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Missouri University of Science and Technology

Formerly University of Missouri-Rolla

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

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

The following curriculum forms were discussed and approved:

Degree Change Forms:

DC 40/10

DC #0431	
5:	
CC #8292	CC #8299
CC #8293	CC #8300
CC #8294	CC #8301
CC #8295	CC #8302
CC #8296	CC #8303
CC #8297	CC #8304
CC #8298	
Forms:	
EC #2433	EC #2436
EC #2434	EC #2437
EC #2435	EC #2439
	CC #8293 CC #8294 CC #8295 CC #8296 CC #8297 CC #8298 Forms: EC #2433 EC #2434

DC #0421

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.

Page 1

Office of the Registrar • 103 Parker Hall • 300 West 13th Street • Rolla, MO 65409-0930 Phone: 573-341-4181 • Fax: 573-341-4362 • Email: registrar@mst.edu • Web: http://registrar.mst.edu

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Missouri University of Science and Technology

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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

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Effective Year: 2013 Effective Term: Summer Fall xx Spring C (Creating or modifying a degree program must be effective for a Fall t	DC # 0418-2012-Emgt-000 term)
Degree Change For	m (DC)
This form is to be used for creating or modifying degree progra	ams, emphasis areas, and minors.
Title of degree program, emphasis area, or minor: Management of Technology Emphasis Area BS IN ENGINE	ERING MANAGENENT
Department: EMSE	
Briefly describe action requested (Attach documentation The Management of Technology (MOT) Emphasis area required 313, 320, and 327, (9 required credit hours) to EMSE 320, 327, hours). EMSE MOT Emphasis area technical elective will be reduced from 6 hours. Free Electives under this change will be reduced from 6	courses will change from EMSE , 356, and 366 (12 required credit uced from 9 credit hours to 6 credit
Recommended by Department: (Chair signature)	Date: <u>み/み</u> りし
Recommended by:	Date: 9/17/12
Approved by Curricula Committee: Amul Funt (Chair signature)	Date: <u>///7/20/2</u>
Approved by Faculty Senate:(Chair signature)	Date:
(Chan signature)	

02/27/12

(Revised 9/12/2011)

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Bachelor of Science Engineering Management Student Checklist - FS 2013 - Catalog 128 Hours

Management of Technology Emphasis

	Fre	shm	an Year	
First Semester			Second Semester	
FE 10 Study and Careers in Engineering	1	$ \bigcirc$	IDE 20 Engineering Design with Computer Appli	3 🔾
Chem 1 General Chemistry	4	$\overline{0}$	Math 15 Calculus II for Engineers	4 🔾
Chem 2 General Chemistry Lab	1	\cup	Phys 23 Engineering Physics 1	4 🔾
Chem 4 Intro to Lab Safety	1	lŌ	Econ 121/122 - Micro or Macro Economics	3 🔾
Math 14 Calculus I for Engineers	4	\bigcirc	Humanities Elective	3 🔾
Engl 20 Exposition and Argumentation	3	$ \bigcirc$		10
Hist 112, 175, 176 or Pol Sci 90	3	Ō	1	
	17			17
	Sop	hom	ore Year	
First Semester		_	Second Semester	_
Math 22 - Calculus w/Anlytic Geometry III	4	$ \bigcirc$	Math 204 - Differential Equations	ᅨ잎
Physics 24 - Engineering Physics II	4	=	Stat 215/217 - Eng Statistics	39
IDE 50 - Enginieering Mechanics - Statics	3	Q	IDE 150 - Engineering Mechanics - Dynamics	49
Eng Mg 213 Complex System Mgt	3		Eng Mg 147 - Eng Mgt Acet&fin	3 ♀
Eng Mg 137 - Eng Economics	2		Psych 50 - General Psychology	3 ○
		$ \circ$	Eng Mg 134 - Management Eng & Technology	3 0
	16			17
	J	unio	r Year	
Pirst Semester	,		Second Semester	_ ا _
Eng Mg 253 - Operations & Prod Mngt	3	Q	Eng Mg 266 - Quality Philosophies & Methods	39
Eng Mg 251 - Marketing Management	3	Q	Eng Mg 254 - Project Management	3Q
IDE 110 - Mechanics of Materials	3	Q	El Eng 281 - Electrical Circuits	319
IDE 120 - Mechanics of Materials Laby	1	$ \bigcirc$	English 160 - Technical Writing	3 오
Comp Sci 74 - C++ Programming	2	$ \bigcirc$	ME 227 - Thermal Analysis	3 🔾
Com Sci 78 - C++ Lab	1	$ \bigcirc$		
Sp&Med 085 or 181	3	0		
	16			15
	S	enio	r Year	
First Semester			Second Semester	
Eng Mg Technical Elective	3	\bigcirc	Eng Mg 299 - Senior Design	19
Eng Mg 356 - Ind Sys Simulation	3	\bigcirc	Eng Mg 320 - Tech Entrepreneurship	31오
Eng Mg Technical Elective	3	\bigcirc	Eng Mg 327 Legal Environment	319
Eng Mg 260 - Gen Mgt - Design & Integration	3	\bigcirc	Eng Mg 366 - Business Logistics Sys Anal	ᅨᄋ
Upper Level H/SS	3	\bigcirc	Free Elecetive	3 •
	15			15

Comments:

From: 573 341 4362 Page: 5/20 Date: 11/7/2012 10:18:30 AM Effective Year: 2013 DC # 0431-2012-BIT-00000 Effective Term: Summer 🗔 Fall x Spring 🔲 (Creating or modifying a degree program must be effective for a Fall term) 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: CREATION OF 15 BEING PROPOSED 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:
Recommended by: San	
Approved by Curricula Committee: (Chair signature)	
Approved by Faculty Senate:(Chair signature)	Date:

From: 573 341 4362 Date: 11/7/2012 10:18:30 AM Page: 6/20 CC File # 8283-2012. EMGT. Effective Year: 2013 Term:Summer 🔲 Fall 🔲 Spring 🖾 382.32 Course Change Form (CC) This form is for creating or modifying permanent courses. Course Changes (Check all changes.) New Course 🗌 Credit Hours Course Deletion 🔲 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 ENG MGT 2. Discipline and Course Number: Present: 382 Proposed: 3. Course Title: Present: Intro to Operations Research Proposed: Abbreviated Course Title: Eng Mg 382 (24 Spaces or Less. Only needed for New Courses or Title Changes.) 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: \Box Total: 3 Lecture: . 3 Lab: 🔿 6. Credit Hours: Present: Lecture: Lab: Total: Proposed: 7. Prerequisites: Present: Stat 213 or 215 **ジアみナ** *STAT* **Proposed:** 215 or 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)

Date:

Date:

(Chair signature)

(Chair signature)

(Chair signature)

(Chair signature)

Recommended by Department

Approved by Faculty Senate:

Approved by Curricula Committee: _

Recommended by Discipline Specific Curricula Committee

From: 573 341 4362 Page: 7/20 Date: 11/7/2012 10:18:31 AM cc File # 8286 -2012-Sys E-**Effective Year: 2013** Term: Summer 🗔 Fall 🔲 Spring 🖾 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: 🔲 Lab: O Total: 3 Lecture: 3 6. Credit Hours: Present: Total: Lecture: Lab: Proposed: 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: 🖾 Elective for Majors: 🔲 Simplify prerequisites, present list is redundant. 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) 2) 4) 5) Recommended by Department (Chair signature) Recommended by Discipline Specific Curricula Committee Date: _ Approved by Faculty Senate: ___ (Chair signature)

From: 573 341 4362 Date: 11/7/2012 10:18:31 AM Page: 8/20 cc File # 8287-2012-Sys E-Effective Year: 2013 Term: Summer 🔲 Fall 🔲 Spring 🛛 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.) 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 enginnering 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: \Box Lab: O Total: 3 Present: Lecture: 3 6. Credit Hours: Lecture: Lab: Total: Proposed: 7. Prerequisites: Present: SysEng 368,469,412,413; can be taken concurrently with SysEng 469 with consent of instructor. Proposed: SysEng 412,469 Elective for Majors: 8. Required for Majors: 🛛 Simplify prerequisites, present list is redundant. 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) 2) 5) 4) Recommended by Department (Chair signature) Recommended by Discipline Specific Curricula Committee ، (Ch<u>air</u>, signature) Approved by Curricula Committee: _ (Chair signature) Date: ____ Approved by Faculty Senate: ___ (Chair signature)

From: 573 341 4362 Page: 9/20 Date: 11/7/2012 10:18:31 AM cc File # 8288 - 2012 - Sys & -Effective Year: 2013 Fall 🔲 Spring 🖾 Term: Summer 🔲 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 Proposed: 2. Discipline and Course Number: Present: SysEng 469 3. Course Title: Present: Systems Architecting 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 objective of the course is to provide the basic tools and concepts of architecting complex engineering systems. System Thinking, Ambuguity in System Architecting, Search as an Architecting Process, SysML and DoDAF Architecting Framework, System of Systems and Network- Centric Architectures. Proposed: 5. If course requires field trip check box: \square Lab: O Total: 3 Lecture: 3 6. Credit Hours: Present: Total: Lab: Proposed: Lecture: 7. Prerequisites: Present: SysEng368 and SysEng468; can be taken concurrently with SysEng 468 with consent of instructor. Proposed: SysEng 468. Elective for Majors: 8. Required for Majors: 🛛 Simplify prerequisites, present list is redundant. 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. 3) 1) 2) 6) 4) 5) Recommended by Department (Chair signature) Recommended by Discipline Specific Curricula Committees (Chair signature) Approved by Curricula Committee: _

Date: _

(Chair signature)

(Chair signature)

Approved by Faculty Senate: _

From: 573 341 4362 Page: 10/20 Date: 11/7/2012 10:18:32 AM CC File # 8289. 2012 - EMSt-Effective Year: 2013 Effective Term: Summer 🗍 Fall 🗍 Spring 🖂 422-32 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-listina 🔲 **Course Information** (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.) 1. Department: Eng. Mamt. & Sys. Eng. 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: Lab: O Total: .3 Present: Lecture: .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): 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: 9/13/12 Recommended by Discipline Specific Curricula Committee

Date:

(Chair signature)

(Chair signature)

(Chair signature)

Approved by Curricula Committee:

Approved by Faculty Senate:

CC File # 8290 - 2012 - EMGT-Effective Year: 2013 Effective Term: Summer 🗍 Fall 🗀 Spring 🖂 408-32 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: Eng. Mgmt. & Sys. Eng. 2. Discipline and Course Number: Present : EMgt 408 Proposed: 3. Course Title: Present: Financial Risk Management Proposed: **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: Total: 3 Lecture: Lab: 🔿 Proposed: Lecture: Lab: Total: 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, initialed by Dept. Chair, if signature does not appear below. 1) Sys Eng 408 4) Recommended by Department Recommended by Discipline Specific Curricula Committee (Chair signature) Approved by Curricula Committee: (Chair signature) Approved by Faculty Senate: _ Date: (Chair signature)

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Date: 11/7/2012 10:18:32 AM

From: 573 341 4362

Date: 11/7/2012 10:18:32 AM From: 573 341 4362 Page: 12/20 cc File # 8291-2012-Sys E-Effective Year: 2013 Effective Term: Summer 🔲 Fail 🔲 Spring 🖾 4/3-32 **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 Co-listing 🔲 Course Number 🔲 Course Information (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.) 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: \square Total: 3 Lab: (2) 6. Credit Hours: Present: Lecture: 3 Lecture: Lab: Total: Proposed: 7. Prerequisites: Present: SysEng 368; can be taken concurrently with SysEng 368 with confent of instructor Proposed: SysEng 368. Elective for Majors: \square 8. Required 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. 3) 1) 2) 4) 5) 6) Recommended by Department Recommended by Discipline Specific Curricula Committee (Chair signature) Approved by Curricula Committee: (Chair signature) Date: Approved by Faculty Senate: _

(Revised 1/31/08)

(Chair signature)

Date: 11/7/2012 10:18:33 AM From: 573 341 4362 Page: 13/20 CC File #8292 2012 - 9MG-T-Effective Year: 2013 Effective Term: Summer Fall 🗍 Spring 🖾 452-32 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-listina 🔲 **Course Information** (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.) 1. Department: Eng. Mgmt. & Sys. Eng. 2. Discipline and Course Number: Present: EMqt 452 Proposed: 3. Course Title: Present: Advanced Financial Management Proposed: **Abbreviated Course Title:** (24 Spaces or Less. Only needed for New Courses or Title Changes.) 4. Catalog Description (40 Words or Less) Present: 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. Proposed: 5. If course requires field trip check box: 🔲 6. Credit Hours: Lecture: 3 Total: 3 Present: Lab: 🖒 Total: Proposed: Lecture: Lab: 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, initialed by Dept. Chair, if signature does not appear below. 1) 2) 3) 4) 6) Date: 9/13/13_ Recommended by Department (Chair signature) Recommended by Discipline Specific Curricula Committee (Chair signature) Approved by Curricula Committee: (Cháif signature) Date: Approved by Faculty Senate: (Chair signature)

CC File # 8293 - 2012 - EMGT Effective Year: 2013 Spring 🛭 Effective Term: Summer 🔲 Fall 🔲 480-32 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.) Department: Eng. Mgmt. & Sys. Eng. 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: 🔲 Lecture: 3 6. Credit Hours: Present: Lab: O Proposed: Lecture: Lab: Total: 7. Preregulaites: 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. 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 3) 4) Recommended by Department Chair signature) Recommended by Discipline Specific Curricula Committee (Chair signature) Approved by Curricula Committee: (Chair signature) Date: Approved by Faculty Senate: (Chair signature)

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Effective Ye Term: Summ		l □ Spring 🏻		CC	File # 8	294-2012-1	ST354-33
	-	Course (
Course Cha		eck all changes.)	4	.,			
New Course [☐ Cou	rse Deletion 🗌	Credi	t Hours 🔲		Prerequisit	es 🛛
Course Title 2	☑ Cata	alog Description 🛭	Cours	e Number		Co-listing [
Course Info	<u>ormation</u>	(1-9 Must Be Comple	eted. Leave "Pi	oposed" ite:	ms blank	if no change	is being made.)
1. Departme	ent: Busines	ss & Information To	echnol				
2. Discipline	and Cours	e Number: Pres	ent : IST 354		Propose	ed:	
3. Course Titl	e: Present	t: Multi-media De	velopment ar	d Design			
	Propos	ed: Advanced Web	and Digital M	edia Develo	opment		
Abbreviat		Title: Advanced D		6	T iel_	۵۲ ۱	
4. Catalog De		aces or Less. Only 00 Character Spaces		w Courses	or little	Changes.)	
Present:							
Proposed:	Proposed: This course covers advanced techniques and tools for the design and development of webbased 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 re	equires field	l trip check box: 🗌					
6. Credit Hou	rs:	Present:	Lecture: 3	Lab:	0	Total: 3.0	
7. Prerequisit	·Arc•	Proposed:	Lecture:	Lab:		Total:	
Present:		or Comp Sci 53 or (Comp Sci 73 c	r Comp Sc	i 74		
Proposed	d: Graduat	e Standing					
8. Required fo	or Majors: 🗌	Elective for I	Majors: 🛚				
9. Justificatio		is being coordinat ate Certificate in Di		86. It will	be requi	red for the	proposed
		y offered as an exp ses, initialed by De			-	_	v.
4)	5)		6)	A			^ ′
Recommende	d by Depart	ment	$\bigcirc \mathcal{M}$	1 ch	100	<u>, </u>	9-26-13 Date:
Recommende	d by Discipli	ine Specific Curricu ≥€	Chair signature) la Committee Çhai <u>r s</u> ignature)	Duy 1	La la la	<u>~</u> .	Date: 9/26//2_
Approved by	Curricula Co	mmittee: <u>&</u>	al Fris				Date: <u>///7/20</u> /2
Approved by I	Faculty Sena	ate:	(Chair signature	-		[Date:
,,,	# " • • • • • • • • • • • • • • • • • •		(Chair signature)		·	

From: 573 341 4362 Page: 16/20 Date: 11/7/2012 10:18:34 AM Effective Year: 2013 CC File # 8295-2012-IST352-33 Term: Summer 🗍 Fall 🔲 Spring 🖾 **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: \Box 6. Credit Hours: Present: Lecture: 3 **Total: 3.0** Lab: 🔿 Proposed: Lecture: Total: Lab: 7. Prerequisites: Present: **IST 286** Proposed: IST 51, IST 286 and 8. Required for Majors: Elective for Majors: 🛛 Course will be elective in two new proposed Graduate Certificates. IST 286 used to 9. Justification: have programming as a prerequisite, but no longer does. A basic knowledge of programming is needed, so the IST 51 prerequisite has been added. 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) 6) 5)

Recommended by Department (Chair signature) Recommended by Discipline Specific Curricula Committee 4

(Chais signature). Approved by Curricula Committee: _

(Chair signature) Approved by Faculty Senate: _

(Chair signature)

Date:

From: 573 341 4362 Page: 17/20 Date: 11/7/2012 10:18:34 AM

Effective Year: 2013 CC File # 8296-2012-IST386-34 Term: Summer 🗌 Fall 🔲 Spring 🖾 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: Present: Human-Computer Interaction Prototyping 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: 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: 🗌 **Total: 3.0** 6. Credit Hours: Present: Lecture: 3.0 Lab: Total: Proposed: Lecture: Lab: 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. 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. 2) 1) 3) 4) 5) Recommended by Department (Chair signature) Recommended by Discipline Specific Curricula Committee (Chair signature) Approved by Curricula Committee: ___ (Chair signature) Approved by Faculty Senate: ___ Date: (Chair signature)

From: 573 341 4362 Page: 18/20 Date: 11/7/2012 10:18:35 AM Effective Year: 2013 CC File # 8297-2012-MKT 331-10 Term: Summer 🔲 Fall 🔲 Spring 🖾 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: Lecture: Lab: Total: 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 F11 & F12. 10. Semesters previously offered as an experimental course (101, 201, 301, 401): Fall るのけ、Fall 2012 11. List all co-listed courses, initialed by Dept. Chair, if signature does not appear below. 1) 2) 3)

From: 573 341 4362 Page: 19/20 Date: 11/7/2012 10:18:35 AM

CC File # 8298 -2012-ERP341-33 Effective Year: 2013 Fall 🗌 Term: Summer 🗀 Spring 🖾 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** Lecture: Total: Proposed: Lab: 7. Prerequisites: Present: Programming knowledge and either ERP 246 or preceded or accompanied by ERP 346. Proposed: 8. Required for Majors: Elective for Majors: \boxtimes 9. Justification: Course has been modified to keep up with technological change. 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) Recommended by Department _ (Chair signature Recommended by Discipline Specific Curricula Committee (Chair signature) Approved by Curricula Committee: ___ (Chair signature) Approved by Faculty Senate: ____ Date: (Chair signature)

From: 573 341 4362 Page: 20/20 Date: 11/7/2012 10:18:35 AM

Effective Ye Term: Sumn		ıll 🗌 Spring 🛭		CC File #	8299-2012-IST241-33		
Course Change Form (CC) This form is for creating or modifying permanent courses. Course Changes (Check all changes.)							
New Course				_	_		
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			eted. Leave "Propo	ised" items blan	k if no change is being made.)		
-		ess & Info Tech		_			
		se Number: Pre	sent: IST 241	Propos	sed:		
3. Course Titl			Mahila Cammana	_			
Ahhraviat	_	ied: Electronic and Title: E- & Mobile		•			
	(24 Sp	aces or Less. Only 200 Character Spaces	needed for New C	Courses or Title	2 Changes.)		
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Proposed:	commerce	on to fundamental on to fundamental on Examines the use of IT into organization	of IT in business	processes and	pplication to IT and support of I the management issues of ve advantage.		
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7. Prerequisit		Proposed: IST 286	Lecture:	Lab:	Total:		
Proposed	d: IST 50	a At least Sophomor	e standing				
8. Required for	or Majors: 🗌	Elective for I	Majors: 🛮				
9. Justificatio		e has been modified be needed as a pr		technological (change. IST 286 will no		
		y offered as an exp ses, initialed by De	pt. Chair, if signa		·		
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4)	5)		6)		_		
Recommende	d by Depart	tment	(Chair signature)	<u> </u>	Date: 9->6-/3		
Recommende	d by Discipl	line Specific Curricu	ıla Committee 🚜	my delantes	Date: 10/2//2		
Approved by	Curricula Co	ommittee:	(Chair signature)	and Fish	Date: ///7/24/2_		
Approved by I	Faculty Sen	ate:	(Chair signature)		Date:		

From: 573 341 4362 Page: 1/17 Date: 11/7/2012 10:22:07 AM Effective Year: 2013 **CC File #** 8300-2012-IST-233-34 Term: Summer 🗍 Fall 🗌 Spring 🛛 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 🗌 Catalog Description ⊠ Course Title Course Number Co-listina 🗍 **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: Present: Introduction To Telecommunications Networks 3. Course Title: 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: \Box 6. Credit Hours: Present: Lecture: 3.0 Lab: **Total: 3.0** Total: Proposed: Lecture: Lab: 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.

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Recommended by Discipline Specific Curricula Committee

Recommended by Department

Approved by Faculty Senate: _

Approved by Curricula Committee: ___

Date: 11/7/2012 10:22:07 AM From: 573 341 4362 Page: 2/17 Effective Year: 2013 CC File # 2012-ERP-342-34 Term: Summer 🗍 Fall 🗌 Spring 🛭 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: Present: Customer Relationship Management in an 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 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: Lecture: Lab: Total: 7. Prerequisites: Present: ERP 246 or preceded or accompanied by ERP 346 Proposed: 8. Required for Majors: Elective for Majors: 🛛 Course has been modified to keep up with technological change. 9. Justification: 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)

Date:

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Recommended by Department _

Approved by Faculty Senate: _

Approved by Curricula Committee: __

Recommended by Discipline Specific Cyrricula Committee

From: 573 341 4362 Page: 3/17 Date: 11/7/2012 10:22:08 AM

Effective Ye Term: Summ	ar: 2013 er 🗌 🏻 Fall 🔲 Spri	ng 🛭	CC File	# 8302-2012-EF	LP-442-34
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	inges (Check all change	-	_		_
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	prmation (1-9 Must Be		'roposed" items b	lank if no change is	being made.)
1. Departme	ent: Business & Info Te	ech .			
2. Discipline	and Course Number	: Present : ERP 44	2 Рго	posed:	
3. Course Titi	e: Present: Advance	ed Customer Relatio	nship Managem	ent in ERP Enviro	nment
	Proposed:				
	ed Course Title: (24 Spaces or Less scription (300 Character	s. Only needed for N Spaces or Less.)	ew Courses or T	itle Changes.)	
Present:	Identification (targeting customers. Effective a tools used to enhance presentation required.	nd efficient manage student education v	ment of custom	ers using IT. SAP	CRM and SAS BI
Proposed:	Identification (targetin customers. Effective a Sybase mobile applica Students can't	nd efficient mgmt of tion development ar	customers, usi e used. Resear	ng IT. SAP CRM, ch paper and pre	SAS BI tools, and sentation required
5. If course re	equires field trip check				
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Proposed	1 :				
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	rs previously offered as -listed courses, initiale	<u>*</u>	•	• •	
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4) Recommende	5) d by Department	5) July	<u>~</u>	Da	ate: 9-26-/2
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Approved by	Curricula Committee:			Da	ate: <u>///3/20/2</u>
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From: 573 341 4362 Page: 4/17 Date: 11/7/2012 10:22:08 AM

Effective Year: 2013 CC File # 8303-2012-ERP-347-33 Term: Summer 🔲 Fall 🗌 Spring 🖂 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 a 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: Elective for Majors: 🛛 8. Required for Majors: 🔲 Course has been modified to keep up with technological change. 9. Justification: 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) Recommended by Department (Chair signature) Recommended by Discipline Specific Curricula Committee (Chair signature) Approved by Curricula Committee: ___ (Chair signature) Approved by Faculty Senate: _____ Date: (Chair signature)

From: 573 341 4362 Page: 5/17 Date: 11/7/2012 10:22:08 AM

Term: Summ	ar: 2013 ier 🗌 🏻 Fal	l 🗌 Spring	×	CC File	# 8304-2012-ERP-34	8-33
			e Change			
Course Cha		i nis form is foi ck all changes.)	r creating or modify	ing permanen	t courses.	
New Course [_	rse Deletion [_	lours 🗀	Prerequisites 🗌	
Course Title		alog Descriptio	- "	Number 🗆	Co-listing [
Course Info		= -			ank if no change is bein	g made.)
		ss & Info Tech			.	J
2. Discipline	and Cours	e Number:	Present : ERP 348	Prop	osed:	
3. Course Titl	e: Present	t: Strategic E	nterprise Managem	ent Systems		
	Propos	ed: Performane	ce Dashboard, Score	card, and Dat	ta Visualization	
	(24 Spa		ance Visualizatio mly needed for New aces or Less.)	Courses or Ti	tle Changes.)	
Present:	This course dashboards Strategic E	will study diff s, managemen	erent strategic perfe t cockpit, scorecard gement (SEM), Bus	s, and strateg	agement systems inc y maps in an organiz Xcelsius, or similar t	ation. SAP's
Proposed:	manageme	ent cockpit, sco ojects Xcelsius,	recards, and strates	gy maps in an	systems including das organization. SAP's l Platform will be used	зw,
5. If course re	equires field	trip check box	:: 🗆			
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From: 573 341 4362 **MST** Page: 6/17

Date: 11/7/2012 10:22:09 AM

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From: 573 341 4362

Page: 1/6

Date: 9/7/2012 4:33:24 PM

Effective Year: 2013
Effective Term: Summer

Fall 🔯

Spring 🗀

EC File # 2430-F32013- Hist-301

Experimental Course Form (EC)

An EC form must be submitted before an experimental course is to be offered. EC forms approved \$P2000 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 Shepperd

Credit Hours:

Lecture: 3

Lab: 0

Total: 3

Prorequisites:

HIST 112 or HIST 275

Samester(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.

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Department Chair:

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(Chair Signature)

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Discipline Specific Curricula Committee:

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Curricula Committee:

(Chair Signature)

Date: _______

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(Decisions 10/12/2010)

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From: 573 341 4362

Page: 2/6

Date: 9/7/2012 4:33:25 PM

Effective Year: 2013 Effective Term: Summer 🗔

Pall 📆

Spring 🗵

EC File # 2431- Sp 2013 -Ar + 201

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. Filing 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 affered, not to exceed two afferings. An experimental course that is required should be submitted on a CC form. Co-listed offerings should be submitted an 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 course 1) Philosophy 201	5) R: Tucingé lutrisie et habe c	3)	off of the land of the same
4)	5)	6)	
Department Chair:	ans.		Date: 9/5/5012
	1/6;	air Signature)	Date: 9/10/12
Discipline Specific Curricu	~ ~ (⊊n i	air signature)	, i ,
Curricula Committee:	Daniel Jawily (Cha	ir Signature)	Date: 11/9/20/2

09/05/12

(Revised 1/31/2008)

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From: 573 341 4362

Page: 3/6

Date: 9/7/2012 4:33:25 PM

Effective Year: 2013

Effective Term: Summer 🔲

Fall 🗀

Spring 🖾

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 Hourst

Lecture: 3

Lab: 🔿

Total: . ?

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 Dopt. Chair, if signature is not already included below.

1) 4)

2)

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Discipline Specific Curricule Committee:

(Chair Signature)

Curricula Committee:

(Chair Signature)

09/04/12

(Revised 10/12/2010)

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Missouri S&T

SPAN 201: Spanish Phonetics

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

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 has little or no knowledge of linguistics or phonetics of either Spanish or English. In general, such student has 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%

Required textbook

Morris, Richard E. (2010) Pronunciación de la lengua española para anglohablantes. Newburyport (MA): Focus Publishing/R. Pullins.

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

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F: 59-0

From: 573 341 4362 Page: 10/17 Date: 11/7/2012 10:22:10 AM

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. <u>Quizzes (20)</u>: 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 <u>inform</u> the instructor in advance <u>AND provide</u> 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/. 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: J. ¿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.

<u>Late submissions</u> will be accepted <u>ONLY</u> 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. <u>Assignments (10%):</u> 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 to 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. <u>Class participation</u>: 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:

From: 573 341 4362 Page: 11/17 Date: 11/7/2012 10:22:10 AM

- 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. 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 <u>and bring it every class</u>. 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.

From: 573 341 4362 Page: 12/17 Date: 11/7/2012 10:22:11 AM

Effective Year: 2013 Effective Term: Summer []	Fali 🗌	Spring 🛚	EC File # 2433 - Sp 2013 - MS & E. 301

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	d 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: Lecture: 3 Lab: O Total: 3

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.

1)	ea courses; Inclu 2)	3)	ture is not aiready included below.
4)	5)	6)	
Department Ch	air:	Me Accelle. (Chair Signature	Date: 9/10/12
Discipline Speci	ific Curricula Comn	Dioha k	apar Date: 9/26/12
Curricula Comn	nittee:	~ <i>()</i>	Date: 11/7/2012

From: 573 341 4362 Page: 13/17 Date: 11/7/2012 10:22:11 AM

Effective Year: 2 Effective Term; S		‼ □ Sp	oring 🗵	EC File #2434-5p2013 - (Chem -
	Experi	imen	tal Co	ırse Form (EC)	,0,
approved SP200	9 or later allow d. After an exp	v the cou erimenta	rse to be o Il course ha	intal course is to be offered. EC forms ffered twice at any time during the foll is been offered twice, a CC form may b	lowing Je
A new course th be submitted on				program, minor, or graduate certificate course number	ı may
Co-listed offerin	gs should be si	ubmitted	on one for	m, originating from the primary discip	line.
Department: Che	emistry				
Discipline and Co	ourse Number:	Chem 40	1		
Course Title: Soli	id-State and Mat	erials Che	emistry		
Abbreviated Title	e (24 spaces oi	r less) ; S	olid-State C	nemistry	
Instructor(s): Ar	mitava Choudhur	γ			
Credit Hours:	Lecture: 3.0	ļ	Lab: 0	Total: 3.0	
Prerequisites:	CHEM 331 or CH	HEM 346.			
Semester(s) pre	viously taught:	: NA			
application to the	urse is to build <mark>a</mark> materials world. s including electr	compreh Emphasis rical, optic	ensive unde s will be give tal and magi	rstanding of the chemistry of solids and its in on the synthesis, structure and various netic. Students will gain knowledge about h operties for a particular application.	
List all co-listed 1)	courses: Includ 2)	le initials	of Pept. Cha 3)	ir, if sign ature is not alrea dy included belo	· W •
4)	5)	1	6)		

(Revised 10/12/2010)

From: 573 341 4362

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Date: 11/7/2012 10:22:11 AM

Effective Year: 2013 EC File # 2435 - Sp 2013 - French Effective Term: Summer □ Fall □ Spring ☑
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, mlnor, 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: FR301
Course Title: Contemporary Francophone Literature
Abbreviated Title (24 spaces or less): Francophone Literature
Instructor(s): Audra Merfeld-Langston
Credit Hours: Lecture: 3 Lab: O 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)
Department Chair: Date: 9-17-12 (Chair Signature) Discipline Specific Curricula Committee: Date: 9-17-12

____aurricula Committee:

From: 573 341 4362 Page: 15/17 Date: 11/7/2012 10:22:12 AM

Effective Year: 20: Effective Term: Sun		pring 🛚	EC File # 2436-S	p2013-BioSci-401			
	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 be submitted on a	is required as part of CC form to receive a	of a degree progra permanent cour	am, minor, or gradu se number	ate certificate may			
Co-listed offerings	should be submitted	d on one form, or	iginating from the p	rimary discipline.			
Department: Biolog	gical Sciences						
Discipline and Cou	ı rse Number: BioSci 4	01					
C ourse Title: Advar	nced Sleep Biology						
Abbreviated Title ((24 spaces or less): /	Adv Sleep Bio					
(nstructor(s): Mati	thew Thimgan			,			
Credit Hours:	Lecture: 3	Lab: 0	Total: 3				
Prerequisites: _B	io 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 epidemiolgical studies to understand the role of inadequate sleep on health and cognitive performance.							
List all co-listed co 1)	ourses: Include initial: 2)	s of Dept. Chair, if s 3)	signature is not alread	y included below.			
4)	5)	6)					
Department Chair: ,	SLASA	رقتر (Chair Signa	ature)	Date: 9/18/12			
Discipline Specific C	urricula Committee: _	2) aniel four	nt	Date: 16-4-2012			

(Revised 10/12/2010)

Curricula Committee:

(Chair Signature)

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Effective Year: 2013

Effective Term: Summer
Fall
Spring

EC File # 2/37 - Sp2013 - Chem - 201

Experimental Course Form (EC)

An EC form must be submitted before an experimental course is to be offered. EC forms approved \$P2009 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:	Total: RSP 1.0	
Prerequisites:	: Consent of instructor required.			
Semester(s) previously taught: None				

Brief Course Description: (40 words or less)

Undergraduate student, under guidance of a faculty supervisor, will implement effective active-learning strategies that adapt to educational technology and collaborative learning. Student will maintain professional standards established by the American Chemical Society.

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List all co-lis	ted courses: Includ 2)	de initials of Dept. Chair, if signals	ature is not already included belov	N.
4)	5)	6)		
Department C	hair:	Um Wand		1-12
Department -		(Chair Signatur	e) 	lana.
Discipline Spe	cific Curricula Comn	nittee: Hanub faux	e)	/
S. wiede Com	umittan Dani	1 Fairl _		7/2012
Curricula Com	imilitée.	(Chair Signature	3)	

(Revised 10/12/2010)

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Effective Year: 2 Effective Term: S	:013 ummer 🗌 🛘 Fall 🗍	Spring 🛚	EC File # 2439-SP13-IST-301
	Experime	ntal Cou	rse Form (EC)
approved SP200 three year perio	9 or later allow the	course to be offental course has	ntal course is to be offered. EC forms fered twice at any time during the following s been offered twice, a CC form may be
	at is required as par a CC form to receive		rogram, minor, or graduate certificate may course number
Co-listed offerin	gs should be submit	ted on one forn	n, originating from the primary discipline.
Department: Bus	and Info Tech		
Discipline and Co	ourse Number: IST 3	01	
Course Title: Intr	o To Data Warehouses	3	
Abbreviated Title	e (24 spaces or less)): Intro Data Wa	rehouses
Instructor(s): Yu	ı		
Credit Hours:	Lecture: 3.0	Lab: O	Total: 3.0
Prerequisites:	IST 223 or relational c	latabase experier	ice
Semester(s) pre	viously taught:		
This course introdu student from the d	latabase platform to st ressing the user comm	warehouses and t ructuring a data	the value to the organization. It takes the warehouse environment. Focus is placed on taught with IST 444, but with fewer
List all co-listed (1) ERP 301	courses: Include initia 2)	als of Dept. Chair 3)	, if signature is not already included below.
4)	5)	6)	
			- 1-1-

(Revised 10/12/2010)