From: 573 341 4362 Page: 1/23 Date: 8/19/2009 9:45:59 AM



Missouri University of Science and Technology

Formerly University of Missouri-Rolla

Agenda Campus Curricula Committee Meeting September 1, 2009 Meeting 3:00 p.m. Room 117 Fulton Hall

Approval of May 5, 2009 minutes.

Review of submitted DC forms:

DC 0327, Interdisciplinary Engineering, effective Fall 2009.

A proposal to inactivate the Bachelor of Science degree in Interdisciplinary Engineering.

DC0328, Mining Engineering, effective Fall 2009.

A proposal to modify the current curriculum for the BS in Mining Engineering.

DC0329, Finance, effective Fall 2009.

A proposal to remove Econ 323 from the Finance minor.

DC0331, Cognitive Neuroscience, effective Spring 2010.

A proposal to modify the current requirements for the minor in Cognitive Neuroscience by requiring Psych 345.

DC0333, Business and Management Systems, effective Fall 2010.

A proposal to modify the current curriculum for the BS in Business and Management Systems.

DC0335, Information Science and Technology, effective Fall 2010.

A proposal to modify the current curriculum for the MS in Information Science and Technology.

DC 0336, Arts, Languages & Philosophy, effective Spring 2010.

A proposal to create a new minor called Studio Art Minor.

Review of submitted CC forms:

CC 7689, Mining Engineering 221, Mining Exploration, effective Fall 2009.

CC 7690, Mining Engineering 225, Surface Mine Design, effective Fall 2009.

CC 7691, Mining Engineering 235, Underground Mine Design, effective Fall 2009.

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Office of the Registrar • 103 Parker Halt • 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

Formerly University of Missouri-Rolla

CC 7692, Mining Engineering 324, Underground Mining Methods and Equipment, effective Fall 2010.

CC 7693, Mining Engineering 326, Surface Mining Methods and Equipment, effective Spring 2010.

CC 7694, Mining Engineering 331, Rock Mechanics I, effective Fall 2009.

CC7695, Mining Engineering 332, Soils and Overburden Materials for Mining Engineering, effective Fall 2009.

CC 7696, Mining Engineering 392, Mine Design Project I, effective Fall 2009.

CC 7697, Mining Engineering 393, Mine Planning and Design, effective Fall 2009.

CC 7700, Arts, Languages & Philosophy 111, Global Village, effective Fall 2009.

CC 7701, Technical Communication 433, Proposal Writing, effective Fall 2009.

CC 7702, Psychology 345, Evolutionary Psychology, effective Fall 2009.

CC 7705, Computer Science 378, Introduction to Neural Networks & Applications, effective Fall 2009.

CC 7708, Computer Science 462, Advanced Network Security, effective Spring 2010.

CC 7712, IST 336, Foundations of Internet Computing, effective Fall 2010.

CC 7713, IST 461, Information Systems Project Management, effective Fall 2010.

CC 7714, M&IS 397, Capstone Seminar in Management and Information Systems, effective Spring 2010.

CC 7715, M&IS 101, Special Topics, effective Spring 2010.

CC 7717, Art 30, Drawing II, effective Spring 2010.

CC 7718, Art 50, Painting II, effective Spring 2010.

CC 7726, Biological Sciences 358, Advanced Biodiversity, effective Spring 2010.

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Missouri University of Science and Technology

Formerly University of Missouri-Rolla

Review of submitted EC forms:

EC 2182, Business 301, Accounting and Finance Essentials, effective Spring 2010.

EC 2183, Business 301, Management, Marketing and Business Law Essentials, effective Spring 2010.

EC 2184, Business 301, Operations Management and Management Information Systems Essentials, effective Spring 2010.

EC 2187, History 301, Making of Modern Germany, effective Spring 2010.

EC 2188, Biological Sciences 301, Pharmacology, effective Spring 2010.

EC 2189, Biological Sciences 301, Nanobiotechnology, effective Spring 2010.

EC 2191, Marketing 301, Integrated Marketing Communications, effective Fall 2009.

EC 2192, IST 301, Advanced Networking, effective Fall 2009.

EC 2195, History 301, Mark Twain's America, effective Spring 2010.

EC 2199, Biological Sciences 301, Genomics, effective Spring 2010.

Tabled Items:

CC 7635, ERP 442, Customer Relationship Management in an ERP Environment. **Tabled.**

Catalog Description: This course emphasizes identification (targeting), acquisition, retention, and development (expansion of (profitable) customers. It also covers effective and efficient management of customers, using information technology. The SAP CRM and SAS BI tools are used to enhance student education with real world applications.

Credit Hours: 3 hour lecture Prerequisites: ERP 345

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Date: 8/19/2009 9:46:00 AM

From: 573 341 4362

Page: 1/2

Date: 4/8/2009 9:56:22 AM

Effective Year: 2009 Effective Term: Summer [] Fall [Creating or modifying a degree progra		DC# 0327-6	2009-IDE
	e Change For	• •	d colooce
This form is to be used for creat	ing or modifying degree broste	itta) ciulaidala dieda) qu	. ((((()
Title of degree program, empha: nterdisciplinary Engineering,	•		
Department: Interdisciplinary	/ Engineering		
Briefly describe action requester Place program on "Inactive Sta	d (Attach documentation	* *	re not realized
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Recommended by Department:	(Chair signesure)		~
Recommended by Discipline Specific C	Curricula Committee: (M) (Chair signature)	1 Banker Date	e: <u>4-9-09</u>
Approved by Curricula Committee:	(Chair signature)	Dat	:e:
Approved by Faculty Senate:	/	Dat	e:
	(Chair signature)		

(Revised 1/31/2008)

Form PC

PROGRAM CHANGE FORM

y: <u>Missouri Univers</u> ution (Campus or off-cam	<u>ity of</u> pus r e sid	<u>Scienc</u> dential ce	ce_and_Technology enter in the case of multi-	campus i	nstitution	ıs)
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Before the Proposed Cha	ange		After the Proposed Char	ge		İ
Title of Old Program or Certificate Option	Degree	CIP Code	Title of New Program or Certificate Option	Degree	CIP Code	
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Engineering		,	Engineering			
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nstitutional Office Sign	ature [1-4787	Date				
	gram Change (Check tho change only bination program created on (s) added to existing proson of certificate program on of free-standing single e program(s) e option(s) am placed on "Inactive Stagram Change or Addition Before the Proposed Charitle of Old Program or Certificate Option Interdisciplinary Engineering by of the "before and after of program change, addition of the "before and after of program change, addition" (Fall Semester 20) ION Institutional Officer Signam Schonberg, 34	gram Change (Check those that a change only pination program created out of clon(s) added to existing program(s) on of certificate program developed on of free-standing single-semeste program(s) e option(s) am placed on "Inactive Status" list gram Change or Addition of Option Before the Proposed Change Title of Old Program or Certificate Option Interdisciplinary BS Engineering by of the "before and after" curricular that been eliminate the of program change, additional of the program change, additional of the status of program change, additional of the status of the s	change only change on created out of closely allie n(s) added to existing program(s) con of certificate program developed from a con of free-standing single-semester certific e program(s) e option(s) am placed on "Inactive Status" list cgram Change or Addition of Options: Before the Proposed Change Title of Old Program or Certificate Option Interdisciplinary Engineering oy of the "before and after" curriculum, as a rtment has been eliminated - the te of program change, additional options, or 9 (Fall Semester 2009) ION Provost Institutional Officer Signature Date am Schonberg, 341-4787	change only pination program created out of closely allied existing programs in(s) added to existing program(s) on of certificate program developed from approved existing parent of on of free-standing single-semester certificate program e program(s) e option(s) am placed on "Inactive Status" list gram Change or Addition of Options: Before the Proposed Change	change only pination program created out of closely allied existing programs n(s) added to existing program(s) on of certificate program developed from approved existing parent degree on of free-standing single-semester certificate program e program(s) e option(s) am placed on "Inactive Status" list gram Change or Addition of Options: Before the Proposed Change Title of Old Program or Certificate Option Interdisciplinary BS 140101 Interdisciplinary BS Engineering by of the "before and after" curriculum, as applicable, and a rationale for the program change, additional options, or "Inactive Status": 9 (Fall Semester 2009) ION Provost 4/8/09 Institutional Officer Signature Date am Schonberg, 341-4787	change only ination program created out of closely allied existing programs not added to existing program(s) on of certificate program developed from approved existing parent degree on of free-standing single-semester certificate program exports and program(s) exprision(s) am placed on "Inactive Status" list am placed on "Inactive Status" list am placed on "Inactive Status" list are proposed Change are

From: 573 341 4362

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Date: 8/19/2009 9:46:01 AM

Date: 4/22/2009 10:28:55 AM

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DC # 0328-2009-Miling-00-00 Effective Year: 2009 rall 🖾 Spring 🔲 Effective Term: Summer 🔲 (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: Bachelor of Science Degree in Mining Engineering

Department: Mining and Nuclear Engineering

Briefly describe action requested (Attach documentation as appropriate): Department seeks approval by the appropriate Campus Committees for the proposed curriculum for the B.S. degree in Mining Engineering effective Fall 2009. The curriculum changes resulted from the periodic program quality audit by faculty, consultations with the program constituencies (students, faculty, industry, alumni and the Academy) and the 2008-2009 ABET Review process.

04/21/09		(Revised 1/31/2008)
Approved by Faculty Senate:	(Chair signature)	
annessed by Engully Consta-		Date:
Approved by Curricula Committee:	(Chair signature)	Date:
Recommended by Discipline Specific Cur	rricula Committee:	Date: 6-1-0
Recommended by Department:	(Chair signature)	Date: 04/21/0°

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From: 573 341 4362 Page: 7/23 Date: 8/19/2009 9:46:01 AM

MISSOURI S&T MINING ENGINEERING CURRICULUM

Student Name _____ 128 Credit Hours (01/19/09)

FRESHMAN YEAR _____

First Semester	Credit	Second Semester	Credit
Chem 001 General Chemistry I	4	Math 015 Calculus for Engineers II	4
Chem 002 General Chemistry I Lab	1	Physics 023-Engineering Physics I	4
Chem 004 Lab Safety	1	IDE 020 Engineering Design w Comp Appl	3
Math 014 Calculus for Engineers I	4	MI Eng 003 Principles of Mining Engineering	1
FE 010 Study & Careers in Engineering	1	Mi Eng 151-Introduction to Mining Safety	1
English 20 Exposition and Argumentation	3	Ge Eng 050-Geology for Engineers	3
History 112, 175, 176 or Political Science 90	3		
TOTAL	17	TOTAL	16

SOPHOMORE YEAR

First Semester	Credit	Second Semester	Credit
Mi Eng 110 Surveying for Mineral Engineers	2	Geo 125 Physical Mineralogy and Petrology	3
Mi Eng 215 Materials Handling in Mines	3	Physics 024 Engineering Physics II	4
Econ 121 Principles of Micro-Economics; or	3	IDE 140 Statics and Dynamics	3
Econ 122 Principles of Macro-Economics		***************************************	
Math 022 Calculus and Analytic Geometry III	4	Math 204 Elementary Differential Equations	3
Geo 220 Structural Geology	4	Mi Eng 235 Underground Mine Design	3
Mi Eng 225 Surface Mine Design	3		
TOTAL	19	TOTAL	16

JUNIOR YEAR

First Semester	Credit	Second Semester	Credit
Mi Eng 221 Mining Exploration	3	Mi Eng 241 Principles of Mineral Processing	3
Civ E 230 Elementary Fluid Mechanics	3	Mi Eng 318 Mine Atmospheric Control	3
English 065-Tech Writer in Bus & Industry	3	Mi Eng 324 U/G Mining Methods & Equipment	3
Stat 213 Applied Engineering Statistics	3	Mi Eng 326 Surface Mining Methods & Equipment	3
HSS Elective	3	Mi Eng 331 Rock Mechanics	3
		HSS Elective	3
TOTAL	15	TOTAL	18

SENIOR YEAR

First Semester	Credit	Second Semester	Credit
Mi Eng 307 Principles of Explosives Engineering	3	Mi Eng 376 Environmental Aspects of Mining	3
Mi Eng 317 Mine Power and Drainage	3	Mi Eng 393 Mine Design Project II	4
Mi Eng 322 Mine Management	2	Technical Elective	3
Mi Eng 332 Soils and Overburden Materials	2	HSS Elective	3
Mi Eng 392 Mine Design Project I	1		
Technical Elective	3		
TOTAL	14	TOTAL	13

- 1. The curriculum contains a total of 21 general education credit hours. The three HSS electives must be from the approved list with at least one course (3 or more hours) that builds on depth and at least one course (3 or more hours) that focuses on the economics of a large enterprise, such as the mining industry, e.g. Econ 340 or Econ 345. The latter also satisfies the depth requirement.
- Explosives Engineering Emphasis: Mi Eng 350 (Blasting Tech) and either Ml Eng 301, 390 (Special Topics and Mining Research, both in an explosives area), Ge Eng 371 (Rock Engineering) or Mi Eng 383 (Tunneling/Construction) have to be taken as Technical Electives.
- 3. Quarrying Engineering Emphasis: Cv Eng 216 (Construction Materials) and Mi Eng 304 (Advanced Aggregate and Quarrying) have to be taken as Technical Electives.
- 4. Coal Emphasis: Mi Eng 343 (Coal Mine Development and Production), Mi Eng 311 (Mine Plant Management) or an approved substitute course has to be taken as Technical Electives.
- Mining and Environment Emphasis: Geol Eng 235 (Environmental Geosciences), Geol Eng 333 (Risk Assessment in Environmental Studies), or approved substitute courses have to be taken as Technical Electives.
- 6. Mining Health and Safety Emphasis: Mi Eng 202 (Mine Rescue), Eng Mgt 311 (Human Factors), or other approved substitute courses have to be taken as Technical Electives.
- 7. Sustainable Development Emphasis: Pol Sci 315 (Public Policy Analysis), Econ 340 (Environmental and Natural Resource Economics), or other approved substitute courses have to be taken as Technical Electives.
- 8. Mining courses in italics are offered every semester.

From: 573 341 4362 Page: 8/23 Date: 8/19/2009 9:46:01 AM

Huffman, Angie L.

From: Bayless, Jerry R.

Sent: Monday, May 04, 2009 2:54 PM

To: Frimpong, Samuel

Cc: Book, Neil L.; Watkins, Steve E.; Grasman, Scott E.; Anderson, Neil L.; Bachman, Bonnie;

Schlesinger, Mark E.; Nisbett, J. Keith; Mueller, Gary Edward; Huffman, Angie L.

Subject: Mining Engr Currculum Changes

The Engineering DSCC has voted not to approve the curriculum changes for Mining Engineering curriculum changes recently submitted. The amni issue is the use of two Mining Engineering courses for general education courses. I will return the forms without our approval the the Regiatrar's Office.

Jerry

Jerry R. Bayless, PE
Associate Professor
Civil, Architectural and Environmental Engineering
Missouri University of Science and Technology
332 Butler Carlton Civil Engineering Hall
1401 North Pine Street
Rolla, MO 65409
(573) 341-4150

Fax: (573)341- 4729

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Date: 8/19/2009 9:46:02 AM

MISSOURI S&T MINING ENGINEERING CURRICULUM

Student Name _____ 128 Credit Hours (01/19/09)

FRESHMAN YEAR

First Semester	Credit	Second Semester	Credit
Chem 001 General Chemistry I	4	Math 015 Calculus for Engineers II	4
Chem 002 General Chemistry I Lab	1	Physics 023-Engineering Physics I	4
Chem 004 Lab Safety	1	IDE 020 Engineering Design w Comp Appl	3
Math 014 Calculus for Engineers I	4	Mi Eng 003 Principles of Mining Engineering	1
FE 010 Study & Careers in Engineering	1	Mi Eng 151-Introduction to Mining Safety	11
English 20 Exposition and Argumentation	3	Ge Eng 050-Geology for Engineers	3
History 112, 175, 176 or Political Science 90	3		
TOTAL	17	TOTAL	16

SOPHOMORE YEAR

First Semester	Credit	Second Semester	Credit
Mi Eng 110 Surveying for Mineral Engineers	2	Geo 125 Physical Mineralogy and Petrology	3
Mi Eng 215 Materials Handling in Mines	_ 3	Physics 024 Engineering Physics II	4
Stat 213 Applied Engineering Statistics	3 .	IDE 140 Statics and Dynamics	3
Math 022 Calculus and Analytic Geometry III	454	Math 204 Elementary Differential Equations	3
Geo 220 Structural Geology	4	Mi Eng 235 Underground Mine Design	3
Mi Eng 225 Surface Mine Design	3	(441)	
TOTAL	19	TOTAL	16

JUNIOR YEAR

First Semester	Credit	Second Semester	Credit
Mi Eng 221 Mining Exploration	3	Mi Eng 241 Principles of Mineral Processing	3
Mi Eng 270 Mining Industry Economics	3	Mi Eng 318 Mine Atmospheric Control	3
Civ E 230 Elementary Fluid Mechanics	3	Mi Eng 324 U/G Mining Methods & Equipment	3
Econ 121 Principles of Micro-Economics; or Econ 122 Principles of Macro-Economics	3	Mi Eng 326 Surface Mining Methods & Equipment	3
English 065-Tech Writer in Bus & Industry	3	-Mi Eng 331 Rock Mechanics	3
		HSS Elective	3
TOTAL	15	TOTAL	18

SENIOR YEAR

First Semester	Credit	Second Semester	Credit
Mi Eng 307 Principles of Explosives Engineering	3	Mi Eng 376 Environmental Aspects of Mining	3
Mi Eng 317 Mine Power and Drainage	3	Mi Eng 393 Mine Design Project II	4
Mi Eng 322 Mine Management	2	Technical Elective	3
Mi Eng 332 Soils and Overburden Materials	2	HSS Elective	3
Mi Eng 392 Mine Design Project I	1		
Technical Elective	3		
TOTAL	14	TOTAL	13 _

1. The curriculum contains a total of 23 general education credit hours (including Mi Eng 270, Mi Eng 322, Engl 20 and Engl 65). The two HSS electives must be approved by an advisor with at least one course (3 hours) that builds on depth.

2. Metal Mining Emphasis: Mi Eng 312 (Ore Reserves Analysis & Geostatistics), Geo 294 (Metallic and Industrial Mineral Deposits) or an approved substitute course has to be taken as Technical Electives.

3. Explosives Engineering Emphasis: Mi Eng 350 (Blasting Tech) and either Mi Eng 301, 390 (Special Topics and Mining Research, both in an explosives area), Ge Eng 371 (Rock Engineering) or Mi Eng 383 (Tunneling/Construction) have to be taken as Technical Electives.

4. Quarrying Engineering Emphasis: Cv Eng 216 (Construction Materials) and Mt Eng 353 (Mineral Processing I) have to be taken as Technical Electives.

5. Coal Mining Emphasis: Mi Eng 343 (Coal Mine Development and Production), Mi Eng 311 (Mine Plant Management) or an approved substitute course has to be taken as Technical Electives.

6. Mining and Environment Emphasis: Geol Eng 235 (Environmental Geosciences), Geol Eng 333 (risk Assessment in Environmental Studies), or approved substitute courses have to be taken as Technical Electives.

Mining Health and Safety Emphasis: Mi Eng 202 (Mine Rescue), Eng Mgt 311 (Human Factors), or other approved substitute courses have to be taken as Technical Electives.

8. Sustainable Development Emphasis: Pol Sci 315 (Public Policy Analysis), Econ 340 (Environmental and Natural Resource Economics), or other approved substitute courses have to be taken as Technical Electives.

Mining courses in italics are offered every semester.

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Date: 8/19/2009 9:46:02 AM



Missouri University of Science and Technology

Formerly University of Missouri-Rolla

April 13, 2009

Registrar
Discipline Specific Curricula Committee
Campus Curricula Committee
Faculty Senate

Missouri University of Science and Technology Rolla, MISSOURI

Dear Sir/Madam:

RE: Proposed Curriculum for the B.S. Degree in Mining Engineering

Attached is a proposed undergraduate Mining Engineering curriculum effective FS 2009, with changes in specific existing and new courses and a presentation I gave to the undergraduate mining engineering students on the new curriculum.

The existing program has been modified to incorporate specific courses, which strengthen and maintain the program quality for preparing graduates. These changes are the results from a program audit by the Mining Engineering faculty members based on the ABET program criteria for Mining Engineering, and extensive consultations with industry, alums and graduating seniors. The rationale, components and subsequent charges are detailed in the attached documents.

These changes do not require additional faculty and/or resources to execute the new curriculum. If you require additional information, clarification and/or suggestions, please do not hesitate to contact me.

Regards,

Samuel Frimpong, PhD, PEng

Professor and Chair

Robert H. Quenon Endowed Chair

Cc: Mining Engineering Faculty

File

Mining and Nuclear Engineering • 226 McNutt Hall • 1400 N. Bishop • Rolla, MO 65409-0450 Phone: 573-341-4753 • Fax: 573-341-6934 • Email: mining@lists.mst.edu • Web: mining.mst.edu

An equal opportunity institution

From: 573 341 4362 Page: 11/23 Date: 8/19/2009 9:46:02 AM DC # 0329-2009-FIN-00-00 Effective Year: 2009 Fall 🖾 Spring 🔲 Effective Term: Summer (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: **Department:** Business and Information Technology Briefly describe action requested (Attach documentation as appropriate): Remove ECON 323 International Finance from the possible electives for the minor. This change is required for our pursuit of AACSB accreditation. All business courses, including all finance courses, must be offered through the BIT department or a department accredited by ABET. Recommended by Department: (Chair signature) Recommended by Discipline Specific Curricula Committee: (Chair signate Date: _____ Approved by Curricula Committee: __ (Chair signature)

(Revised 1/31/2008)

Date: _____

Approved by Faculty Senate: ____

Minor in Finance

(Chair signature)

From: 573 341 4362 Page: 12/23 Date: 8/19/2009 9:46:03 AM DC # 0331-2009-Psych-000-00 Effective Year: 2010 Fall 🔲 Spring 🖂 Effective Term: Summer 🔲 (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: Cognitive Neuroscience Minor Department: Psychological Science Briefly describe action requested (Attach documentation as appropriate): Changing requirements for the Minor: Old required courses were: Psych 50, Psych 305, Psych 330, Psych 340 and Psych 240 OR Psych 362. New required courses are: Psych 50, Psych 305, Psych 330, Psych 240 and Psych 340 or Psych 354 or Psych 362. Recommended by Department: Recommended by Discipline Specific Curricula Committee: (Chair signatu) Approved by Curricula Committee: ____ Date: _____ (Chair signature) Approved by Faculty Senate:___ Date: (Chair signature)

(Revised 1/31/2008)

From: 573 341 4362 Page: 13/23 Date: 8/19/2009 9:46:03 AM Effective Year: 2010 DC # 0333-2009-BUS-000-00 Effective Term: Summer Fall 🖾 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: BS in Business and Management Systems **Department:** Business and Information Technology Briefly describe action requested (Attach documentation as appropriate): Add BUS 422 International Business as a major requirement for the degree to comply with AACSB accreditation requirements. Delete one free elective with the result that 9 hours of free electives are required instead of 12 to keep the degree program at 120 credit hours. Recommended by Department: Recommended by Discipline Specific Curricula Committee: Approved by Curricula Committee: __ Date: (Chair signature)

(Revised 1/31/2008)

Date: _____

Approved by Faculty Senate: ____

(Chair signature)

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Date: 8/19/2009 9:46:04 AM

From: 573 341 4362

Page: 1/7 Date: 6/17/2009 8:54:50 AM

DC #	0335-2009-IST-000-00
ENTACTIVE VEST: /U.LO	**
Effective Term: Summer Fall 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:

M.S. in Information Science and Technology

Department: Business and Information Technology

Briefly describe action requested (Attach documentation as appropriate):

Graduate students in Information Science and Technology (IST) require more understanding of research directions in the field. Two required courses, IST 336 and IST 361, will be replaced by higher level courses, IST 436 and IST 461.

The degree requirements will then become:

M.S. with Thesis: The M.S. degree with thesis requires the completion of 24 hours of graduate course work (a minimum of 12 at the 400 level), 6 hours of research (IST 490), and the successful completion and defense of a research thesis.

M.S. without Thesis: The M.S. degree without thesis requires the completion of 30 hours of graduate course work (a minimum of 15 at the 400 level).

The following core courses are required of all M.S. students in IST. These courses are designed to insure that all IST M.S. students study the four information systems perspectives of networks and Web design, human perception, management of application implementation, and organizational

- IST 351 Leadership in Technology-Based Organizations
- IST 385 Human-Computer Interaction
- IST 436 Foundations of Internet Computing
- IST 461 Information Systems Project Management

Recommended by Department: (Chair signature)	Date: 6/17/09
Recommended by Discipline Specific Curricula Committee: (Chair signature)	Date: <u>7-29-0</u> 7
Approved by Curricula Committee:(Chair signature)	Date:
Approved by Faculty Senate: (Chair signature)	Date:

(Revised 1/31/2008)

From: 573 341 4362 Page: 15/23 Date: 8/19/2009 9:46:04 AM

Effective Year: 2010 DC # $0336-6$ Effective Term: Summer \Box Fall \Box Spring \boxtimes (Creating or modifying a degree program must be effective for a Fall term)	2 <i>0</i> 09-Art- <i>00</i> 0
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: Studio Art Minor	
Department: ALP	
Briefly describe action requested (Attach documentation as appropriate): The Studio Art Minor offers students the opportunity to pursue and area of focus idrawing, photography, etc.	: n painting,
The minor requires 15 hours, including Art 80: Art Appreciation, which is a require Students may take additional 12 hours from these offerings: Art 20: Drawing I; Art 40: Painting I; Art 64: Sculpture; Art 120: Drawing II; Art 140: Painting II; Art 203: Architectural Design I; Art 221: The Study of Photography.	ed course.
Recommended by Department: (Chair signature)	Date: <u>6/12/09</u> Date: <u>7/6/0</u> 9
Recommended by Discipline Specific Curricula Committee: (Chair signature)	Date:
Approved by Curricula Committee:(Chair signature)	Date:
Approved by Faculty Senate:(Chair signature)	Date:

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Date: 8/19/2009 9:46:04 AM

From: 573 341 4362 Page: 4/16 Date: 4/22/2009 10:28:56 AM cc File #7689-2009-MiErg-221-34 Effective Year: FS2009 Effective Term: Summer 🔲 Fall 🖾 Spring 🔲 Course Change Form (CC) This form is for creating or modifying permanent courses. Course Changes (Check all changes.) Prerequisites 🗔 Credit Hours Course Deletion 🗌 New Course 🔲 Co-listing Course Number 🛄 Course Title 🗀 Catalog Description Course Information (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.) 1. Department: Mining and Nuclear Engineering Proposed: Mi Eng 221 2. Discipline and Course Number: Present : Mi Eng 221 Present: Mining Exploration 3. Course Title: Proposed: Mining Exploration Abbreviated Course Title: Exploration (24 Spaces or Less. Only needed for New Courses or Title Changes.) 4. Catalog Description (40 Words or Less) Presenti SEE ATTACHED Proposed: SEE ATTACHED 5. If course requires field trip check box: \Box Total: 3 Lab: 🗘 Lecture: 3 Present: 6. Credit Hours: Total: 3 Lab: 0 Proposed: Lecture: 3 7. Prereguisites: Present: Geology 125 and Mi Eng 110 Proposed: Geology 125 and Mi Eng 110 Elective for Majors: 8. Required for Majors: 🖾 This course is a core requirement of the undergraaute Mining Engineering program. 9. Justification: 10. Semesters previously offered as an experimental course (101, 201, 301, 401): 11. List all co-listed courses, initialed by Dopt. Chair, if signature does not appear below. 2) 1) 4) Date: 04/13/09 Recommended by Department (Chair signature) Recommended by Discipline Specific Curricula Committee (Chair signature) Date: _ Approved by Curricula Committee: (Chair signature) Date: _ Approved by Faculty Senate: _

04/13/09

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(Revised 1/31/08)

(Chair signature)

From: 573 341 4362 Page: 17/23 Date: 8/19/2009 9:46:05 AM

Date: 4/22/2009 10:28:56 AM From: 573 341 4362 Page: 5/16

Mi Eng 221 Mining Exploration (LEC 3.0) Classification of mineral deposits. Role of mining and processing in defining orebodies. Geology, geophysics, geochemistry, geobotany, and drilling in mineral exploration. Sampling orebodies. Ore reserve modeling, introduction to probability, statistics and geostatistics. Reserve estimation project. Pre-requisites: Geology 125 and Mi Eng 110.

Mi Eng 221 Mining Exploration (LEC 3.0) Classification of mineral deposits. Role of mining and processing in defining orebodies. Geology, geophysics, geochemistry, geobotany, and drilling in mineral exploration. Sampling methods (channeling, diamond drilling, trenching, bulk and grab), errors and mitigation. Resources/Reserves classification. Definitions and characteristics of proven, probable and possible resources/reserves. Reserve estimation project. Pre-requisites: Geology 125 and Mi Eng 110.

From: 573 341 4362 Pa

From: 573 341 4362

Page: 18/23

Page: 6/16

Date: 4/22/2009 10:28:56 AM

Date: 8/19/2009 9:46:05 AM

CC File #7490-2009-Mility-225-10 Effective Year: FS2009 Spring 🔲 Fall 🖾 Effective Term: Summer 🛄 Course Change Form (CC) This form is for creating or modifying permanent courses. Course Changes (Check all changes.) Prerequisites 🗌 Credit Hours 🔲 Course Deletion 🔲 New Course Z Co-listing Course Number 🗗 Catalog Description Course Title 🗌 Course Information (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.) 1. Department: Mining and Nuclear Engineering Proposed: Mi Eng 225 2. Discipline and Course Number: Present: Mi Eng 201 Present: Surface Mine Design 3, Course Title: Proposed: Surface Mine Design Abbreviated Course Title: Surface Design (24 Spaces or Less. Only needed for New Courses or Title Changes.) 4. Catalog Description (40 Words or Less) Present: SEE ATTACHED Proposed: SEE ATTACHED 5. If course requires field trip check box: 🗌 Total: 3 Lab: 2 Lecture: 1 Present: 6. Credit Hours: Total: 3 Lab: 2 Lacture: 1 Proposed: 7. Prerequisites: Present: Mi Eng 003 Proposed: Mi Eng 003 or consent of instructor Elective for Majors: 🗆 8. Required for Majors: 🗵 This course is a core requirement of the undergraduate Mining Engineering program. 9. Justification: 10. Semesters previously offered as an experimental course (101, 201, 301, 401): 11. List all co-listed courses, initialed by Pept. Chair, if signature does not appear below. 2) 1) 4) Recommended by Department (Chair slonature) Recommended by Discipline Specific Currillula Committee (Chair signature) Date: Approved by Curricula Committee: (Chair signature) Date: Approved by Faculty Senate: (Chair signature) (Revised 1/31/08) 04/13/09

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From: 573 341 4362 Page: 19/23 Date: 8/19/2009 9:46:05 AM

From: 573 341 4362 Page: 7/16 Date: 4/22/2009 10:28:57 AM

EXISTING

Mi Eng 201 Surface Mine Design (LEC 1.0 and LAB 2.0): Introduction to surface mining. Engineering design and optimization of surface mine layouts. Geomechanics, geometric and computer-aided mine layouts, haul roads, and waste dump design. Layouts optimization using the floating cone and the Lerchs-Grossmann's algorithms. Design of materials scheduling and sequencing for long and short range mine planning. Use of an industry standard and commercially available mine design software.

PROPOSED

Mi Eng 225 Surface Mine Design (LEC 1.0 and LAB 2.0): Introduction to surface mining. Drill hole data analysis and database management. Conventional methods for ore reserves estimation. Engineering design and optimization of surface mine layouts. Geomechanics, geometric and computer-aided mine layouts, haul roads, and waste dump design. Layouts optimization using the floating cone and the Lerchs-Grossmann's algorithms. Design of materials scheduling and sequencing for long and short range mine planning. Use of an industry standard and commercially available mine design software.

From: 573 341 4362 Page: 20/23 Date: 8/19/2009 9:46:06 AM

From: 573 341 4362

Page: 8/16

Date: 4/22/2009 10:28:57 AM

Effective Year: FS20 Effective Term: Sum		ing 🛭	CC File #	7691-2009-	. Mi <i>G</i> g-235-10
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From: 573 341 4362 Page: 21/23 Date: 8/19/2009 9:46:06 AM

From: 573 341 4362 Page: 9/16 Date: 4/22/2009 10:28:57 AM

EXISTING

Mi Eng 201 Underground Mine Design (LEC 1.0 and LAB 2.0): Introduction to underground mining. Engineering design and optimization of mine layouts. Geomechanical, geometric and computer-aided underground mine layouts design. Empirical and numerical design methods for underground mine openings; pillar and roof span design using beam theories; caving and ore drawing mechanics. Design of materials scheduling and sequencing for long and short range mine planning. Use of an industry standard and commercially available mine design software.

PROPOSED

MI Eng 235 Underground Mine Design (LEC 1.0 and LAB 2.0): Introduction to underground mining. Parametric statistics and introductory geostatistics for ore reserves estimation. Engineering design and optimization of mine layouts. Geomechanical, geometric and computer-aided underground mine layouts design. Empirical and numerical design methods for underground mine openings; pillar and roof span design using beam theories; caving and ore drawing mechanics. Design of materials scheduling and sequencing for long and short range mine planning. Use of an industry standard and commercially available mine design software.

From: 573 341 4362 Page: 22/23 Date: 8/19/2009 9:46:06 AM

From: 573 341 4362

Fall 🗀

Effective Year: FS2010

Effective Term: Summer 🔲

Page: 10/16

Spring 🛭

Date: 4/22/2009 10:28:58 AM

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From: 573 341 4362 Page: 23/23 Date: 8/19/2009 9:46:07 AM

From: 573 341 4362

Page: 11/16

Date: 4/22/2009 10:28:58 AM

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From: 573 341 4362 Page: 1/27 Date: 8/19/2009 9:53:01 AM

From: 573 341 4362

Page: 12/16

Date: 4/22/2009 10:28:58 AM

cc File # 7694-2009-Mi Gg-331-31 Effective Year: FS2009 Effective Term: Summer 🔲 Fall 🛅 Spring 🖾 Course Change Form (CC) This form is for creating or modifying permanent courses. Course Changes (Check all changes.) Prerequisites 🗵 Course Deletion Credit Hours New Course 🗌 Course Number 🗔 Co-listing 🔲 Course Title 🛛 Catalog Description 🛛 Course Information (1-9 Must Be Completed. Leave "Proposed" Items blank if no change is being made.) 1. Department: Mining and Nuclear Engineering 2. Discipline and Course Number: Present: Mi Eng 331 Proposed: Mi Eng 331 Present: Rock Mechanics I 3. Course Title: Proposed: Rock Mechanics Abbreviated Course Title: RMECH (24 Spaces or Less. Only needed for New Courses or Title Changes.) 4. Catalog Description (40 Words or Less) Rock mass ratings; empirical failure criteria; slope and high wall stability; field stresses, Present: design of underground openings, pillars, and roof beams; principles of roof bolt design; surface subsidence. Proposed: Applications of the fundamental principles of mechanics to engineering problems of equilibrium, strength and stiffness of rock materials. Review of in-situ stresses, laboratory and field instrumentation, rock and rockmass properties, pillar design, roof span design, rock reinforcement, surface subsidence, slope stability, and violent failures. 5. If course requires field trip check box: 🖾 Total: 0 Lab: 0 Lecture: 2 Present: 6. Credit Hours: Lab: 1 Total: 3 Lecture: 2 Proposed: 7. Prerequisites: Present: IDE 140 or IDE 50 and 150; and Geology 220 Proposed: IDE 140 or IDE 50 and 150; and Geology 220 Elective for Majors: 🗆 8. Required for Majors: 🛛 This course is a core requirement of the undergraduate Mining Engineering program. 9. Justification: It has been combined with MI Eng 232 to remove overlap for delivery efficiency. 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. 2) 1) 4) Recommended by Department (Chair signature) Recommended by Discipline Specific Curricula Committee (Chair signature) Date: _ Approved by Curricula Committee: . (Chair signature) Date: _ Approved by Faculty Senate: _ (Chair signature) (Revised 1/31/08) 04/13/09 This fax was received by GFI FAXmaker fax server. For more information, visit: http://www.gfi.com

From: 573 341 4362 Page: 2/27 Date: 8/19/2009 9:53:01 AM

From: 573 341 4362

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Date: 4/22/2009 10:28:59 AM

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Date: 8/19/2009 9:53:01 AM

From: 573 341 4362

Page: 14/16

Date: 4/22/2009 10:28:59 AM

cc File # 76 96 - 2009- Mi Gg- 392-10 Effective Year: F\$2009 Effactive Term: Summer 🔲 Fall 🗵 Spring 🖾 Course Change Form (CC) This form is for creating or modifying permanent courses. Course Changes (Check all changes.) Prerequisites 🗌 Credit Hours 🔲 Course Deletion New Course 🖾 Co-listing 🔲 Course Number 🔲 Catalog Description 🔲 Course Title 🔲 Course Information (1-9 Must Be Completed. Leave "Proposed" Items blank if no change is being made.) 1. Department: Mining and Nuclear Engineering Proposed: Mi Eng 392 2. Discipline and Course Number: Present: 3. Course Title: Present: Proposed: Mine Design Project I Abbreviated Course Title: Mine Design I (24 Spaces or Less. Only needed for New Courses or Title Changes.) 4. Catalog Description (40 Words or Less) Present: Formation of mine design project teams and acquisition of project data from industry. Proposed: Geostatistical methods for ore reserves estimation. Develop complete project schedule and milestones for executing the project tasks in Mi Eng 393 (Mine Design Project II). Set up database for Mi Eng 393 and interact with selected mine design software packages. 5. If course requires field trip check box: 🔲 Total: Labs Lecture: 6, Credit Hours: Present: Lab: 1 Total: 1 Lecture: 0 Proposed: 7. Prerequisites: Present: Proposed: Elective for Majors: 🔲 8. Required for Majors: 🛛 This course is a core requirement of the undergraduate Mining Engineering program. 9. Justification: It is required to provide the basis and execution efficiency for MIN 393. 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. 2) 1) 4) Recommended by Department (Chair signature) Recommended by Discipline Specific Curricula Committee (Chair signature) Date: _ Approved by Curricula Committee: (Chair signature) Date: Approved by Faculty Senate: _ (Chair signature) (Revised 1/31/08)

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04/13/09

Page: 4/27

Date: 8/19/2009 9:53:02 AM

cc File # 7697-2009-Mi Gg-393-31

From: 573 341 4362

Fall 🔯

Effective Year: FS2009
Effective Term: Summer

Page: 15/16

Spring 🖾

Date: 4/22/2009 10:28:59 AM

Course Change Form (CC) This form is for creating or modifying permanent courses. Course Changes (Check all changes.) New Course 🗍 Course Deletion Credit Hours 🗵 Preroquisites 🗵 Course Number Co-listing Course Title 🗵 Catalog Description Course Information (1-9 Must Be Completed. Leave "Proposed" Items blank if no change is being made.) 1. Department: Mining and Nuclear Engineering 2. Discipline and Course Number: Present: Mi Eng 393 Proposed: Mi Eng 393 Present: Mine Planning and Design 3. Course Title: Proposed: Mine Design Project II Abbreviated Course Title: Mine Design II (24 Spaces or Less. Only needed for New Courses or Title Changes.) 4. Catalog Description (40 Words or Less) Presenti SEE ATTACHED Proposed: SEE ATTACHED 5. If course requires field trip check box: 🗌 Total: 4 Lab: 2 Presenti Lecture: 2 6. Credit Hours: Lab: 3 Total: 4 Lecture: 1 Proposed: 7. Prerequisites: Completion of 110 hours in the Mining Engineering Curriculum Present: Proposed: Mi Eng 392 and completion of 110 hours in the Mining Engineering Curriculum Elective for Majors: 8. Required for Majors: 🛛 This course is a core requirement of the undergraduate Mining Engineering program. 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) 4) Date: 04/13/09 Recommended by Department Chair signature Recommended by Discipline Specific Curricula Committee (Chair signature) (Date: Approved by Curricula Committee: , (Chair signature) Date: Approved by Faculty Senate: (Chair signature) (Revised 1/31/08) 04/13/09

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From: 573 341 4362 Page: 5/27 Date: 8/19/2009 9:53:02 AM

From: 573 341 4362 Page: 16/16 Date: 4/22/2009 10:29:00 AM

EXISTING

Mi Eng 393 Mine Planning and Design (LEC 2.0 and LAB 2.0): Selection of a mining design project that results in the preparation of a comprehensive engineering report and oral presentation for the economic exploitation of the selected geologic deposit. The course includes instruction and student guidance that integrates and applies engineering economics, sciences, use of commercial software and principles to develop a mineable deposit. Prerequisite: Completion of 110 hours in the Mining Engineering Curriculum.

PROPOSED

Mi Eng 393 Mine Design Project II (LEC 1.0 and LAB 3.0): Capstone design project that culminates in the completion and oral presentation of a comprehensive mine feasibility study. Project includes mine layouts design and optimization, production planning, equipment selection and flowsheet design based on detailed geological, mineral resources/reserves, geotechnical, hydrological and hydro-geological modeling. Project also incorporates commodity markets, environmental and permitting, conceptual mine planning and methods, mine-mill organization, facilities and infrastructure requirements, and economic and risk analyses. Prerequisites: Mi Eng 392 and completion of 110 hours in the Mining Engineering Curriculum.

From: 573 341 4362 Page: 6/27 Date: 8/19/2009 9:53:02 AM

CC File #7700-2009-ALP-111-11) Effective Year: 2009 Term: Summer 🔲 Fall X Spring ... Course Change Form (CC) This form is for creating or modifying permanent courses. Course Changes (Check all changes.) New Course X 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: Arts, Languages & Philosophy 2. Discipline and Course Number: Present: 101 Proposed: 111 3. Course Title: Present: ALP Proposed: Global Village **Abbreviated Course Title:** (24 Spaces or Less. Only needed for New Courses or Title Changes.) 4. Catalog Description (300 Character Spaces or Less.) Present: Proposed: The course explores connections among language, art and culture at regional, national, and international scales. It aims to complement existing cross-cultural programs on campus while encouraging formal and informal interaction among students, faculty, alumni, and the campus community 5. If course requires field trip check box: 🔲 Lab: Total: 6. Credit Hours: Present: Lecture: Total: 0.5 Proposed: Lecture: 0.5 Lab: 7. Prerequisites: Present: Proposed: Entrance requirements 8. Required for Majors: 🔲 Elective for Majors: 9. Justification: 10. Semesters previously offered as an experimental course (101, 201, 301, 401): FS 2008, SP 2009 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 (Chair signature) Date: ____ Approved by Curricula Committee: __ (Chair signature) Date: Approved by Faculty Senate: _ (Chair signature)

From: 573 341 4362 Page: 7/27 Date: 8/19/2009 9:53:03 AM

From: 573 341 4382

Page: 2/3

Date: 6/12/2009 3:14:18 PM

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eficient and proof and a second		(Chair signati	ire)	(Revised 1/49/09)
11	his fax was received by	GFI FAXmaker fax serve	r. For more informatio	on, visit: http://www.gfi.com

From: 573 341 4362 Page: 8/27 Date: 8/19/2009 9:53:03 AM

04/22/09

	From: 573 341 43	62 Page: 8/27	Date: 8/19/2009	9:53:03 AM	
Effective Year: 2009 Effective Term: Sumi	9 mer 🗌 🛮 Fall 🖾	Spring 🗌	CC File	#7702-200	9-Psych-345-32
	Course	Change	Form (CC)	
	This form is for	creating or modif	ving permaner	nt courses.	
Course Changes	(Check all changes.)	<u> </u>	,		
New Course 🗔	Course Deletion 🔲	Credit	Hours 🗌	Prerequisites	
Course Title 🗌	Catalog Description	☐ Course	Number 🔲	Co-listing 🔲	
Course Information	on (1-9 Must Be Con	npleted. Leave "Pro	oposed" items b	lank if no change is t	peing made.)
1. Department: Psy				-	- ,
2. Discipline and Co	urse Number: P	resent : 345	Pro	posed:	
3. Course Title: Pres	sent: Evolutionary	Psychology		•	
-	posed:				
Abbreviated Cour		h			
4. Catalog Description	Spaces or Less. On (40 Words or Less)	ly needed for Nev	v Courses or T	itle Changes.)	
Present:	(
Dunnand.					
Proposed:					
5. If course requires fi	ield trip check box:				
6. Credit Hours:	Present:	Lecture:	Lab:	Total:	
7. Prerequisites:	Proposed:	Lecture:	Lab:	Total:	
— —	50 and PSY 140				
Proposed: PSY 5	50				
8. Required for Majors	:: 🗌 Elective fo	r Majors: 🗌			
9. Justification:					
10. Semesters previou	usly offered as an e	xperimental cour	se (101, 201, 3	301, 401):	
11. List all co-listed co	ourses, initialed by t	Dept. Chair, if sign	nature does no	ot appear below.	
1)	2)		3)		
4)	E\ ,		6)		
7)	5)_1	1	1 6)		
Recommended by Dep	partment <u>/ Ja</u>	ney of	tone	Date	:: <u>4/22/0</u> 9
		(dhair signature)	-1 d-	>	
Recommended by Disc	cipline Specific Curri			Date	: <u>6-29-09</u>
	_	(Chair signature)	7		
Approved by Curricula	Committee:			Date	
		(Chair cionature)			
		(Chair signature)			
Approved by Faculty S				Date	:

(Revised 1/31/08)

Date: 8/19/2009 9:53:03 AM From: 573 341 4362 Page: 9/27 CC File #11/05 - 2009 - (15 - 378 - 21) Effective Year: 2009 Term: Summer Fall X Spring 🗌 Course Change Form (CC) This form is for creating or modifying permanent courses. Course Changes (Check all changes.) New Course Course Deletion X 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: Computer Science 2. Discipline and Course Number: Present: 378 Proposed: 3. Course Title: Present: Introduction To Neural Networks & Applications 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: Introduction to artificial neural network architectures, adaline, madaline, back propagation, BAM, and Hopfield memory, counterpropagation networks, self organizing maps, adaptive resonance theory, are the topics covered. Students experiment with the use of artificial neural networks in engineering through semester projects. (Co-listed with Sys Eng 378, El Eng Proposed: 5. If course requires field trip check box: 6. Credit Hours: Present: Lecture: 3 Lab: Total: Proposed: Total: Lecture: Lab: 204 or equivalent7. Prerequisites: Present: Math 229 or Math 204 or equivalent Proposed: Elective for Majors: X 8. Required for Majors: 🔲 The neural network course housed in Engineering Management does not coincide with 9. Justification: advanced content in the area. Thus, we request removal of the co-listing and deletion of CS 378. 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) Recommended by Department (Chair signature) Recommended by Discipline Specific Curricula Committee -

Date: _____

Date: _____

(Chair signature)

(Chair signature)

(Chair signature)

Approved by Curricula Committee: _____

Approved by Faculty Senate: _

Effective Year: 2010 CC File # 7708-2009-C5-462-11 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 4 Co-listing | Course Information (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.) 1. Department: Computer Science 2. Discipline and Course Number: Present: CS 401 Proposed: CS 462 3. Course Title: Present: Advancednetwork security Proposed: Advancemetwork security Abbreviated Course Title: Adv Network Security (24 Spaces or Less. Only needed for New Courses or Title Changes.) 4. Catalog Description (300 Character Spaces or Less.) Present: Topics covered include network security issues such as authentication, anonymity, traceback, denial of service, confidentiality, forensics, etc. in wired and wireless networks. Students will have a clear, in-depth understanding of state of the art network security attacks and defenses. Proposed: Topics covered include network security issues such as authentication, anonymity, traceback, denial of service, confidentiality, forensics, etc. In wired and wireless networks. Students will have a clear, in-depth understanding of state of the art network security attacks and defenses. 5. If course requires field trip check box: \Box Total: 3 6. Credit Hours: Present: Lecture: 3 Lab: 0 Proposed: Lecture: Total: Lab: 7. Prerequisites: Present: Proposed: CpE 349 or CS 385 8. Required for Majors: Elective for Majors: 🛛 9. Justification: 10. Semesters previously offered as an experimental course (101, 201, 301, 401): Sp 2008 and Sp 2009 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 signatur<u>e</u>) Recommended by Discipline Specific Curricula Committee (Chair signature) Date: Approved by Curricula Committee: ___ (Chair signature) Date: Approved by Faculty Senate: ___ (Chair signature)

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Date: 8/19/2009 9:53:04 AM

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Date: 8/19/2009 9:53:04 AM

From: 573 341 4362

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Date: 6/17/2009 8:54:50 AM

Effective Yea	ar: 2010 n: Summer [] Fall⊠ Sţ	aring 🗆	CC File #	;77/2- <i>20</i> 0	9-151-436-
	T	Course	Change Feating or modifying	Form (C	CC)	
Course Cha			eating of mounts	g permanent		
		se Deletion 🛄	Credit H	ours 🗆	Prerequisite	is 🗌
New Course		og Description [umber 🖾	Co-listing [
Course Title	_ tata. nemotion (1-9 Must Be Compi	eted. Leave "Prop		ink if no change i	is being made.)
		& Information T		Bron	osed: IST 436	
2. Discipline	and Course	Number: Pre	Sent: 151 330	-	U3CM : 10 (450	
3. Course Titl			f Internet Compu	ung		
_	Proposed					
	ed Course T: 24 Spac 2010: 201	itie: tes or Less. Only <i>Words or Less)</i>	needed for New	Courses or Tit	tle Changes.)	
	SCRPtion (40	provide an ended	the basis transco	rt foundation	for Internet Co	mputing. They are
Present:	covered tho processes for communicat	roughly (LANs, W or Web sites, e-co tions, and securit	/ANs, packet swit Immerce conside y considerations	ching, protoc rations, site L are also cove	ols, etc.). Desig Isability issues, red.	wireless
Proposed:	are covered and researd communicat	thoroughly and i h findings about : tions for computi	research direction site usability cont ng, especially wir	is for network siderations ar	e examined. S	eb sites. Networks d. Web site design ecurity of xplored.
5. If course r	equires field	trip check box: 🗆				
6. Credit Hou	rs:	Present:	Lecture: 3	Lab:	Total: 3	
7. Prerequisit Present:		Proposed: ntrance requirem	Lecture:	Lab:	Total:	
	151 1,15 0	•	ents, including so	lid programm	ing knowledge.	
8. Required f	or Majors: 🛭	Elective for				
9. Justificatio	n: Student	ts require a more	rigorous course	and more exa	amination of res	search directions.
	•					
10. Semeste 11. List all co	rs previously o-listed cours	offered as an ex es, initialed by D	perimental cours ept. Chair, if sign	ature does no	301, 401): ot appear below	<i>i</i> .
1)		2)		3)		
4)		5)	1. 1	(6)		ביים או ניי
Recommende	ed by Departr	ment <u>CAA</u>	(Chair signature)	the state of the s	>	Date: 6 117/01
Recommende	ed by Discipli	ne Specific Curric	cula Committee (Chair signature)	T		Date: <u>7-27-07</u>
Approved by	Curricula Co	mmittee:	(Chair signature)	· <u>-</u> -	(Date;
Approved by	Faculty Sena	ate:	(Chair signature)			Date:

From: 573 341 4362 Page: 12/27 Date: 8/19/2009 9:53:04 AM

From: 573 341 4362 Page: 3/7 D

Date: 6/17/2009 8:54;51 AM

cc File # 77/3-2009-IST-46/-10 Effective Year: 2010 Spring 🔲 Effective Term: Summer 🗆 Fall 🛛 Course Change Form (CC) This form is for creating or modifying permanent courses. Course Changes (Check all changes.) Prerequisites 🔲 Credit Hours Course Deletion 🗌 New Course 🖾 Co-listing Course Number 🔲 Catalog Description 🔲 Course Title 🗌 Course Information (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.) 1. Department: Business and Information Technology Proposed: IST 461 2. Discipline and Course Number: Present: 3. Course Title: Present: Proposed: Information Systems Project Management Abbreviated Course Title: IS Project Management (24 Spaces or Less. Only needed for New Courses or Title Changes.) 4. Catalog Description (40 Words or Less) Present: Proposed: Project management principles, first from a general perspective, and then focused specifically on information system application development are explored. Topics include requirements analysis, project scheduling, risk management, quality assurance, testing, and team coordination. Report writing and research literature searches are required. 5. If course requires field trip check box: 🗌 Total: Lab: Lecture: Present: 6. Credit Hours: Total: 3 Lab: Lecture: 3 Proposed: 7. Prerequisites: Present: Proposed: IST MS Entrance requirements, with strong programming knowledge. Elective for Majors: \Box 8. Required for Majors: 🖾 The existing IST 361 course serves our undergraduates well, but additional work in 9. Justification: research pertaining to IS project management and in report writing is needed for our graduate students. This course may not be taken for credit if IST 361 has been taken. 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) 6) 4) Recommended by Department Recommended by Discipline Specific Curricula Committee (Chair signature) Date: _ Approved by Curricula Committee: _ (Chair signature) Date: ___ Approved by Faculty Senate:_ (Chair signature)

(Revised 1/31/08)

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Date: 8/19/2009 9:53:05 AM

From: 573 341 4362 Page: 4/7 Date: 6/17/2009 8;54;51 AM

Effective Year: 2010 _____ CC File # 77/4

Effective Year: 2010

Effective Term: Summer Fall Spring

actic cice

cc File # 77/4-2009-M+IS-397-20

Course Change Form (CC)

This form is for creating or modifying permanent courses. Course Changes (Check all changes.) Prerequisites 🔲 Credit Hours Course Deletion 🗵 New Course 🔲 Co-listing 🔲 Course Number 🔲 Catalog Description 🔲 Course Title 🔲 Course Information (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.) 1. Department: Business and Information Technology 2. Discipline and Course Number: Present : M&IS 397 Proposed: Present: Capstone Seminar in Management and Information Systems 3. Course Title: Proposed: Abbreviated Course Title: (24 Spaces or Less. Only needed for New Courses or Title Changes.) 4. Catalog Description (40 Words or Less) Present: Proposed: 5. If course requires field trip check box: \Box Total: Lab: Present: Lecture: 6. Credit Hours: Total: Lab: Lecture: Proposed: 7. Prerequisites: Present: Proposed: Elective for Majors: \square 8. Required 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. 3) 2) 1) 6) 5) 4) Recommended by Department Recommended by Discipline Specific Curricula Committee (Chair signature) Date: _ Approved by Curricula Committee: __ (Chair signature) Date: . Approved by Faculty Senate: (Chair signature)

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Date: 8/19/2009 9:53:05 AM

cc File # 7715-2009-M+IS-101-20

From: 573 341 4362

Effective Year: 2010

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Date: 6/17/2009 8:54:51 AM

Effective Term: Sum	mer 🗆 🛘 Fall 🗔 🖰	Spring 🛮			<i>,</i> , , , , , , , , , , , , , , , , , ,
	This form is for c	Change reating or modify	-	-	
Course Changes	<u> </u>			miai	·
<u>=</u>	Course Deletion 🖾	Credit :		Prerequisi Co-listing	
Course Title 🗌	Catalog Description			-	
	on (1-9 Must Be Com		posed items of	Ralik it no étienña	a is beilië litaner)
•	siness and Informatio		_		
	ourse Number: Pr		. Proj	posed:	
	sent: Special Topic posed:	S			
Abbreviated Cou (24 4. Catalog Descriptio	Spaces or Less. Onli	y needed for New	Courses or T	ïtle Changes.)	
Present:	A (40 Words or Lessy)				
Proposed:					
5. If course requires	field trip check box:				
6. Credit Hours:	Present:	Lecture:	Lab:	Total:	
7. Prerequisites: Present:	Proposed:	Lecture:	Lab:	Total:	
Proposed:					
8. Required for Majo 9. Justification:	rs: 🗌 Elective fo	r Majors: 🗌			
10. Semesters previ 11. List all co-listed 1)	iously offered as an e courses, initialed by 2)	xperimental cou Dept. Chair, if sig	rse (101, 201, nature does r 3)	. 301, 401): not appear belo	ow.
4)	5)	200	<i>(</i>)		. (.) .
Recommended by D	epartment	Olive Teat (Chair signature)			Date: <u>6/17/09</u> Date: <u>7-29-09</u>
Recommended by D	iscipline Specific Curr	icula Committee (Chair signature)	A. A.		Date: <u>7-2-9-09</u>
Approved by Curricu	ila Committee:	(Chair signature)		Date:
to an analysis of the Consensation	, Sanate:		<u>_</u>		Date:
Approved by Faculty	, <u></u>	(Chair signature)		(Revised 1/31/08

From: 573 341 4362 Date: 8/19/2009 9:53:06 AM Page: 15/27

CC File # 77/7-2009- ART-30-35 Effective Year: 2010 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: ALP 2. Discipline and Course Number: Present : Art 30 Proposed: 140 3. Course Title: Present: Drawing II Proposed: Advanced Drawing Abbreviated Course Title: Advanced Drawing (24 Spaces or Less. Only needed for New Courses or Title Changes.) 4. Catalog Description (300 Character Spaces or Less.) Present: Application of drawing principles: cast and life drawing. Exercises in representational rendering. Proposed: Advanced application of drawing principles: cast and life drawing. Exercises in representational rendering. 5. If course requires field trip check box: \Box Total: 6. Credit Hours: Present: Lecture: Lab: Total: 3 Lecture: Lab: 3 Proposed: 7. Prerequisites: Present: Art 20 Proposed: Art 20 Elective for Majors: 🛛 8. Required for Majors: To provide another level of art study beyond the introductory painting class with an 9. Justification: appropriate number. 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 (Chair signature)

Date: _____

Date: ______

(Chair signature)

(Chair signature)

Approved by Curricula Committee: _

Approved by Faculty Senate: _

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Date: 8/19/2009 9:53:06 AM From: 573 341 4362 CC File # 77/8-2009-Art-50-35 Effective Year: 2010 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: ALP 2. Discipline and Course Number: Present: Art 50 Proposed: 140 3. Course Title: Present: Painting II Proposed: Advanced Painting **Abbreviated Course Title:** (24 Spaces or Less. Only needed for New Courses or Title Changes.) 4. Catalog Description (300 Character Spaces or Less.) Present: Continuation of Art 40 Proposed: Advanced exploration of oil painting techiniques and methods. Still life, landscape, and figure. 5. If course regulres field trip check box: \square Total: Lab: 6. Credit Hours: Present: Lecture: Total: 3 Proposed: Lecture: Lab: 3 7. Prerequisites: Present: Art 40 Proposed: Art 40 Elective for Majors: 🛛 8. Required for Majors: 🔲 To provide another level of art study beyond the introductory painting class with an 9. Justification: appropriate number. 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. 2) 1) 5) 4)

> (Chair signature) Date: _ (Chair signature)

Date:

(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: 17/27 Date: 8/19/2009 9:53:06 AM

cc File # 7726-2009-BioSci-358-11 Effective Year: 2010 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: Biological Sciences 2. Discipline and Course Number: Present: BIO SCI 301 Proposed: BIO SCI 358 3. Course Title: Present: Caribbean Biodiversity Proposed: Advanced Biodiversity Abbreviated Course Title: Advanced Biodiversity (24 Spaces or Less. Only needed for New Courses or Title Changes.) 4. Catalog Description (300 Character Spaces or Less.) Present: This course is designed to introduce students to the flora and fauna of San Salvador Island, Bahamas, and the surrounding coral reef communities. In addition to examining biodiversity, the course will focus on factors leading to the enhancement and reduction of blodiversity as well as modern techniques used to measure and monitor biodiversity. Topics will include... **Proposed:** This course focuses on the enhancement and reduction of biodiversity and modern techniques of measuring and monitoring it. Topics include biogeography, community structure, competition, predation, food webs, geology-biology relationships, environmental change, and human impact. Additional costs and a week-long field trip are required. 5. If course requires field trip check box: 🛛 Present: Lecture: 3 Total: 3 6. Credit Hours: Lab: 0 Lecture: 3 Lab: 0 Total: 3 Proposed: 7. Prerequisites: Present: Sophomore standing or higher. Priority enrollment given to Bio Sci majors. Bio Sci 235 OR Bio Sci 251 Suphomore standing or higher. Priority enrollment given to Bio Sci majors. 8. Required for Majors: Elective for Majors: 🛛 Biodiversity is critical area of study for biologists. This course will provide advanced 9. Justification: knowledge of topics and training in the methods used to study biodiversity, as well as first-hand experience with studying biodiversity in the field. 10. Semesters previously offered as an experimental course (101, 201, 301, 401): SP05, SP07 11. List all co-listed courses, initialed by Dept. Chair, if signature does not appear below. 3) 1) 2) 5) 4) Recommended by Department Recommended by Discipline Specific Curricula Committee (Chair signature) Date: Approved by Curricula Committee: _ (Chair signature) Date: Approved by Faculty Senate: _ (Chair signature)

	From: 573 341	4362 Page: 18/27	Date: 8/19/2009 9:53:	07 AM			
Effective Year: 2010 Effective Term: Summ		Spring 🛚	EC File # 21	82-SP2010-BUS-301			
	Experim	ental Cour	se 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:							
		nd Fall Semester nester Offerings -		гу 1			
An EC form must be An experimental cou should be submitted	ırse that is requ	uired should be su	ibmitted on a CC 1	exceed two offerings. form. <i>Co-listed offerings</i> ine.			
Department: Business	s and Informatio	n Technology					
Discipline and Cours	e Number: BUS	301					
Course Title: Account	ing and Finance	Essentials					
Abbreviated Title (2-	4 spaces or les	s): Acct & Fin Essen	tials				
Instructor(s): Eng an	d Lin						
Credit Hours: Le	cture: 3.0	Lab:	Total:				
Prerequisites: None	3						
Semester(s) previou	sly taught: Nor	e					
Brief Course Description: (40 words or less) An introduction to the essentials of financial and managerial accounting and finance for running a business designed for students planning to enter the MBA program and for non-business students who want some business background. Credit in this course can not be applied to any major or minor in business, IST, or economics.							
List all co-listed cour 1)	ses: Include ini 2)	tials of Dept. Chair,	if signature is not a 3)	lready included below.			
4)	5)		6)				
Department Chair:	Gerolin ;	Tesh. (Chair Si	gnature)	Date: <u>5/19/09</u>			

Date: 629-09 Chair signature) Date: _ (Chair Signature)

Discipline Specific Curricula Committee:

Curricula Committee: __

	From: 573 341 43	362 Page: 19/27	Date: 8/19/2009 9:53:07 AM					
Effective Year: 2 Effective Term: S		Spring 🛭	EC File # 2183-SP2010-BUS-301					
	Experime	ental Cou	rse Form (EC)					
department chai	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:							
		d Fall Semeste ester Offerings	r Offerings – January 1 – 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. <i>Co-listed offerings should be submitted on one form, originating from the primary discipline</i> .								
Department: Bus	iness and Information	Technology						
Discipline and Co	ourse Number: BUS 3	301						
Course Title: Mar	nagement, Marketing a	nd Business Law	Essentials					
Abbreviated Title	e (24 spaces or less)): Mgt & Mkt Ess	entials					
Instructor(s): Eli	od and Kalliny							
Credit Hours:	Lecture: 3.0	Lab:	Total:					
Prerequisites:	Noné							
Semester(s) previously taught: None								
Brief Course Description: (40 words or less) An introduction to the essentials of management, marketing, and business law for running a business designed for students planning to enter the MBA program and for non-business students who want some business background. Credit in this course can not be applied to any major or minor in business, IST, or economics.								
List all co-listed	courses: Include initia 2)	als of Dept. Chair	r, if signature is not already included below. 3)					

1)	urses: Include initials of De 2)	pt. Chair, if signature is not alrea 3)	idy included below.
4)	5)	6)	
Department Chair: Discipline Specific Cu	Catoline Just	(Chair Signature) (Chair signature)	Date: <u>6-29-89</u>
Curricula Committee:		(Chair Signature)	Date:

(Revised 1/31/2008)

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Date: 8/19/2009 9:53:07 AM

Effective Year: 2010 EC File # 2184-SP2010-BUS-301 Effective Term: Summer Fall Spring

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

	Spring Sei	mester Offerin	igs – August 1	
An experimental	course that is requ	uired should b	is to be offered, not to be submitted on a CC for in the primary discipli	exceed two offerings. orm. <i>Co-listed offerings</i> ine.
Department: Bus	iness and Informatio	n Technology		
Discipline and Co	urse Number: BUS	301		
Course Title: Ope	rations Management	and Manageme	ent Information Systems	Essentials
Abbreviated Title	(24 spaces or less	5): Ops & MIS E	Essentials	
Instructor(s): Elr	od and Sheng			
Credit Hours:	Lecture: 3.0	Lab:	Total:	
Prerequisites:	None			
Semester(s) prev	riously taught: Non	e		
An introduction to t for running a busin business students v	ess designed for stud	rations manage dents planning t ness backgroun	ment and management i to enter the MBA program d. Credit in this course	n and for non-
List all co-listed o	ourses: Include init 2)	tials of Dept. Ch	air, if signature is not al 3)	ready included below.
4)	5)		6)	
Department Chair:	Carolin	Festi- (Cha	ir Signature)	Date: <u>3/19/09</u>
Discipline Specific (Curricula Committee:		ir signature)	Date: <u>6-29-09</u>
Curricula Committe	e:		r Signature)	Date:
		(Cildi	i pignature <i>)</i>	

05/20/09 (Revised 1/31/2008)

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FAX NO. :

Date: 8/19/2009 9:53:08 AM

Jun. 15 2009 01:56PM P1

From: 573 341 4382

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Date: 6/12/2009 3:14:18 PM

Effective Year: 2010

Effective Term: Summer 🔲

Fall 🗍

Spring 🖂

EC File # 2187-5p2010-Hist-301

Experimental Course Form (EC)

This form must be filed with the Secretary to the Compus 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 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: History

Discipline and Course Number: Hist 301

Course Title: Making of Modern Germany

Abbreviated Title (24 spaces or less): Making Modern Germany

Instructor(s): Dr. Petra DeWitt

Credit Hours:

Lecture: 3

Lab:

Total:

Prerequisites:

History 112 or 175

Semester(s) previously taught:

Brief Course Description: (40 words or less)

A survey of modern Germany from Reformation through the present with special emphasis on nineteenth and twentieth centuries. Major themes include social, intellectual, cultural, political, and economic aspects of modern and contemporary Germany.

List all co-listed courses: Include initis 1) 2)	als of Dept. Chair, if signature is not already 3)	included below.
4) (/ 5)	6)	
Department Chair: Jany	(Chair Signature)	Date: 6/8/09
Discipline Specific Curricula Committee:	11/	Date: 6/15/09
Currícula Committee:		Date:
	(Chair Signature)	

06/08/09

(Revised 2/31/2008)

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Date: 8/19/2009 9:53:08 AM

Effective Year: 2010 Effective Term: Summer

Fall 🔲

Spring 🖾

EC File #2188-5p2010-BioSci-301

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 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.

Discipline and Course Number: Bio 301

Course Title: Pharmacology

Abbreviated Title (24 spaces or less): Pharmacology

Instructor(s): Robert S. Aronstam

Credit Hours:

Lecture: 3

Lab: 0

Total: 3

Prerequisites:

Cellular Biology (Bio 211) and organic chemistry.

Bio Sci 211 and Chem 221

Semester(s) previously taught: WS 2008

Brief Course Description: (40 words or less)

The study of chemicals that produce specific biological effects, as well as the search for new agents of therapeutic value. We will consider basic principles of drug action at the cellular and molecular levels, the chemotherapy of microbial and neoplastic diseases, and drug action on major physiological systems, including the nervous and cardiovascular systems.

List all co-listed cours 1)	ses: Include initials of Dep 2)	t. Chair, if signature is not a 3)	lready included below.
4)	5)	6)	
Department Chair:	Palat S Man	tun	Date: 6 12 09
•		(Chair Signature)	t 1
Discipline Specific Currio		Chair signature	Date: <u>8/14/09</u>
Curricula Committee:		_	Date:
	(Chair Signature)	

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Date: 8/19/2009 9:53:08 AM

EC File #2189-5p2010-BioSci-301 Effective Year: 2010 Effective Term: Summer 🗌 Fall 🔲 Spring 🖾

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 Spring Seme	l Fall Semeste ester Offering:	er Offerings – Janu s – August 1	ary 1
An experimental of	be submitted each s course that is requir ted on one form, ori	ed should be	submitted on a CC	to exceed two offerings. form. <i>Co-listed offerings</i> pline.
Department: Biolo	gical Sciences			
Discipline and Co	urse Number: 301			
Course Title: Spec	cial Topics: Nanobiote	chnology		
Abbreviated Title	(24 spaces or less):	: Nanobiotechn	ology	
Instructor(s): Yue	e-wern Huang			
Credit Hours:	Lecture: 22	Lab: 0	Total: 🎸 🕰	
Prerequisites: (Cell Biology (211) and	General Geneti	cs (231)	
Semester(s) prev	iously taught: 0			
Brief Course Desc	ription: (40 words o	or less)		
of nanotechnology i	n life schince is terme	d nanobiotechn	ology. This course d	y aspects. Applications escribes recent l as biomedical studies.
List all co-listed c 1)	ourses: Include initia 2)	ls of Dept. Cha	ir, if signature is not 3)	already included below.
4)	5)		6)	
Department Chair:	Zobut 2	Chair	Signature)	Date: 6 (1> 109
Discipline Specific C	Curricula Committee:	Jdh (Chair	signature)	Date: <u>8/14/67</u>
Curricula Committe	e:	(0) : (Date:
		(Chair S	Signature)	

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From: 573 341 4362

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Date: 6/17/2009 8:54:52 AM

Effective Term: F52009

EC File #2191 - F3 2009 - MK+ - 301

Experimental Course Form (EC)

This form must be filed with the Secretary to the Campus Curricula Committee, after the department chair's and college dean's notation, by the appropriate deadline. Filing deadlines for inclusion in the pre-registration Schedule of Classes are as follows:

Summer and Fall Semester Offerings – January 1 Winter Semester Offerings – August 1						
EC form must be		mester it is to t d should be sub	omitted on a C	are April 30 and October 1. An t to exceed two offerings. An CC form. <i>Co-listed offerings</i> discipline.		
School or Calleg	e:					
Department: Bus	siness & Information	Technol				
Discipline and C	our se Number: MK1	301				
Course Title: Int	egrated Marketing Co	mmunications				
Appreviated Titl	e (24 spaces or les	s): MKT Commur	ications			
Instructor(s); C	aroline Fisher					
Credit Hours:	Lecture: 3.0	Lab:	Total:			
Prerequisites:	MKT 311					
Semester(s) pro	eviously taught: No	nė				
This course emph	scription: (40 word asizes the developme c relations, personal a ods and techniques as	ent of integrated reselling, promotion	marketing comi al packaging, a	munications programs. along with many other sales-		
List all co-listed included below.	l courses: Include in	itials of Dept. Cha	nir(s) and Dean	(s) if signatures are not already		
2.			5.			
3.		Cf l.	6.	مراسام		
Department Cha	air: <u>Acolone</u>	Chain Signature		Date: 6/17/09		
College/School	Dean:	Pean Signature	-	Date: 7-29-09		
UMR Curricula Committee: Date: Date:						

06/16/09

(Revised 2/14/2002)

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Date: 6/17/2009 8:54:52 AM

Effective Year: 2009 Effective Term: Summer 🗔

Fall 🖾

Spring 🗍

EC File #2/92 - F52009 - IST-301

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 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.

Depart	ment:	BIT
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Discipline and Course Number: IST 301

Course Title: Advanced Networking

Abbreviated Title (24 spaces or less): AdvNtwk

Instructor(s): S. Dalton; B. Kehr

Credit Hours:

Lecture: 3

Lab:

Total: 3

Prerequisites: IST 321 or equivalent

Semester(s) previously taught: none

Brief Course Description: (40 words or less)

Explores advanced networking topics including scalable interworks, IPv6, spanning tree protocol, network and subnet IP addressing, optimized converged networks, "Green" technology, fiber optic technology, emergency preparedness, disaster recovery; configuring LANs, WANs, frame relay, ATM, routing protocols; includes labs and simulations.

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

4) 5)

Marole

6)

Discipline Specific Curricula Committee:

signature)

Curricula Committee:

(Chair Signature)

(Revised 1/31/2008)

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Effective Year: 2010

Effective Term: Summer 🖂

Fall 🗀

Spring 🖾

EC File # 2195-Sp2010-Hist-301

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 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.

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Department: Hi	sto ry a nd Political Scie	ence	-	•• · · · · · · · · · · · · · · · · · ·
Discipline and (Course Number: 301			
Course Title: M	ark Twain's America			
Abbreviated Til	de <i>(24 spaces or les</i>	s): Mark Twain's	America	
Instructor(s): I	Or. David Levy			
Credit Hours:	Lecture: 3	Lab: G	Total: 3	
Prerequisites:	Hist 175 or 176		n two ne	
Semester(s) pr	eviously taught: Nev	ver taught before		•
economic, politic ideas, and influer	nced his writing.	velopments in the	United States that to	che major social, buched him, affected his biready included below.
4)	(J ₁		6)	. 1 - 1
Department Chai	r: Jatang	(Chair	Signature)	Date: 7/7/09
Discipline Specifi	c Curricula Committee		signature)	Date: #13100
Curricula Commi	tree:	(Chair S	ignature)	Pate:

(Revised 1/31/2008)

07/07/09

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Effective Year: 2010
Effective Term: Summer
Fall
Spring
EC File #2199-5p 2010-BioSci-301

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 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*.

Discipline and Course Number: BIO 301

Course Title: Genomics

Abbreviated Title (24 spaces or less): Genomics

Instructor(s): Ronald L. Frank

Credit Hours: Lecture: 3

Lab: 0

Total: 3

Prerequisites: BIO 331 Molecular Genetics

Semester(s) previously taught: N/A

Brief Course Description: (40 words or less)

This course offers a general overview of the field of genomics. Topics covered include genome sequencing and annotation, transcriptomics, proteomics, metabolomics, genomic variation, and an overview of human, and several animal, plant, and microbial genome projects.

List all co-listed course 1) N/A	s: Include initials of Dept. 2)	Chair, if signature is not already	ady included below.
4)	5)	6)	
Department Chair:	Josephan 19	hair Signature)	Date: <u>7/29/09</u>
Discipline Specific Curricul		hair signature)	
Curricula Committee:	(C	nair Signature)	Date: