Minutes
Campus Curricula Committee Meeting
October 31, 2012
12 p.m., Room 216 Parker Hall

Attendees: Lahne Black, Barry Flachsbart, Irina Miyeva, Keith Nisbett, Steve Raper, Tom Schuman, Daniel Tauritz, and Jennifer Thorpe.

The following curriculum forms were discussed and approved:

Degree Change Forms:
   DC #0418   DC #0431

Course Change Forms:
   CC #8283   CC #8292   CC #8299
   CC #8286   CC #8293   CC #8300
   CC #8287   CC #8294   CC #8301
   CC #8288   CC #8295   CC #8302
   CC #8289   CC #8296   CC #8303
   CC #8290   CC #8297   CC #8304
   CC #8291   CC #8298

Experimental Course Forms:
   EC #2430   EC #2433   EC #2436
   EC #2431   EC #2434   EC #2437
   EC #2432   EC #2435   EC #2439

The committee voted to table the items below for further action/clarification to be provided by the academic department responsible for each:

   DC #0417, Engineering Management, Bachelor of Science.

   DC #0419, Engineering Management, Bachelor of Science, Industrial Engineering Emphasis.

   DC #0420, Engineering Management, Bachelor of Science, General Emphasis.

   DC #0429, Engineering Management, Bachelor of Science, effective Fall 2013.
DC #0430, History, Bachelor of Arts/History Teacher Education Program.

CC #8280, Computer Engineering 416, Advanced Computer Architecture II.

CC #8281, History 396, History Research Seminar.

CC #8282, Engineering Management 482, Financial Engineering II.

CC #8284, Systems Engineering 378, Introduction to Neural Networks & Applications.

CC #8285, Engineering Management 481, Financial Engineering.

The Registrar's Office has agreed to expand the character limit of the course description field on EC and CC forms by 20%. Revised forms will be posted to the website.

The meeting adjourned at 1:05 p.m.

Daniel Tauritz, Chair
Missouri S&T Campus Curricula Committee
Degree Change Form (DC)

This form is to be used for creating or modifying degree programs, emphasis areas, and minors.

Title of degree program, emphasis area, or minor:
Management of Technology Emphasis Area

Department: EMSE

Briefly describe action requested (Attach documentation as appropriate):
The Management of Technology (MOT) Emphasis area required courses will change from EMSE 313, 320, and 327, (9 required credit hours) to EMSE 320, 327, 356, and 366 (12 required credit hours). EMSE MOT Emphasis area technical elective will be reduced from 9 credit hours to 6 credit hours. Free Electives under this change will be reduced from 6 credit hours to 3 credit hours.

Recommended by Department: ____________________________
(Chair signature) Date: 3/20/12

Recommended by: ____________________________
Discipline Specific Curricula Committee (Chair signature) Date: 9/7/12

Approved by Curricula Committee: ____________________________
(Chair signature) Date: 11/7/2012

Approved by Faculty Senate: ____________________________
(Chair signature)

Date:

02/27/12

(Revised 9/12/2011)
# Bachelor of Science Engineering Management

## Student Checklist - FS 2013 - Catalog 128 Hours

### Management of Technology Emphasis

#### Freshman Year

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>FE 10 Study and Careers in Engineering</td>
<td>IDE 20 Engineering Design with Computer Appl</td>
</tr>
<tr>
<td>Chem 1 General Chemistry</td>
<td>Math 15 Calculus II for Engineers</td>
</tr>
<tr>
<td>Chem 2 General Chemistry Lab</td>
<td>Phys 23 Engineering Physics I</td>
</tr>
<tr>
<td>Chem 4 Intro to Lab Safety</td>
<td>Econ 121/122 - Micro or Macro Economics</td>
</tr>
<tr>
<td>Math 14 Calculus I for Engineers</td>
<td>Humanities Elective</td>
</tr>
<tr>
<td>Engl 20 Exposition and Argumentation</td>
<td></td>
</tr>
<tr>
<td>Hist 112, 175, 176 or Pol Sci 90</td>
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<td>17</td>
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#### Sophomore Year

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Math 22 - Calculus w/Analytic Geometry III</td>
<td>Math 204 - Differential Equations</td>
</tr>
<tr>
<td>Physics 24 - Engineering Physics II</td>
<td>Stat 215/217 - Eng Statistics</td>
</tr>
<tr>
<td>Engl Mg 213 Complex System Mgt</td>
<td>Engl Mg 147 + Eng Mgt Acct&amp;Fin</td>
</tr>
<tr>
<td>Engl Mg 137 - Eng Economics</td>
<td>Psych 50 - General Psychology</td>
</tr>
<tr>
<td></td>
<td>Engl Mg 134 - Management Eng &amp; Technology</td>
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<td>16</td>
</tr>
</tbody>
</table>

#### Junior Year

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engl Mg 253 - Operations &amp; Prod Mgt</td>
<td>Engl Mg 266 - Quality Philosophies &amp; Methods</td>
</tr>
<tr>
<td>Engl Mg 251 - Marketing Management</td>
<td>Engl Mg 254 - Project Management</td>
</tr>
<tr>
<td>IDE 110 - Mechanics of Materials</td>
<td>El Eng 281 - Electrical Circuits</td>
</tr>
<tr>
<td>IDE 120 - Mechanics of Materials Laby</td>
<td>English 160 - Technical Writing</td>
</tr>
<tr>
<td>Comp Sci 74 - C++ Programming</td>
<td>ME 227 - Thermal Analysis</td>
</tr>
<tr>
<td>Comp Sci 78 - C++ Lab</td>
<td></td>
</tr>
<tr>
<td>Sp&amp;Med 085 or 181</td>
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<td></td>
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<tr>
<td></td>
<td>16</td>
</tr>
</tbody>
</table>

#### Senior Year

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engl Mg Technical Elective</td>
<td>Engl Mg 299 - Senior Design</td>
</tr>
<tr>
<td>Engl Mg 356 - Ind Sys Simulation</td>
<td>Engl Mg 320 - Tech Entrepreneurship</td>
</tr>
<tr>
<td>Engl Mg Technical Elective</td>
<td>Engl Mg 327 Legal Environment</td>
</tr>
<tr>
<td>Engl Mg 260 - Gen Mgt - Design &amp; Integration</td>
<td>Engl Mg 366 - Business Logistics Sys Anal</td>
</tr>
<tr>
<td>Upper Level H/SS</td>
<td>Free Elective</td>
</tr>
</tbody>
</table>

|                                                    |                                                      |
|                                                    | 15                                                   |

### Comments:
Degree Change Form (DC)

This form is to be used for creating or modifying degree programs, emphasis areas, and minors.

Title of degree program, emphasis area, or minor:
Minor in Mobile Business and Technology

Department: Business and Information Technology

Briefly describe action requested (Attach documentation as appropriate):
Reflecting the increased interest in the use of Mobile Technology in Business, a 15 credit hour Minor has been created from existing courses as follows:

Nine hours of the course work are required to be:
IST 241 Electronic and Mobile Commerce
IST 335 Fundamentals of Mobile Technology for Business
ERP 341 Enterprise Portal and Mobile Application Development

The other 6 hours of elective course work may be chosen from the following:
IST 233 Introduction to Telecommunications Networks
ERP 342 Customer Relationship Management in an ERP Environment
ERP 347 Supply Chain Management Systems in an ERP Environment
ERP 348 Performance Dashboard, Scorecard, and Data Visualization
IST 352 Advanced Web Development
IST 386 Human-Computer Interaction Prototyping

Recommended by Department: ____________________________
(Chair signature) Date: 9/26/12

Recommended by: ____________________________
Discipline Specific Curricula Committee (Chair signature) Date: 10/2/12

Approved by Curricula Committee: ____________________________
(Chair signature) Date: 11/7/2012

Approved by Faculty Senate: ____________________________
(Chair signature) Date: ______

09/26/12

(Revised 9/12/2011)
Course Change Form (CC)
This form is for creating or modifying permanent courses.

Course Changes (Check all changes.)
New Course ☐ Course Deletion ☐ Credit Hours ☐ Prerequisites ☐
Course Title ☐ Catalog Description ☐ Course Number ☐ Co-listing ☐

Course Information (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)
1. Department: EMSE
2. Discipline and Course Number: Present: 382
   Proposed:
3. Course Title: Present: Intro to Operations Research
   Proposed:
4. Catalog Description (300 Character Spaces or Less.)
   Present: Mathematical methods for modeling and analyzing industrial systems, topics including linear programming, transportation models, and network models. Prerequisite: Stat 213 or 215.
   Proposed:
5. If course requires field trip check box: ☐
6. Credit Hours:
   Present: Lecture: 3
   Lab: 0
   Total: 3
   Proposed: Lecture: Lab: Total:
7. Prerequisites:
   Present: Stat 213 or 215
   Proposed: Stat 217
8. Required for Majors: ☐ Elective for Majors: ☐
9. Justification:

10. Semesters previously offered as an experimental course (101, 201, 301, 401):
11. List all co-listed courses, initialed by Dept. Chair, if signature does not appear below.
   1) Sys En 382   2)   3)
   4)   5)   6)
   Recommended by Department: [Signature]
   Date: 9/13/12
   Recommended by Discipline Specific Curricula Committee: [Signature]
   Date: 9/26/12
   Approved by Curricula Committee: [Signature]
   Date: 11/7/2012
   Approved by Faculty Senate: [Signature]
   Date: 

(Revised 1/29/09)
Course Change Form (CC)

This form is for creating or modifying permanent courses.

Course Changes (Check all changes.)
- New Course [ ]
- Course Deletion [ ]
- Credit Hours [ ]
- Prerequisites [ ]
- Course Title [ ]
- Catalog Description [ ]
- Course Number [ ]
- Co-listing [ ]

Course Information (1-9 Must Be Completed. Leave “Proposed” items blank if no change is being made.)

1. Department: EMSE

2. Discipline and Course Number: Present: SysEng 412 Proposed:

3. Course Title: Present: Complex Engineering Systems Project Management Proposed:

   Abbreviated Course Title:
   (24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (300 Character Spaces or Less.)
   Present: Complex Engineering Systems, issues specific to distributed project management, team development, resource management, constraint planning, development of Integrated Master Schedule and Integrated Master plan, monitoring technical performance, schedule, cost and risk are covered.
   Proposed:

5. If course requires field trip check box: [ ]

6. Credit Hours:
   Present: Lecture: 3 Lab: 0 Total: 3
   Proposed: Lecture: Lab: Total:

7. Prerequisites:
P
    Present: SysEng 368 and SysEng 468; can be taken concurrently with SysEng 468 with consent of instructor.

   Proposed: SysEng 468.

8. Required for Majors: [ ]
   Elective for Majors: [ ]

9. Justification:
   Simplify prerequisites, present list is redundant.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, Initialed by Dept. Chair, if signature does not appear below.

   1) 2) 3)

   4) 5) 6)

   Recommended by Department
   (Chair signature)

   Recommended by Discipline Specific Curricula Committee
   (Chair signature)

   Approved by Curricula Committee:
   (Chair signature)

   Approved by Faculty Senate:
   (Chair signature)

Date: 01/13/12
Date: 01/24/12
Date: 11/9/2012

(Revised 1/29/09)
Course Change Form (CC)

This form is for creating or modifying permanent courses.

Course Changes (Check all changes.)

New Course □ Course Deletion □ Credit Hours □ Prerequisites □
Course Title □ Catalog Description □ Course Number □ Co-listing □

Course Information (1-9 Must Be Completed. Leave “Proposed” items blank if no change is being made.)

1. Department: EMSE

2. Discipline and Course Number: Present: SysEng 411 Proposed:

3. Course Title: Present: Systems Engineering Capstone Proposed:

   Abbreviated Course Title: (24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (300 Character Spaces or Less.)

   Present: The topics covered are: Systems Engineering Management Plan SEMP, Systems Engineering processes, process re-engineering, standards, actual systems engineering case studies. Students will apply the skills and theory that they mastered in previous five core courses to the analyses of assigned cases.

   Proposed:

5. If course requires field trip check box: □

6. Credit Hours:

   Present: Lecture: 3 Lab: 0 Total: 3

   Proposed: Lecture: Lab: Total:

7. Prerequisites:

   Present: SysEng 360,469,469,412,413; can be taken concurrently with SysEng 469 with consent of instructor.

   Proposed: SysEng 412,469

8. Required for Majors: □ Elective for Majors: □

9. Justification: Simplify prerequisites, present list is redundant.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, initialed by Dept. Chair, if signature does not appear below.

   1) 2) 3)

   4) 5) 6)

   Recommended by Department ____________________________
   (Chair signature)

   Recommended by Discipline Specific Curricula Committee ____________________________
   (Chair signature)

   Approved by Curricula Committee: ____________________________
   (Chair signature)

   Approved by Faculty Senate: ____________________________
   (Chair signature)

Date: 9/13/12
Date: 9/26/12
Date: 11/9/12

(Revised 1/29/09)
Course Change Form (CC)

This form is for creating or modifying permanent courses.

Course Changes

(Check all changes.)

- New Course [ ]
- Course Deletion [ ]
- Credit Hours [ ]
- Prerequisites [x]

Course Information

(1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: EMSE

2. Discipline and Course Number: Present: SysEng 469 Proposed:

3. Course Title: Present: Systems Architecting Proposed:

   Abbreviated Course Title:
   (24 Spaces or Less. Only needed for New Courses or Title Changes.)

   Present: Systems Architecting Proposed:

4. Catalog Description

   (300 Character Spaces or Less.)

   Present: The objective of the course is to provide the basic tools and concepts of architectural complex engineering systems. System Thinking, Ambiguity in System Architecting, Search and Architecting Process, SysML and DoDAF Architecting Framework, System of Systems and Network-Centric Architectures.

   Proposed:

5. If course requires field trip check box: [ ]

6. Credit Hours:

   Present: Lecture: 3 Lab: 0 Total: 3

   Proposed: Lecture: Total:

7. Prerequisites:

   Present: SysEng 368 and SysEng 468; can be taken concurrently with SysEng 468 with consent of instructor.

   Proposed: SysEng 468.

8. Required for Majors: [x] Elective for Majors: [ ]

9. Justification: Simplify prerequisites, present list is redundant.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, initialed by Dept. Chair, if signature does not appear below.

   1) 2) 3)

   4) 5) 6)

   Recommended by Department: ________________________________ (Chair signature) Date: 9/13/14

   Recommended by Discipline Specific Curricula Committee: ________________________________ (Chair signature) Date: 9/26/14

   Approved by Curricula Committee: ________________________________ (Chair signature) Date: 11/7/14

   Approved by Faculty Senate: ________________________________ (Chair signature) Date: __________

(Revised 1/25/09)
Effective Year: 2013
Effective Term: Summer ☐ Fall ☐ Spring ☑

CC File #: 8289 - 2012 - EMGT

Course Change Form (CC)
This form is for creating or modifying permanent courses.

Course Changes (Check all changes.)
New Course ☐ Course Deletion ☐ Credit Hours ☐ Prerequisites ☑
Course Title ☑ Catalog Description ☑ Course Number ☐ Co-listing ☐

Course Information (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)
2. Discipline and Course Number: Present: EMgt 472 Proposed:
3. Course Title: Present: Lean Manufacturing Systems Proposed: Lean Systems
Abbreviated Course Title: (24 Spaces or Less. Only needed for New Courses or Title Changes.)
4. Catalog Description (40 Words or Less)
Present: Lean manufacturing is a total enterprise philosophy built on increasing the synergy between humans and technological systems. Use of various concepts such as flow, just-in-time, lead times, inventory turns, standardized work, pull system, value streams, quick changeover, workplace organization, and visual controls are covered to improve system performance.
Proposed: Lean Systems embodies a total enterprise philosophy built on removing waste. Concepts such as flow, just-in-time, lead times, inventory turns, standardized work, pull system, value streams, quick changeover, workplace organization, and visual controls are discussed to improve system performance.

5. If course requires field trip check box: ☐

6. Credit Hours:
Present: Lecture: 3 Lab: 0 Total: 3
Proposed: Lecture: Lab: Total:

7. Prerequisites:
Present: Graduate standing, and Eng Mg 372 or equivalent
Proposed: Graduate standing

8. Required for Majors: ☐ Elective for Majors: ☐

9. Justification: Graduate standing is required for this course. EMgt 372 is not offered distance.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):
11. List all co-listed courses, initialed by Dept. Chair, if signature does not appear below.
1) 2) 3)
4) 5) 6)

Recommended by Department __________________________
(Chair signature) Date: 9/13/12

Recommended by Discipline Specific Curricula Committee __________________________
(Chair signature) Date: 9/26/12

Approved by Curricula Committee: __________________________
(Chair signature) Date: 11/15/2012

Approved by Faculty Senate: __________________________
(Chair signature) Date: __________________________
Course Change Form (CC)

This form is for creating or modifying permanent courses.

Course Changes (Check all changes.)

New Course □  Course Deletion □  Credit Hours □  Prerequisites □
Course Title □  Catalog Description □  Course Number □  Co-listing □

Course Information (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)


2. Discipline and Course Number: Present: EMgt 408  Proposed: EMgt 408


Abbreviated Course Title: (24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (40 Words or Less)

Present: Techniques and methods for managing financial risk, including portfolio theory, Monte Carlo methods, ARIMA, time series forecasting, Value-at-Risk, stress testing, extreme value theory, GARCH and volatility estimation, random variables and probability distributions, real options, decision trees, utility theory, statistical decision techniques, and game theory.

Proposed:

5. If course requires field trip check box: □

6. Credit Hours: Present: Lecture: 3  Lab: 0  Total: 3

Proposed: Lecture: 3  Lab: 0  Total: 3

7. Prerequisites:

Present: Eng Mgt 308, 352, or equivalent.

Proposed: Eng Mgt 137 or 308

8. Required for Majors: □  Elective for Majors: □

9. Justification: EMgt 352 is no longer offered.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, initiated by Dept. Chair, if signature does not appear below.

1) Sys Eng 408  2)  3)

4)  5)  6)

Recommended by Department ________________________________ Date: 9/13/12
(Chair signature)

Recommended by Discipline Specific Curricula Committee ________________________________ Date: 9/26/12
(Chair signature)

Approved by Curricula Committee: ________________________________ Date: 11/9/2012
(Chair signature)

Approved by Faculty Senate: ________________________________ Date: ______________
(Chair signature)
Course Change Form (CC)

This form is for creating or modifying permanent courses.

**Course Changes**
(Check all changes.)
- New Course □
- Course Deletion □
- Credit Hours □
- Prerequisites X
- Course Title □
- Catalog Description □
- Course Number □
- Co-listing □

**Course Information**
(1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: EMSE

2. Discipline and Course Number:
   - Present: SysEng 413
   - Proposed:

3. Course Title:
   - Present: Economic Analysis of Systems Engineering
   - Proposed:

   **Abbreviated Course Title:**
   - (24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (40 Words or Less)
   - Present:
     Methods of economic evaluation for engineering projects involving complex systems.
     Economic impacts on choosing system alternatives, life cycle costing, economic decisions
     involving risk and uncertainty, and engineering cost estimation for projects in government
defense and commercial industries.

   - Proposed:

5. If course requires field trip check box: □

6. Credit Hours:
   - Present: Lecture: 3
   - Proposed: Lecture: Total: 3
   - Lab: 0
   - Total:

7. Prerequisites:
   - Present: SysEng 368; can be taken concurrently with SysEng 368 with consent of instructor

   - Proposed: SysEng 368.

8. Required for Majors: □
   - Elective for Majors: □

9. Justification:
   - Simplify prerequisites, present list is redundant.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, initiated by Dept. Chair, if signature does not appear below.

   1)  
   2)  
   3)  
   4)  
   5)  
   6)  

   Recommended by Department: __________________________ (Chair signature)

   Date: 9/13/12

   Recommended by Discipline Specific Curricula Committee: __________________________ (Chair signature)

   Date: 9/26/12

   Approved by Curricula Committee: __________________________ (Chair signature)

   Date: 11/3/2012

   Approved by Faculty Senate: __________________________ (Chair signature)

   Date: ________
Course Change Form (CC)

This form is for creating or modifying permanent courses.

Course Changes (Check all changes.)
- New Course
- Course Deletion
- Credit Hours
- Prerequisites
- Course Title
- Catalog Description
- Course Number
- Co-listing

Course Information (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)


2. Discipline and Course Number: Present: EMgt 452

3. Course Title: Present: Advanced Financial Management
   Proposed:

   Abbreviated Course Title:
   (24 Spaces or Less. Only needed for New Courses or Title Changes.)

   Present:
   Proposed:

4. Catalog Description (40 Words or Less)
   Present:
   Proposed:
   Principles of financial organization and management in the technological enterprise; demands for funds; internal and external supply of funds; budgetary control; reserve and dividends policy. Emphasizes systems approach and problems of engineering design and automation as they influence financial decisions.

5. If course requires field trip check box: ☐

6. Credit Hours:
   Present: Lecture: 3  Lab: 0  Total: 3
   Proposed: Lecture:  

7. Prerequisites:
   Present: Eng Mgt 352.
   Proposed: Eng Mgt 137 or 308

8. Required for Majors: ☐  Elective for Majors: ☐

9. Justification: EMgt 352 is no longer offered.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, initiated by Dept. Chair, if signature does not appear below.
   1)  2)  3)  4)  5)  6)  

Recommended by Department:  
(Chair signature)  Date: 9/13/12

Recommended by Discipline Specific Curricula Committee:  
(Chair signature)  Date: 9/26/12

Approved by Curricula Committee:  
(Chair signature)  Date: 11/2/12

Approved by Faculty Senate:  
(Chair signature)  Date: 9/2/12
Course Change Form (CC)

Course Changes (Check all changes.)
New Course ☐ Course Deletion ☐ Credit Hours ☐ Prerequisites ☒
Course Title ☐ Catalog Description ☐ Course Number ☐ Co-listing ☐

Course Information (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)
2. Discipline and Course Number: Present: EMgt 480 Proposed:
3. Course Title: Present: Investment Proposed:
   Abbreviated Course Title:
   (24 Spaces or Less. Only needed for New Courses or Title Changes.)
4. Catalog Description (40 Words or Less)
   Present: An introduction to the theory and practice of investment, including financial markets and
   instruments, security trading, mutual funds, investment banking, interest rates, risk
   premiums, the capital asset pricing model, arbitrage pricing theory, market efficiency, bonds
   and the fixed income market, equity valuation, fundamental and technical analysis.
   Proposed:

5. If course requires field trip check box: ☐
6. Credit Hours: Present: Lecture: 3 Lab: 0 Total: 3
   Proposed: Lecture: Lab: Total:
7. Prerequisites:
   Present: Eng Mgt 208, 308, 352, or equivalent.
   Proposed: Eng Mgt 137 or 308
8. Required for Majors: ☐ Elective for Majors: ☐
9. Justification: EMgt 352 is no longer offered.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):
11. List all co-listed courses, initialed by Dept. Chair, if signature does not appear below.
   1) Sys Eng 480 2) 3) 4) 5) 6)
   Recommended by Department ____________________________ Date: 9/13/12
   (Chair signature)
   Recommended by Discipline Specific Curricula Committee ____________________________ Date: 9/26/12
   (Chair signature)
   Approved by Curricula Committee: ____________________________ Date: 11/7/12
   (Chair signature)
   Approved by Faculty Senate: ____________________________ Date: _________
Course Change Form (CC)

This form is for creating or modifying permanent courses.

Course Changes
(Check all changes.)

New Course ☐ Course Deletion ☐ Credit Hours ☐ Prerequisites ☒
Course Title ☒ Catalog Description ☒ Course Number ☐ Co-listing ☐

Course Information
(1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: Business & Information Technol

2. Discipline and Course Number: Present: IST 354 Proposed:

3. Course Title: Present: Multi-media Development and Design Proposed: Advanced Web and Digital Media Development

   Abbreviated Course Title: Advanced Digital Media
   (24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (300 Character Spaces or Less.)
   Present: Students will learn current practices for development and design of interactive multimedia. The course covers tools for development of 2-D and 3-D graphics, video, audio, animation, and ingetrated multimedia environments.
   Proposed: This course covers advanced techniques and tools for the design and development of web-based media, including text, graphics, animation, audio, and video. This course is an advanced version of Web and Digital Media Development, with additional assignments. No Credit for both IST 286 & IST 354.

5. If course requires field trip check box: ☐

6. Credit Hours:
   Present: Lecture: 3 Lab: 0 Total: 3.0
   Proposed: Lecture: Lab: Total:

7. Prerequisites:
   Present: IST 51 or Comp Sci 53 or Comp Sci 73 or Comp Sci 74
   Proposed: Graduate Standing

8. Required for Majors: ☐ Elective for Majors: ☒

9. Justification: Course is being coordinated with IST 286. It will be required for the proposed Graduate Certificate in Digital Media.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, initialed by Dept. Chair, if signature does not appear below.
   1) 2) 3)
   4) 5) 6)

   Recommended by Department ________________________________ Date: 9-26-12
   (Chair signature)
   Recommended by Discipline Specific Curricula Committee ________________________________ Date: 9-26-12
   (Chair signature)
   Approved by Curricula Committee: ________________________________ Date: 11-7-12
   (Chair signature)
   Approved by Faculty Senate: ________________________________ Date: __________________________
   (Chair signature)

   (Revised 1/29/09)

This fax was received by GFI FAXmaker fax server. For more information, visit: http://www.gfi.com
Course Change Form (CC)

This form is for creating or modifying permanent courses.

**Course Changes** (Check all changes.)
- New Course □
- Course Deletion □
- Credit Hours □
- Prerequisites □
- Course Title □
- Catalog Description □
- Course Number □
- Co-listing □

**Course Information** (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. **Department:** Business & Information Technol
2. **Discipline and Course Number:** Present: IST 352 Proposed:
3. **Course Title:** Present: Advanced Web Development Proposed:
   - Abbreviated Course Title: (24 Spaces or Less. Only needed for New Courses or Title Changes.)
4. **Catalog Description** (300 Character Spaces or Less.)
   - Present: Advanced Web development techniques to provide dynamic interaction; methods for extracting and delivering dynamic information to/from Web servers -- a hands-on approach. Interaction with other Web servers, especially database servers, to obtain and deliver information. Project work is required.
   - Proposed: Advanced Web development techniques to provide dynamic interaction; methods for extracting and delivering dynamic information to/from Web servers - a hands-on approach. Emphasis on interaction with servers; mobile software development; processing of graphics & web video. Project work is required.
5. **If course requires field trip check box:** □
6. **Credit Hours:**
   - Present: Lecture: 3 Lab: 0 Total: 3.0
   - Proposed: Lecture: Lab: Total:
7. **Prerequisites:**
   - Present: IST 286
   - Proposed: IST 51, IST 286
8. **Required for Majors:** □ **Elective for Majors:** □
9. **Justification:** Course will be elective in two new proposed Graduate Certificates. IST 286 used to have programming as a prerequisite, but no longer does. A basic knowledge of programming is needed, so the IST 51 prerequisite has been added.
10. **Semesters previously offered as an experimental course (101, 201, 301, 401):**
11. **List all co-listed courses, initialed by Dept. Chair, if signature does not appear below.**
   - 1) 2) 3) 4) 5) 6)

**Recommended by Department**

**Recommended by Discipline Specific Curricula Committee**

**Approved by Curricula Committee:**

**Approved by Faculty Senate:**

__Chair signature__

Date: 9/25/09

__Chair signature__

Date: 9/26/09

__Chair signature__

Date: 11/2/09

(Revised 1/29/09)
Course Change Form (CC)
This form is for creating or modifying permanent courses.

Course Changes (Check all changes.)
New Course □ Course Deletion □ Credit Hours □ Prerequisites □
Course Title □ Catalog Description □ Course Number □ Co-listing □

Course Information (1-9 Must Be Completed. Leave “Proposed” items blank if no change is being made.)

1. Department: Business & Info Tech
2. Discipline and Course Number: Present: IST 386 Proposed:
3. Course Title: Present: Human-Computer Interaction Prototyping Proposed:
Abbreviated Course Title: (24 Spaces or Less. Only needed for New Courses or Title Changes.)
Present: Proposed:
4. Catalog Description (300 Character Spaces or Less.)
Present: This course covers designs, methods and tools for creating low and high fidelity prototypes of information technology systems, which is part of the iterative design cycle commonly used for the creation of usable information technologies.
Proposed: This course covers methods and tools for creating low and high fidelity prototypes of IT systems as well as design concepts, including best practices and guidelines for different form factors (e.g., desktop vs. mobile).

5. If course requires field trip check box: □
6. Credit Hours: Present: Lecture: 3.0 Lab: Total: 3.0 Proposed: Lecture: Lab: Total:
7. Prerequisites:
Present: IST 286 or web design experience; preceded or accompanied by IST 385
Proposed:
8. Required for Majors: □ Elective for Majors: □
9. Justification: Course has been modified to keep up with technological change.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):
11. List all co-listed courses, initialed by Dept. Chair, if signature does not appear below.
1) 2) 3)
4) 5) 6)

Recommended by Department [Signature]
Date: 9/25/12
Recommended by Discipline Specific Curricula Committee [Signature]
Date: 9/26/12
Approved by Curricula Committee: [Signature]
Date: 11/3/2012
Approved by Faculty Senate: [Signature]
Date: 

(Revised 1/29/09)
Course Change Form (CC)

This form is for creating or modifying permanent courses.

Course Changes
(Check all changes.)
New Course ☑ Course Deletion ☐ Credit Hours ☐ Prerequisites ☐
Course Title ☐ Catalog Description ☐ Course Number ☐ Co-listing ☐

Course Information
(1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)
1. Department: Business & Information Technol
2. Discipline and Course Number: Present: Proposed: MKT 331
3. Course Title: Present:
   Proposed: Promotions Management
   Abbreviated Course Title: Promotions Management
   (24 Spaces or Less. Only needed for New Courses or Title Changes.)
4. Catalog Description (300 Character Spaces or Less.)
   Present:
   Proposed: A managerial examination of advertising techniques and how they affect decisions in advertising and sales promotion. Topics include setting advertising objectives and the budget, applying media tools, and developing advertisements.

5. If course requires field trip check box: ☐

6. Credit Hours:
   Present: Proposed: Lecture: 3.0 Lab: Total: 3.0

7. Prerequisites:
   Present:
   Proposed: Psych 50

8. Required for Majors: ☐ Elective for Majors: ☑

9. Justification: Taught as MKT 301 in Fall 2011 & Fall 2012

10. Semesters previously offered as an experimental course (101, 201, 301, 401): Fall 2011, Fall 2012

11. List all co-listed courses, initialed by Dept. Chair, if signature does not appear below.
   1) 2) 3)
   4) 5) 6)

   Recommended by Department
   (Chair signature) Date: 9/15/12
   Recommended by Discipline Specific Curricula Committee
   (Chair signature) Date: 9/15/12
   Approved by Curricula Committee:
   (Chair signature) Date: 11/7/09
   Approved by Faculty Senate:
   (Chair signature) Date: ________

(Revised 1/29/09)

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Course Change Form (CC)
This form is for creating or modifying permanent courses.

Course Changes (Check all changes.)
- New Course ☐
- Course Deletion ☐
- Credit Hours ☐
- Prerequisites ☐
- Course Title ☒
- Catalog Description ☒
- Course Number ☐
- Co-listing ☐

Course Information (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)
1. Department: Business & Info Tech
2. Discipline and Course Number: Present: ERP 341 Proposed:
3. Course Title: Present: Enterprise Portal Application Development Proposed: Enterprise Portal and Mobile Application Development
   Abbreviated Course Title: Portal & Mobile App Dev
   (24 Spaces or Less. Only needed for New Courses or Title Changes.)
4. Catalog Description (300 Character Spaces or Less.)
   Present: This course provides a conceptual foundation and hands on experience in web based applications development deployed through an Enterprise Portal platform. SAP Netweaver Enterprise Portal and tools including Visual Composer and Web Dynpro will be used to develop the applications.
   Proposed: This course provides conceptual foundation and hands on experience in web based applications development deployed through an Enterprise Portal and Mobile platform. SAP Netweaver Enterprise Portal and tools including Visual Composer, Web Dynpro, and Sybase Unwired Platform will be used for apps.
5. If course requires field trip check box: ☐
6. Credit Hours:
   Present: Lecture: 3.0 Lab: Total: 3.0
   Proposed: Lecture: Lab: Total:
7. Prerequisites:
   Present: Programming knowledge and either ERP 246 or preceded or accompanied by ERP 346.
   Proposed:
8. Required for Majors: ☐ Elective for Majors: ☒
9. Justification: Course has been modified to keep up with technological change.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):
11. List all co-listed courses, initialed by Dept. Chair, If signature does not appear below.
1) 2) 3)
4) 5) 6)

Recommended by Department
(Chair signature)

Recommended by Discipline Specific Curricula Committee
(Chair signature)

Approved by Curricula Committee:
(Chair signature)

Approved by Faculty Senate:
(Chair signature)

Date: 9/28/12
Date: 10/2/12
Date: 11/9/2012

(Revised 1/29/09)
Course Change Form (CC)
This form is for creating or modifying permanent courses.

Course Changes (Check all changes.)
New Course □ Course Deletion □ Credit Hours □ Prerequisites □
Course Title □ Catalog Description □ Course Number □ Co-listing □

Course Information (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: Business & Info Tech
2. Discipline and Course Number: Present: IST 241 Proposed:
3. Course Title: Present: E-Commerce
   Proposed: Electronic and Mobile Commerce
   Abbreviated Course Title: E- & Mobile Commerce
   (24 Spaces or Less. Only needed for New Courses or Title Changes.)
4. Catalog Description (300 Character Spaces or Less.)
   Present: Introduction to fundamental concepts of management and application to Information Technologies. This course examines the use of IT in business processes and the management issues of integrating IT into organization processes to gain a competitive advantage. Topics include: management; organizations
   Proposed: Introduction to fundamental concepts of management and application to IT and support of commerce. Examines the use of IT in business processes and the management issues of integrating IT into organization processes to gain a competitive advantage.

5. If course requires field trip check box: □

6. Credit Hours:
   Present: Lecture: 3.0 Lab: Total: 3.0
   Proposed: Lecture: Lab: Total:

7. Prerequisites:
   Present: IST 50, IST 286
   Proposed: IST 50, At least Sophomore standing

8. Required for Majors: □ Elective for Majors: □

9. Justification: Course has been modified to keep up with technological change. IST 286 will no longer be needed as a prerequisite.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):
11. List all co-listed courses, initialed by Dept. Chair, if signature does not appear below.
1) 2) 3)
4) 5) 6)

Recommended by Department ____________________________ Date: 9/26/03
(Chair signature)

Recommended by Discipline Specific Curricula Committee ____________________________ Date: 10/2/03
(Chair signature)

Approved by Curricula Committee: ____________________________ Date: 11/3/03
(Chair signature)

Approved by Faculty Senate: ____________________________ Date: 
(Chair signature)

(Revised 1/29/09)
Course Change Form (CC)
This form is for creating or modifying permanent courses.

Course Changes
(Check all changes.)
New Course □ Course Deletion □ Credit Hours □ Prerequisites □
Course Title □ Catalog Description □ Course Number □ Co-listing □

Course Information
(1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: Business & Info Tech
2. Discipline and Course Number: Present: IST 233 Proposed:
3. Course Title: Present: Introduction To Telecommunications Networks Proposed:
   Abbreviated Course Title:
   (24 Spaces or Less. Only needed for New Courses or Title Changes.)
4. Catalog Description (300 Character Spaces or Less.)
   Present: The course provides an introduction to current and evolving telecommunications
technologies, including voice, data and video. It includes network construction, operation and
management; discussion of network technologies, standards and protocols; switching; area
networks; and hands-on experience wit
   Proposed: The course provides an intro to current and evolving telecommunications technologies,
   including voice, data and video. Concepts include network technologies, standards and
   protocols; network construction, operation and management; switching; routing; area
   networks; and mobile network infrastructure.

5. If course requires field trip check box: □

6. Credit Hours:
   Present: Lecture: 3.0 Lab: Total: 3.0
   Proposed: Lecture: Lab: Total:

7. Prerequisites:
   Present: IST 151 or Comp Sci 153
   Proposed:

8. Required for Majors: □ Elective for Majors: □

9. Justification: Course has been modified to keep up with technological change.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):
11. List all co-listed courses, initialed by Dept. Chair, If signature does not appear below.
1) 2) 3)
4) 5) 6)

Recommended by Department ____________________________ Date: 9/26/12
(Chair signature)

Recommended by Discipline Specific Curricula Committee ____________________________ Date: 10/2/12
(Chair signature)

Approved by Curricula Committee: ____________________________ Date: 11/2/12
(Chair signature)

Approved by Faculty Senate: ____________________________ Date:
(Chair signature)

(Revised 1/29/09)
Course Change Form (CC)

This form is for creating or modifying permanent courses.

Course Changes
(Check all changes.)

New Course ☐ Course Deletion ☐ Credit Hours ☐ Prerequisites ☐
Course Title ☐ Catalog Description ☒ Course Number ☐ Co-listing ☐

Course Information
(1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: Business & Info Tech

2. Discipline and Course Number: Present: ERP 342 Proposed:

3. Course Title: Present: Customer Relationship Management in an ERP Environment Proposed:

   Abbreviated Course Title:
   (24 Spaces or Less. Only needed for New Courses or Title Changes.)

   Catalog Description (300 Character Spaces or Less.)

   Present: Identification (targeting), acquisition, retention, and development (expansion) of (profitable)
customers. Effective and efficient management of customers with utilization of information
technology. SAP CRM and SAS BI tools are used to enhance student education with real world
applications.

   Proposed: The course emphasizes identification (targeting), acquisition, retention, and development
(expansion) of (profitable) customers, as well as effective and efficient management of
customers, using information technology. SAP CRM, SAS BI tools, and Sybase mobile
application development are used.

5. If course requires field trip check box: ☐

6. Credit Hours:

   Present: Lecture: 3.0 Lab: Total: 3.0

   Proposed:

   Prerequisites:

   Present: ERP 246 or preceded or accompanied by ERP 346

   Proposed:

8. Required for Majors: ☐ Elective for Majors: ☒

9. Justification: Course has been modified to keep up with technological change.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, initialed by Dept. Chair, if signature does not appear below.

   1) 2) 3) 4) 5) 6)

   Recommended by Department

   Recommended by Discipline Specific Curricula Committee

   Approved by Curricula Committee:

   Approved by Faculty Senate:

   (Chair signature) Date: 8-26-12

   (Chair signature) Date: 10-2-12

   (Chair signature) Date: 11-9-12

   (Chair signature) Date:
Course Change Form (CC)
This form is for creating or modifying permanent courses.

**Course Changes**
(Check all changes.)
- New Course
- Course Deletion
- Credit Hours
- Prerequisites
- Course Title
- Catalog Description
- Course Number
- Co-listing

**Course Information**
(1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: Business & Info Tech

2. Discipline and Course Number: Present: ERP 442
   Proposed:

3. Course Title:
   Present: Advanced Customer Relationship Management in ERP Environment
   Proposed:

   **Abbreviated Course Title:**
   (24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description
   (300 Character Spaces or Less.)
   Present:
   Identification (targeting), acquisition, retention, and development (expansion) of (profitable)
   customers. Effective and efficient management of customers using IT. SAP CRM and SAS BI
   tools used to enhance student education with real world applications. Research paper and
   presentation required.

   Proposed:
   Identification (targeting), acquisition, retention, and development (expansion) of (profitable)
   customers. Effective and efficient mgt of customers, using IT. SAP CRM, SAS BI tools, and
   Sybase mobile application development are used. Research paper and presentation required.
   Students can’t take both ERP 342 and ERP 442 for credit.

5. If course requires field trip check box: ☐

6. Credit Hours:
   Present: Lecture: 3.0
   Lab: Total: 3.0
   Proposed: Lecture: Lab: Total:

7. Prerequisites:
   Present: ERP 246 or preceded or accompanied by ERP 346
   Proposed:

8. Required for Majors: ☐

9. Elective for Majors: ☒

10. Justification: Course has been modified to keep up with technological change.
    Note that students can’t take both ERP 342 and ERP 442 for credit.

11. Semesters previously offered as an experimental course (101, 201, 301, 401):
    1)
    2)
    3)
    4)
    5)
    6)

   Recommended by Department
   [Signature]
   Date: 9/26/22

   Recommended by Discipline Specific Curricula Committee
   [Signature]
   Date: 10/2/22

   Approved by Curricula Committee:
   [Signature]
   Date: 11/2/2012

   Approved by Faculty Senate:
   [Signature]
   Date: _________

(Revised 1/29/09)
Course Change Form (CC)

This form is for creating or modifying permanent courses.

Course Changes
(Check all changes.)
New Course □ Course Deletion □ Credit Hours □ Prerequisites □
Course Title □ Catalog Description □ Course Number □ Co-listing □

Course Information
(1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: Business & Info Tech

2. Discipline and Course Number: Present: ERP 347 Proposed:

3. Course Title: Present: Supply Chain Management Systems
   Proposed: Supply Chain Management Systems in an ERP Environment

   Abbreviated Course Title: Supply Chain in ERP
   (24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description
   (300 Character Spaces or Less.)
   Present: The course studies the need and challenges for supply chain integration with focus on the planning, analysis, design, development, and evaluation of supply chains in an ERP environment. SAP Supply Chain Management (SCM) or a similar system is used for project implementation.

   Proposed: The course studies the need for supply chain integration and the challenges of managing complex interfaces using the systems approach for the planning, analysis, design, development, and evaluation of supply chain. SAP's ERP ECC, SCM, BW, and Sybase Unwired Platform are used to deploy SCM apps.

5. If course requires field trip check box: □

6. Credit Hours:
   Present: Lecture: 3.0 Lab: Total: 3.0
   Proposed: Lecture: Lab: Total:

7. Prerequisites:
   Present: ERP 246 or preceded or accompanied by ERP 346

   Proposed:

8. Required for Majors: □ Elective for Majors: □

9. Justification: Course has been modified to keep up with technological change.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):
11. List all co-listed courses, initialed by Dept. Chair, if signature does not appear below.
   1) 2) 3)
   4) 5) 6)

   Recommended by Department
   (Chair signature)
   Date: 9/26/12

   Recommended by Discipline Specific Curricula Committee
   (Chair signature)
   Date: 10/2/12

   Approved by Curricula Committee:
   (Chair signature)
   Date: 11/9/12

   Approved by Faculty Senate:
   (Chair signature)
   Date: __________

   (Revised 1/29/09)
Course Change Form (CC)

This form is for creating or modifying permanent courses.

Course Changes (Check all changes.)
- New Course [ ]
- Course Deletion [ ]
- Credit Hours [ ]
- Prerequisites [ ]
- Course Title [✓]
- Catalog Description [✓]
- Course Number [ ]
- Co-listing [ ]

Course Information (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: Business & Info Tech
2. Discipline and Course Number: Present: ERP 348 Proposed:
3. Course Title: Present: Strategic Enterprise Management Systems
   Proposed: Performance Dashboard, Scorecard, and Data Visualization
   Abbreviated Course Title: Performance Visualization
   (24 Spaces or Less. Only needed for New Courses or Title Changes.)
4. Catalog Description (300 Character Spaces or Less.)
   Present: This course will study different strategic performance management systems including dashboards, management cockpit, scorecards, and strategy maps in an organization. SAP's Strategic Enterprise Management (SEM), Business Objects Xcelsius, or similar tools will be used to enhance student education wit
   Proposed: This course will study different performance management systems including dashboards, management cockpit, scorecards, and strategy maps in an organization. SAP's BW, BusinessObjects Xcelsius, Crystal Reports, Sybase Unwired Platform will be used to develop the applications.

5. If course requires field trip check box: [ ]

6. Credit Hours:
   Present: Lecture: 3.0 Lab: Total: 3.0
   Proposed: Lecture: Lab: Total:

7. Prerequisites:
   Present: ERP 246 or preceded or accompanied by ERP 346
   Proposed:

8. Required for Majors: [ ] Elective for Majors: [✓]

9. Justification: Course has been modified to keep up with technological change.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, initialed by Dept. Chair, if signature does not appear below.
   1)  
   2)  
   3)  
   4)  
   5)  
   6)  

Recommended by Department
(Chair signature) Date: 9/26/12

Recommended by Discipline Specific Curricula Committee
(Chair signature) Date: 10/2/12

Approved by Curricula Committee:
(Chair signature) Date: 11/3/09

Approved by Faculty Senate:
(Chair signature) Date: 

(Revised 1/29/09)
Experimental Course Form (EC)

An EC form must be submitted before an experimental course is to be offered. EC forms approved SP2009 or later allow the course to be offered twice at any time during the following three year period. After an experimental course has been offered twice, a CC form may be submitted to request a permanent course number.

A new course that is required as part of a degree program, minor, or graduate certificate may be submitted on a CC form to receive a permanent course number.

Co-listed offerings should be submitted on one form, originating from the primary discipline.

Department: History and Political Science
Discipline and Course Number: HIST 301
Course Title: Women in the History of Science, Technology and Medicine
Abbreviated Title (24 spaces or less): Women History of STM
Instructor(s): Kathleen Sheppard
Credit Hours: Lecture: 3, Lab: 0, Total: 3
Prerequisites: HIST 112 or HIST 275

Semester(s) previously taught:

Brief Course Description: (40 words or less)
This course explores major issues women have dealt with in the practice of science, from the 1500s to the present. The course is reading and writing intensive.

List all co-listed courses: Include initials of Dept. Chair, if signature is not already included below.
1) 2) 3)
4) 5) 6)

Department Chair: [Signature] Date: 5/24/12
Discipline Specific Curricula Committee: [Signature] Date: 5/10/12
Curricula Committee: [Signature] Date: 4/4/2012

(Revised 1/17/2010)

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Experimental Course Form (EC)

This form must be filed with the Secretary to the Campus Curricula Committee, after the department chair’s notation, by the appropriate deadline. Filling deadlines for inclusion in the initial release of the Schedule of Classes are as follows:

Summer and Fall Semester Offerings – January 1
Spring Semester Offerings – August 1

An EC form must be submitted each semester it is to be offered, not to exceed two offerings. An experimental course that is required should be submitted on a CC form. Co-listed offerings should be submitted on one form, originating from the primary discipline.

Department: Arts, Languages, and Philosophy

Discipline and Course Number: Art 201

Course Title: Art 201: Thematic Studies in Film and Philosophy

Abbreviated Title (24 spaces or less): Film and Philosophy

Instructor(s): Andrew M. Tohline, Joel Dittmer

Credit Hours: Lecture 3, Lab: 0, Total: 3

Prerequisites: Art 85 AND either one philosophy course or junior standing

Semester(s) previously taught: N/A

Brief Course Description: (40 words or less)
A study of special topics at the intersection of film and philosophy. Topics vary but may include films on the nature of reality, films on the problem of evil, films on concepts of consciousness and the self, and more.

List all co-listed courses: Include initials of Dept. Chair; if signature is not already included below.

1) Philosophy 201
2) 3) 4)
5) 6)

Department Chair: ___________________ (Chair Signature)

Date: 9/5/2012

Discipline Specific Curricula Committee: ___________________

Date: 9/10/12

Curricula Committee: ___________________

Date: 11/9/2012

09/05/12

(Revised 1/31/2008)

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Experimental Course Form (EC)

An EC form must be submitted before an experimental course is to be offered. EC forms approved SP2009 or later allow the course to be offered twice at any time during the following three year period. After an experimental course has been offered twice, a CC form may be submitted to request a permanent course number.

A new course that is required as part of a degree program, minor, or graduate certificate may be submitted on a CC form to receive a permanent course number.

Co-listed offerings should be submitted on one form, originating from the primary discipline.

Department: ALP
Discipline and Course Number: SPAN 201
Course Title: SPANISH PHONETICS: Pronunciation for English native speakers
Abbreviated Title (24 spaces or less): Spanish Phonetics
Instructor(s): Dr. Jorge Porcel
Credit Hours: Lecture: 3 Lab: 0 Total: 3
Prerequisites: Span 80

Semester(s) previously taught: NOT TAUGHT YET

Brief Course Description: (40 words or less)
SPANISH PHONETICS teaches native English-speaking students how to improve their Spanish pronunciation. It is designed for undergraduate students pursuing a minor in Spanish, who has little or no knowledge of linguistics or phonetics of either Spanish or English. For maximum benefits, the course should be taken early in the curriculum before poor pronunciation habits take root.

List all co-listed courses: Include initials of Dept. Chair, if signature is not already included below.
1) 2) 3) 4) 5) 6)

Department Chair: [Signature]
Discipline Specific Curricula Committee: [Signature]
Curricula Committee: Daniel, Janel

Date: 9/5/2012
Date: 9/10/12
Date: 11/3/2012

09/04/12

This fax was received by GFI FAXmaker fax server. For more information, visit: http://www.gfi.com
Missouri S&T
SPAN 201: Spanish Phonetics

Overview
Spanish 201 teaches native English-Speaking students how to improve their Spanish pronunciation. It is designed for undergraduate students pursuing a minor in Spanish, who have little or no knowledge of linguistics or phonetics of either Spanish or English. In general, such students have completed an introductory course track of 3 semesters (1.5 years) in Spanish language and grammar at MS&T. Therefore he/she has limited reading experience in Spanish and now seeks to refine his or her linguistic skills over the long term. For maximum benefits, the course should be taken early in the curriculum before poor pronunciation habits have had the chance to take root.

The course is taught mainly in Spanish. Textbook, reading material, exams, exercises, assignments, and class interactions will be conducted and required in Spanish. English will be used during lectures—and to the extent it is needed—only to introduce linguistics complex conceptualizations.

Goals
At the end of the semester, the student will know
- the main phonemic and phonetic contrasts between Spanish and English;
- how to describe and articulate the sounds of the standard Spanish system;
- what are the main instances of negative phonetic and phonemic transfer from English to Spanish and how to avoid such pronunciation errors.

Requirements
Spanish 80 or instructor’s consent.

Evaluation
Exams –Midterm and Final: 30%
Quizzes: 20%
Homework: 20%
Assignments: 10%
Participation & Attendance: 20%

Spring 2013
M-W: 11:00 - 12:15 pm - Room: TBA

Instructor: Dr. Jorge Porcel
E-Mail: porcelj@mst.edu
Office: 211 H-SS
Office Hours: TBA

Required textbook

Ancillary material: Online pronunciation files:
http://www.leakyroofproductions.com/MORRIS/
(If you cut and paste the link as typed above, make sure you leave no space between “/” and “Morris” –i.e., it should be: /MORRIS/)

Grading Scale:
A: 100-90
B: 89-80
C: 79-70
D: 69-60
F: 59-0
1. **Exams (30%)**: Midterm and final exams will be administered October 10 and December 5 during class time and they will be comprehensive. There will be no make-ups: if you miss or fail one exam it will count as your lowest grade. Exceptions will be considered only if you inform the instructor in advance and provide supporting documentation. In case of emergencies, supporting documentation has to be presented the class immediately after the absence.

2. **Quizzes (20%)**: The *Lecture Plan* specifies the date of the quizzes. The lowest grade in this category will be dropped. There will be no make-ups: if you miss or fail one exam it will count as your lowest grade. Exceptions will be considered only if you inform the instructor in advance AND provide supporting documentation. In case of emergencies, supporting documentation has to be presented the class immediately after the absence.

3. **Homework (20%)**: Part of the homework appears assigned in the *Lecture Plan* next to the subheadings *Preparación*, *Temas* and *Tarea*.

   - *Preparación* specifies what readings are required for the following class.
   - *Temas* points out the main topics, serving as a reading guide, to help the student to focus. I advise the student to familiarize with this section before reading and take notes relevant to the topics, during and after reading. That will help the student in several fronts: 1) it will ease class participation; 2) it will keep the material ready to study for quizzes and exams; 3) it will improve your Spanish.
   - *Tarea* assigns exercises for pronunciation practice and transcription exercises.

All transcriptions and exercises requiring writing will be collected and must be turned in TYPED. To type phonetic symbols use the following site [http://ipa.typeit.org/full/](http://ipa.typeit.org/full/). The instructor recommends you to go to the site, type the phonetic symbols that you will need, then copy and paste them into a document, so every time you have to do a transcription you don’t have to go to the site to get the symbols.

**Submission guidelines:**
1) Assignments MUST be typed, using a #12 font and DOUBLE SPACED.
2) On the header of the page, please TYPE the following information
   - **Curso**: Español I
   - **Fecha**: 28 de Agosto del 2012
   - **Estudiante**: John Doe
   - **Título y página del ejercicio**: ¿Está bien equipado tu salón? (p. 36)  *(Example from Lecture Plan: 8/28 – Tarea 2)*
3) You can loose up to 20 points for not following these instructions.

**Late submissions** will be accepted ONLY the class immediately following the deadline, with a 10 points deduction. Handwritten submissions won’t be accepted and the *late submission policy* will be applied. More than three *late submissions* will be considered systematic lateness and won’t be accepted. Excuses such as “I forgot my homework in my dorm” or “My printer stopped working” are obviously unacceptable, and the *late submission policy* will be applied.

4. **Assignments (10%)**: In order to assess progress, students are required to turn in 2 recordings of their best Spanish, reading an assigned list of words and a short reading passage. A brief self-assessment needs to be submitted by the student with each recording. The first recording is due on September 5 and the second on November 28.

**Submission guidelines:**
1) The recording will be submitted on an audio CD with the student’s name and the number of the recording.
2) Since the purpose of this exercise is to compare performances, no partial points or credit will be assigned for partial completion. Therefore, students must submit both recordings and both rubrics. Failure to turn in one part of the assignment will result in a grade of zero for the whole category.

4. **Class participation**: Active participation in class activities is crucial for the development of language skills. Students are expected to participate willingly and actively in all activities and they also are expected to make every effort to communicate in Spanish during class time. Your oral participation grade will be based on your positive contribution to class. It is expected that every student will:
1) Make a sustained effort to use only Spanish in class;
2) Come to class on time, prepared and, voluntarily participate in all activities;
3) Observe an attentive, cooperative, respectful and affable behavior.
4) Shut down all electronic devices before the beginning of class. Engaging in texting during class time is considered a disturbing behavior and disciplinary measures will be applied.

Attendance is mandatory. Students who miss a class should find out what was explained, instructed, and assigned during that class.

Attendance policy:
Students are allowed to miss up to 3 class sessions (excused or unexcused). The fourth absent will result in a 50% deduction of the attendance grade. The fifth absent will result in a 100% deduction of the attendance grade. The sixth absent will result in a 50% deduction of the participation grade. The seventh will result in a 100% deduction of the participation grade. Exceptions will be considered ONLY if at least 2 of the first 3 (non-penalized absences) are justified. Documentation will be required. After the seventh absence the student WILL BE DROPPED from the course.

DISCIPLINE POLICY

1. Students should be punctual and should not leave until class is dismissed. Students who have more than 7 absences will be dropped. Tardiness is considered a disruptive behavior. After the third, each late arrival will be counted as one absence.

2. Common courtesy is expected at all times. Disruptive behavior (such as uncooperativeness, texting, talking or using the internet without instructor’s consent) will affect student’s grade. A systematic pattern of disruption will not be tolerated.

3. Each student must have a copy of the textbook and bring it every class. Students who do not bring their book to class will be asked to leave and the absence considered unjustified.

4. Cheating or acting as if you were cheating—or any type of academic dishonesty, such as copying homework’s answers from a classmate—will result in severe disciplinary actions for both students.

5. Personal matters or concerns—such as absences, make-ups, personal grades, etc.—are supposed to be addressed outside the classroom. Please, do not bring those concerns right before the class start.

GENERAL UNIVERSITY POLICIES

The instructor strongly recommends students to become familiar with the following policies and services:
1. Students not meeting the academic course standards or not following course policies will receive an early warning through the Academic Alert System http://academicalert.mst.edu/
2. Students with special needs are encouraged to review the Disability Support Services policy at (http://counsel.mst.edu/) and contact the instructor to address needs or concerns. Reasonable efforts will be made to accommodate the needs of these students.
3. Academic dishonesty will be dealt with severely. Please revise the guidelines of academic honesty at Student Academic Regulations (p. 29)

This syllabus represents my best effort to project the design of this course. Nonetheless, I reserve the right to modify any aspect of the course as the need arises.
Experimental Course Form (EC)

An EC form must be submitted before an experimental course is to be offered. EC forms approved SP2009 or later allow the course to be offered twice at any time during the following three year period. After an experimental course has been offered twice, a CC form may be submitted to request a permanent course number.

A new course that is required as part of a degree program, minor, or graduate certificate may be submitted on a CC form to receive a permanent course number.

Co-listed offerings should be submitted on one form, originating from the primary discipline.

**Department:** Materials Science & Engineering

**Discipline and Course Number:** MSE 301

**Course Title:** Integrated Computational Materials Engineering

**Abbreviated Title (24 spaces or less):** Int Comput Mater Eng

**Instructor(s):** Mohsen Asle Zaeem

**Credit Hours:**

<table>
<thead>
<tr>
<th>Lecture</th>
<th>Lab</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>0</td>
<td>3</td>
</tr>
</tbody>
</table>

**Prerequisites:**

Math 204, Met 204, Met 217, Cer 259

**Semester(s) previously taught:** 0

**Brief Course Description:** (40 words or less)

The primary objective of this course is to introduce different computational tools for the study of materials at different length scales. Atomistic, mesoscale, and continuum models will be introduced and bridging between different modeling scales will be discussed.

**List all co-listed courses:** Include initials of Dept. Chair, if signature is not already included below.

1)

2)

3)

4)

5)

6)

Department Chair: [Signature]

Date: 9/10/12

Discipline Specific Curricula Committee: [Signature]

Date: 9/26/12

Curricula Committee: [Signature]

Date: 11/7/2012

09/10/12

(Revised 10/12/2010)

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Experimental Course Form (EC)

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Co-listed offerings should be submitted on one form, originating from the primary discipline.

Department: Chemistry

Discipline and Course Number: Chem 401

Course Title: Solid-State and Materials Chemistry

Abbreviated Title (24 spaces or less): Solid-State Chemistry

Instructor(s): Amitava Choudhury

Credit Hours: 
Lecture: 3.0 
Lab: 0 
Total: 3.0

Prerequisites: 
CHEM 331 or CHEM 346.

Semester(s) previously taught: NA

Brief Course Description: (40 words or less)
The aim of this course is to build a comprehensive understanding of the chemistry of solids and its application to the materials world. Emphasis will be given on the synthesis, structure and various properties of solids including electrical, optical and magnetic. Students will gain knowledge about how to correlate a property with structure and tune those properties for a particular application.

List all co-listed courses: Include initials of Dept. Chair, if signature is not already included below.

1) 
2) 
3) 
4) 
5) 
6) 

Department Chair: 
(Chair Signature) 

Date: 9-10-2012

Discipline Specific Curricula Committee: 
Daniel Jacob 
(Chair Signature) 

Date: 10-4-2012

Curricula Committee: 
Daniel Jacob 
(Chair Signature) 

Date: 11/13/2012

09/06/12

(Revised 10/12/2010)
Experimental Course Form (EC)

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Co-listed offerings should be submitted on one form, originating from the primary discipline.

Department: ALP
Discipline and Course Number: FR301
Course Title: Contemporary Francophone Literature
Abbreviated Title (24 spaces or less): Francophone Literature
Instructor(s): Audra Merfeld-Langston
Credit Hours: Lecture: 3 Lab: 0 Total: 3
Prerequisites: FR 170

Semester(s) previously taught:

Brief Course Description: (40 words or less)
Studies in Francophone literature (fiction and non-fiction) published within the last fifteen years. Readings, lectures, and discussions are in French.

List all co-listed courses: Include initials of Dept. Chair, if signature is not already included below.
1) 2) 3) 4) 5) 6)

Department Chair: ____________________________ (Chair Signature) Date: 9/17/12
Discipline Specific Curricula Committee: ________________ (Chair signature) Date: 9/17/12
Curricula Committee: ____________________________ (Chair Signature) Date: 11/9/2012

09/17/12 (Revised 10/12/2010)
Experimental Course Form (EC)

An EC form must be submitted before an experimental course is to be offered. EC forms approved SP2009 or later allow the course to be offered twice at any time during the following three year period. After an experimental course has been offered twice, a CC form may be submitted to request a permanent course number.

A new course that is required as part of a degree program, minor, or graduate certificate may be submitted on a CC form to receive a permanent course number.

Co-listed offerings should be submitted on one form, originating from the primary discipline.

Department: Biological Sciences

Discipline and Course Number: BioSci 401

Course Title: Advanced Sleep Biology

Abbreviated Title (24 spaces or less): Adv Sleep Bio

Instructor(s): Matthew Thimigan

Credit Hours: Lecture: 3 Lab: 0 Total: 3

Prerequisites: BIO 410 NONE

Semester(s) previously taught: 0

Brief Course Description: (40 words or less)
Students will analyze and present primary literature regarding the anatomy and molecular mechanisms that underlie sleep regulation in both humans and model organisms. Moreover, students will use epidemiological studies to understand the role of inadequate sleep on health and cognitive performance.

List all co-listed courses: Include initials of Dept. Chair, if signature is not already included below.
1) 2) 3)
4) 5) 6)

Department Chair: [Signature] Date: 7/6/12

Discipline Specific Curricula Committee: [Signature] Date: 4-16-2012

Curricula Committee: [Signature] Date: 4/6/2012

09/19/12 (Revised 10/12/2010)
Experimental Course Form (EC)

An EC form must be submitted before an experimental course is to be offered. EC forms approved SP2009 or later allow the course to be offered twice at any time during the following three year period. After an experimental course has been offered twice, a CC form may be submitted to request a permanent course number.

A new course that is required as part of a degree program, minor, or graduate certificate may be submitted on a CC form to receive a permanent course number.

Co-listed offerings should be submitted on one form, originating from the primary discipline.

Department: Chemistry

Discipline and Course Number: Chem 201

Course Title: Undergraduate Peer-Learning Assistant Practicum

Abbreviated Title (24 spaces or less): PLA Practicum

Instructor(s): EmmaLou Satterfield

Credit Hours: Lecture: RSD 1.0 Lab:

Prerequisites: Consent of instructor required.

Semester(s) previously taught: None

Brief Course Description: (40 words or less)
Undergraduate students, under guidance of a faculty supervisor, will implement effective active-learning strategies that adapt to educational technology and collaborative learning. Students will maintain professional standards established by the American Chemical Society.

List all co-listed courses: Include initials of Dept. Chair, if signature is not already included below.

1) 2) 3)

4) 5) 6)

Department Chair: [Signature]

Discipline Specific Curricula Committee: [Signature]

Curricula Committee: [Signature]

Date: 9-21-12

Date: 10/8/2012

Date: 11/7/2012

(Revised 10/12/2010)
Experimental Course Form (EC)

An EC form must be submitted before an experimental course is to be offered. EC forms approved SP2009 or later allow the course to be offered twice at any time during the following three year period. After an experimental course has been offered twice, a CC form may be submitted to request a permanent course number.

A new course that is required as part of a degree program, minor, or graduate certificate may be submitted on a CC form to receive a permanent course number.

Co-listed offerings should be submitted on one form, originating from the primary discipline.

**Department:** Bus and Info Tech

**Discipline and Course Number:** IST 301

**Course Title:** Intro To Data Warehouses

**Abbreviated Title (24 spaces or less):** Intro Data Warehouses

**Instructor(s):** Yu

**Credit Hours:** Lecture: 3.0  Lab: 0  Total: 3.0

**Prerequisites:** IST 223 or relational database experience

**Semester(s) previously taught:**

**Brief Course Description: (40 words or less)**

This course introduces the topic of data warehouses and the value to the organization. It takes the student from the database platform to structuring a data warehouse environment. Focus is placed on simplicity and addressing the user community needs. Co-taught with IST 444, but with fewer projects. Can't take both for credit.

**List all co-listed courses:** Include initials of Dept. Chair, if signature is not already included below.

1) ERP 301  2)  3) 
4)  5)  6)

Department Chair: [Signature]  Date: 10/5/12

Discipline Specific Curricula Committee: [Signature]  Date: 10/1/12

Curricula Committee: [Signature]  Date: 11/4/12

(Revised 10/12/2010)