02/09/17 11:24
am
Lahne Black
(lahne): Approved
for CCC Secretary

Department Business and Information Technology

Discipline Info Science & Technology (IS&T)

Course Number 1552

Title

Implementing Information Systems: Data Perspective

Abbreviated Info Sys: Data Perspective

Course Title

Catalog

Description

3. 02/09/17 12:09
pm

Barry Flachsbart
(barryf):

Approved for
Social Sciences
DSCC Chair

4. 02/14/17 11:16
am

Kristy Giacomelli
(kristyg):

Approved for
Pending CCC
Agenda post

5. 03/02/17 8:35 am

Kristy Giacomelli
(kristyg):

Approved for CCC
Meeting Agenda

6. 03/02/17 9:24 am

Ilene Morgan
(imorgan):
Approved for
Campus Curricula
Committee Chair

History

1. Oct 31, 2016 by
barryf (1565.1)

Continuation of object-oriented programming in the context of developing and implementing the various components of an information system with particular attention given to database incorporation. Class will include numerous projects covering intermediate topics.

Prerequisites

A grade of "C" or better in IS&T 1551. ~~IS&T 1551.~~

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
change:

1552 is the follow-on to 1551. A student with a D in 1551 is not ready to move on.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 1565

[Preview Bridge](#)

Course Inventory Change Request

Date Submitted: 02/02/17 9:48 am

Viewing: **IS&T 3131 : Computing Internals And Operating Systems**

File: 2441.1

Last edit: 03/02/17 9:25 am

Changes proposed by: barryf

Programs

referencing this course

IST-BS: Information Science and Tch BS

Other Courses

referencing this course

In The Prerequisites:

IS&T 3553 : Modular Software Systems in Java

Requested **Spring 2018** ~~Fall 2014~~

Effective Change Date

Department Business and Information Technology

Discipline Info Science & Technology (IS&T)

Course Number 3131

Title
Computing Internals And Operating Systems

Abbreviated Comp Internals & Op Sys
Course Title

In Workflow

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

Approval Path

- 1. 02/07/17 10:46 am
siauk: Approved for RINFSCTE Chair
- 2. 02/09/17 11:25 am
Lahne Black (lahne): Approved for CCC Secretary

Catalog Description

3. 02/09/17 12:10 pm
Barry Flachsbart
(barryf):
Approved for
Social Sciences
DSCC Chair
4. 02/14/17 11:17 am
Kristy Giacomelli
(kristyg):
Approved for
Pending CCC
Agenda post
5. 03/02/17 8:35 am
Kristy Giacomelli
(kristyg):
Approved for CCC
Meeting Agenda
6. 03/02/17 9:25 am
Ilene Morgan
(imorgan):
Approved for
Campus Curricula
Committee Chair

Design-oriented introduction to computer components and operation. Standard codes; number systems; base conversions; computer arithmetic; boolean algebra; operating system components including memory management, device management, and I/O management; and related issues are covered.

Prerequisites

A grade of "C" ~~IS&T 1552~~ or better in either IS&T 1552 or Comp Sci 1510.

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:

A grade better than D is needed for this course.

Semesters previously offered as an experimental course

Co-Listed Courses:

Course Reviewer Comments

Key: 2441

[Preview Bridge](#)

Course Inventory Change Request

Date Submitted: 02/02/17 9:49 am

Viewing: **IS&T 3423 : Database Management**

File: 259.1

Last edit: 03/02/17 9:27 am

Changes proposed by: barryf

Programs

referencing this
course

[ANA&DTA-MI: Business Analytics and Data Science Minor](#)

[IST-BS: Information Science and Tch BS](#)

Other Courses

referencing this
course

In The Prerequisites:

[ERP 5410 : Use of Business Intelligence](#)

[ERP 6444 : Essentials of Data Warehouses](#)

[IS&T 3343 : Systems Analysis](#)

[IS&T 6444 : Essentials of Data Warehouses](#)

Requested

Spring 2018 ~~Fall 2014~~

Effective Change

Date

Department

Business and Information Technology

Discipline

Info Science & Technology (IS&T)

Course Number

3423

Title

Database Management

In Workflow

1. **RINFSCTE Chair**

2. **CCC Secretary**

3. **Social Sciences**

DSCC Chair

4. **Pending CCC**

Agenda post

5. **CCC Meeting**

Agenda

6. **Campus Curricula**

Committee Chair

7. **FS Meeting**

Agenda

8. Faculty Senate
Chair

9. Registrar

10. Ishelton

11. Peoplesoft

Approval Path

1. 02/07/17 10:46
am

siauk: Approved
for RINFSCTE
Chair

2. 02/09/17 11:26
am

Lahne Black
(lahne): Approved
for CCC Secretary

Abbreviated Course Title	Database Management	3. 02/09/17 12:10 pm Barry Flachsbart (barryf): Approved for Social Sciences DSCC Chair
Catalog Description		4. 02/14/17 11:17 am Kristy Giacomelli (kristyg): Approved for Pending CCC Agenda post
		5. 03/02/17 8:42 am Kristy Giacomelli (kristyg): Approved for CCC Meeting Agenda
		6. 03/02/17 9:27 am Ilene Morgan (imorgan): Approved for Campus Curricula Committee Chair

The course introduces the concepts of database management systems. Issues in database architecture, design, administration, and implementation are covered.

Prerequisites

IS&T 1750; **A grade of C** ~~IS&T 1552~~ or **better in either IS&T 1552 or** Comp Sci 1510.

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:

A grade better than D in programming is required for this course.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 259

[Preview Bridge](#)

Course Inventory Change Request

New Course Proposal

Date Submitted: 02/02/17 9:47 am

Viewing: **IS&T 4780 : Human and Organizational Factors in Cybersecurity**

File: 4349

Last edit: 03/02/17 9:47 am

Changes proposed by: barryf

Requested Fall 2017

Effective Change

Date

Department Business and Information Technology

Discipline Info Science & Technology (IS&T)

Course Number 4780

Title

Human and Organizational Factors in Cybersecurity

Abbreviated Factors in Cybersecurity

Course Title

Catalog

Description

In Workflow

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

Approval Path

1. 02/07/17 10:46
am
siauk: Approved
for RINFSCTE
Chair
2. 02/09/17 11:27
am
Lahne Black
(lahne): Approved
for CCC Secretary

3. 02/09/17 12:10 pm
Barry Flachsbart
(barryf):
Approved for
Social Sciences
DSCC Chair
4. 02/14/17 11:18 am
Kristy Giacomelli
(kristyg):
Approved for
Pending CCC
Agenda post
5. 03/02/17 8:43 am
Kristy Giacomelli
(kristyg):
Approved for CCC
Meeting Agenda
6. 03/02/17 9:47 am
Ilene Morgan
(imorgan):
Approved for
Campus Curricula
Committee Chair

In-depth examination of human and organizational factors in cybersecurity and information assurance. Study of how to protect information integrity, availability, and confidentiality, as well as tools, methods, principles, and analytics for fraud prevention, insider threat detection, and forensic investigations. Assumes prior exposure to cybersecurity or IA.

Prerequisites

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:

Required for the Cybersecurity Management and Information Assurance Minor

Semesters
previously
offered as an
experimental
course

None

Co-Listed
Courses:

Course Reviewer
Comments

Key: 4349

[Preview Bridge](#)

Course Inventory Change Request

New Course Proposal

Date Submitted: 02/02/17 9:48 am

Viewing: **IS&T 6780 : Adv Human and Organizational Factors in Cybersecurity**

File: 4385

Last edit: 03/02/17 9:32 am

Changes proposed by: barryf

Requested Fall 2017

Effective Change

Date

Department Business and Information Technology

Discipline Info Science & Technology (IS&T)

Course Number 6780

Title

Adv Human and Organizational Factors in Cybersecurity

Abbreviated Adv Fctrs Cybersecurity

Course Title

Catalog

Description

In Workflow

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

Approval Path

1. 02/07/17 10:46
am
siauk: Approved
for RINFSCTE
Chair
2. 02/09/17 11:27
am
Lahne Black
(lahne): Approved
for CCC Secretary

3. 02/09/17 12:11 pm
Barry Flachsbart
(barryf):
Approved for
Social Sciences
DSCC Chair
4. 02/14/17 11:19 am
Kristy Giacomelli
(kristyg):
Approved for
Pending CCC
Agenda post
5. 03/02/17 8:44 am
Kristy Giacomelli
(kristyg):
Approved for CCC
Meeting Agenda
6. 03/02/17 9:33 am
Ilene Morgan
(imorgan):
Approved for
Campus Curricula
Committee Chair

In-depth examination of human and organizational factors in cybersecurity and information assurance. Examines current challenges to protecting the integrity, availability, and confidentiality of information, as well as tools, methods, principles, and analytics for fraud prevention, insider threat detection, and forensic investigations. Project Required.

Prerequisites

None, but recommended: IS&T 3333 or IS&T 6336 or Comp Sci 3600 or another introductory cybersecurity or information assurance course.

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:

Required for the Cybersecurity Management and Information Assurance Graduate Certificate.

Paired with IS&T 4780, which is required for the Cybersecurity Management and Information Assurance Minor.

Semesters
previously
offered as an
experimental
course
None

Co-Listed
Courses:

Course Reviewer Comments

imorgan (03/02/17 9:32 am): At the CCC meeting, we discussed removing the prerequisite and putting the desired background in the description. I am in the process of doing this for IS&T 4780, but I think there's an argument for keeping the full description of the desired background in the 6000-level version (since prerequisites for 6000-level course are essentially informational).

Course Inventory Change Request

Date Submitted: 12/23/16 2:29 pm

Viewing: **MET ENG 3220 : Introduction To Extractive Metallurgy**

File: 1903.6

Last approved: 05/06/16 3:33 am

Last edit: 03/02/17 9:48 am

Changes proposed by: smiller

Programs

referencing this
course

[MT ENG-BS: Metallurgical Engineering BS](#)

Other Courses

referencing this
course

In The Prerequisites:

[MET ENG 3225 : Extractive Metallurgy Laboratory](#)

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. Ishelton
11. Peoplesoft

Requested

Fall 2017 ~~Summer 2016~~

Effective Change
Date

Department

Materials Science & Engineering

Discipline

Metallurgical Engineering (MET ENG)

Course Number

3220

Title

Introduction To Extractive Metallurgy

Approval Path

1. 12/23/16 3:18 pm
mjokeefe:
Approved for
RMATSENG Chair
2. 01/12/17 5:58 pm
Kristy Giacomelli
(kristyg):
Approved for CCC
Secretary

Abbreviated
Course Title

Intro Extractive Met

Catalog
Description

3. 01/25/17 3:39 pm
srafer: Approved
for Engineering
DSCC Chair
4. 02/14/17 11:25
am
Kristy Giacomelli
(kristyg):
Approved for
Pending CCC
Agenda post
5. 03/02/17 8:45 am
Kristy Giacomelli
(kristyg):
Approved for CCC
Meeting Agenda
6. 03/02/17 9:48 am
Ilene Morgan
(imorgan):
Approved for
Campus Curricula
Committee Chair

History

1. Nov 3, 2014 by
smiller (1903.1)
2. May 6, 2016 by
smiller (1903.4)

Production and refining of metals by pyrometallurgy, hydrometallurgy, and electrometallurgy. Emphasis on heat and mass balance calculations for the unit processes of metals extraction. Introduction to the principles of combustion, heat utilization and recovery.

Prerequisites

A ~~"C" or better~~ grade of **"C" or better** in **either Chem 1320 or** Met Eng 1210.

Preceded or accompanied by Met Eng 3330 or Cer Eng 3230 or Chem Eng 2210.

Field Trip

Statement

Credit Hours

LEC: 3

LAB: 0

IND: 0

RSD: 0

Total: 3

Required for

Yes

Majors

Elective for

No

Majors

Justification for
change:

Deactivation of Met Eng 1210, substitute Chem 1320.

Semesters

previously

offered as an

experimental

course

Co-Listed

Courses:

Course Reviewer

Comments

sraper (01/25/17 3:39 pm): approve but DC will need to be changed.

Course Inventory Change Request

Date Submitted: 12/23/16 10:34 am

Viewing: **MET ENG 4230 : Corrosion And Its Prevention**

File: 313.1

Last edit: 03/08/17 8:51 am

Changes proposed by: smiller

Programs
referencing this
course

[MT ENG-BS: Metallurgical Engineering BS](#)

Requested	Fall 2017 2014
Effective Change Date	
Department	Materials Science & Engineering
Discipline	Metallurgical Engineering (MET ENG)
Course Number	4230

Title	Corrosion And Its Prevention
Abbreviated Course Title	Corrosion & Its Prevent

Catalog
Description

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

- Approval Path
- 1. 12/23/16 3:18 pm
mjokeefe:
Approved for
RMATSENG Chair
 - 2. 01/12/17 5:58 pm
Kristy Giacomelli
(kristyg):
Approved for CCC
Secretary

3. 01/25/17 3:41 pm
sraper: Approved
for Engineering
DSCC Chair
4. 02/14/17 11:25
am
Kristy Giacomelli
(kristyg):
Approved for
Pending CCC
Agenda post
5. 03/08/17 8:51 am
Lahne Black
(lahne): Rollback
to Pending CCC
Agenda post for
RCHEMENG Chair
6. 03/08/17 8:52 am
Lahne Black
(lahne): Approved
for Pending CCC
Agenda post
7. 03/08/17 12:22
pm
Daniel Forciniti
(forcinit):
Approved for
RCHEMENG Chair
8. 03/08/17 1:18 pm
Kristy Giacomelli
(kristyg):
Approved for CCC
Meeting Agenda
9. 03/08/17 1:19 pm
Ilene Morgan
(imorgan):

Approved for
Campus Curricula
Committee Chair

A study of the theories of corrosion and its application to corrosion and its prevention.

Prerequisites

A grade of "C" or better ~~grade~~ ~~grade~~ in either Chem **Eng 3120** ~~3430~~ or Cer **Eng Eng** 3230.

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:

The prerequisite change is meant to include a more relevant prerequisite for Chemical Engineering students, and the co-listing change provides the correct course number of the co-listed Chem Eng course

Semesters
previously
offered as an
experimental
course

Co-Listed

Courses:

~~CHEM ENG 5310 - Structure And Properties Of Polymers~~
CHEM ENG 5315 - Corrosion And Its Prevention

Course Reviewer

Comments

lahne (03/08/17 8:51 am): Rollback: .

Key: 313

[Preview Bridge](#)

Course Inventory Change Request

Date Submitted: 12/23/16 2:32 pm

Viewing: **MET ENG 5520 : ~~Scanning~~-Electron Microscopy**

File: 2291.1

Last edit: 03/02/17 3:21 pm

Changes proposed by: smiller

Other Courses
referencing this
course

In The Prerequisites:
MET ENG 6530 : Transmission Electron Microscopy

Requested	Fall 2017 2014
Effective Change Date	
Department	Materials Science & Engineering
Discipline	Metallurgical Engineering (MET ENG)
Course Number	5520
Title	Scanning -Electron Microscopy
Abbreviated Course Title	Electron Microscopy Scanning-Electrn Microse

Catalog
Description

- 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. Ishelton
 - 11. Peoplesoft

- Approval Path
- 1. 12/23/16 3:18 pm
mjokeefe:
Approved for
RMATSENG Chair
 - 2. 01/12/17 5:58 pm
Kristy Giacomelli
(kristyg):
Approved for CCC
Secretary

3. 01/25/17 3:40 pm
sraper: Approved
for Engineering
DSCC Chair
4. 02/14/17 11:26
am
Kristy Giacomelli
(kristyg):
Approved for
Pending CCC
Agenda post
5. 03/02/17 8:52 am
Kristy Giacomelli
(kristyg):
Approved for CCC
Meeting Agenda
6. 03/02/17 3:22 pm
Ilene Morgan
(imorgan):
Approved for
Campus Curricula
Committee Chair

A course in the theory and application of **both** scanning **and transmission** electron microscopy **and** ~~and~~ x-ray microanalysis. Topics considered are electron optics, image formation and analysis; x-ray generation, detection and analysis; and characterization of fracture surfaces.

Prerequisites

Met Eng 3130 and **Met Eng 2125, 2125** or **a** course in optical **microscopy**.
~~microscopy -- consent of instructor required.~~

Field Trip

Statement

Credit Hours

LEC: **3 2**

LAB: **0 1**

IND: 0

RSD: 0

Total: 3

Required for
Majors No

Elective for
Majors **Yes** ~~No~~

Justification for
change:

Expand lecture to three credit hours and incorporate lecture materials from Met 5520 and Met 6530, eliminate lab hour. Will create separate courses for SEM and TEM labs as Met 5525 and Met Eng 6535, respectively.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer

Comments

kristyg (03/02/17 8:52 am): I left the Pre-Req as is. The only thing that is checked on the pre-req check is the 2 courses. The other is assumed and they would need to hand out a number if they do not meet the course requirements. It would be our recommendation that consent of instructor be removed, as that is already assumed.

Course Inventory Change Request

New Course Proposal

Date Submitted: 12/23/16 2:38 pm

Viewing: **MET ENG 5525 : Scanning Electron Microscopy Lab**

File: 4391

Last edit: 03/02/17 8:56 am

Changes proposed by: smiller

Requested Fall 2017

Effective Change

Date

Department Materials Science & Engineering

Discipline Metallurgical Engineering (MET ENG)

Course Number 5525

Title

Scanning Electron Microscopy Lab

Abbreviated SEM Lab

Course Title

Catalog

Description

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. Ishelton
11. Peoplesoft

Approval Path

1. 12/23/16 3:18 pm
mjokeefe:
Approved for
RMATSENG Chair
2. 01/12/17 5:58 pm
Kristy Giacomelli
(kristyg):
Approved for CCC
Secretary

3. 01/25/17 3:40 pm
sraper: Approved
for Engineering
DSCC Chair
4. 02/14/17 11:27
am
Kristy Giacomelli
(kristyg):
Approved for
Pending CCC
Agenda post
5. 03/02/17 8:56 am
Kristy Giacomelli
(kristyg):
Approved for CCC
Meeting Agenda
6. 03/02/17 10:22
am
Ilene Morgan
(imorgan):
Approved for
Campus Curricula
Committee Chair

A course in the practical use and operation of scanning electron beam instruments and their associated techniques.

Prerequisites

Preceded or accompanied by Met Eng 5520.

Field Trip

Statement

Credit Hours

LEC: 0

LAB: 1

IND: 0

RSD: 0

Total: 1

Required for
Majors

No

Elective for
Majors

Yes

Justification for
new course:

Move lab component out of previous Met Eng 5520 course, for a stand-alone lab course.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 4391

[Preview Bridge](#)

Course Inventory Change Request

A deleted record cannot be edited

Course Deactivation Proposal

Date Submitted: 12/23/16 2:43 pm

Viewing: **MET ENG 6530 : Transmission Electron Microscopy**

File: 2215.5

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

Last edit: 12/23/16 2:43 pm

Changes proposed by: smiller

Requested	Fall 2017 2016
Effective Change	
Date	
Department	Materials Science & Engineering
Discipline	Metallurgical Engineering (MET ENG)
Course Number	6530
Title	Transmission Electron Microscopy
Abbreviated	Transmis Elec Microscopy
Course Title	

Catalog	
Description	

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. Ishelton
- 11. Peoplesoft

Approval Path

- 1. 12/23/16 3:18 pm
mjokeefe:
Approved for
RMATSENG Chair
- 2. 01/12/17 5:58 pm
Kristy Giacomelli
(kristyg):
Approved for CCC
Secretary

3. 01/25/17 3:40 pm
sraper: Approved
for Engineering
DSCC Chair
4. 02/14/17 11:28
am
Kristy Giacomelli
(kristyg):
Approved for
Pending CCC
Agenda post
5. 03/02/17 9:15 am
Kristy Giacomelli
(kristyg):
Approved for CCC
Meeting Agenda
6. 03/02/17 10:23
am
Ilene Morgan
(imorgan):
Approved for
Campus Curricula
Committee Chair

History

1. May 24, 2016 by
smiller (2215.1)
-

A course in the theory and application of transmission electron microscopy. Topics considered are electron optics, image formation, defect structures, specimen preparation, contrast theory and electron diffraction.

Prerequisites

Met Eng 5520 and graduate 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:

Content moved to expanded Met Eng 5520 course and newly created Met Eng 6535 lab course.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 2215

[Preview Bridge](#)

Course Inventory Change Request

New Course Proposal

Date Submitted: 12/23/16 2:42 pm

Viewing: **MET ENG 6535 : Transmission Electron Microscopy Lab**

File: 4392

Last edit: 03/02/17 9:15 am

Changes proposed by: smiller

Requested	Fall 2017
Effective Change Date	
Department	Materials Science & Engineering
Discipline	Metallurgical Engineering (MET ENG)
Course Number	6535
Title	Transmission Electron Microscopy Lab
Abbreviated Course Title	TEM Lab

Catalog Description

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. Ishelton
- 11. Peoplesoft

Approval Path

- 1. 12/23/16 3:18 pm mjokeefe: Approved for RMATSENG Chair
- 2. 01/12/17 5:58 pm Kristy Giacomelli (kristyg): Approved for CCC Secretary

3. 01/25/17 3:40 pm
sraper: Approved
for Engineering
DSCC Chair
4. 02/14/17 11:29
am
Kristy Giacomelli
(kristyg):
Approved for
Pending CCC
Agenda post
5. 03/02/17 9:15 am
Kristy Giacomelli
(kristyg):
Approved for CCC
Meeting Agenda
6. 03/02/17 10:23
am
Ilene Morgan
(imorgan):
Approved for
Campus Curricula
Committee Chair

A course in the practical use and operation of transmission electron beam instruments and their associated techniques.

Prerequisites

Preceded or accompanied by Met Eng 5520.

Field Trip

Statement

Credit Hours

LEC: 0

LAB: 1

IND: 0

RSD: 0

Total: 1

Required for
Majors

No

Elective for
Majors

No

Justification for
new course:

Move lab component out of previous Met Eng 6530 course, for a stand-alone lab course.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Course Inventory Change Request

New Experimental Course Proposal

Date Submitted: 11/08/16 12:32 pm

Viewing: **CER ENG 4001.001 : Introduction to Optical Properties of Materials**

File: 4372

Last edit: 03/02/17 9:19 am

Changes proposed by: smiller

Requested Fall 2017

Effective Change

Date

Department Materials Science & Engineering

Discipline Ceramic Engineering (CER ENG)

Course Number 4001

Topic ID 001

Experimental
Title

Introduction to Optical Properties of Materials

Experimental Intro to Optical Props

Abbreviated
Course Title

Instructors Wayne Huebner

Experimental
Catalog
Description

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. **Registrar**

Approval Path

1. 11/08/16 1:23 pm
mjokeefe:
Approved for
RMATSENG Chair
2. 12/01/16 3:45 pm
Kristy Giacomelli
(kristyg):
Approved for CCC
Secretary
3. 12/07/16 11:15
am
srafer: Rollback
to CCC Secretary
for Engineering
DSCC Chair

4. 12/16/16 11:19 am
Kristy Giacomelli
(kristyg):
Approved for CCC
Secretary
5. 01/09/17 1:37 pm
Kristy Giacomelli
(kristyg): Rollback
to CCC Secretary
for Engineering
DSCC Chair
6. 01/12/17 5:58 pm
Kristy Giacomelli
(kristyg):
Approved for CCC
Secretary
7. 01/25/17 3:36 pm
sraper: Approved
for Engineering
DSCC Chair
8. 02/14/17 11:32 am
Kristy Giacomelli
(kristyg):
Approved for
Pending CCC
Agenda post
9. 03/02/17 9:14 am
Kristy Giacomelli
(kristyg):
Approved for CCC
Meeting Agenda
10. 03/02/17 9:19 am
Ilene Morgan
(imorgan):

Students will gain a basic understanding of the structure-optical property relationships exhibited by isotropic and anisotropic materials. Topics will include the wave/particle nature of light, how light interacts with materials, color, and applications such as lasers, fiber optic communication systems, electro-optics, and integrated optics.

Prerequisites

Math 2222; Physics 2135 or Phys 2111.

Field Trip

Statement

Credit Hours

LEC: 3

LAB: 0

IND: 0

RSD: 0

Total: 3

Justification for
new course:

Undergraduate level course to accompany the graduate level Cer Eng 6220 course.

Semester(s)
previously taught
none

Co-Listed
Courses:

Course Reviewer

Comments

sraper (12/07/16 11:15 am): Rollback: Kristy, I was going to try and make edits to the above form. But it will not allow. First, it needs to be changed to a 4001 rather than 5001. Second, the “to” in the title is now “ot” so that needs changing. Lastly, the prereq should read like this: “Math 2222 and either Physics 2135 or Physics 2111”, So I will roll back.

kristyg (01/09/17 1:37 pm): Rollback: Change number

sraper (01/25/17 3:36 pm): changed effective date to Fall 2017

Program Change Request

New Program Proposal

Date Submitted: 02/02/17 9:50 am

Viewing: **PROPOSED : Cybersecurity Management and Information Assurance Minor**

File: 247

Last edit: 02/02/17 9:54 am

Changes proposed by: barryf

Start Term	Fall 2017
Program Code	PROPOSED
Department	Business and Information Technology
Title	Cybersecurity Management and Information Assurance Minor

Program Requirements and Description

Minor in Cybersecurity Management and Information Assurance

This minor requires the following 15 hours of coursework:

The following three courses are required:

In Workflow

1. RINFSCTE Chair
2. CCC Secretary
3. Social Sciences DSCC Chair
4. Pending CCC Agenda post
5. CCC Meeting Agenda
6. Campus Curricula Committee Chair
7. FS Meeting Agenda
8. Faculty Senate Chair
9. Registrar
10. kristyg

Approval Path

1. 02/02/17 10:12 am
Kristy Giacomelli
(kristyg): Approved for RINFSCTE Chair
2. 02/02/17 10:12 am
Kristy Giacomelli
(kristyg): Approved for CCC Secretary
3. 02/09/17 12:07 pm
Barry Flachsbart
(barryf): Approved for Social Sciences DSCC Chair
4. 02/14/17 11:33 am
Kristy Giacomelli
(kristyg): Approved for Pending CCC Agenda post
5. 03/02/17 9:10 am
Kristy Giacomelli
(kristyg): Approved for CCC Meeting Agenda
6. 03/02/17 10:23 am
Ilene Morgan
(imorgan):

Approved for
Campus Curricula
Committee Chair

<u>BUS 5910</u>	Privacy and Information Security Law	
<u>IS&T 4780</u>	Human and Organizational Factors in Cybersecurity	3
<u>IS&T 3333</u>	Data Networks and Information Security	3

Two of the following three courses must also be taken:

<u>ERP 5240</u>	Enterprise Application Development and Software Security	3
<u>IS&T 4335</u>	Fundamentals of Mobile Technology for Business	3
<u>IS&T 4641</u>	Electronic and Mobile Commerce	3

Justification for
request

Cybersecurity and the management of security information are continuing to grow in importance. Our research reveals this need; our Advisory Board tells us of this need; and employers at Career Fairs tell us of this need.

Supporting
Documents

Course Reviewer
Comments

barryf (02/02/17 9:53 am): All departmental approvals are in place.

barryf (02/02/17 9:54 am): All departmental approvals are in place.

Key: 247
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