From: 573 341 4362 Page: 1/25 Date: 12/7/2012 1:06:23 PM



Missouri University of Science and Technology

Formerly University of Missouri-Rolla

Minutes
Campus Curricula Committee Meeting
December 5, 2012
12 p.m., Room 117 Fulton Hall

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

The committee approved the following meeting dates for Spring 2013.

- January 15, 10:00-11:00 am
- February 6, 12:00-1:00 pm
- March 6, 12:00-1:00 pm
- April 3, 12:00-1:00 pm
- May 8, 12:00-1:00 pm

The following curriculum forms were discussed and approved:

Degree Change Forms:

DC #0429
DC #0432
DC #0433

Course Change Forms:

CC #8284	CC #8306
CC #8285	CC #8308
CC #8305	CC #8309

Experimental Course Forms:

EC #2438	EC #2442
EC #2440	EC #2444

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

DC #0430, History, Bachelor of Arts/History Teacher Education Program.

CC #8307, Explosives Engineering 411, Research Methods.

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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

Formerly University of Missouri-Rolla

The following forms were withdrawn by the academic department responsible for each: CC #8280, Computer Engineering 416, Advanced Computer Architecture II.

CC #8281, History 396, History Research Seminar.

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

The meeting adjourned at 1:10 p.m.

Daniel Tauritz, Chair

Missouri S&T Campus Curricula Committee

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	Effective Term: Summer 🗔 💮 Fall xx 🗆 Spring 🖵	0417-2012 - Emgt-
	(Creating or modifying a degree program must be effective for a Fall term))C)
	Degree Change Form (I	
	This form is to be used for creating or modifying degree programs, en	phasis areas, and minors.
	Title of degree program, emphasis area, or minor: Engineering Management	
	Department: EMSE	
émgt ←	Briefly describe action requested (Attach documentation as ap Add EMSE 213 (new 3 credit hour course CC submitted with this requires of required Engineering Management core courses. Concurrent Engineering, Management of Technology and General Emphasis areas EMSE technical electives (Separate DC forms submitted with this required documentation.	to this change, the Industrial will remove 3 credit hours of
	•	
	Recommended by Department: (Chair signature)	Date: <u>리 과기 1 3</u>
	Recommended by: Discipline Specific Curricula Committee (Chair signature)	Date: 8/26/12
	Approved by Curricula Committee: 2 Javel Jawil (Chair signature)	Date: 12/7/2a/2
	Approved by Faculty Senate:(Chair signature)	Date:
	02/27/12	(Revised 9/12/2011)

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

	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	Ò
Chem 1 General Chemistry	4	\bigcirc	Math 15 Calculus II for Engineers	4	\bigcirc
Chem 2 General Chemistry Lab	1	\bigcirc	Phys 23 Engineering Physics 1	4	Q
Chem 4 Intro to Lab Safety	1	Ō	Econ 121/122 - Micro or Macro Economics	3	\bigcirc
Math 14 Calculus I for Engineers	4	Ō	Humanities Elective	3	\bigcirc
Engl 20 Exposition and Argumentation	3	\bigcirc			
Hist 112, 175, 176 or Pol Sci 90	3	0			
	17			17	
	Sop	hom	ore Year		
First Semester			Second Semester		_
Math 22 - Calculus w/Anlytic Geometry III	4	\circ	Math 204 - Differential Equations	3	\bigcirc
Physics 24 - Engineering Physics II	4	\bigcirc	Stat 215/217 - Eng Statistics	3	\bigcirc
IDE 50 - Enginieering Mechanics - Statics	3	\circ	IDE 150 - Engineering Mechanics - Dynamics	2	\bigcirc
Eng Mg 213 Complex System Mgt	3	\bigcirc	Eng Mg 147 - Eng Mgt Acct&Fin	3	\bigcirc
Eng Mg 137 - Eng Economics	2	\circ	Eng Mg 134 - Management Eng & Technology	3	\bigcirc
		0	Psych 50 - General Psychology	3	\circ
	16			17	
	J	unio	r Year		
First Semester			Second Semester		_
Eng Mg 253 - Operations & Prod Mngt	3		Eng Mg 266 - Quality Philosophies & Methods	3	\bigcirc
Eng Mg 251 - Marketing Management	3	\bigcirc	Eng Mg 254 - Project Management	3	\mathbb{Q}
IDE 110 - Mechanics of Materials	3	\bigcirc	El Eng 281 - Electrical Circuits	3	\subseteq
IDE 120 - Mechanics of Materials Laby	1	\bigcirc	English 160 - Technical Writing	3	\bigcirc
Comp Sci 74 - C++ Programming	2	\bigcirc	ME 227 - Thermal Analysis	3	\cup
Com Sci 78 - C++ Lab	1				
Sp&:Med 085 or 181	3	0			
	16			15	
	S	enio	r Year		
First Semester			Second Semester		_
Eng Mg Emphasis Requirement	3		Eng Mg 299 - Senior Design	3	Q
Eng Mg Emphasis Requirement	3.		Eng Mg Technical Elective	3	\bigcirc
Eng Mg 260 - Gen Mgt - Design & Integration	3	Ō	Eng Mg Technical Elective	3	\bigcirc
Eng Mg Emphasis Requirement	3	\bigcirc	Upper Level H/SS	3	\bigcirc
Eng Mg Emphasis Requirement	3	\circ	Free Elective	3	$ \circ $
	15			15	

Comments:

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	Effective Year: 2013 Effective Term: Summer Fall xx Spring (Creating or modifying a degree program must be effective for a Fall term))419-2012-Emgt- <i>ct</i>
	Degree Change Form (D	C)
	This form is to be used for creating or modifying degree programs, empl	hasis areas, and minors.
	Title of degree program, emphasis area, or minor: Industrial Engineering Emphasis Area	
	Department: EMSE	
lMgt lmgt	Briefly describe action requested (Attach documentation as appr The Industrial Engineering Emphasis area credit hour requirements will hours to 18 credit hours. This change is being made in order to add a near (EMSE 213) to the current 26 credit hours of EMSE required core course required courses (EMSE 257, 311, 356 and 382) will not change. The Emphasized to 6 credit hours from the current required 9 credit hours. To maintain 3 credit hours of Free Electives as a part of the 128 required	change from 21 credit ew 3 credit hour course s. The 12 credit hours of MSE technical electives will This change enables EMSE
	Recommended by Department:(Chair signature)	Date: <u> </u>
	Recommended by: Discipline Specific Curricula Committee (Chair signature)	Date: 8/26/12
	Approved by Curricula Committee: Sand Faut (Chair signature)	Date: 12/7/2012
	Approved by Faculty Senate:(Chair signature)	Date:
	02/27/12	(Revised 9/12/2011)

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Bachelor of Science Engineering Management

Student Checklist - FS 2013 - Catalog 128 Hours

Industrial Engineering Emphasis

			Year		
First Semester	··· ·		cond Semester		
FE 10 Study and Careers in Engineering	1	_	DE 20 Engineering Design with Computer Appli	3	\bigcirc
Chem 1 General Chemistry	4	三二	1ath 15 Calculus II for Engineers	4	Ō
Chem 2 General Chemistry Lab	1	= 1	hys 23 Engineering Physics 1	4	Ō
Chem 4 Intro to Lab Safety	1		con 121/122 - Micro or Macro Economics	3	Ō
Math 14 Calculus I for Engineers	4	_ =	lumanities Elective	3	Ŏ
Engl 20 Exposition and Argumentation	3	Ŏ			_
Hist 112, 175, 176 or Pol Sci 90	3	\preceq			
1100 1100 1700 1700 0700 0700				- 1	
	17			17	
	Sop	homo	re Year		
First Semester		S	econd Semester		_
Math 22 - Calculus w/Anlytic Geometry III	4		1ath 204 - Differential Equations	3	\bigcirc
Physics 24 - Engineering Physics II	4		tat 215/217 - Eng Statistics	3	\bigcirc
IDE 50 - Enginieering Mechanics - Statics	3		DE 150 - Engineering Mechanics - Dynamics	2	Q
Eng Mg 213 Complex System Mgt	3		ng Mg 147 - Eng Mgt Acct&Fin	3	Q
Eng Mg 137 - Eng Economics	2		sych 50 - General Psychology	3	Q
			ng Mg 134 - Management Eng & Technology	3	\bigcirc
	16	unior	Vaar	17	
	ال		· · · · · · · · · · · · · · · · · · ·		
First Semester			econd Semester	2	
Eng Mg 253 - Operations & Prod Mngt	3	- Territoria	ng Mg 266 - Quality Philosophies & Methods	2	$l \times$
Eng Mg 251 - Marketing Management	3		ing Mg 254 - Project Management	2	lΧ
IDE 110 - Mechanics of Materials	اد .		1 Eng 281 - Electrical Circuits	2	ert symp
IDE 120 - Mechanics of Materials Laby	1 2		nglish 160 - Technical Writing	2	l≍
Comp Sci 74 - C++ Programming	=	symp	fE 227 - Thermal Analysis	3	
Com Sci 78 - C++ Lab	1 3	\bowtie			
Sp&Med 085 or 181	٩				
	16			15	
-1		enior	Уеаг		
First Semester			econd Semester		
Eng Mg 356 - Ind Sys Simulation	3		ng Mg 299 - Senior Design	3	$ \bigcirc$
Eng Mg 382 Intro to Ops Research	3	_	ng Mg 257 - Mat Hndl & Plant Layout	3	IÕ
Eng Mg 311 - Human Factors	3		ng Mg Technical Elective	3	ΙÓ
Eng Mg 260 - Gen Mgt - Design & Integration	3		pper Level H/SS	3	ΙŌ
Eng Mg Technical Elective	3		ree Elecetive	3	ΙÓ
		-		,	-
<u> </u>	15			15	

Comments:

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Effective Year: 2013 Effective Term: Summer Fall xx S (Creating or modifying a degree program must b	soring i :		2012-Emgt-000-00
Degree Ch	ange Forn	n (DC)	
This form is to be used for creating or mo	difying degree program	ns, emphasis areas	s, and minors.
Title of degree program, emphasis area, General Emphasis Area	, or minor:		
Department: EMSE			
Briefly describe action requested (Attace The General Emphasis area credit hour requinours. This change is being made in order to current 26 credit hours of EMSE required con Courses (Engineering Discipline) will remain reduced to 3 credit hours from the current remaintain 3 credit hours of Free Electives as a	irements will change o add a new 3 credit e courses. The 15 c the same. The EMS equired 6 credit hour	from 21 credit he hour course (EM redit hours Engire E technical elections. This change e	ours to 18 credit EE 213) to the Erng f neering Area ves will be
Recommended by:	Chair signature) (Chair signature)		Date: <u>8/24/12</u>
Approved by Curricula Committee:	(Chair signature)		Date: 12/7/2012
Approved by Faculty Senate:((Chair signature)	C	Pate:

02/27/12

(Revised 9/12/2011)

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Bachelor of Science Engineering Management

Student Checklist - FS 2013 - Catalog 128 Hours

General Engineering Emphasis

	70.		an Year	"	
First Semester			Second Semester	ĺ	
FF 10 Study and Careers in Engineering	1	\bigcirc	IDE 20 Engineering Design with Computer Appli	3	\bigcirc
Chem 1 General Chemistry	4	\preceq	Math 15 Calculus II for Engineers	4	Ō
Chem 2 General Chemistry Lab	1	= 1	Phys 23 Engineering Physics 1	4	Ō
Chem 4 Intro to Lab Safety	1	\preceq	Econ 121/122 - Micro or Macro Economics	3	Ō
Math 14 Calculus I for Engineers	4	\preceq	Humanities Elective	3	Ō
Engl 20 Exposition and Argumentation	3	ŏ	**************************************		•
Hist 112, 175, 176 or Pol Sci 90	3	Ŏ			
	17			17	
	Sop	hom	ore Year		
First Semester			Second Semester		_
Math 22 - Calculus w/Anlytic Geometry III	4	\bigcirc	Math 204 - Differential Equations	3	\subseteq
Physics 24 - Engineering Physics II	4	= 1	Stat 215/217 - Eng Statistics	3	\subseteq
IDE 50 - Enginicering Mechanics - Statics	3	\bigcirc	IDE 150 - Engineering Mechanics - Dynamics	2	\mathcal{Q}
Eng Mg 213 Complex System Mgt	3	\bigcirc	Eng Mg 147 - Eng Mgt Acct&Fin	3	\subseteq
Eng Mg 137 - Eng Economics	2	\bigcirc	Eng Mg 134 - Management Eng & Technology	3	\mathcal{L}
		0	Psych 50 - General Psychology	3	\circ
	<u> 16</u>			17	
	J	inio	r Year		
First Semester		_	Second Semester		_
Eng Mg 253 - Operations & Prod Mngt	3	=	Eng Mg 266 - Quality Philosophies & Methods	3	\succeq
Eng Mg 251 - Marketing Management	3		Eng Mg 254 - Project Management	3	\leq
IDE 110 - Mechanics of Materials	3	=	El Eng 281 - Electrical Circuits	3	\searrow
IDE 120 - Mechanics of Materials Laby	1	\odot	English 160 - Technical Writing	3	\subseteq
Comp Sci 74 - C++ Programming	2	\odot	ME 227 - Thermal Analysis	3	\cup
Com Sci 78 - C++ Lab	1	\bigcirc			
Sp&: Med 085 or 181	3	\circ			
	16			15	
	S	enio	r Year	-	
First Semester		_	Second Semester	_	
Eng Mg Emphasis Requirement	3	\bigcirc	Eng Mg 299 - Senior Design	3	\bigcirc
Eng Mg Emphasis Requirement	3	\bigcirc	Eng Mg Emphasis Requirement	3	\bigcirc
Eng Mg 260 - Gen Mgt - Design & Integration	3	\bigcirc	Eng Mg Technical Elective	3	\mathcal{Q}
Eng Mg Emphasis Requirement	3	Q	Upper Level H/SS	3	\searrow
Eng Mg Emphasis Requirement	3	\cup	Free Elective	3	\cup
	15			15	

Comments:

From: 573 341 4362 Page: 9/25 Date: 12/7/2012 1:06:26 PM

	2013 Effective Year: 2012 Effective Term: Summer Fall xx 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.
í	Title of degree program, emphasis area, or minor: Change of "Free Elective Footnote" paragraph, page 139 of current catalog
1	Change of Footnote 3 in current catalog – Free Electives
•	BS IN ENG MGT Department: EMSE
	Briefly describe action requested (Attach documentation as appropriate):
₿	The second sentence of the Free Elective Footnote paragraph currently states: "Each student is required to take six hours of free electives in consultation with his/her academic advisor."
	The second sentence should be changed to: "Each student is required to take three hours of free electives in consultation with his/her academic advisor." The remaining sentences in the paragraph should remain the same.
	The first sentence of Footnote 3 currently states the following: "Each student is required to take six hours of free electives in consultation with his/her academic advisor."
	The first sentence should be changed to the following: "Each student is required to take three hours of free electives in consultation with his/her academic advisor."
	The remaining sentences/statements of the Footnote 3 will remain the same.
	Recommended by Department: Date: 3/28/12 (Chair signature)
	Recommended by: At A Grant Date: 816/1 Discipline Specific Curricula Committee (Chair signature) Approved by Curricula Committee: 2 August Fair Date: 12/7/2012
	Approved by Curricula Committee: 2 Janel Fair Date: 12/7/2012 (Chair signature)
	Approved by Faculty Senate: Date: Date:
	03/28/12 (Revised 9/12/2011)

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Date: 12/7/2012 1:06:26 PM

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

	Fre	eshn	nan Year		
First Semester			Second Semester	•	
FE 10 Study and Careers in Engineering	1	$ \bigcirc$	IDE 20 Engineering Design with Computer Appli	3	C
Chem 1 General Chemistry	4	IC	Math 15 Calculus II for Engineers	4	١Č
Chem 2 General Chemistry Lab	1	IC	Phys 23 Engineering Physics 1	4	lĈ
Chem 4 Intro to Lab Safety	1	C	Econ 121/122 - Micro or Macro Economics	3	lŌ
Math 14 Calculus I for Engineers	4	Ō	Humanities Elective	3	١Ē
Engl 20 Exposition and Argumentation	3	Ō	k		-
Hist 112, 175, 176 or Pol Sci 90	3	Č	X		
	17			17	
	Sopi	hom	ore Year		
First Semester			Second Semester		_ ا
Math 22 - Calculus w/Anlytic Geometry III	4	\mathbb{Q}	Math 204 - Differential Equations	3	🦳
Physics 24 - Engineering Physics II	4	\subseteq	Stat 215/217 - Eng Statistics	3	$ \subseteq$
IDE 50 - Enginieering Mechanics - Statics	3	\mathcal{Q}	IDE 150 - Engineering Mechanics - Dynamics	2	$ \subseteq$
Eng Mg 213 Complex System Mgt	3	\bigcirc	Eng Mg 147 - Eng Mgt Acet&Fin	3	Ç
Eng Mg 137 - Eng Economics	2	\bigcirc	Eng Mg 134 - Management Eng & Technology	3	$ \bigcirc$
		\circ	Psych 50 - General Psychology	3	
	16			17	
	Ju	mio	r Year		
First Semester	_		Second Semester		
Eng Mg 253 - Operations & Prod Mngt	3	\bigcirc	Eng Mg 266 - Quality Philosophies & Methods	3	Ç
Eng Mg 251 - Marketing Management	3	\bigcirc	Eng Mg 254 - Project Management	3	\bigcirc
IDE 110 - Mechanics of Materials	3	Q	El Eng 281 - Electrical Circuits	3	\subset
IDE 120 - Mechanics of Materials Laby	I		English 160 - Technical Writing	3	
Comp Sci 74 - C++ Programming	2	\bigcirc	ME 227 - Thermal Analysis	3	\bigcirc
Com Sci 78 - C++ Lab	I			1	•
Sp&Med 085 or 181	3	9			
	16			15	
	Se	nior	Year		_
First Semester]		Second Semester		
Eng Mg Emphasis Requirement	3 (Eng Mg 299 - Senior Design	3 /	\bigcirc
Eng Mg Emphasis Requirement	3 (~	Eng Mg Technical Elective	3	Ō
Eng Mg 260 - Gen Mgt - Design & Integration	3 (Eng Mg Technical Elective	3 /	Ō
Eng Mg Emphasis Requirement	3 (QI	Upper Level H/SS	3 (Ō
Eng Mg Emphasis Requirement	3 (Free Elective	3 (Ŏ
	15			15	

Comments:

change see attacket

140 — Engineering Management

science must be at least three credit hours.

courses. Any courses outside of engineering and

AME	FRESHMAN YEAR First Semester Credit FE 10-Study and Careers in Engineering .1 Chem 1-General Chemistry .4 Chem 2-General Chemistry Lab .1 Chem 4-Intro to Lab Safety .1 Math 14-Calc I for Eng¹ .4 English 20-Expo & Argument .3 Hist 112, 175, 176, or Pol Sc 90 .3
AMC	Second Semester IDE 20-Intro to Engr Design
	SOPHOMORE YEAR First Semester Credit Math 22-Calc W/Analytic Geometry III ¹
★	Second Semester Math 204-Diff Equat' Stat 215-Eng Stat or Stat 217-Intro to Prob' Cmp Sc 74-Intro to Prog Method Cmp Sc 76-Prog Method-Lab (134 Mg)
K To 8	JUNIOR YEAR First Semester Credit Eng Mg 253-Operations & Prod Mgt¹ 3 CE 110-Mechanics of Materials 3 CE 120-Materials Testing 1 Eng Mg 251-Marketing Mgt¹ 1 Eng Mg 254-Project Mgt¹ 1 Sp&MS 85 or 181 3
×	Second Semester Eng Mg 266-Quality Phil & Methods Mc Eng 227-Thermal Analysis
*	First Semester Credit Emphasis Area Required Course 3 Emphasis Area Required Course 3 Eng Mg 260-Gen Mgt Design & Integ¹ 3 Eng Mg Technical Elective 3 Ersel Elective 3 Ersel Elective 3 Examples 15

Second Semester Eng Mg Technical Elective Eng Mg Technical Elective Eng Mg 299-Senior Design' Upper Level Hum/SS	3 3 1 3
LICON SIGNIA	.

Example Emphasis Area Programs for **Engineering Management Students**

One unique aspect of the Engineering Management degree is the student's ability to select an established emphasis area or create a specialized emphasis. Two examples of established emphasis areas are shown below.

Management of Technology	
Management of Technology	3
Eng Mg 315 Hamagerlan Decision Making	-
Eng Mg 320-Technical Entrepreneurship 3	
Eng Mg 327-Legal Environment	
Eng Mg-Technical Electives	ø
(In consultation with your advisor)	

Industrial Engineering

	C	re	dit
Eng Mg 257-Mat Handling/Plant Layout			.3
Eng Mg 311-Human Factors			
Eng Mg 356-Ind Sys Sim			
Eng Mg 382-Intro Oper Res			ر ر3.
Eng Mg Technical Electives		٠,	86
(In consultation with your advisor)			•

General

Cr	edit
Engineering Area Courses (Engineering Discipline)	.15
Eng Mg-Technical Elective	. .6- (

NOTE: All electives must be chosen in consultation with the student's advisor. Students must satisfy the common engineering freshman year course requirements in addition to the sophomore, junior, and senior year requirements listed above with a minimum of 128 hours.

- 1) Must have a grade of "C" or better in these courses for graduation. Math 8 and 21 may be substituted for Math 14 and 15, respectively.
- 2) Humanities and Social Science electives must be approved by the student's advisor. Students must comply with the general education requirements with respect to selection and depth of study. These requirements are specified in the current catalog.
- * Each student is required to take six hours of free electives in consultation with his/her academic advisor. Credits which do not count towards this requirement are deficiency courses (such as algebra and trigonometry), and extra credits in required courses. Any courses outside of engineering and science must be at least three credit hours.



Engineering Management — 141

- 4) Students are required to select an emphasis area and maintain a minimum 2.0 GPA for these courses.
- All Engineering Management students must take the Associate Engineering Manager Certification exam prior to graduation. A passing grade on this examination is not required to earn a B.S. degree. This requirement is part of the Missouri S&T assessment process as described in Assessment Requirements found elsewhere in this catalog. Students must sign a release form giving the University access to their Associate Engineering Manager Certification score.

Engineering Management Courses

- 101 Special Topics (Variable 0.0-6.0) This course is designed to give the department an opportunity to test a new course. Variable title.
- 1.24 Principles of Engineering Management (LEC 1.0) This course is an introduction to engineering management principles and concepts and will address issues that are relevant to today's successful engineering managers. Topics covered include management practices; communications; working in teams; project management; ethics and societal issues; and life long learning.
- 131 Accounting II (LEC 3.0) Accounting for the partnership and the corporation, consideration of cost and departmental accounting. Prerequisite: Eng Mg 130.
- 134 Managing Engineering And Technology (LEC 3.0) Introduces the management functions of planning, organizing, motivating, and controlling. Analyzes the application of these functions in research, design, production, technical marketing, and project management. Studies evolution of the engineering career and the transition to engineering management. Prerequisite: A grade of "C" or better is required in this course to meet Engineering Management degree requirements.
- 137 Economic Analysis of Engineering Projects
 (LEC 2.0) Engineering project analysis from an engineering economics perspective. Topics include: interest, equivalent worth, comparing alternatives, rate of return methods, depreciation and taxes, inflationand price changes, benefit-cost analysis and risk analysis. Prerequisite: Math 15.
- 147 Engineering Accounting and Finance (LEC 3.0) This course is designed to introduce the fundamentals of accounting and finance and provide the student with tools used in making financial decisions within a technically based enterprise. Prerequisite: Eng Mgt 137.
- **201** Special Topics (Variable 0.0-6.0) This course is designed to give the department an opportunity to test a new course. Variable title.
- 202 Cooperative Engineering Training (IND 0.0-6.0) On-the-job experience gained through cooperative education with industry, with credit arranged through departmental cooperative advisor. Grade received depends on quality of

- reports submitted and work supervisors evaluation.
- 208 Engineering Economy (LEC 3.0) Techniques for capital investment decision making; time-value of money and the concept of equivalence, multiple alternatives, replacement criteria, and cost of capital depreciation.
- 209 Engineering Economy And Management (LEC 3.0) Engineering economy topics include equivalence; present worth, annual and rate of return analysis; depreciation and taxes. Engineering management topics include planning, organizing, motivation, controlling and their applications in design and manufacturing.
- 224 Competition Team Design (LAB 1.0) Students will participate in a significant design activity as part of one of the experiential learning design team projects. Design activity will be reported and assessed at the end of the semester through a design report and oral presentation. Prerequisite: Sophomore (or greater) standing and membership in an experiential learning design team.
- 230 Management Accounting Systems (LEC 3.0)
 The course is designed to introduce the theory and practice of accounting, and to study the flows of accounting information through the business firm. Topics are the fundamentals of accounting, technology of accounting information systems, and accounting system applications. Prerequisite: Agrade of "C" or better is required in this course to meet Engineering Management degree requirements.
- 233 Competition Team Leadership (LEC 1.0)
 Students will participate in open lecture on team based management and leadership as it pertains to ongoing project activities. Project activity reports will be generated using real project data and assessed at the end of the semester through a project master plan and oral presentation. Prerequisite: Sophomore (or greater) standing and leadership role in an experiential learning design team or nomination by an experiential learning team advisor.
- 242 Competition Team Communication (LEC 0.5 and LAB 0.5) Communication skills, both technical and promotional, will be covered. Students will practice both communication skills in written, oral and media-based modes. Specific activities will include writing a proposal for funding, developing a promotional media piece and speaking to external groups about a SDELC team. Assessment will be made on each of the deliverables. Prerequisite: Sophomore (or greater) standing and membership in an experiential learning design team.
- 251 Marketing Management (LEC 3.0) Study of basic functions of marketing in the technological enterprise, including product selection and development, market research, market development, selection of distribution channels and advertising, marketing strategy. Prerequisite:

From: 573 341 4362 Page: 13/25 Date: 12/7/2012 1:06:28 PM Effective Year: 2013 DC # 0432-2012-BIT-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: Minor in Sustainable Business Department: Business and Information Technology Briefly describe action requested (Attach documentation as appropriate): The minor in Sustainable Business is being changed to add BUS 340 to the list of required courses and to move BUS 315 to the list of elective courses. All other required and elective courses remain The new requirements are: 1) BUS 110 - Management and Organizational Behavior 2) BUS 330 - Foundations of Sustainable Business 3) BUS 340 - Introduction to Business Innovation for Sustainability 4) and two courses from the following: ERP 348 - Strategic Enterprise Management Systems EnvE 360 - Environmental Law and Regulations EnvE 365 - Sustainability, Population, Energy, Water, and Materials Psych 315 - Environmental Psychology Econ 340 - Environmental and Natural Resource Economics Econ 355 - Energy Economics Pol Sci 350 - The Politics of the Third World Hist 361 - American Environmental History BUS 315 - Introduction to Teambuilding and Leadership in a Business Setting At least 6 hours of the minor course work must be taken in residence at Missouri S&T.

Date: 10/24/12

Date: 10/25/2012 Recommended by Department: Recommended by: (Chair signature) Discipline Specific Curricula Committee

(Chair signature)

Date: _____ Approved by Faculty Senate: _

(Chair signature)

(Revised 9/12/2011)

Approved by Curricula Committee:

the same.

From: 573 341 4362 Page: 14/25 Date: 12/7/2012 1:06:28 PM

Effective Year: FS2013	12, Gp E-0000 (
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 Computer Engineering	
Department: Electrical & Computer Engineering	
Briefly describe action requested (Attach documentation as appropriate) Create a Minor in Computer Engineering with the requirements noted below. The Cp Eng Minor will be noted on the student's transcript.	:
The catalog description for the CpE Eng Minor is given in the attached document.	
Minor was approved by the Cp Eng Curriculum Committee on August 31, 2012.	
Recommended by Department: Chair signature Chair signature	Date: 290ctrocr
Recommended by Discipline Specific Curricula Committee: (Chair signature)	Date: 3//ad/12
Approved by Curricula Committee: Daniel four (Chair signature)	Date: 12/9/2012
Approved by Faculty Senate:(Chair signature)	Date:

(Revised 1/31/2008)

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Date: 12/7/2012 1:06:28 PM

The catalog description for the minor will be added as follows.

Computer Engineering Minor Curriculum

A minor in Computer Engineering will require the following:

Pass the El Eng Advancement Exam I (El Eng 151 Final) with a C or better*

Pass the Cp Eng Advancement Exam (Cp Eng 111) with a C or better**

, ⁴Pass Cp Eng 213; with a C or botter,

belter In Pass El Eng 121 or Cp Eng 215 with a C or better

Pass Cp Eng 319 or Cmp Sc 365 with a C or better

Pass 3 hours of 3xx Cp Eng or El Eng or Cmp Sc coursework with a G or better, excluding special problems and undergraduate research. Transfer courses cannot be used to satisfy this requirement. The course choice for this requirement is subject to the approval of the

minor advisor.

*One opportunity will be given to pass the El Eng Advancement Exam I if a student has prior course or experience in circuits. Otherwise, the student must pass El Eng 151. **One opportunity will be given to pass the Cp Eng Advancement Exam if a student has prior course or experience in digital circuits. Otherwise, the student must pass Cp Eng 111. From: 573 341 4362 Page: 16/25 Date: 12/7/2012 1:06:29 PM

From: 573 341 4362

Page: 4/13

Date: 9/17/2012 11:37:09 AM

Effective Yo Term: Sumn		Spring 🗔	·	CC File #	8284-2	012 . Sys E. 278-32
	This	Course C				378-32
	a nges (Check a			_		
New Course	<u></u>	Deletion 🗌	Credit H	· · · · · <u>—</u>	Prerequisit	
Course Title Course Tot	Catalog Cormation (1-9	Description Muse Bo Complete		lumber 🔲	Co-listing [
		Must be complete	ta, teave frop	need iteliie tii	HIK II HO CHONGE	is being made.)
1. Departm	ent: EMSE and Course N	umbari Braca	me. SveEnz 37	8 Bron	osed:	
z. priscipinio 3. Course Tit		Introduction to P				
J. 200(30 1	Proposed:				•	
	ted Course Titl (24 Spaces escription <i>(300 C</i>	or Less. Only no	eded for New rLess.)	Courses or Til	tle Changes.)	
Present:	Introduction to BAM, and Hopf resonance the	artificial neural	network archit unterpropagati is covered. Stu	on networks, dents experin	self organizing nent with the u	back propagation, maps, adaptive use of artificial
Proposed:		•				
5. If course (6. Credit Hou 7. Prerequisi Present	Pr itas:	esent: oposed:	Lecture: 3 Lecture:	Lab: Lab:	Total: 3 Total:	
Propose	ed: Math 204 o	- 229 jand g radua	ate standing.			
	for Majore: 🗷 on: Simplify p	Elective for Marerequisites, pres	•	indant.		
	ers proviously of					
11. List ali c 1) ECE368 ^제	o-listed courses, (12 2)		t. Chair, it sign i)	ature does no	r appear pelov	<i>1</i> .
4)	5)	~ ~	;)			
Recommend	ed by Departme		Chair signature			Date: 9/13/12
Recommend	ed by Discipline	Specific Curricul	(Chair signature) a Committee \ (Chair_signature)	KT by coka	•	Date: 9/26/17
Approved by	Curricula Comm	ittee: 272	(Chair signature)			Date: 12/7/21/2
Approved by	Faculty Senate:	· · · · · · · · · · · · · · · · · · ·	Chair signature)	<u>,</u>		Date:

(Revised 1/29/09)

From: 573 341 4362 Page: 17/25 Date: 12/7/2012 1:06:29 PM

Effective Ye Effective Teri	-	□ Fall 💢	S pring 🔯 -	CC File #	8285-	2012-Emst.
			Change	•	-	2012-EMS+. 481-32
	·		reating or modify	ing permanent	courses.	
	***	k all changes.)	an		Prerequi	nitos M
New Course		se Deletion 🗌		Hours 🔲	Co-listing	
Course Title (log Description	_	Number 🗔 •••••• blac	·	
			pleted. Léave "Proj	hozed, treilis nigi	ik ji jio chan	ge is being made./
-		mt. & Sys. Eng.		D		
-			esent : EMgt 481	Propo	sea:	
3. Course Tit	_	: Financial Eng	ineering			
	Propose					
	ted Course 1 (24 Spa escription <i>(40</i>	i itie: ces or Less. Onl <i>Words or Less)</i>	y needed for New	Courses or Tit	le Changes.)
Present:	An introducthe future f	tion to financial narkets, the price ge rate futures,	cing of forwards a	ind futures, forv ns markets, opt	vard rate ag ion strategi	derivatives, including greements, interest es, the binomial and tility smiles.
Proposed:						
5. If course i 6. Credit Hou	_	trip check box: Present:	Lecture: 3	Lab: O	Total:	3
7. Prerequisi	tas:	Proposed:	Lecture:	Lab:	Total:	
Present		08, Eng Mgt 352; E	ng Mgt 480 or Sys En	g 480 or equivalent		
Propose	ed: Eng Mgt l	37 or 308				
8. Required 1	for Majors: 🗀	Elective fo	r Majors: 🗌			
9. Justification	on: EMgt 35	2 is no longer offere	d.			
				(101 201 2	01 401).	
			xperimental cour Dept. Chair, if sig			low.
1) Sy 5 En		2)	pept. Chan, II siy	3)	, appour se	
4)		5)		6)		
Recommend	ed by Depart	ment	<u>عاميع كي</u> (Chair signature)			Date: 9/13/12
Recommend	ed by Discipli	ne Specific Curr	ricula Committee	-Stephy	Kefer	Date: 9146(12
Approved by	Curricula Co	mmittee:	Tonje Jaux) (Chair signature)	<u> </u>	,	Date: 12/7/2012
Approved by	Faculty Sena	ite:		** to		Date:
· · Index	,		(Chair signature)			

From: 573 341 4362 Page: 18/25 Date: 12/7/2012 1:06:29 PM CC File # 8305-2012-Pet Eng-366-32 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 🛛 Catalog Description Course Title Course Number Co-listing [

		catalog pescil	brien — com	30 Hamber		
<u>C</u>	<u>ourse Inform</u>	nation (1-9 Must B	e Completed. Leave "	Proposed" items bla	nk if no change Is	being made.)
1.	Department	: GSE				
2.	Discipline an	ıd Course Number	: Present : Pet En	g 366 Propo	osed:	
3.	Course Title:	Present: Mechan Proposed:	ical Earth Modeling			
	Abbreviated	Course Title: (24 Spaces or Less	s. Only needed for N	lew Courses or Tit	le Changes.)	
4.	Catalog Descr Present:	iption (300 Character	r Spaces or Less.)			
	Proposed:					
5.	If course requ	ilres field trip check	box: 🗌			
6.	Credit Hours:	Present: Proposed	Lecture: 3	Lab: <i>O</i> Lab:	Total: 3 Total:	
7.	Prerequisites: Present:	•	ology 220 or Min Eng		i otai.	
	Proposed:	Pet Eng 232 and G	eology 220			
	Required for N Justification:		ive for Majors: ot offered anymore. ons to this class.	Both Pet Eng 232	and Geology 220) provide
11	l. List all co-lis	ted courses, initiale	s an experimental co d by Dept. Chair, if s		_	
1)		2)	3)			
4)		5)	6)			.
Re	commended b	y Department <u> </u>	Malph Mor-	re) O: D #	Dat	re: <u>10-2-12</u> re: <u>10-25-72</u>
Rε	commended b	y Discipline Specific	: Curricula Committe	e The rakes	<u></u> Dat	:e: <u>/o-25-/</u> 2
Αŗ	proved by Cur	ricula Committee: _	(Chair signatu Janul Janus (Chair signatu		Dat	e: <u>/2/7/20/2</u>
Αŗ	proved by Fac	ulty Senate:	(Chair signatu		Dat	e:

From: 573 341 4362 Page: 19/25 Date: 12/7/2012 1:06:30 PM

Effective Year: 2013 Fall Spring \boxtimes Term: Summer 🗌

CC File # 8306-2012-Peterg-232-32

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

Course Chang	ges (Check all chan		ar mountying per		ui 565.	
New Course 🗌	Course Deleti	оп 🗀	Credit Hours		Prerequisite	s 🛭
Course Title 🔲	Catalog Descr	iption 🗌	Course Numb	er 🗌	Co-listing 🗌	
Course Infor	mation (1-9 Must I	Be Completed. L	eave "Proposed"	items blank	if no change is	being made.)
1. Department	:: GSE					
2. Discipline ar	nd Course Numbe	r: Present:	Pet Eng 232	Propose	ed:	
3. Course Title:	Present: Well Le	ogging				
Abbreviated	Course Title: (24 Spaces or Les	ss. Only needed	d for New Cours	es or Title (Changes.)	
4. Catalog Descr Present:	iption (300 Characte	er Spaces or Less	5.)		,	
Proposed:						
•	uires field trip checl	c box: 🗆				
6. Credit Hours:	Present:			-	Total: 3	
7. Prerequisites: Present:	Proposed : Physics 24 or 25	d: Lect	ure: La	b:	Total:	
Proposed:	Physics 24 or 25; Pet Eng 241					
8. Required for N	Majors: 💢 Elec	tive for Majors	: 🗆			
9. Justification:	Too many sophor the class and are	mores who do i struggling.	not understand	fundament	als of rock pr	operties take
	reviously offered a				-	
LI. LIST AII CO-IIS L	ted courses, initiale 2)	a by Dept. Cna 3)	air, it signature	aoes not ap	pear below.	
-,	2)	٠				
4)	5)	6)				
Recommended b	y Department	alph Stol	signature) 07	,() A.	Da	te: <u>10-2-12</u>
Recommended b	y Discipline Specific			. apopon	Da	te: 10-25-12
Approved by Cur	ricula Committee: _	Stowl ton	signature)	<u> </u>	Da	te: /2/7/20/2
Approved by Fac	ulty Senate:		signature) signature)		Da	te:

From: 573 341 4362 Page: 20/25

From: 573 341 4362

Page: 1/1

Date: 12/7/2012 1:06:30 PM

Date: 10/24/2012 4:10:29 PM

cc File # 8308-2012 - TCom -Effective Year: 2013 Spring 🗌 Fall 🗵 Term: Summer 🔲 225-10 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 🗵 Ca-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: English and Tech Com 301 Proposed: Tech Com 325 2. Discipline and Course Number: Present: Tech Com 3XX 3. Course Title: Present: Proposed: Help Authoring Abbreviated Course Title: Help Authoring (24 Spaces or Less. Only needed for New Courses or Title Changes.) 4. Catalog Description (300 Character Spaces or Less.) Present: Proposed: Students will acquire the technological and rhetorical skills necessary for creating effective online help systems, including context-sensitive help for computer applications, 5. If course requires field trip check box: \Box Total: Labi 6. Credit Hours: Present: Lecture: Lab: 🗷 Total: 3 Proposed: Lecture: 3 7. Prerequisites: Present: Proposed: One semester of college writing or technical writing. Elective for Majors: 🖾 8. Required for Majors: 9. Justification: 10. Semesters previously offered as an experimental course (101, 201, 301, 401): SP09, SP10, SP1\$ 11. List all co-listed courses, initialed by Dept. Chair, if signature does not appear below. 2) 3) 1) 5) 4) Recommended by Department (Chair signature) Recommended by Discipline Specific Curricula Committee (Çhair/signature) Approved by Curricula Committee:

(Revised 1/29/09)

Date:

(Chair signature)

(Chair signature)

Approved by Faculty Senate:

From: 573 341 4362 Page: 21/25 Date: 12/7/2012 1:06:30 PM

Effective Year:_2	2013	13
Term: Summer	Fall 🛛	S pring 🌠 -

CC File # 8309-2012 - Chem & -7.33-32

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 🗌 Course Number 🗌 Co-listing Catalog Description 🗌 Course Title Course Information (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.) 1. Department: Chemical and Bio chemical Eng 2. Discipline and Course Number: Present: ChE 433 Proposed: ChE 433 Proposed: 3. Course Title: Present: Advanced Transport Phonomera Proposed: Advanced Transport Phonomera 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: 5. If course requires field trip check box: \Box Lecture: ろ Lab: O Present: 6. Credit Hours: Lab: 🕖 Proposed: 3 Lecture: 7. Prerequisites: Present: nove Proposed: CUE 335 8. Required for Majors: Elective for Majors: Page 12 taking Ch E 433
9. Justification: graduate 5 fuddents are taking Ch E 433
with none of inadequate background 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) 4) Recommended by Department (Chair signature) Approved by Curricula Committee: _ (Chair signature) Date: ____ Approved by Faculty Senate: (Chair signature)

From: 573 341 4362 Page: 22/25

Date: 12/7/2012 1:06:31 PM

Effective Year: 2013

Effective Term: Summer ...

Fall 🔲

Spring 🛛

EC File # 2438-Sp2013-Geo 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: Geological Sciences and Eng

Discipline and Course Number: GE301

Course Title: Hydrologic flow reaction and transport modeling

Abbreviated Title (24 spaces or less): Hydrologic modeling

Instructor(s): Shadab Anwar

Credit Hours:

Lecture: 3

Lab: O

Total: 3

Prerequisites: Phys, Calculus, Civ Eng 215; GeoEng 275, 335

Semester(s) previously taught: 0

Brief Course Description: (40 words or less)

This course is an introduction to advanced modeling techniques for simulating flow, transport, and reaction processes in porous media under different hydrologic conditions. Emphasis is placed on both theoretical and practical modeling considerations. Computer demonstrations are incorporated. Practical applications are emphasized.

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

1)

2)

3)

4)

5)

Discipline Specific Curricula Committee:

dZhair Sig

(Revised 10/12/2010)

09/26/12

From: 573 341 4362 Page: 23/25 Date: 12/7/2012 1:06:31 PM

Effective Year: 20 Effective Term: Sun	13 nmer 🔲 🛘 Fall 🗎	Spring 🛚	EC File # 2440 - Sp	, 2013 - Pet Eng 401
	Experime	ental Cours	e Form (EC)	
approved SP2009 three year period.	or later allow the	course to be offered ental course has be	course is to be offered d twice at any time du en offered twice, a CC	iring the following
A new course that be submitted on a	t is required as pa a CC form to receiv	rt of a degree progr /e a permanent cour	am, minor, or graduat se number	te certificate may
Co-listed offerings	s should be submi	itted on one form, or	iginating from the pri	imary discipline.
Department: Geolo	ogical Sci. & Eng.			
Discipline and Cou	ur se Number: Pet l	Eng 401		
Course Title: Adva	nced Mechanical Ea	rth Modeling		
Abbreviated Title	(24 spaces or les	s): A dv MEM Adva	nced mem	
Instructor(s): Dr.				
Credit Hours: A g Prerequisites: 4 P	Lecture: 3 grade of Cor be Pet Eng 366 and Pet Eng 338 with gra	etter in both	Total: 3	
Semester(s) prev	iously taught:			
This course focuses surface engineering as stress initialization	, applications using a	ses necessary to simu advanced Finite Eleme geometry and coupled	late realistic in-situ stres nt modeling techniques. geomechanical-fluid flo	Concepts such
List all co-listed c 1)	ourses: Include ini 2)	tials of Dept. Chair, if : 3)	signature is not already	included below.
4)	5)	6)		
Department Chair:	Oldph {	Mgr (Chair Sign	ature)	Date: 10-2-12
Discipline Specific C	Curricula Committee	01 46 6	Saper	Date: 16-25-12
Curricula Committe	e: Honw	Jains 1	tura)	Date:

(Revised 10/12/2010)

From: 573 341 4362 Page: 24/25 Date: 12/7/2012 1:06:31 PM

Effective Year: 2013 Effective Term: Summer	Fall 🔲	Spring 🗵	EC File #2442-SP2013-EE-40/		
Experimental Course Form (EC)					

Experimental course roini (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 pe submitted to	riod. After an experi request a permanent	mental course ha course number	s been offered twic	ce, a CC form may be
A new course be submitted	that is required as p on a CC form to rece	art of a degree ive a permanent	program, minor, or course number	graduate certificate may
Co-listed offe	erings should be subn	nitted on one for	m, originating from	the primary discipline.
Department:	Electrical and Compute	r Eng.		
Discipline and	d Course Number: EE	401		
Course Title:	Power Transmission an	d Distribution	•	
Abbreviated '	Title <i>(24 spaces or le</i> s	ss): Power T&D		
Instructor(s)	: Mehdi Ferdowsi			
Credit Hours:	Lecture: 3	Lab: 0	Total: 3	
Prerequisites	: EE 207			
Semester(s)	previously taught: no	ne		
h 州igh voltage tr	Description: (40 word ansmission line electric characteristic ∮ feeders	design, conducto	rs, corona, R1 and TV acitors.	noise, insulators,
1)	ted courses: Include in 2) 5)	nitials of Dept. Cha 3) 6)	air, if signature is not	already included below.
4) Department Cl	O) 1 . (ucha	S)gnature)	Date: <u>l0/(5/(2</u>
Discipline Spec	cific Curricula Committe	(Chair	signature) Signature)	Date: <u>/ ひ~ みら</u> え/ひ Date: <u>/ 2/タ/</u> タ

(Revised 10/12/2010)

From: 573 341 4362 FROM: ECONOMICS - MST Page: 25/25

Date: 12/7/2012 1:06:32 PM

Department: Mining and Nuclear Engineering

Discipline and Course Number: MIN 301

Course Title: Mining Industry Economics II

Abbreviated Title (24 spaces or less): Min Ind Economics II

Instructor(s): Stewart Gillies

Credit Hours: Lecture: 3 Lab: O Total: 3

Prerequisites: Econ 121 Micro Economics (3 credits)

plus the course MinE 270 Mining Industry Economics (3 credits)

Sheets

Semester(s) previously taught:

Brief Course Description: (40 words or less)

Mining industry and national economies. Social and economic significance of mined commodities. Marketing of mined commodities. Mine financing, project loans, leasing and innovative approaches to mine financing. Mining feasibility studies, government influence and policy, mining industry foreign investment, investment strategies, mining taxation and cost prediction. Case studies.

10/19/12

(Revised 10/12/2010)