

# Missouri University of Science and Technology

Formerly University of Missouri-Rolla

Minutes of the Campus Curricula Committee Meeting August 15, 2018 2:00pm, 106 Parker Hall (For Faculty Senate Meeting of September 13, 2018)

**Attendees:** Steve Raper, Petra Dewitt, Thomas Schuman, Barry Flachsbart, Ashok Midha, Katie Shannon, Kyle Perry and Kristy Giacomelli

The following curriculum forms were discussed and approved:

#### **Course Change Forms:**

0	
File: 879.1	BIO SCI 4333: Exercise Physiology
File: 4544	BIO SCI 4423: Introduction to Astrobiology
File: 247.1	CER ENG 3417: Characterization Of Inorganic Solids Laboratory
File: 2563.1	CER ENG 3517: The Engineering Design Process
File: 457.1	CER ENG 6040: Oral Examination
File: 2477.1	CHEM 1351: Accelerated General Chemistry
File: 1338.1	CHEM 6310: Principles Of Inorganic Chemistry
File: 130.1	CHEM 6311: Principles Of Inorganic Chemistry
File: 1105.1	CHEM 6421: Quantum Chemistry II
File: 2080.1	CHEM 6710: Advanced Nuclear Chemistry
File: 2426.1	CHEM 6830: Inorganic Polymers
File: 482.1	CHEM ENG 5096: Industrial Chemical Processes
File: 1414.1	CHEM ENG 5097: Intermediate Process Design
File: 1305.1	CHEM ENG 5160: Introduction to Molecular Modeling and Simulation
File: 1023.1	CHEM ENG 5180: Industrial Pollution Control
File: 4253.3	CHEM ENG 5230: Bioprocess Safety
File: 1382.1	CHEM ENG 5360: Pollution Prevention Via Process Engineering
File: 415.1	CHEM ENG 5370: Intermediate Process Dynamics And Control
File: 696.1	CHEM ENG 5380: Intermediate Separation Processes
File: 442.1	CHEM ENG 6130: Advanced Chemical Reactor Design
File: 2031.1	CHEM ENG 6160: Advanced Chemical Process Design
File: 376.1	CHEM ENG 6170: Advanced Fluid Flow
File: 1122.1	CHEM ENG 6320: Plasma Polymerization
File: 2314.1	CHEM ENG 6340: Philosophy of Scientific Research
File: 169.1	COMP ENG 6880: Advanced Topics in Robotics
File: 2551.1	ELEC ENG 6690: Topics in EMC and High Speed Digital Design
File: 168.1	ELEC ENG 6880: Advanced Topics in Robotics



## Missouri University of Science and Technology

Formerly University of Missouri-Rolla

File: 2297.1	ENG MGT 5314: Computer Integrated Manufacturing Systems
File: 628.1	ENG MGT 5413: Introduction To Intelligent Systems
File: 1275.1	ENG MGT 6311: Advanced Manufacturing Systems Integration
File: 1460.1	HISTORY 2210: European Diplomatic History 1814 – Present
File: 810.1	HISTORY 3120: Ancient Greece
File: 1377.3	HISTORY 3450: American Intellectual History II
File: 1585.1	MATH 3103: Matrix Algebra
File: 2602.1	MATH 3329: Elementary Differential Equations And Matrix Algebra
File: 1924.1	MATH 3940: Mathematical Software Applications In The Classroom
File: 1097.1	MATH 6425: Hilbert Space Structures And Methods For Application
File: 790.1	MATH 6426: Green'S Function Structures And Methods For Application
File: 78.1	MATH 6435: Calculus Of Variations I
File: 2075.1	MATH 6436: Calculus Of Variations II
File: 1820.1	MET ENG 6040: Oral Examination
File: 2589.1	MS&E 6040: Oral Examination
File: 704.1	PHYS ED 1500: Administration Of Interscholastic Athletics
File: 1512.1	PHYS ED 2300: Methods In Physical Education K-4
File: 1115.1	STAT 1116: Statistics For The Social Sciences II
File: 364.1	STAT 5120: Statistical Methods

#### **Degree Change Forms:**

File: 141.18	AE ENG-BS: Aerospace Engineering BS
File: 23.2	COGNEUR-MI: Cognitive Neuroscience Minor
File: 72.3	I/O PSY-MI: Indus/Organization Psych Minor

#### **Experimental Course Forms:**

File: 4543	MATH 6001.003: Mathematical Foundation of Finite Element Methods II
E:1 4E 40	DET ENG 4004 004 D :!!!

File: 4549 PET ENG 4001.004: Drilling Automation

#### The following form was tabled:

File: 124.3 PSY LEA-MI: Psychol of Leadership - Minor

AY 2018-2019 Course Curricula meeting dates were discussed and approved; meetings were set at Wednesdays, 9am – 10:30am and an additional meeting on December 5, 2018 was added to support the submission of EC forms for Spring 2019.

CER ENG 3417 and CER ENG 3517 course deactivations were retracted and will remain active courses.



# Missouri University of Science and Technology

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The meeting adjourned at 2:25pm.

Stephen A. Raper, Chair Missouri S&T Campus Curricula Committee

A deleted record car		
	Course Deactivation Proposal	In Workflow
Date Submitted: 06/	07/18 1:43 pm	1. RBIOLSCI Chair
Viewing: BIO SO	CI 4333 : Exercise Physiology	2. CCC Secretary
File: 879.1		3. Sciences DSCC
Last edit: 08/15/18	3 2:35 pm	Chair
Changes proposed b	y: tibbettsmg	4. Pending CCC
Requested	Spring 2019 <del>08/01/2014</del>	Agenda post
Effective Change		5. CCC Meeting Agenda
Date		6. Campus Curricula
Department	Biological Sciences	Committee Chair
Discipline	Biological Sciences (BIO SCI)	7. FS Meeting
•		Agenda
Course Number	4333	8. Faculty Senate
Title	Exercise Physiology	Chair
Abbreviated	Exercise Physiology	9. Registrar
Course Title		<ol> <li>CAT entry</li> <li>Peoplesoft</li> </ol>
Catalaa		11. Feoplesoft
Catalog Description	Covers cardiovascular, pulmonary, and metabolic responses to aerobic and anaerobic muscular activities, work capacities, nutritional factors in performance,	A managed Doth
Description	and role of exercise in health.	Approval Path
Dunnanisitas		1. 06/08/18 8:20 an David Duvernell
Prerequisites	Bio Sci 1113 or Bio Sci 1213.	(duvernelld):
Field Trip		Approved for
Statement		RBIOLSCI Chair
Credit Hours	LEC: 3 LAB: 0 IND: 0 RSD: 0 Total: 3	2. 06/08/18 1:44 pr
Required for	No	Brittany Parnell
Majors		(ershenb):
Elective for	No	Approved for CCC
Majors	NO	Secretary
iviajoi3		3. 06/11/18 10:22
Justification for	Elimination of courses not taught in 10 or more years per Registrar.	am
change:		Katie Shannon
Semesters		(shannonk): Approved for
previously		Sciences DSCC
offered as an		Chair
experimental		4. 07/06/18 11:16
course		am
Co-Listed		Brittany Parnell
Courses:		(ershenb):
Causes B. :		Approved for
Course Reviewer Comments		Pending CCC
Comments	N. COM	Agenda post
	Key: 879	5. 08/15/18 2:36 pr Brittany Parnell
		(ershenb):
		Approved for CCC
		Meeting Agenda

6. 08/15/18 3:23 pm Stephen Raper (sraper): Approved for Campus Curricula Committee Chair

	New Course Proposal	In Workflow
Date Submitted: 05,	/02/18 2:58 pm	1. RBIOLSCI Chair
Viewing: BIO S	CI 4423 : Introduction to Astrobiology	2. CCC Secretary
File: 4544		3. Sciences DSCC
Last edit: 08/15/1	8 2:39 pm	Chair
Changes proposed b		4. Pending CCC
Requested	Spring 2019	Agenda post
Effective Change		5. CCC Meeting
Date		Agenda
Department	Biological Sciences	6. Campus Curricula Committee Chair
•		7. FS Meeting
Discipline	Biological Sciences (BIO SCI)	Agenda
Course Number	4423	8. Faculty Senate
Title	Introduction to Astrobiology	Chair
Abbreviated	Intro Astrobio	9. Registrar
Course Title		10. CAT entry
		11. Peoplesoft
Catalog	An overview of the origins of life on early earth and the possibility of life on	
Description	extraterrestrial bodies will be examined in this course through lectures and journal articles. The techniques that astrobiologists use to investigate the possibility of life	Approval Path
	beyond earth will be explored. Assessment will be based on exam performance and	1. 05/02/18 4:02 pm
	participation in class.	David Duvernell
Draraguisitas	Bio Sci 2213 or Bio Sci 3313.	(duvernelld): Approved for
Prerequisites	BIO 3CI 2213 OF BIO 3CI 3313.	RBIOLSCI Chair
Field Trip		2. 05/03/18 11:07
Statement		am
Credit Hours	LEC: 3 LAB: 0 IND: 0 RSD: 0 Total: 3	Brittany Parnell
Required for	No	(ershenb):
Majors		Approved for CCC
Elective for	Yes	Secretary
Majors		3. 06/11/18 10:18 am
Land Continue for	This is the conductor of the continue of the c	Katie Shannon
Justification for	This is the undergraduate section of the previously approved graduate course BIO SCI 6423. It has been taught twice as 3001	(shannonk):
new course:		Approved for
Semesters	taught officially as a 3001 course in 2015 (18 students) and 2012. In addition,	Sciences DSCC
previously offered as an	undergraduate students also signed up for it in 2007, 2009, and 2011 as a 300	Chair
experimental	course	4. 07/06/18 11:16
course	Spring 2015 enrollment - 18	am
	Spring 2012 enrollment - 7	Brittany Parnell
Co-Listed		(ershenb): Approved for
Co-Listed Courses:		Pending CCC
		Agenda post
Course Reviewer	ershenb (08/15/18 2:39 pm): added "Bio Sci" to "3313" in prereq. Added	5. 08/15/18 2:39 pm
Comments	"possibility" to catalog description.	Brittany Parnell
	Key: 4544	(ershenb):
		Approved for CCC
		Meeting Agenda

6. 08/15/18 3:23 pm Stephen Raper (sraper): Approved for Campus Curricula Committee Chair

A deleted record car	not be edited	
	Course Deactivation Proposal	In Workflow
Date Submitted: 06/	06/18 4:07 pm	1. RMATSENG Chair
Viewing: <b>CER E</b> l	NG 6040: Oral Examination	2. CCC Secretary
File: 457.1		3. Engineering DSCC
Last edit: 08/15/18	3 2:50 nm	Chair
Changes proposed b		4. Pending CCC
	Spring 2019 <del>08/01/2014</del>	Agenda post
Requested Effective Change	3pmig 2013 <del>00/01/2014</del>	5. CCC Meeting
Date		Agenda
	Materials Science & Engineering	6. Campus Curricula
Department	Materials Science & Engineering	Committee Chair
Discipline	Ceramic Engineering (CER ENG)	7. FS Meeting Agenda
Course Number	6040	8. Faculty Senate
Title	Oral Examination	Chair
Abbreviated	Oral Examination	9. Registrar
Course Title	Oral Examination	10. CAT entry
Codisc Title		11. Peoplesoft
Catalog	After completion of all other program requirements, oral examinations for on-	
Description	campus M.S./Ph.D. students may be processed during intersession. Off-campus M.S.	Approval Path
	students must be enrolled in oral examination and must have paid an oral	1. 06/06/18 4:42 pm
	examination fee at the time of the defense/comprehensive examination (oral/	Greg Hilmas
	written). All other students must enroll for credit commensurate with uses made of facilities and/or faculties. In no case shall this be for less than three (3) semester	(ghilmas):
	hours for resident students.	Approved for
Barrer and State		RMATSENG Chair
Prerequisites		2. 06/07/18 9:01 am Brittany Parnell
Field Trip		(ershenb):
Statement		Approved for CCC
Credit Hours	LEC: 0 LAB: 0 IND: 0 RSD: 0 Total: 0	Secretary
Required for	No	3. 06/12/18 10:00
Majors		am
Elective for	No	Stephen Raper
Majors		(sraper):
		Approved for Engineering DSCC
Justification for	Elimination of courses that have not been taught for 10 or more years per Registrar.	Chair
change:		4. 07/06/18 11:16
Semesters		am
previously		Brittany Parnell
offered as an		(ershenb):
experimental course		Approved for
		Pending CCC
Co-Listed		Agenda post
Courses:		5. 08/15/18 2:50 pm Brittany Parnell
Course Reviewer		(ershenb):
Comments		Approved for CCC
		Key: 457 Meeting Agenda

6. 08/15/18 3:24 pm Stephen Raper (sraper): Approved for Campus Curricula Committee Chair

A deleted record car	nnot be edited	
	Course Deactivation Proposal	la Manifla
Date Submitted: 06/	/06/18 3:04 pm	In Workflow
Viewing: CHEM	l 1351 : Accelerated General Chemistry	1. RCHEMIST Chair
File: 2477.1	,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,,,,	2. CCC Secretary 3. Sciences DSCC
	0.2.52.55	Chair
Last edit: 08/15/1 Changes proposed b		4. Pending CCC
changes proposed b		Agenda post
Requested	Spring 2019 <del>08/01/2014</del>	5. CCC Meeting
Effective Change		Agenda
Date		6. Campus Curricula
Department	Chemistry	Committee Chair
Discipline	Chemistry (CHEM)	7. FS Meeting
Course Number	1351	Agenda
		8. Faculty Senate
Title	Accelerated General Chemistry	Chair  9. Registrar
Abbreviated	Accelerated Gen Chem	10. CAT entry
Course Title		11. Peoplesoft
Catalog	An accelerated version of Chem 1310, Chem 1319, and Chem 1320. Four lectures	11. Teopleson
Catalog Description	and three laboratory hours per week. Students who do not meet these entrance	Approval Dath
Description	requirements must take Chem 1310, 1319, & 1320.	Approval Path
Daniel and the second		1. 06/07/18 3:20 pm
Prerequisites	Preceded or accompanied by Chem 1100 or an equivalent training program	Philip Whitefield (pwhite):
	approved by S&T. A minimum score of 60 for the sum of the MMPT and the ACT N.  SCI. test scores with neither score below 27.	Approved for
	Sci. lest scores with heither score below 27.	RCHEMIST Chair
Field Trip		2. 06/08/18 8:12 am
Statement		Brittany Parnell
Credit Hours	LEC: 3 LAB: 1 IND: 0 RSD: 1 Total: 5	(ershenb):
Required for	No	Approved for CCC
Majors		Secretary
Elective for	No	3. 06/11/18 10:22
Majors		am
		Katie Shannon
Justification for	Elimination of courses that have not been taught for 10 or more years per Registrar	(shannonk):
change:		Approved for Sciences DSCC
Semesters		Chair
previously		4. 07/06/18 11:16
offered as an		am
experimental		Brittany Parnell
course		(ershenb):
Co-Listed		Approved for
Courses:		Pending CCC
Causes D. :		Agenda post
Course Reviewer		5. 08/15/18 2:52 pm
Comments		Brittany Parnell
	Key: 2477	(ershenb):
		Approved for CCC
		Meeting Agenda

6. 08/15/18 3:24 pm Stephen Raper (sraper): Approved for Campus Curricula Committee Chair

A deleted record car		
	Course Deactivation Proposal	In Workflow
Date Submitted: 06/ Viewing: <b>CHEM</b> File: 1338.1 Last edit: 08/15/1 Changes proposed b	6310 : Principles Of Inorganic Chemistry  3 2:53 pm	<ol> <li>RCHEMIST Chair</li> <li>CCC Secretary</li> <li>Sciences DSCC Chair</li> <li>Pending CCC</li> </ol>
Requested Effective Change Date	Spring 2019 <del>08/01/2014</del>	Agenda post 5. CCC Meeting Agenda 6. Campus Curricula
Department	Chemistry	Committee Chair
Discipline	Chemistry (CHEM)	7. FS Meeting
Course Number	6310	Agenda 8. Faculty Senate
Title	Principles Of Inorganic Chemistry	Chair
Abbreviated Course Title	Prin/Inorganic Chemistry	<ol> <li>9. Registrar</li> <li>10. CAT entry</li> <li>11. Peoplesoft</li> </ol>
Catalog Description	A systematic study of modern and theoretical inorganic chemistry, based on the periodic classification.	Approval Path
Prerequisites	Chem 2310, Chem 4310 and Chem 3420.	1. 06/07/18 3:20 pm
Field Trip Statement Credit Hours Required for Majors Elective for	LEC: 3	Philip Whitefield (pwhite): Approved for RCHEMIST Chair 2. 06/08/18 1:44 pm Brittany Parnell (ershenb): Approved for CCC
Majors  Justification for change:  Semesters previously offered as an experimental course  Co-Listed Courses:	Elimination of courses that have not been taught for 10 or more years per Registrar.	Secretary 3. 06/11/18 10:22 am Katie Shannon (shannonk): Approved for Sciences DSCC Chair 4. 07/06/18 11:16 am Brittany Parnell (ershenb):
Course Reviewer Comments		Approved for Pending CCC
	Ke	y: 1338 Agenda post 5. 08/15/18 2:53 pm Brittany Parnell (ershenb): Approved for CCC Meeting Agenda

6. 08/15/18 3:24 pm Stephen Raper (sraper): Approved for Campus Curricula Committee Chair

A deleted record car	nnot be edited	
	Course Deactivation Proposal	In Workflow
Date Submitted: 06/	06/18 3:28 pm	1. RCHEMIST Chair
Viewing: <b>CHEM</b>	6311 : Principles Of Inorganic Chemistry	2. CCC Secretary
File: 130.1		3. Sciences DSCC
Last edit: 08/15/1	8 2:54 pm	Chair
Changes proposed b	y: tibbettsmg	4. Pending CCC
Requested	Spring 2019 <del>08/01/2014</del>	Agenda post
Effective Change		5. CCC Meeting Agenda
Date		6. Campus Curricula
Department	Chemistry	Committee Chair
Discipline	Chemistry (CHEM)	7. FS Meeting
Course Number	6311	Agenda
		8. Faculty Senate
Title	Principles Of Inorganic Chemistry	Chair  9. Registrar
Abbreviated	Prin/Inorganic Chemistry	10. CAT entry
Course Title		11. Peoplesoft
Catalog	A continuation of Chem 6310 with special emphasis on the transitional elements.	l I
Description		Approval Path
Prerequisites	Chem 2310, Chem 4310 and Chem 6310.	1. 06/07/18 3:20 pm
Field Trip		Philip Whitefield
Statement		(pwhite):
Credit Hours	LEC: 3 LAB: 0 IND: 0 RSD: 0 Total: 3	Approved for RCHEMIST Chair
Required for	No	2. 06/08/18 1:44 pm
Majors		Brittany Parnell
Elective for	No	(ershenb):
Majors	NO	Approved for CCC
.,		Secretary
Justification for	Elimination of courses that have not been taught for 10 or more years per Registrar.	3. 06/11/18 10:22 am
change:		Katie Shannon
Semesters		(shannonk):
previously offered as an		Approved for
experimental		Sciences DSCC
course		Chair 4. 07/06/18 11:16
Co-Listed		am
Courses:		Brittany Parnell
		(ershenb):
Course Reviewer		Approved for
Comments		Pending CCC
		Key: 130 Agenda post 5. 08/15/18 2:54 pm
		Brittany Parnell
		(ershenb):
		Approved for CCC
		Meeting Agenda

6. 08/15/18 3:24 pm Stephen Raper (sraper): Approved for Campus Curricula Committee Chair

A deleted record car		
	Course Deactivation Proposal	In Workflow
Date Submitted: 06/		1. RCHEMIST Chair
Viewing: <b>CHEIV</b>	6421 : Quantum Chemistry II	2. CCC Secretary
File: 1105.1		3. Sciences DSCC
Last edit: 08/15/1		Chair
Changes proposed b	y: tibbettsmg	4. Pending CCC  Agenda post
Requested	Spring 2019 <del>08/01/2014</del>	5. CCC Meeting
Effective Change		Agenda
Date		6. Campus Curricula
Department	Chemistry	Committee Chair
Discipline	Chemistry (CHEM)	7. FS Meeting Agenda
Course Number	6421	8. Faculty Senate
Title	Quantum Chemistry II	Chair
Abbreviated	Quantum Chemistry II	9. Registrar
Course Title		10. CAT entry
Catalog	Atomic and molecular quantum mechanics. Emphasis on selfconsistent field,	11. Peoplesoft
Description	variational, and perturbation theories. Introduction to approximate methods.	Approval Path
Prerequisites	Chem 3420 or equivalent.	1. 06/07/18 3:20 pr
·	onem 3 120 on equivalent.	Philip Whitefield
Field Trip Statement		(pwhite):
Credit Hours	LEC: 3 LAB: 0 IND: 0 RSD: 0 Total: 3	Approved for
		RCHEMIST Chair
Required for Majors	No	2. 06/08/18 1:45 pr Brittany Parnell
-		(ershenb):
Elective for Majors	No	Approved for CCC
iviajois		Secretary
Justification for	Elimination of courses that have not been taught for 10 or more years per Registrar.	3. 06/11/18 10:22
change:		am Katie Shannon
Semesters		(shannonk):
previously		Approved for
offered as an experimental		Sciences DSCC
course		Chair
Co-Listed		4. 07/06/18 11:17 am
Courses:		Brittany Parnell
		(ershenb):
Course Reviewer		Approved for
Comments	Key: 11	Pending CCC Agenda post
	кеу: ш	5. 08/15/18 2:55 pr
		Brittany Parnell
		(ershenb):
		Approved for CCC
		Meeting Agenda

6. 08/15/18 3:24 pm Stephen Raper (sraper): Approved for Campus Curricula Committee Chair

A deleted record car	not be edited	
	Course Deactivation Proposal	
Date Submitted: 06/	06/18 3:29 pm	In Workflow
Viewing: CHEM	6710 : Advanced Nuclear Chemistry	1. RCHEMIST Chair
File: 2080.1		2. CCC Secretary 3. Sciences DSCC
	2.200	Chair
ast edit: 08/15/18		4. Pending CCC
Changes proposed b		Agenda post
Requested	Spring 2019 <del>08/01/2014</del>	5. CCC Meeting
Effective Change		Agenda
Date		6. Campus Curricula
Department	Chemistry	Committee Chair
Discipline	Chemistry (CHEM)	7. FS Meeting
Course Number	6710	Agenda
Course Number	6710	8. Faculty Senate
Title	Advanced Nuclear Chemistry	Chair
Abbreviated	Adv Nuclear Chemistry	9. Registrar
Course Title		10. CAT entry
		11. Peoplesoft
Catalog	A study of the production and decay of nuclei, radioactive dating techniques, and	
Description	the abundance and origin of the chemical elements.	Approval Path
Prerequisites	Chem 371, Physics 2305 or 2311.	1. 06/07/18 3:20 pn
Field Trip		Philip Whitefield
Statement		(pwhite):
Credit Hours	LEC: 3 LAB: 0 IND: 0 RSD: 0 Total: 3	Approved for
		RCHEMIST Chair
Required for	No	2. 06/08/18 1:45 pn Brittany Parnell
Majors		(ershenb):
Elective for	No	Approved for CCC
Majors		Secretary
Justification for	Elimination of courses that have not been taught for 10 or more years per Registrar.	3. 06/11/18 10:23
change:	Elimination of courses that have not seen taught for 10 of more years per negistrar.	am
		Katie Shannon
Semesters		(shannonk):
previously offered as an		Approved for
experimental		Sciences DSCC
course		Chair
		4. 07/06/18 11:17
Co-Listed		am Brittany Parnell
Courses:		(ershenb):
Course Reviewer		Approved for
Comments		Pending CCC
	Key: 1	
		5. 08/15/18 3:00 pr
		Brittany Parnell
		(ershenb):
		Approved for CCC
		Meeting Agenda

6. 08/15/18 3:24 pm Stephen Raper (sraper): Approved for Campus Curricula Committee Chair

A deleted record car	nnot be edited					
	Course	Deactivation	n Proposa	al	I	In Monthless
Date Submitted: 06/	06/18 3:29 pm					In Workflow
Viewing: CHEM	6830 : Inorganic Po	lymers				1. RCHEMIST Chair
File: 2426.1		,,				2. CCC Secretary 3. Sciences DSCC
	2 2.07 nm					Chair
Last edit: 08/15/18 Changes proposed b						4. Pending CCC
changes proposed b						Agenda post
Requested	Spring 2019 <del>08/01/2014</del>					5. CCC Meeting
Effective Change						Agenda
Date						6. Campus Curricula
Department	Chemistry					Committee Chair
Discipline	Chemistry (CHEM)					7. FS Meeting
Course Number	6830					Agenda
						8. Faculty Senate
Title	Inorganic Polymers					Chair  9. Registrar
Abbreviated	Inorganic Polymers					10. CAT entry
Course Title						11. Peoplesoft
Catalog	A basic study of inorganic natur	al and synthetic r	oolymars thair	formation and		
Description	reactivity, their inherent proper		-			Approval Path
			01.01.00001.20010			
Prerequisites	Chem 2310 or equivalent.					1. 06/07/18 3:20 pr Philip Whitefield
Field Trip						(pwhite):
Statement						Approved for
Credit Hours	LEC: 3 LAB: 0	IND: 0	RSD: 0	Total: 3		RCHEMIST Chair
Required for	No					2. 06/08/18 1:45 pn
Majors						Brittany Parnell
Elective for	No					(ershenb):
Majors	NU					Approved for CCC
iviajoi3						Secretary
Justification for	Elimination of courses that have	e not been taught	for 10 or more	e years per Registrar.		3. 06/11/18 10:23
change:						am
Semesters						Katie Shannon
previously						(shannonk): Approved for
offered as an						Sciences DSCC
experimental						Chair
course						4. 07/06/18 11:17
Co-Listed						am
Courses:						Brittany Parnell
0 0 1						(ershenb):
Course Reviewer						Approved for
Comments						Pending CCC
					Key: 2426	Agenda post
						5. 08/15/18 3:08 pn
						Brittany Parnell
						(ershenb): Approved for CCC
						Meeting Agenda
						Wiccing Agenua

6. 08/15/18 3:24 pm Stephen Raper (sraper): Approved for Campus Curricula Committee Chair

A deleted record ca	nnot be edite	ed				
		Course Dead	ctivation Pro	oposal		In Workflow
Date Submitted: 06 Viewing: <b>CHEN</b> File: 482.1 Last edit: 08/15/1 Changes proposed	<b>1 ENG 5</b> (	096 : Indu	strial Cher	mical Proc	esses	<ol> <li>RCHEMENG Chair</li> <li>CCC Secretary</li> <li>Engineering DSCC Chair</li> <li>Pending CCC</li> </ol>
Other Courses referencing this course	In The Cata	alog Description:  O: Industrial Che				Agenda post  5. CCC Meeting  Agenda  6. Campus Curricula
Requested Effective Change Date		9 <del>08/01/2014</del>	-nginoori			7. FS Meeting Agenda 8. Faculty Senate Chair
Department		and Biochemical E				9. Registrar
Discipline		ingineering (CHE	M ENG)			<ul><li>10. CAT entry</li><li>11. Peoplesoft</li></ul>
Course Number	5096					11. Teopleson
Title	Industrial (	Chemical Process	es			Approval Path
Abbreviated Course Title	Industrial (	Chem Process				1. 06/07/18 3:02 pn Muthanna Al-
Catalog Description Detailed study or underlying chem Prerequisites Chem Eng 3130	istry, reactior	n pathways and s	eparation proces	ocesses including sses.		Dahhan (aldahhanm): Approved for RCHEMENG Chair 2. 06/08/18 1:45 pn Brittany Parnell (ershenb):
Field Trip Statement						Approved for CCC Secretary 3. 06/12/18 10:00
Credit Hours	LEC: 3	LAB: 0	IND: 0	RSD: 0	Total: 3	am Stanban Banar
Required for Majors	No					Stephen Raper (sraper): Approved for
Elective for Majors	No					Engineering DSC0 Chair 4. 07/06/18 11:17 am

Justification for	Brittany Parnell
change:	(ershenb):
Elimination of courses not taught in 10 or more years per Registrar.	Approved for
Semesters	Pending CCC
previously	Agenda post
offered as an	5. 08/15/18 3:09 pm
experimental	Brittany Parnell
course	(ershenb):
	Approved for CCC
	Meeting Agenda
Co-Listed Co-Listed	6. 08/15/18 3:24 pm
Courses:	Stephen Raper
CHEM 5250 - Industrial Chemical Processes	(sraper):
Course Reviewer	Approved for
	Campus Curricula
Comments	Committee Chair
Key: 482	

A deleted record car		
	Course Deactivation Proposal	In Workflow
Date Submitted: 06/	/07/18 1:49 pm	1. RCHEMENG Chair
Viewing: CHEM	ENG 5097: Intermediate Process Design	2. CCC Secretary
File: 1414.1		3. Engineering DSCC
Last edit: 08/15/1	8 3:09 pm	Chair
Changes proposed b	y: tibbettsmg	4. Pending CCC
Requested	Spring 2019 <del>08/01/2014</del>	Agenda post
Effective Change		5. CCC Meeting Agenda
Date		6. Campus Curricula
Department	Chemical and Biochemical Engineering	Committee Chair
Discipline	Chemical Engineering (CHEM ENG)	7. FS Meeting
•		Agenda
Course Number	5097	8. Faculty Senate
Title	Intermediate Process Design	Chair
Abbreviated	Intermediate Process Dsg	<ol><li>9. Registrar</li><li>10. CAT entry</li></ol>
Course Title		11. Peoplesoft
Catalog	Study of newer unit operations, fluidization, chromatographic absorption, new	
Description	developments in operations previously studied. Comparison of operations which	Approval Path
	might be selected for the same end result in an industrial process.	1. 06/07/18 3:25 pm
Prerequisites	Chem Eng 3130 or graduate standing.	Muthanna Al-
Field Trip		Dahhan
Statement		(aldahhanm):
Credit Hours	LEC: 3 LAB: 0 IND: 0 RSD: 0 Total: 3	Approved for
		RCHEMENG Chair
Required for	No	2. 06/08/18 1:45 pm Brittany Parnell
Majors		(ershenb):
Elective for	No	Approved for CCC
Majors		Secretary
Justification for	Elimination of courses not taught in 10 or more years per Registrar.	3. 06/12/18 10:00
change:		am
Semesters		Stephen Raper (sraper):
previously		Approved for
offered as an		Engineering DSCC
experimental		Chair
course		4. 07/06/18 11:17
Co-Listed		am
Courses:		Brittany Parnell
Course Reviewer		(ershenb): Approved for
Comments		Pending CCC
	Key: 1414	Agenda post
		5. 08/15/18 3:10 pm
		Brittany Parnell
		(ershenb):

Approved for CCC Meeting Agenda 6. 08/15/18 3:24 pm Stephen Raper (sraper): Approved for Campus Curricula Committee Chair

A deleted record cannot be edited

### **Course Deactivation Proposal**

Date Submitted: 06/07/18 1:49 pm

**Viewing: CHEM ENG 5160: Introduction to Molecular Modeling** 

### and Simulation

File: 1305.1

Last edit: 08/15/18 3:10 pm Changes proposed by: tibbettsmg

Requested Spring 2019 08/01/2014

Effective Change

Date

Department Chemical and Biochemical Engineering

Discipline Chemical Engineering (CHEM ENG)

Course Number 5160

Title Introduction to Molecular Modeling and Simulation

Abbreviated Intro Molecular Modeling

Course Title

In Workflow

1. RCHEMENG Chair

2. CCC Secretary

3. Engineering DSCC Chair

Pending CCC Agenda post

5. CCC Meeting
Agenda

6. Campus Curricula Committee Chair

7. FS Meeting Agenda

8. Faculty Senate

Chair

9. Registrar

10. CAT entry

11. Peoplesoft

Catalog

Description

An introduction to the concepts of molecular-based modeling and simulations, their connections to other engineering approaches and their role in multiscale modeling. Major methodologies such as molecular dynamics and lattice and off-lattice Monte Carlo, and special case studies are discussed.

LAB: 0

Prerequisites

Chem Eng 3160.

Field Trip Statement

Credit Hours

LEC: 3

Required for No

Majors

Elective for No

Majors

Justification for

change:

Approval Path

1. 06/07/18 3:25 pm Muthanna Al-

Dahhan

(aldahhanm):

Approved for

RCHEMENG Chair

2. 06/08/18 1:45 pm

Brittany Parnell

(ershenb):

Approved for CCC

Secretary

3. 06/12/18 10:00

am

Stephen Raper

(sraper):

Approved for

**Engineering DSCC** 

Chair

4. 07/06/18 11:17

am

IND: 0

RSD: 0

Total: 3

Elimination of courses not taught in 10 or more years per Registrar.  Semesters previously offered as an experimental course  Co-Listed Courses:	Brittany Parnell (ershenb): Approved for Pending CCC Agenda post 5. 08/15/18 3:10 pm Brittany Parnell (ershenb): Approved for CCC Meeting Agenda
Course Reviewer Comments  Key: 1305	6. 08/15/18 3:24 pm Stephen Raper (sraper): Approved for Campus Curricula Committee Chair

A deleted record ca	nnot be edited	
	Course Deactivation Proposal	
Date Submitted: 06	/07/18 1:49 pm	In Workflow  1. RCHEMENG Chair
Viewing: CHEM ENG 5180 : Industrial Pollution Control		
File: 1023.1		2. CCC Secretary 3. Engineering DSCC
_ast edit: 08/15/1	.8 3:10 pm	Chair
Changes proposed l		4. Pending CCC
Requested	Spring 2019 <del>08/01/2014</del>	Agenda post
Effective Change		5. CCC Meeting
Date		Agenda 6. Campus Curricula
Department	Chemical and Biochemical Engineering	Committee Chair
Discipline	Chemical Engineering (CHEM ENG)	7. FS Meeting
Course Number	5180	Agenda
		8. Faculty Senate
Title	Industrial Pollution Control	Chair  9. Registrar
Abbreviated	Ind Pollution Control	10. CAT entry
Course Title		11. Peoplesoft
Catalog	The study of water, air, and thermal pollution control methods and the application	
Description	of these methods to the solution of pollution problems in the chemical industry.	Approval Path
Prerequisites	Chem Eng 3130 or graduate standing.	1. 06/07/18 3:25 pr
Field Trip		Muthanna Al-
Statement		Dahhan
Credit Hours	LEC: 3 LAB: 0 IND: 0 RSD: 0 Total: 3	(aldahhanm):
		Approved for RCHEMENG Chair
Required for Majors	No	2. 06/08/18 1:45 pr
-		Brittany Parnell
Elective for	No	(ershenb):
Majors		Approved for CCC
Justification for	Elimination of courses not taught in 10 or more years per Registrar.	Secretary
change:		3. 06/12/18 10:00
Semesters		am Stephen Raper
previously		(sraper):
offered as an		Approved for
experimental		Engineering DSCO
course		Chair
Co-Listed		4. 07/06/18 11:17
Courses:		am Brittany Parnell
Course Reviewer		(ershenb):
Comments		Approved for
	Key: 1023	Pending CCC
		Agenda post
		5. 08/15/18 3:10 pr
		Brittany Parnell (ershenb):

Approved for CCC Meeting Agenda 6. 08/15/18 3:24 pm Stephen Raper (sraper): Approved for Campus Curricula Committee Chair

A deleted record cannot be edited **Course Deactivation Proposal** In Workflow Date Submitted: 06/07/18 1:52 pm 1. RCHEMENG Chair **Viewing: CHEM ENG 5230: Bioprocess Safety** 2. CCC Secretary File: 4253.3 3. Engineering DSCC Last approved: 05/24/16 4:57 am 4. Pending CCC Last edit: 08/15/18 3:11 pm Agenda post Changes proposed by: tibbettsmg 5. CCC Meeting Requested **Spring 2019 Fall 2016** Agenda **Effective Change** 6. Campus Curricula Date **Committee Chair** 7. FS Meeting Department Chemical and Biochemical Engineering Agenda Discipline Chemical Engineering (CHEM ENG) 8. Faculty Senate Course Number 5230 Chair 9. Registrar Title **Bioprocess Safety** 10. CAT entry Abbreviated **Bioprocess Safety** 11. Peoplesoft Course Title This course covers a risk assessment, biohazard containment and inactivation Approval Path Catalog practices, and other biosafety issues relevant to industrial bioprocessing. Description 1. 06/07/18 3:26 pm Considerations relating to the release of genetically modified organisms are also Muthanna Aldiscussed. Dahhan (aldahhanm): Prerequisites Graduate standing. Approved for Field Trip **RCHEMENG Chair** Statement 2. 06/08/18 1:45 pm Credit Hours LEC: 1 LAB: 0 IND: 0 RSD: 0 Total: 1 **Brittany Parnell** (ershenb): Required for No Approved for CCC Majors Secretary Elective for No 3. 06/12/18 10:00 Majors am Stephen Raper Justification for Elimination of courses not taught in 10 or more years per Registrar. (sraper): change: Approved for Semesters **Engineering DSCC** previously Chair offered as an 4. 07/06/18 11:17 experimental am course **Brittany Parnell** Co-Listed (ershenb): Approved for Courses: Pending CCC Course Reviewer Agenda post Comments 5. 08/15/18 3:11 pm Kev: 4253 **Brittany Parnell** (ershenb):

Approved for CCC Meeting Agenda 6. 08/15/18 3:24 pm Stephen Raper (sraper): Approved for Campus Curricula Committee Chair

#### History

1. May 24, 2016 by marlene

A deleted record cannot be edited **Course Deactivation Proposal** In Workflow Date Submitted: 06/07/18 1:50 pm 1. RCHEMENG Chair **Viewing: CHEM ENG 5360: Pollution Prevention Via Process Engineering** 2. CCC Secretary File: 1382.1 3. Engineering DSCC Last edit: 08/15/18 3:12 pm 4. Pending CCC Changes proposed by: tibbettsmg Agenda post Requested Spring 2019 08/01/2014 5. CCC Meeting **Effective Change** Agenda Date 6. Campus Curricula Department Chemical and Biochemical Engineering **Committee Chair** 7. FS Meeting Discipline Chemical Engineering (CHEM ENG) Agenda Course Number 8. Faculty Senate Title Pollution Prevention Via Process Engineering Chair 9. Registrar Abbreviated Pollut Prev Via Proc Eng 10. CAT entry Course Title 11. Peoplesoft Catalog To arrive at environmentally benign process design, each processing system will be Description considered as an inter-connection of elementary units. Systematic methods Approval Path capitalizing on synergistic process integrations will be employed. Linear, nonlinear 1. 06/07/18 3:26 pm and integer optimization, mass/heat exchange networks, and reactor and reaction Muthanna Alnetworks will be used. Dahhan Chem Eng 3130 or graduate standing. (aldahhanm): Prerequisites Approved for Field Trip **RCHEMENG Chair** Statement 2. 06/08/18 1:46 pm Credit Hours LEC: 3 LAB: 0 IND: 0 RSD: 0 Total: 3 Brittany Parnell (ershenb): Required for No Approved for CCC Majors Secretary Elective for No 3. 06/12/18 10:00 Majors am Stephen Raper Justification for Elimination of courses not taught in 10 or more years per Registrar. (sraper): change: Approved for Semesters **Engineering DSCC** previously Chair offered as an 4. 07/06/18 11:17 experimental am course **Brittany Parnell** Co-Listed (ershenb): Courses: Approved for Pending CCC Course Reviewer Agenda post Comments 5. 08/15/18 3:12 pm Key: 1382 **Brittany Parnell** (ershenb):

Approved for CCC Meeting Agenda 6. 08/15/18 3:24 pm Stephen Raper (sraper): Approved for Campus Curricula Committee Chair

A deleted record ca		
	Course Deactivation Proposal	In Workflow
Date Submitted: 06, Viewing: <b>CHEN</b>	/07/18 1:50 pm  I ENG 5370 : Intermediate Process Dynamics And Control	RCHEMENG Chai     CCC Secretary
File: 415.1		3. Engineering DSCC
Last edit: 08/15/1	8 3:12 pm	Chair
Changes proposed b	py: tibbettsmg	4. Pending CCC
Programs referencing this	PROPOSED: Undergraduate Certificate in Automation  Engineering	Agenda post 5. CCC Meeting Agenda
course		6. Campus Curricula  Committee Chair
Requested Effective Change Date	Spring 2019 <del>08/01/2014</del>	<ul><li>7. FS Meeting     Agenda</li><li>8. Faculty Senate</li></ul>
Department	Chemical and Biochemical Engineering	Chair O Rogistrar
Discipline	Chemical Engineering (CHEM ENG)	<ol> <li>Registrar</li> <li>CAT entry</li> </ol>
Course Number	5370	11. Peoplesoft
Title	Intermediate Process Dynamics And Control	Approval Path
Abbreviated Course Title	Int Process Control	1. 06/07/18 3:26 pm Muthanna Al-
Catalog Description	A study of the dynamic properties of engineering operations and the interrelationships which result when these operations are combined into processes. Formulation of equations to describe open-loop and closed-loop systems.	Dahhan (aldahhanm): Approved for RCHEMENG Chair
Prerequisites	Chem Eng 3130 or graduate standing.	2. 06/08/18 1:46 pm
Field Trip Statement		Brittany Parnell (ershenb):
Credit Hours	LEC: 3 LAB: 0 IND: 0 RSD: 0 Total: 3	Approved for CCC
Required for Majors	No	Secretary 3. 06/12/18 9:59 am Stephen Raper
Elective for Majors	No	(sraper): Rollback to CCC Secretary for Engineering
Justification for change:	Elimination of courses not taught in 10 or more years per Registrar.	DSCC Chair 4. 06/12/18 10:11
Semesters previously offered as an experimental course		am Brittany Parnell (ershenb): Approved for CCC Secretary 5. 06/12/18 10:15
Co-Listed Courses:		am Stephen Raper
Course Reviewer Comments	sraper (06/12/18 9:59 am): Rollback: This course is a part of an undergraduate certificate with EE.	(sraper): Approved for

Engineering DSCC Chair

- 6. 07/06/18 11:17 am Brittany Parnell (ershenb): Approved for Pending CCC Agenda post
- 7. 08/15/18 3:12 pm Brittany Parnell (ershenb): Approved for CCC Meeting Agenda
- 8. 08/15/18 3:24 pm Stephen Raper (sraper): Approved for Campus Curricula Committee Chair

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	Course Deactivation Proposal	In Workflow
ate Submitted: 06	/07/18 1:50 pm	1. RCHEMENG Chair
iewing: <b>CHEN</b>	I ENG 5380 : Intermediate Separation Processes	2. CCC Secretary
ile: 696.1		3. Engineering DSCC
ast edit: 08/15/1	8 3:13 pm	Chair
hanges proposed l		4. Pending CCC
Requested	Spring 2019 <del>08/01/2014</del>	Agenda post
Effective Change		5. CCC Meeting
Date		Agenda 6. Campus Curricula
Department	Chemical and Biochemical Engineering	Committee Chair
Discipline	Chemical Engineering (CHEM ENG)	7. FS Meeting
•		Agenda
Course Number	5380	8. Faculty Senate
Title	Intermediate Separation Processes	Chair
Abbreviated	Int Separation Processes	9. Registrar
Course Title		<ol> <li>CAT entry</li> <li>Peoplesoft</li> </ol>
Catalog	Fundamentals of separation operations such as extraction and distillation; rates of	11. Teoplesort
Catalog  Description	diffusion in equilibrium stages and continuous contactors; efficiencies; multistage	Approval Path
	contactors; performance of equipment; phase equilibrium data; multicomponent	1. 06/07/18 3:27 pm
	separation.	Muthanna Al-
Prerequisites	Chem Eng 3130 or graduate standing.	Dahhan
·		(aldahhanm):
Field Trip Statement		Approved for
	150.0	RCHEMENG Chair
Credit Hours	LEC: 3 LAB: 0 IND: 0 RSD: 0 Total: 3	2. 06/08/18 1:46 pm
Required for	No	Brittany Parnell
Majors		(ershenb): Approved for CCC
Elective for	No	Secretary
Majors		3. 06/12/18 10:00
Justification for	Elimination of courses not taught in 10 or more years per Registrar.	am
change:		Stephen Raper
Semesters		(sraper):
previously		Approved for
offered as an		Engineering DSCC Chair
experimental		4. 07/06/18 11:17
course		am
Co-Listed		Brittany Parnell
Courses:		(ershenb):
		Approved for
Course Reviewer		Pending CCC
Comments		Agenda post
	Keγ.696	0. 00, 10, 10 0.10 p
		Brittany Parnell

Approved for CCC
Meeting Agenda
6. 08/15/18 3:24 pm
Stephen Raper
(sraper):
Approved for
Campus Curricula
Committee Chair

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	Course Deactivation Proposal	In Workflow
Date Submitted: 06,	<sup>(</sup> 07/18 1:50 pm	1. RCHEMENG Chair
Viewing: <b>CHEM</b>	ENG 6130 : Advanced Chemical Reactor Design	2. CCC Secretary
File: 442.1		3. Engineering DSCC
Last edit: 08/15/1	8 3:13 pm	Chair
Changes proposed b	y: tibbettsmg	4. Pending CCC
Requested	Spring 2019 <del>08/01/2014</del>	Agenda post
Effective Change		5. CCC Meeting Agenda
Date		6. Campus Curricula
Department	Chemical and Biochemical Engineering	Committee Chair
Discipline	Chemical Engineering (CHEM ENG)	7. FS Meeting
		Agenda
Course Number	6130	8. Faculty Senate
Title	Advanced Chemical Reactor Design	Chair
Abbreviated	Adv Chemical Reactor Dsg	<ol> <li>Registrar</li> <li>CAT entry</li> </ol>
Course Title		11. Peoplesoft
Catalog	A study of homogeneous and heterogeneous reaction kinetics and catalysis with	
Description	special emphasis on effects of mixing in design and scale-up of chemical reactors.	Approval Path
Prerequisites		1. 06/07/18 3:27 pm
•		Muthanna Al-
Field Trip		Dahhan
Statement		(aldahhanm):
Credit Hours	LEC: 3 LAB: 0 IND: 0 RSD: 0 Total: 3	Approved for
Required for	No	RCHEMENG Chair
Majors		2. 06/08/18 1:46 pm
Elective for	No	Brittany Parnell (ershenb):
Majors		Approved for CCC
Justification for	Elimination of courses not taught in 10 or more years per Registrar.	Secretary
change:	Elimination of courses not taught in 10 of more years per Negistral.	3. 06/12/18 10:00
Semesters		am
previously		Stephen Raper
offered as an		(sraper):
experimental		Approved for
course		Engineering DSCC Chair
Co-Listed		4. 07/06/18 11:17
Courses:		am
		Brittany Parnell
Course Reviewer		(ershenb):
Comments		Approved for
	Key: 442	
		Agenda post
		5. 08/15/18 3:13 pm
		Brittany Parnell
		(ershenb):

Approved for CCC
Meeting Agenda
6. 08/15/18 3:24 pm
Stephen Raper
(sraper):
Approved for
Campus Curricula
Committee Chair

A deleted record car	nnot be edited	
	Course Deactivation Proposal	In Workflow
Date Submitted: 06/	07/18 1:51 pm	1. RCHEMENG Chair
Viewing: <b>CHEM</b>	ENG 6160 : Advanced Chemical Process Design	2. CCC Secretary
File: 2031.1		3. Engineering DSCC
Last edit: 08/15/18	3 3:13 pm	Chair
Changes proposed b		4. Pending CCC
Requested	Spring 2019 08/01/2014	Agenda post
Effective Change		5. CCC Meeting
Date		Agenda 6. Campus Curricula
Department	Chemical and Biochemical Engineering	Committee Chair
Discipline	Chemical Engineering (CHEM ENG)	7. FS Meeting
•		Agenda
Course Number	6160	8. Faculty Senate
Title	Advanced Chemical Process Design	Chair
Abbreviated	Adv Chemical Proc Dsgn	9. Registrar
Course Title		<ul><li>10. CAT entry</li><li>11. Peoplesoft</li></ul>
Catalan	The second and according to the deaf conserved and the state of the second according to	11. Peoplesort
Catalog Description	The use of advanced methods of economic, engineering, optimizing, and control techniques in planning, designing, and operating chemical process industries. Topics	A
Description	may be adjusted to include those of special interest or need in the above fields.	Approval Path
	may be adjusted to middle those of special interest of freed in the above fields.	1. 06/07/18 3:27 pm
Prerequisites		Muthanna Al- Dahhan
Field Trip		(aldahhanm):
Statement		Approved for
Credit Hours	LEC: 2 LAB: 1 IND: 0 RSD: 0 Total: 3	RCHEMENG Chair
Required for	No	2. 06/08/18 1:46 pn
Majors		Brittany Parnell
Elective for	No	(ershenb):
Majors	NO	Approved for CCC
		Secretary
Justification for	Elimination of courses not taught in 10 or more years per Registrar.	3. 06/12/18 10:00
change:		am Stephen Raper
Semesters		(sraper):
previously		Approved for
offered as an		Engineering DSCO
experimental		Chair
course		4. 07/06/18 11:17
Co-Listed		am
Courses:		Brittany Parnell
Course Berieves		(ershenb):
Course Reviewer Comments		Approved for
Comments	Key: 2031	Pending CCC
	Key: 2031	Agenda post 5. 08/15/18 3:14 pm
		Brittany Parnell
		(ershenb):

Approved for CCC Meeting Agenda 6. 08/15/18 3:24 pm Stephen Raper (sraper): Approved for Campus Curricula Committee Chair

A deleted record ca	nnot be edited	
	<b>Course Deactivation Proposal</b>	
Date Submitted: 06	/07/18 1:51 pm	In Workflow
Viewing: CHEN	I ENG 6170 : Advanced Fluid Flow	1. RCHEMENG Chair 2. CCC Secretary
File: 376.1		3. Engineering DSCC
Last edit: 08/15/1	8 3:14 pm	Chair
Changes proposed b		4. Pending CCC
Requested	Spring 2019 <del>08/01/2014</del>	Agenda post
Effective Change		5. CCC Meeting Agenda
Date		6. Campus Curricula
Department	Chemical and Biochemical Engineering	Committee Chair
Discipline	Chemical Engineering (CHEM ENG)	7. FS Meeting
Course Number	6170	Agenda
		8. Faculty Senate
Title	Advanced Fluid Flow	Chair  9. Registrar
Abbreviated	Advanced Fluid Flow	10. CAT entry
Course Title		11. Peoplesoft
Catalog	Fundamentals of Newtonian flow, non-Newtonian flow, flow through packed beds,	
Description	two phase flow, flow around submerged objects and other related topics.	Approval Path
	Fundamentals of statistical theory of turbulence, turbulence modeling for transport	1. 06/07/18 3:27 pm
	processes. Theories of turbulent diffusion associated with mixing.	Muthanna Al-
Prerequisites		Dahhan
Field Trip		(aldahhanm):
Statement		Approved for RCHEMENG Chair
Credit Hours	LEC: 3 LAB: 0 IND: 0 RSD: 0 Total: 3	2. 06/08/18 1:46 pm
Required for	No	Brittany Parnell
Majors		(ershenb):
Elective for	No	Approved for CCC
Majors		Secretary
		3. 06/12/18 10:00 am
Justification for change:	Elimination of courses not taught in 10 or more years per Registrar.	Stephen Raper
_		(sraper):
Semesters		Approved for
previously offered as an		Engineering DSCC
experimental		Chair 4. 07/06/18 11:17
course		4. 07/06/18 11:17
Co-Listed		Brittany Parnell
Courses:		(ershenb):
		Approved for
Comments		Pending CCC
Comments	Кеус	Agenda post
	neys.	5. 08/15/18 3:15 pm Brittany Parnell
		(ershenb):

Approved for CCC
Meeting Agenda
6. 08/15/18 3:24 pm
Stephen Raper
(sraper):
Approved for
Campus Curricula
Committee Chair

A deleted record ca	mot be cuited	
	Course Deactivation Proposal	In Workflow
Date Submitted: 06,	07/18 1:51 pm	
liewing: CHEN	ENG 6320 : Plasma Polymerization	1. RCHEMENG Chair 2. CCC Secretary
File: 1122.1		3. Engineering DSCO
	2.45	Chair
ast edit: 08/15/1		4. Pending CCC
Changes proposed b		Agenda post
Requested	Spring 2019 <del>08/01/2014</del>	5. CCC Meeting
Effective Change		Agenda
Date		6. Campus Curricula
Department	Chemical and Biochemical Engineering	Committee Chair
Discipline	Chemical Engineering (CHEM ENG)	7. FS Meeting
•		Agenda
Course Number	6320	8. Faculty Senate
Title	Plasma Polymerization	Chair
Abbreviated	Plasma Polymerization	9. Registrar
Course Title		10. CAT entry
		11. Peoplesoft
Catalog	Fundamental aspects of polymer formation in plasma (weakly ionized gas), and	
Description	properties of polymers formed by such a process are studied.	Approval Path
Prerequisites	Chem Eng 4710.	1. 06/07/18 3:27 pm
Field Trip		Muthanna Al-
Statement		Dahhan
Credit Hours	LEC: 3 LAB: 0 IND: 0 RSD: 0 Total: 3	(aldahhanm):
Credit Hours	LEC. 5 LAB. 0 IND. 0 NSD. 0 TOTAL 5	Approved for
Required for	No	RCHEMENG Chair
Majors		2. 06/08/18 1:46 pm Brittany Parnell
Elective for	No	(ershenb):
Majors		Approved for CCC
Luckification for	Elimination of accuracy matter which in 40 annual course are Deviation	Secretary
Justification for	Elimination of courses not taught in 10 or more years per Registrar.	3. 06/12/18 10:00
change:		am
Semesters		Stephen Raper
previously		(sraper):
offered as an		Approved for
experimental		Engineering DSCC
course		Chair
Co-Listed		4. 07/06/18 11:17
Courses:		am
Course Reviewer		Brittany Parnell
Comments		(ershenb): Approved for
	Key:	
	Mg -	Agenda post
		5. 08/15/18 3:15 pn
		Brittany Parnell
		(ershenb):

Approved for CCC Meeting Agenda 6. 08/15/18 3:25 pm Stephen Raper (sraper): Approved for Campus Curricula Committee Chair

A deleted record ca		
	Course Deactivation Proposal	In Workflow
Date Submitted: 06	1. RCHEMENG Chair	
Viewing: <b>CHEN</b>	I ENG 6340 : Philosophy of Scientific Research	2. CCC Secretary
File: 2314.1		3. Engineering DSCC
Last edit: 08/15/1	8 4:00 pm	Chair
Changes proposed I	py: tibbettsmg	4. Pending CCC
	In The Catalog Description:	Agenda post
Other Courses	CIV ENG 6940 : Philosophy of Scientific Research	5. CCC Meeting
referencing this	COMP ENG 6810 : Philosophy of Scientific Research	Agenda 6. Campus Curricula
course	ELEC ENG 6810 : Philosophy of Scientific Research	Committee Chair
	ENV ENG 6940 : Philosophy of Scientific Research	7. FS Meeting
		Agenda
Requested	Spring 2019 <del>08/01/2014</del>	8. Faculty Senate
Effective Change		Chair
Date		9. Registrar
Department	Chemical and Biochemical Engineering	10. CAT entry
Discipline	Chemical Engineering (CHEM ENG)	11. Peoplesoft
Course Number	6340	Approval Path
Title	Philosophy of Scientific Research	1. 06/07/18 3:27 pm
Abbreviated	Philos of Scientific Research	Muthanna Al-
Course Title		Dahhan
Catalog	Organization and planning of research. Introduction to the philosophy and	(aldahhanm):  Approved for
Description	management of scientific research, particularly issues related to ethics, plagiarism,	RCHEMENG Chair
, , , , , , , , , , , , , , , , , , ,	ownership of intellectual properties, research techniques, technical presentations	2. 06/08/18 1:46 pm
	and time management. The course will address these issues by integrating with case	Brittany Parnell
	studies.	(ershenb):
Prerequisites		Approved for CCC
		Secretary
Field Trip Statement		3. 06/12/18 10:00
		am Stankan Bassa
Credit Hours	LEC: 3 LAB: 0 IND: 0 RSD: 0 Total: 3	Stephen Raper (sraper):
Required for	No	Approved for
Majors		Engineering DSCC
Elective for	No	Chair
Majors		4. 07/06/18 11:17
Justification for	Elimination of courses not taught in 10 or more years per Registrar.	am
change:	Emiliation of courses not taught in 10 of more years per negistrar.	Brittany Parnell
		(ershenb):
Semesters previously		Approved for Pending CCC
offered as an		Agenda post
experimental		5. 08/15/18 4:00 pm
course		Brittany Parnell
Co-Listed	IDE 425 - Course Not Found	(ershenb):
CO LISTCU	CIV ENG 6940 - Philosophy of Scientific Research	

	ENV ENG 6940 - Philosophy of Scientific Research	Approved for CCC
	ELEC ENG 6810 - Philosophy of Scientific Research	Meeting Agenda
	COMP ENG 6810 - Philosophy of Scientific Research	6. 08/16/18 8:31 am
		Stephen Raper
Course Reviewer		(sraper):
Comments		Approved for
	Key: 23	Campus Curricula
		Committee Chair

A deleted record ca	innot be edite	ed				
		Course Dead	tivation Pro	oposal		In Workflow
Viewing: COMP ENG 6880 : Advanced Topics in Robotics File: 169.1 Last edit: 08/15/18 4:00 pm Changes proposed by: tibbettsmg					<ol> <li>RELECENG Chair</li> <li>CCC Secretary</li> <li>Engineering DSCC Chair</li> <li>Pending CCC</li> </ol>	
Other Courses referencing this course	In The Cat	alog Description: 6403 : Advanced	Topics in Roboti	<u>cs</u>		Agenda post 5. CCC Meeting Agenda 6. Campus Curricula Committee Chair
Requested Effective Change Date	Spring 201	9 <del>08/01/2014</del>				7. FS Meeting Agenda 8. Faculty Senate Chair
Department	Electrical a	and Computer Eng	gineering			9. Registrar
Discipline	Computer	Engineering (COI	MP ENG)			10. CAT entry
Course Number	6880					11. Peoplesoft
Title	Advanced	Topics in Robotic	S			
Abbreviated Course Title	Advanced	Topics in Robotic	S			Approval Path 1. 07/31/18 10:09 am
planning, robotic	system integ	copics in robotics, gration, and comp ding both written	outational intellig	gence topics for	th	Daryl Beetner (daryl): Approved for RELECENG Chair 2. 07/31/18 10:20 am Brittany Parnell
Prerequisites A "C" or better in	n either Comp	o Sci 5403 or Med	h Eng 5449 or Ae	ero Eng 5449.		(ershenb): Approved for CCC
Field Trip Statement						Secretary 3. 07/31/18 10:25 am
Credit Hours	LEC: 3	LAB: 0	IND: 0	RSD: 0	Total: 3	Stephen Raper (sraper):
Required for Majors	No					Approved for Engineering DSCC
Elective for Majors	No					Chair

Justification for	4.	07/31/18 10:30
change:		am
· ·		Brittany Parnell
Elimination of courses that have not been taught for 10 or more years per Registrar.		(ershenb):
Semesters		Approved for
previously		Pending CCC
offered as an		Agenda post
experimental	5.	. 08/15/18 4:01 pm
course		Brittany Parnell
		(ershenb):
Co-Listed Co-Listed		Approved for CCC
Courses:		Meeting Agenda
COMP SCI 6403 - Advanced Topics in Robotics	6.	. 08/16/18 8:31 am
ELEC ENG 6880 - Advanced Topics in Robotics		Stephen Raper
- Let a two oboo / www.need Topics in Nobolics	L	(sraper):
Course Reviewer		Approved for
Comments		Campus Curricula
Key: 169	-	Committee Chair
кеу. 105		Committee Chair

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	Course Deactivation Proposal	La Maralella
Date Submitted: 06/	06/18 3:46 pm	In Workflow
/iewing: <b>ELEC E</b>	NG 6690: Topics in EMC and High Speed Digital Design	<ol> <li>RELECENG Chair</li> <li>CCC Secretary</li> </ol>
File: 2551.1		3. Engineering DSC
ast edit: 08/15/18	8.4·01 nm	Chair
Changes proposed b		4. Pending CCC
		Agenda post
Requested Effective Change	Spring 2019 <del>08/01/2014</del>	5. CCC Meeting
Date		Agenda
		6. Campus Curricula
Department	Electrical and Computer Engineering	Committee Chair
Discipline	Electrical Engineering (ELEC ENG)	7. FS Meeting
Course Number	6690	Agenda
Title	Topics in EMC and High Speed Digital Design	8. Faculty Senate Chair
		9. Registrar
Abbreviated	Topics in EMC	10. CAT entry
Course Title		11. Peoplesoft
Catalog	This course will cover advanced topics in electromagnetic compatibility and high	
Description	speed digital design that are not traditionally covered in other courses. Topics will	Approval Path
	depend on the latest developments in the field and on student needs.	1. 07/31/18 10:09
Prerequisites	Elec Eng 3600.	am
Field Trip		Daryl Beetner
Statement		(daryl): Approved
		for RELECENG
Credit Hours	LEC: 3 LAB: 0 IND: 0 RSD: 0 Total: 3	Chair
Required for	No	2. 07/31/18 10:20
Majors		am
Elective for	No	Brittany Parnell (ershenb):
Majors		Approved for CCC
Justification for	Flindensking of courses that have not been been the first 10 or more years and Devictory	Secretary
change:	Elimination of courses that have not been taught for 10 or more years per Registrar.	3. 07/31/18 10:25
_		am
Semesters		Stephen Raper
previously offered as an		(sraper):
experimental		Approved for
course		Engineering DSCO
		Chair 4. 07/31/18 10:30
Co-Listed Courses:		4. 07/31/18 10:30 am
		Brittany Parnell
Course Reviewer		(ershenb):
Comments		Approved for
	Key: 2551	Pending CCC
		Agenda post
		5. 08/15/18 4:01 pr
		Brittany Parnell
		(ershenb):

Approved for CCC
Meeting Agenda
6. 08/16/18 8:31 am
Stephen Raper
(sraper):
Approved for
Campus Curricula
Committee Chair

A deleted record ca	nnot be edited	
	Course Deactivation Proposal	In Workflow
Date Submitted: 06	/06/18 3:46 pm	1. RELECENG Chair
/iewing: <b>ELEC</b>	2. CCC Secretary	
File: 168.1	·	3. Engineering DSC
ast edit: 08/15/1	8.4:01 pm	Chair
Changes proposed I		4. Pending CCC
silanges proposed i		Agenda post
Other Courses	In The Catalog Description:	5. CCC Meeting
referencing this	COMP SCI 6403 : Advanced Topics in Robotics	Agenda
course		6. Campus Curricula
		Committee Chair
Requested	Spring 2019 <del>08/01/2014</del>	7. FS Meeting
Effective Change		Agenda
Date		8. Faculty Senate Chair
Department	Electrical and Computer Engineering	9. Registrar
Discipline	Electrical Engineering (ELEC ENG)	10. CAT entry
		11. Peoplesoft
Course Number	6880	'
Title	Advanced Topics in Robotics	Approval Path
Abbreviated	Advanced Topics in Robotics	1. 07/31/18 10:10
Course Title		am
Catalog	This course covers advanced topics in robotics, including perception, robotic path	Daryl Beetner
Description	planning, robotic system integration, and computational intelligence topics for	(daryl): Approved
Description	robotics. A term project including both written and oral components will be	for RELECENG
	required.	Chair
Daniel de la constante de la c		2. 07/31/18 10:20
Prerequisites	A "C" or better in either Comp Sci 5403 or Mech Eng 5449 or Aero Eng 5449.	am
Field Trip		Brittany Parnell
Statement		(ershenb):
Credit Hours	LEC: 3 LAB: 0 IND: 0 RSD: 0 Total: 3	Approved for CCC
Required for	No	Secretary
Majors	NO	3. 07/31/18 10:25
,		am Stephen Raper
Elective for	No	(sraper):
Majors		Approved for
Justification for	Elimination of courses that have not been taught for 10 or more years per Registrar.	Engineering DSCC
change:		Chair
Semesters		4. 07/31/18 10:30
previously		am
offered as an		Brittany Parnell
experimental		(ershenb):
course		Approved for
Co-Listed	COMP SCI 6403 - Advanced Topics in Robotics	Pending CCC
Courses:	COMM SOLUTO PROVINCE TOPICS III NOSOCICS	Agenda post
Courses.		5. 08/15/18 4:01 pm
Course Reviewer		Brittany Parnell
Comments		(ershenb):

Approved for CCC
Meeting Agenda
6. 08/16/18 8:31 am
Stephen Raper
(sraper):
Approved for
Campus Curricula
Committee Chair

A deleted record car		
	Course Deactivation Proposal	In Workflow
Date Submitted: 06/ Viewing: <b>ENG N</b> File: 2297.1	/06/18 3:50 pm //GT 5314 : Computer Integrated Manufacturing Systems	1. RENGMNGT Chair 2. CCC Secretary
Last edit: 08/15/18 Changes proposed b		3. Engineering DSCO
Catalog Pages referencing this course	Civil, Architectural, and Environmental Engineering  Manufacturing Engineering	4. Pending CCC Agenda post 5. CCC Meeting Agenda
Requested Effective Change Date	Spring 2019 <del>08/01/2014</del>	6. Campus Curricula Committee Chair 7. FS Meeting Agenda
Department	Engineering Management and Systems Engineering	8. Faculty Senate Chair
Discipline	Engineering Management (ENG MGT)	9. Registrar
Course Number	5314	10. CAT entry
Title	Computer Integrated Manufacturing Systems	11. Peoplesoft
Abbreviated	Comp Integrated Mfg Syst	Approval Bath
Course Title	0.7	Approval Path 1. 06/06/18 3:52 pr
Catalog Description	Study of the design and use of computer-based integrated manufacturing management systems in the allocation and control of plant, equipment, manpower, and materials.	Suzanna Long (longsuz): Approved for
Prerequisites Field Trip Statement	Eng Mgt 3310.	RENGMNGT Chai 2. 06/06/18 4:05 pr Brittany Parnell (ershenb):
Credit Hours Required for Majors	LEC: 2 LAB: 1 IND: 0 RSD: 0 Total: 3 No	Approved for CCC Secretary 3. 06/12/18 10:00
Elective for Majors	No	Stephen Raper (sraper): Approved for
Justification for change:	Elimination of courses that have not been taught for 10 or more years per Registrar.	Engineering DSCC Chair
Semesters previously offered as an experimental course Co-Listed		4. 07/06/18 11:18  am  Brittany Parnell (ershenb):  Approved for Pending CCC Agenda post
Course Reviewer Comments		5. 08/15/18 4:02 pr Brittany Parnell (ershenb):

Approved for CCC Meeting Agenda 6. 08/16/18 8:32 am Stephen Raper (sraper): Approved for Campus Curricula Committee Chair

A deleted record car	nnot be edited	
	Course Deactivation Proposal	In Manifla
Date Submitted: 06,	'06/18 3:50 pm	In Workflow
/iewing: ENG N	AGT 5413: Introduction To Intelligent Systems	1. RENGMNGT Chair
File: 628.1	•	2. CCC Secretary
_ast edit: 08/15/1	8 4:03 pm	3. Engineering DSCC
Changes proposed b		Chair
Requested	Spring 2019 <del>08/01/2014</del>	4. Pending CCC
Effective Change		Agenda post
Date		5. CCC Meeting
Department	Engineering Management and Systems Engineering	Agenda 6. Campus Curricula
•		Committee Chair
Discipline	Engineering Management (ENG MGT)	7. FS Meeting
Course Number	5413	Agenda
Title	Introduction To Intelligent Systems	8. Faculty Senate
Abbreviated	Intro To Intelligent Sys	Chair
Course Title		9. Registrar
Catalan	to be advertised to the adverse of the allies of the adverse of th	10. CAT entry 11. Peoplesoft
Catalog Description	Introduction to the design of intelligent systems. Topics include: definitions of intelligence, rule-based expert systems, uncertainty management, fuzzy logic, fuzzy	11. Teoplesore
Description	expert systems, artificial neural networks, genetic algorithms and evolutionary	Approval Path
	computation, hybrid systems, and data mining.	
Prerequisites	Graduate or senior standing.	1. 07/30/18 11:43 am
•	Graduate of Selliof Stationing.	Suzanna Long
Field Trip		(longsuz):
Statement		Approved for
Credit Hours	LEC: 3 LAB: 0 IND: 0 RSD: 0 Total: 3	RENGMNGT Chair
Required for	No	2. 07/30/18 2:36 pm
Majors		Brittany Parnell
Elective for	No	(ershenb): Approved for CCC
Majors		Secretary
Justification for	Elimination of courses that have not been taught for 10 or more years per Registrar.	3. 07/30/18 3:17 pm
change:	Limination of courses that have not been taught for 10 or more years per negistrar.	Stephen Raper
_		(sraper):
Semesters previously		Approved for
offered as an		Engineering DSCC
experimental		Chair
course		4. 07/30/18 3:51 pm Brittany Parnell
Co-Listed		(ershenb):
Courses:		Approved for
		Pending CCC
Course Reviewer		Agenda post
Comments		5. 08/15/18 4:03 pm
	Key: 528	Brittary Farrier
		(ershenb): Approved for CCC
		Approved for CCC

6. 08/16/18 8:32 am Stephen Raper (sraper): Approved for Campus Curricula Committee Chair

A deleted record car	nnot be edited	
	Course Deactivation Proposal	In Workflow
Date Submitted: 06/	06/18 3:51 pm	1. RENGMNGT
Viewing: <b>ENG</b> N	AGT 6311: Advanced Manufacturing Systems Integration	Chair
File: 1275.1		2. CCC Secretary
Last edit: 08/15/1	8 4:04 pm	3. Engineering DSC
Changes proposed b	y: tibbettsmg	Chair
Requested	Spring 2019 <del>08/01/2014</del>	4. Pending CCC Agenda post
Effective Change		5. CCC Meeting
Date		Agenda
Department	Engineering Management and Systems Engineering	6. Campus Curricula
Discipline	Engineering Management (ENG MGT)	Committee Chair
Course Number	6311	7. FS Meeting Agenda
Title	Advanced Manufacturing Systems Integration	8. Faculty Senate
Abbreviated	Adv Manufact Sys Integra	Chair
Course Title	Auv Manuact Sys Integra	9. Registrar
		10. CAT entry
Catalog	The integration of new technology and information processing concepts for	11. Peoplesoft
Description	controlling the manufacturing systems. Advanced topics in computer integrated	
	manufacturing systems, industrial robots, CNC machine tools, programmable controllers, material handling systems, manufacturing planning and control.	Approval Path
Proroquisitos	onto one of the control of the contr	1. 07/30/18 11:43 am
Prerequisites		Suzanna Long
Field Trip Statement		(longsuz):
		Approved for
Credit Hours	LEC: 2 LAB: 1 IND: 0 RSD: 0 Total: 3	RENGMNGT Chai
Required for	No	2. 07/30/18 2:36 pr Brittany Parnell
Majors		(ershenb):
Elective for	No	Approved for CCC
Majors		Secretary
Justification for	Elimination of courses that have not been taught for 10 or more years per Registrar.	3. 07/30/18 3:17 pr
change:		Stephen Raper (sraper):
Semesters		Approved for
previously		Engineering DSC
offered as an experimental		Chair
course		4. 07/30/18 3:51 pr
Co-Listed		Brittany Parnell (ershenb):
Courses:		Approved for
		Pending CCC
Course Reviewer		Agenda post
Comments		5. 08/15/18 4:04 pr
	Key: 1275	Brittany Parnell (ershenb):
		Approved for CC
		Meeting Agenda

6. 08/16/18 8:32 am Stephen Raper (sraper): Approved for Campus Curricula Committee Chair

A deleted record car	nnot be edited	
	Course Deactivation Proposal	In Workflow
Date Submitted: 06/	/06/18 3:30 pm	1. RHISTORY Chair
/iewing: <b>HISTO</b>	RY 2210: European Diplomatic History 1814 - Present	2. CCC Secretary
ile: 1460.1		3. Arts &
ast edit: 08/15/1	8 4:04 pm	Humanities DSC
Changes proposed b	y: tibbettsmg	Chair
Requested	Spring 2019 <del>08/01/2014</del>	4. Pending CCC
Effective Change		Agenda post 5. CCC Meeting
Date		Agenda
Department	History and Political Science	6. Campus Curricula
Discipline	History (HISTORY)	Committee Chair
		7. FS Meeting
Course Number	2210	Agenda
Title	European Diplomatic History 1814 - Present	8. Faculty Senate
Abbreviated	Eur Dip Hist 1814 - Pres	Chair  9. Registrar
Course Title		10. CAT entry
Catalog	A survey of European Diplomatic History beginning with The Congress of Vienna to	11. Peoplesoft
Description	the present, including the Congress system, the Eastern Question, the shift to	
	realpolitik, the diplomatic origins and concluding conferences of the World Wars	Approval Path
	and Cold War diplomacy.	1. 06/07/18 6:49 ar
Prerequisites	History 1200.	sfogg: Approved
Field Trip		for RHISTORY
Statement		Chair
	LECCO LARGO INDEA DEDUCA Total O	2. 06/07/18 9:02 ar
Credit Hours	LEC: 3 LAB: 0 IND: 0 RSD: 0 Total: 3	Brittany Parnell
Required for	No	(ershenb): Approved for CC
Majors		Secretary
Elective for	No	3. 06/07/18 1:42 pr
Majors		Petra Dewitt
Justification for	Elimination of courses that have not been taught for 10 or more years per Registrar.	(dewittp):
change:		Approved for Art
Semesters		& Humanities  DSCC Chair
previously		4. 07/06/18 11:18
offered as an		am
experimental		Brittany Parnell
course		(ershenb):
Co-Listed		Approved for
Courses:		Pending CCC
Course Reviewer		Agenda post 5. 08/15/18 4:04 pr
Comments		Brittany Parnell
	Ke	(ershenb):
		Approved for CC
		Meeting Agenda

6. 08/16/18 8:32 am Stephen Raper (sraper): Approved for Campus Curricula Committee Chair

A deleted record car	nnot be edited	
	Course Deactivation Proposal	In Workflow
Date Submitted: 06/	/06/18 3:31 pm	1. RHISTORY Chair
/iewing: <b>HISTO</b>	ORY 3120 : Ancient Greece	2. CCC Secretary
File: 810.1		3. Arts &
ast edit: 08/15/1	8 4:04 pm	Humanities DSC
Changes proposed b	py: tibbettsmg	Chair
Requested	Spring 2019 <del>08/01/2014</del>	4. Pending CCC  Agenda post
Effective Change		5. CCC Meeting
Date		Agenda
Department	History and Political Science	6. Campus Curricul
Discipline	History (HISTORY)	Committee Chai
Course Number	3120	7. FS Meeting
Title	Ancient Greece	Agenda 8. Faculty Senate
		Chair
Abbreviated Course Title	Ancient Greece	9. Registrar
Course Title		10. CAT entry
Catalog	Aegean and Greek Civilization from Homeric times to the Roman Conquest of the	11. Peoplesoft
Description	Hellenic World. Designed for the student who wishes to understand the	İ
	fundamental conditions of classical life and to comprehend the ideas that inspired	Approval Path
	action. Emphasis will be on social, intellectual, political and religious aspects of the classical world.	1. 06/07/18 6:50 ai
Daniel College		sfogg: Approved
Prerequisites	History 1100.	for RHISTORY Chair
Field Trip		2. 06/07/18 9:03 ar
Statement		Brittany Parnell
Credit Hours	LEC: 3 LAB: 0 IND: 0 RSD: 0 Total: 3	(ershenb):
Required for	No	Approved for CC
Majors		Secretary 3. 06/07/18 1:43 pr
Elective for	No	Petra Dewitt
Majors		(dewittp):
Justification for	Elimination of courses that have not been taught for 10 or more years per Registrar.	Approved for Art
change:	, , ,	& Humanities
Semesters		DSCC Chair
previously		4. 07/06/18 11:18 am
offered as an		Brittany Parnell
experimental		(ershenb):
course		Approved for
Co-Listed		Pending CCC
Courses:		Agenda post 5. 08/15/18 4:05 pr
Course Reviewer	dewittp (06/07/18 1:43 pm): Changed effective date.	Brittany Parnell
Comments		(ershenb):
	Key: 811	
		Meeting Agend

6. 08/16/18 8:32 am Stephen Raper (sraper): Approved for Campus Curricula Committee Chair

A deleted record cannot be edited **Course Deactivation Proposal** In Workflow Date Submitted: 06/06/18 3:31 pm 1. RHISTORY Chair **Viewing: HISTORY 3450: American Intellectual History II** 2. CCC Secretary File: 1377.3 3. Arts & **Humanities DSCC** Last approved: 04/25/14 3:05 pm Chair Last edit: 08/15/18 4:05 pm 4. Pending CCC Changes proposed by: tibbettsmg Agenda post Requested Spring 2019 08/01/2014 5. CCC Meeting **Effective Change** Agenda Date 6. Campus Curricula **Committee Chair** Department History and Political Science 7. FS Meeting Discipline History (HISTORY) Agenda Course Number 3450 8. Faculty Senate American Intellectual History II Chair Title 9. Registrar Amer Intellctual Hist II Abbreviated 10. CAT entry Course Title 11. Peoplesoft The ideas of intellectuals and the thought of popular culture, and possible Catalog relationships between the two. Among the climates of opinion studied are the Description Approval Path Gilded Age, Darwinism, Progressivism, the Twenties, the Great Depression, the 1. 06/07/18 6:50 am Affluent Fifties, the Counter-Culture Sixties. sfogg: Approved for RHISTORY Prerequisites History 1310. Chair Field Trip 2. 06/07/18 9:04 am Statement **Brittany Parnell** Credit Hours LEC: 3 LAB: 0 IND: 0 RSD: 0 Total: 3 (ershenb): Approved for CCC Required for No Secretary Majors 3. 06/07/18 1:44 pm Elective for No Petra Dewitt Majors (dewittp): Approved for Arts Justification for Elimination of courses that have not been taught for 10 or more years per Registrar. & Humanities change: DSCC Chair Semesters 4. 07/06/18 11:18 previously am offered as an **Brittany Parnell** experimental (ershenb): course Approved for Co-Listed Pending CCC Agenda post Courses: 5. 08/15/18 4:05 pm dewittp (06/07/18 1:44 pm): Changed effective date. Course Reviewer **Brittany Parnell** Comments (ershenb): Kev: 1377 Approved for CCC Meeting Agenda

6. 08/16/18 8:32 am Stephen Raper (sraper): Approved for Campus Curricula Committee Chair

#### History

1. Apr 25, 2014 by lahne (1377.1)

A deleted record ca	nnot be edited	
	<b>Course Deactivation Proposal</b>	la Maddan
Date Submitted: 06	'08/18 9:39 am	In Workflow
Viewing: <b>MATH</b>	l 3103 : Matrix Algebra	1. RMATHEMA Chair
File: 1585.1	_	2. CCC Secretary
Last edit: 08/15/1	8 4:06 pm	3. Sciences DSCC
Changes proposed I	y: tibbettsmg	Chair
_	CP ENG-BS: Computer Engineering BS	4. Pending CCC
Programs		Agenda post 5. CCC Meeting
referencing this course		Agenda
	In The Decemberation	6. Campus Curricula
Other Courses	In The Prerequisites:  ECON 6310 : Advanced Mathematical Economics	Committee Chair
referencing this	MATH 5222 : Vector And Tensor Analysis	7. FS Meeting
course	MATH 6108 : Applied Matrix Theory	Agenda 8. Faculty Senate
		Chair
Requested	Spring 2019 <del>08/01/2014</del>	9. Registrar
Effective Change		<b>10.</b> CAT entry
Date		11. Peoplesoft
Department	Mathematics & Statistics	Approval Path
Discipline	Mathematics (MATH)	1. 06/08/18 9:49 ar
Course Number	3103	sclark: Approved
Title	Matrix Algebra	for RMATHEMA
Abbreviated	Matrix Algebra	Chair
Course Title		2. 06/08/18 1:47 pr  Brittany Parnell
Catalog	Matrix algebra is introduced by means of systems of linear algebraic equations.	
Description	Gaussian elimination, least squares solutions, orthogonalization, determinants,	
	eigenvalues and an introduction to vector spaces are discussed. Credit will not	
	given for both Math 3103 and 3108.	3. 06/11/18 10:23
Prerequisites	Math 2222 with a grade of "C" or better.	am Katie Shannon
Field Trip		(shannonk):
Statement		Approved for
Credit Hours	LEC: 3 LAB: 0 IND: 0 RSD: 0 Total: 3	Sciences DSCC
Required for	No	Chair
Majors		4. 07/06/18 11:19 am
Elective for	No	Brittany Parnell
Majors		(ershenb):
Justification for	Elimination of courses not taught in 10 or more years per Registrar.	Approved for
change:		Pending CCC Agenda post
Semesters		5. 08/15/18 4:06 pi
previously		Brittany Parnell
offered as an		(ershenb):
experimental		Approved for CC
course		Meeting Agenda

Co-Listed		6. 08/16/18 8:32 am
Courses:		Stephen Raper
		(sraper):
Course Reviewer		Approved for
Comments		Campus Curricula
	Key: 1585	Committee Chair

A deleted record cannot be edited

#### **Course Deactivation Proposal**

Date Submitted: 06/08/18 9:40 am

Viewing: MATH 3329: Elementary Differential Equations And

### **Matrix Algebra**

File: 2602.1

Last edit: 08/15/18 4:06 pm Changes proposed by: tibbettsmg

Requested Spring 2019 08/01/2014

Effective Change

Date

Department Mathematics & Statistics

Discipline Mathematics (MATH)

Course Number 3329

Title Elementary Differential Equations And Matrix Algebra

Abbreviated Elem Diff Eq & Matr Alge

Course Title

In Workflow

1. RMATHEMA Chair

2. CCC Secretary

3. Sciences DSCC

Chair

4. Pending CCC Agenda post

5. CCC Meeting Agenda

6. Campus Curricula Committee Chair

7. FS Meeting Agenda

8. Faculty Senate

Chair

9. Registrar

CAT entry
 Peoplesoft

Catalog

Description

This course is a combination of selected topics from Math 3103 and 3304. Solutions of linear differential equations and systems of linear algebraic equations are emphasized. Credit will not be given for both 3304 and 3329.

Prerequisites

Math 2222 with a grade of "C" or better.

Field Trip

Statement

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

Required for No

Majors

Elective for No

Majors

Justification for

change:

Elimination of courses not taught in 10 or more years per Registrar.

Approval Path

 06/08/18 9:50 am sclark: Approved for RMATHEMA Chair

Chair

Brittany Parnell (ershenb):
Approved for CCC

2. 06/08/18 1:47 pm

Secretary

3. 06/11/18 10:23

am

Katie Shannon (shannonk): Approved for Sciences DSCC

Chair

4. 07/06/18 11:19 am

**Brittany Parnell** 

	1	
Semesters		(ershenb):
previously		Approved for
offered as an		Pending CCC
experimental		Agenda post
course	5	5. 08/15/18 4:07 pm
		Brittany Parnell
Co-Listed		(ershenb):
		Approved for CCC
Courses:		Meeting Agenda
Course Reviewer	6	5. 08/16/18 8:32 am
Comments		Stephen Raper
		(sraper):
Key:	602	Approved for
		Campus Curricula
		Committee Chair
		Committee Chall

A deleted record cannot be edited **Course Deactivation Proposal** In Workflow Date Submitted: 06/08/18 9:40 am 1. RMATHEMA **Viewing: MATH 3940: Mathematical Software Applications In The Classroom** Chair File: 1924.1 2. CCC Secretary 3. Sciences DSCC Last edit: 08/15/18 4:07 pm Chair Changes proposed by: tibbettsmg 4. Pending CCC Requested Spring 2019 08/01/2014 Agenda post **Effective Change** 5. CCC Meeting Date Agenda Department Mathematics & Statistics 6. Campus Curricula **Committee Chair** Discipline Mathematics (MATH) 7. FS Meeting Course Number 3940 Agenda Title Mathematical Software Applications In The Classroom 8. Faculty Senate Chair Abbreviated Math Software Appl Class 9. Registrar Course Title CAT entry 11. Peoplesoft Students will be introduced to a variety of Mathematical Software applications, both Catalog Description PC and calculator based which will aid teachers in presenting concepts and in classroom management. Specific topics covered will be selected based on student Approval Path interest. 1. 06/08/18 10:20 Prerequisites Math 2222 and admission to the MST program. am sclark: Approved Field Trip for RMATHEMA Statement Chair **Credit Hours** LEC: 3 LAB: 0 IND: 0 RSD: 0 Total: 3 2. 06/08/18 1:47 pm **Brittany Parnell** Required for No (ershenb): Majors Approved for CCC Elective for No Secretary Majors 3. 06/11/18 10:23 am Justification for Elimination of courses not taught in 10 or more years per Registrar. Katie Shannon change: (shannonk): Semesters Approved for previously Sciences DSCC offered as an Chair experimental 4. 07/06/18 11:19 course am Co-Listed **Brittany Parnell** Courses: (ershenb): Approved for Course Reviewer Pending CCC Comments Agenda post Key: 1924 5. 08/15/18 4:08 pm **Brittany Parnell** (ershenb):

Approved for CCC Meeting Agenda 6. 08/16/18 8:32 am Stephen Raper (sraper): Approved for Campus Curricula Committee Chair

A deleted record cannot be edited **Course Deactivation Proposal** In Workflow Date Submitted: 06/08/18 9:41 am 1. RMATHEMA **Viewing: MATH 6425: Hilbert Space Structures And Methods For Application** Chair File: 1097.1 2. CCC Secretary 3. Sciences DSCC Last edit: 08/15/18 4:08 pm Chair Changes proposed by: tibbettsmg 4. Pending CCC Requested Spring 2019 08/01/2014 Agenda post **Effective Change** 5. CCC Meeting Date Agenda Department Mathematics & Statistics 6. Campus Curricula **Committee Chair** Discipline Mathematics (MATH) 7. FS Meeting Course Number 6425 Agenda Title Hilbert Space Structures And Methods For Application 8. Faculty Senate Chair Abbreviated Hilbert Sp Struc&Ap Meth 9. Registrar Course Title CAT entry 11. Peoplesoft Foundations of the abstract theory of linear operators in Hilbert spaces, Banach Catalog Description spaces, and topological linear spaces. Application of abstract theory in constructing computational techniques (method of Rayleigh-Ritz) in eigenvalue problems Approval Path associated with linear differential and integral equations arising in physical 1. 06/08/18 9:50 am applications. Introduction to theory of distributions and Green's functions. sclark: Approved for RMATHEMA Prerequisites Math 5108. Chair Field Trip 2. 06/08/18 1:48 pm Statement **Brittany Parnell** Credit Hours LEC: 3 LAB: 0 IND: 0 RSD: 0 Total: 3 (ershenb): Approved for CCC Required for No Secretary Majors 3. 06/11/18 10:23 Elective for No am Majors Katie Shannon (shannonk): Justification for Elimination of courses not taught in 10 or more years per Registrar. Approved for change: Sciences DSCC Semesters Chair previously 4. 07/06/18 11:19 offered as an experimental **Brittany Parnell** course (ershenb): Co-Listed Approved for Pending CCC Courses: Agenda post Course Reviewer 5. 08/15/18 4:09 pm Comments **Brittany Parnell** Key: 1097 (ershenb): Approved for CCC Meeting Agenda

6. 08/16/18 8:32 am Stephen Raper (sraper): Approved for Campus Curricula Committee Chair

A deleted record cannot be edited **Course Deactivation Proposal** In Workflow Date Submitted: 06/08/18 9:41 am 1. RMATHEMA **Viewing: MATH 6426: Green'S Function Structures And Methods For** Chair 2. CCC Secretary **Application** 3. Sciences DSCC File: 790.1 Chair Last edit: 08/15/18 4:11 pm 4. Pending CCC Changes proposed by: tibbettsmg Agenda post 5. CCC Meeting Spring 2019 08/01/2014 Requested Agenda **Effective Change** 6. Campus Curricula Date **Committee Chair** Department Mathematics & Statistics 7. FS Meeting Discipline Mathematics (MATH) Agenda 8. Faculty Senate Course Number 6426 Chair Title Green'S Function Structures And Methods For Application 9. Registrar 10. CAT entry Abbreviated Greens Funct Strct&Mthds Course Title 11. Peoplesoft Catalog Continuation of Math 6+D1271425. Theory of distributions (Dirac Delta function) Approval Path Description and Green's functions. Applications in the solution of boundary value problems for 1. 06/08/18 9:50 am linear partial differential equations arising in physical applications. Integral sclark: Approved equations in several independent variables. Method of characteristics in solving for RMATHEMA partial differential equations. Chair Prerequisites Math 6425. 2. 06/08/18 1:48 pm Field Trip **Brittany Parnell** (ershenb): Statement Approved for CCC Credit Hours LEC: 3 LAB: 0 IND: 0 RSD: 0 Total: 3 Secretary Required for No 3. 06/11/18 10:23 Majors am Katie Shannon Elective for No (shannonk): Majors Approved for Justification for Elimination of courses not taught in 10 or more years per Registrar. Sciences DSCC change: Chair 4. 07/06/18 11:19 Semesters previously **Brittany Parnell** offered as an (ershenb): experimental Approved for course Pending CCC Co-Listed Agenda post Courses: 5. 08/15/18 4:13 pm Brittany Parnell Course Reviewer (ershenb): Comments Approved for CCC Meeting Agenda

6. 08/16/18 8:32 am Stephen Raper (sraper): Approved for Campus Curricula Committee Chair

A deleted record ca		
	Course Deactivation Proposal	In Workflow
Date Submitted: 06,		1. RMATHEMA
Viewing: <b>MATH</b>	1 6435 : Calculus Of Variations I	Chair
File: 78.1		2. CCC Secretary
Last edit: 08/15/1	.8 4:14 pm	3. Sciences DSCC
Changes proposed b		Chair
Requested	Spring 2019 08/01/2014	4. Pending CCC
Effective Change	5pm 6 2023 00/01/2011	Agenda post
Date		5. CCC Meeting
	Mathematics & Statistics	Agenda
Department	Mathematics & Statistics	6. Campus Curricul Committee Chai
Discipline	Mathematics (MATH)	7. FS Meeting
Course Number	6435	Agenda
Title	Calculus Of Variations I	8. Faculty Senate
Abbreviated	Calc Of Variations I	Chair
Course Title	Calc Oi variations i	9. Registrar
Course Title		10. CAT entry
Catalog	Linear spaces, linear operators, and functionals, necessary conditions, transversality,	11. Peoplesoft
Description	corner conditions, HamiltonJacobi theory, direct methods, eigenvalue problems,	
	isoperimetric problems, theory of the second variation, differential forms and	Approval Path
	n-dimensional manifolds, applications to differential equations, conservation laws,	1. 06/08/18 9:50 a
	dynamic programming, and Pontryagin maximum principle, application in physics,	sclark: Approved
	engineering economics.	for RMATHEMA
Prerequisites	Math 4211.	Chair
Field Trip		2. 06/08/18 1:49 p
Statement		Brittany Parnell
Credit Hours	LEC: 3 LAB: 0 IND: 0 RSD: 0 Total: 3	(ershenb): Approved for CC
Dogwined for	No	Secretary
Required for Majors	No	3. 06/11/18 10:23
-		am
Elective for	No	Katie Shannon
Majors		(shannonk):
Justification for	Elimination of courses not taught in 10 or more years per Registrar.	Approved for
change:		Sciences DSCC
Semesters		Chair
previously		4. 07/06/18 11:19
offered as an		am Brittany Parnell
experimental		(ershenb):
course		Approved for
Co-Listed		Pending CCC
Courses:		Agenda post
		5. 08/15/18 4:14 p
Course Reviewer		Brittany Parnell
Comments		(ershenb):
		Key: 78 Approved for CC
		Meeting Agenda

6. 08/16/18 8:32 am Stephen Raper (sraper): Approved for Campus Curricula Committee Chair

A deleted record car		
	Course Deactivation Proposal	In Workflow
Date Submitted: 06/ Viewing: <b>MATH</b>	08/18 9:41 am I <b>6436 : Calculus Of Variations II</b>	1. RMATHEMA Chair
File: 2075.1 Last edit: 08/15/1 Changes proposed b		2. CCC Secretary 3. Sciences DSCC Chair
Requested Effective Change Date	Spring 2019 <del>08/01/2014</del>	4. Pending CCC Agenda post 5. CCC Meeting Agenda
Department	Mathematics & Statistics	6. Campus Curricula
Discipline	Mathematics (MATH)	Committee Chair
Course Number	6436	7. FS Meeting
Title	Calculus Of Variations II	Agenda 8. Faculty Senate
Abbreviated	Calc Of Variations II	Chair
Course Title	Calc Of Variations II	9. Registrar
		10. CAT entry
Catalog Description	Continuation of Math 6435.	11. Peoplesoft
Prerequisites	Must be preceded by Math 6435.	Approval Path
Field Trip Statement Credit Hours	LEC: 3 LAB: 0 IND: 0 RSD: 0 Total: 3	1. 06/08/18 9:50 am sclark: Approved for RMATHEMA Chair
Required for Majors Elective for Majors	No No	2. 06/08/18 1:49 pm Brittany Parnell (ershenb): Approved for CCC Secretary
Justification for change: Semesters previously offered as an experimental course Co-Listed Courses:	Elimination of courses not taught in 10 or more years per Registrar.	3. 06/11/18 10:23 am Katie Shannon (shannonk): Approved for Sciences DSCC Chair 4. 07/06/18 11:19 am Brittany Parnell (ershenb): Approved for
Comments		Approved for Pending CCC
		Agenda post 5. 08/15/18 4:15 pm Brittany Parnell (ershenb): Approved for CCC Meeting Agenda

6. 08/16/18 8:32 am Stephen Raper (sraper): Approved for Campus Curricula Committee Chair

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	Course Deactivation Proposal	
Date Submitted: 06/	•	In Workflow
Viewing: MET E	NG 6040 : Oral Examination	1. RMATSENG Chair 2. CCC Secretary
File: 1820.1		3. Engineering DSCC
Last edit: 08/15/18	8 4:15 pm	Chair
Changes proposed b		4. Pending CCC
Requested	Spring 2019 <del>08/01/2014</del>	Agenda post
Effective Change		5. CCC Meeting
Date		Agenda 6. Campus Curricula
Department	Materials Science & Engineering	Committee Chair
Discipline	Metallurgical Engineering (MET ENG)	7. FS Meeting
Course Number	6040	Agenda
		8. Faculty Senate
Title	Oral Examination	Chair 9. Registrar
Abbreviated	Oral Examination	10. CAT entry
Course Title		11. Peoplesoft
Catalog	After completion of all other program requirements, oral examinations for on-	
Description	campus M.S./Ph.D. students may be processed during intersession. Off-campus M.S.	Approval Path
	students must be enrolled in oral examination and must have paid an oral	1. 06/06/18 4:42 pm
	examination fee at the time of the defense/comprehensive examination (oral/	Greg Hilmas
	written). All other students must enroll for credit commensurate with uses made of facilities and/or faculties. In no case shall this be for less than three (3) semester	(ghilmas):
	hours for resident students.	Approved for
Prerequisites		RMATSENG Chair 2. 06/07/18 9:04 am
•		Brittany Parnell
Field Trip Statement		(ershenb):
		Approved for CCC
Credit Hours	LEC: 0 LAB: 0 IND: 0 RSD: 0 Total: 0	Secretary
Required for	No	3. 06/12/18 10:00
Majors		am Stephen Raper
Elective for	No	(sraper):
Majors		Approved for
Justification for	Elimination of courses that have not been taught for 10 or more years per Registrar.	Engineering DSCC
change:		Chair
Semesters		4. 07/06/18 11:19
previously		am Brittany Parnell
offered as an		(ershenb):
experimental		Approved for
course		Pending CCC
Co-Listed		Agenda post
Courses:		5. 08/15/18 4:15 pm Brittany Parnell
Course Reviewer		(ershenb):
Comments		Approved for CCC
	Ke	y: 1820 Meeting Agenda

6. 08/16/18 8:32 am Stephen Raper (sraper): Approved for Campus Curricula Committee Chair

A deleted record cannot be edited **Course Deactivation Proposal** In Workflow Date Submitted: 06/06/18 4:07 pm 1. RMATSENG Chair Viewing: MS&E 6040 : Oral Examination 2. CCC Secretary File: 2589.1 3. Engineering DSCC Last edit: 08/15/18 4:15 pm 4. Pending CCC Changes proposed by: tibbettsmg Agenda post Requested Spring 2019 08/01/2014 5. CCC Meeting **Effective Change** Agenda Date 6. Campus Curricula Department Materials Science & Engineering **Committee Chair** 7. FS Meeting Discipline Materials Science & Eng (MS&E) Agenda Course Number 6040 8. Faculty Senate Title **Oral Examination** Chair 9. Registrar Abbreviated **Oral Examination** 10. CAT entry Course Title 11. Peoplesoft (Variable) After completion of all other program requirements, oral examinations for Catalog Description on-campus M.S./Ph.D students may be processed during intersession. Off-campus Approval Path M.S. students must be enrolled in an oral examination and must have paid an oral 1. 06/06/18 4:42 pm examination fee at the time of the defense/comprehensive examination Greg Hilmas (oral/written). All other students must enroll for credit commensurate with uses (ghilmas): made of facilities and/or faculties. In no case shall this be for less than three (3) Approved for semester hours for resident students. **RMATSENG Chair** 2. 06/07/18 9:04 am Prerequisites **Brittany Parnell** Field Trip (ershenb): Statement Approved for CCC Credit Hours LEC: 0 LAB: 0 IND: 0 RSD: 0 Total: 0 Secretary 3. 06/12/18 10:00 Required for No Majors am Stephen Raper Elective for No (sraper): Majors Approved for **Engineering DSCC** Justification for Elimination of courses that have not been taught for 10 or more years per Registrar. Chair change: 4. 07/06/18 11:19 Semesters am previously **Brittany Parnell** offered as an (ershenb): experimental Approved for course Pending CCC Co-Listed Agenda post Courses: 5. 08/15/18 4:16 pm Brittany Parnell Course Reviewer (ershenb): Comments Approved for CCC Meeting Agenda

6. 08/16/18 8:32 am Stephen Raper (sraper): Approved for Campus Curricula Committee Chair

A deleted record car		
	Course Deactivation Proposal	In Workflow
Date Submitted: 06/	07/18 1:12 pm	1. RPHYSEDU Chair
Viewing: PHYS	ED 1500 : Administration Of Interscholastic Athletics	2. CCC Secretary
File: 704.1		3. Social Sciences
Last edit: 08/16/18	3 9:20 am	DSCC Chair
Changes proposed b		4. Pending CCC
Requested	Spring 2019 <del>08/01/2014</del>	Agenda post
Effective Change	5pmg 2010 60/01/2011	5. CCC Meeting
Date		Agenda
Department	Office of Undergraduate Studies	6. Campus Curricula Committee Chair
•	Physical Education (PHYS ED)	7. FS Meeting
Discipline		Agenda
Course Number	1500	8. Faculty Senate
Title	Administration Of Interscholastic Athletics	Chair
Abbreviated	Admin Intrscholastic Ath	9. Registrar
Course Title		10. CAT entry
		11. Peoplesoft
Catalog	To present materials that will provide the student with a working knowledge of the	l
Description	major administration and day to day problems that are associated with interscholastic athletics.	Approval Path
	mersonolastic atmetics.	1. 07/17/18 2:18 pn
Prerequisites		Kelly Carter
Field Trip		(carterke):
Statement		Approved for RPHYSEDU Chair
Credit Hours	LEC: 3 LAB: 0 IND: 0 RSD: 0 Total: 3	2. 07/19/18 3:09 pn
Required for	No	Brittany Parnell
Majors		(ershenb):
Elective for	No	Approved for CCC
Majors	No	Secretary
iviajois		3. 07/30/18 11:48
Justification for	Elimination of courses not taught in 10 or more years per Registrar.	am
change:		Barry Flachsbart
Semesters		(barryf): Approved for
previously		Social Sciences
offered as an		DSCC Chair
experimental		4. 07/30/18 2:40 pn
course		Brittany Parnell
Co-Listed		(ershenb):
Courses:		Approved for
Course Reviewer		Pending CCC
Course Reviewer  Comments		Agenda post
Comments	Key: 704	5. 08/16/18 9:20 am
	кеу. 7.04	Brittany Parnell (ershenb):
		Approved for CCC
		Meeting Agenda
		ivieeting Agenc

6. 08/16/18 9:25 am Stephen Raper (sraper): Approved for Campus Curricula Committee Chair

A deleted record ca	nnot be edited	
	<b>Course Deactivation Proposal</b>	In Manthau
Date Submitted: 06,	/07/18 1:12 pm	In Workflow
/iewing: PHYS	ED 2300: Methods In Physical Education K-4	<ol> <li>RPHYSEDU Chair</li> <li>CCC Secretary</li> </ol>
ile: 1512.1		3. Social Sciences
ast edit: 08/16/1	8 9:20 am	DSCC Chair
Changes proposed b	py: tibbettsmg	4. Pending CCC
Requested	Spring 2019 <del>08/01/2014</del>	Agenda post 5. CCC Meeting
Effective Change		Agenda
Date		6. Campus Curricula
Department	Office of Undergraduate Studies	Committee Chair
Discipline	Physical Education (PHYS ED)	7. FS Meeting
Course Number	2300	Agenda
Title	Methods In Physical Education K-4	8. Faculty Senate Chair
Abbreviated	Meths Physical Educ K-4	9. Registrar
Course Title		10. CAT entry
		11. Peoplesoft
Catalog	The course will provide the opportunity to learn how to promote student fitness and	
Description	skill development while building the foundation for a physically active life through specific activities aimed at the younger child.	Approval Path
	specific activities aimed at the younger clinid.	1. 07/17/18 2:19 pm
Prerequisites		Kelly Carter (carterke):
Field Trip		Approved for
Statement		RPHYSEDU Chair
Credit Hours	LEC: 3 LAB: 0 IND: 0 RSD: 0 Total: 3	2. 07/19/18 3:09 pm
Required for	No	Brittany Parnell
Majors		(ershenb):
Elective for	No	Approved for CCC Secretary
Majors		3. 07/30/18 11:48
Justification for	Elimination of courses not taught in 10 or more years per Registrar.	am
change:	, , ,	Barry Flachsbart
Semesters		(barryf):
previously		Approved for Social Sciences
offered as an		DSCC Chair
experimental		4. 07/30/18 2:40 pn
course		Brittany Parnell
Co-Listed	EDUC 2230 - Methods In Physical Education K-4	(ershenb):
Courses:		Approved for
Course Reviewer		Pending CCC Agenda post
Comments		5. 08/16/18 9:20 am
	Key: 1512	Brittany Parnell
		(ershenb):
		Approved for CCC

6. 08/16/18 9:26 am Stephen Raper (sraper): Approved for Campus Curricula Committee Chair

A deleted record ca		
	Course Deactivation Proposal	In Workflow
Date Submitted: 06,	1116 : Statistics For The Social Sciences II	1. RMATHEMA
File: 1115.1	1220 : Statistics For The Social Sciences in	Chair 2. CCC Secretary
ast edit: 08/16/1	2 0·21 am	3. Sciences DSCC
Changes proposed b		Chair
		4. Pending CCC
Other Courses	In The Prerequisites:	Agenda post
referencing this	BUS 5360 : Business Operations	5. CCC Meeting
course		Agenda 6. Campus Curricula
Descripted	Service 2010 00 (01 /2014	Committee Chair
Requested Effective Change	Spring 2019 <del>08/01/2014</del>	7. FS Meeting
Date Change		Agenda
	Mallo continue (Continue	8. Faculty Senate
Department	Mathematics & Statistics	Chair
Discipline	Statistics (STAT)	9. Registrar
Course Number	1116	10. CAT entry
Title	Statistics For The Social Sciences II	11. Peoplesoft
Abbreviated Course Title	Stat For Social Sci II	Approval Path
Course Title		1. 06/08/18 10:33
Catalog	A course on statistical methodology for the social and behavioral sciences.	am
Description	Regression, analysis of variance, forecasting, and use of statistical computer	sclark: Approved for RMATHEMA
	packages.	Chair
Prerequisites	Stat 1115 with a grade of "C" or better.	2. 06/08/18 1:49 pn
Field Trip		Brittany Parnell
Statement		(ershenb):
Credit Hours	LEC: 3 LAB: 0 IND: 0 RSD: 0 Total: 3	Approved for CCC
		Secretary
Required for Majors	No	3. 06/11/18 10:24
-		am Katie Shannon
Elective for	No	(shannonk):
Majors		Approved for
Justification for	Elimination of courses not taught in 10 or more years per Registrar.	Sciences DSCC
change:		Chair
Semesters		4. 07/06/18 11:20
previously		am
offered as an		Brittany Parnell
experimental		(ershenb): Approved for
course		Pending CCC
Co-Listed		Agenda post
Courses:		5. 08/16/18 9:21 an
Course Reviewer		Brittany Parnell
		(ershenb):

Approved for CCC
Meeting Agenda
6. 08/16/18 9:26 am
Stephen Raper
(sraper):
Approved for
Campus Curricula
Committee Chair

A deleted record car	nnot be edited	
	Course Deactivation Proposal	In Workflow
Date Submitted: 06,	/08/18 9:42 am	
liewing: <b>STAT</b>	5120 : Statistical Methods	1. RMATHEMA Chair
File: 364.1		2. CCC Secretary
ast edit: 08/16/1	8 9:21 am	3. Sciences DSCC
Changes proposed b		Chair
Requested	Spring 2019 <del>08/01/2014</del>	4. Pending CCC
Effective Change	Spring 2013 00/01/2011	Agenda post
Date		5. CCC Meeting
Department	Mathematics & Statistics	Agenda 6. Campus Curricula
		Committee Chair
Discipline	Statistics (STAT)	7. FS Meeting
Course Number	5120	Agenda
Title	Statistical Methods	8. Faculty Senate
Abbreviated	Statistical Methods	Chair
Course Title		9. Registrar
		10. CAT entry
Catalog	A continuation of Stat 3115 with emphasis on statistical methods. Topics would	11. Peoplesoft
Description	include further work on regression analysis, control charts, acceptance sampling,	
	nonparametric statistics, goodness of fit tests, reliability and life-testing, analysis of	Approval Path
	experimental designs.	1. 06/08/18 10:34
Prerequisites	Stat 3115.	am
Field Trip		sclark: Approved
Statement		for RMATHEMA Chair
Credit Hours	LEC: 3 LAB: 0 IND: 0 RSD: 0 Total: 3	2. 06/08/18 1:49 pr
Required for	No	Brittany Parnell
Majors		(ershenb):
Elective for	No	Approved for CCC
Majors	NO	Secretary
		3. 06/11/18 10:24
Justification for	Elimination of courses not taught in 10 or more years per Registrar.	am
change:		Katie Shannon (shannonk):
Semesters		Approved for
previously		Sciences DSCC
offered as an		Chair
experimental		4. 07/06/18 11:20
course		am
Co-Listed		Brittany Parnell
Courses:		(ershenb):
Course Reviewer		Approved for
Comments		Pending CCC Agenda post
	Key: 364	
		Brittany Parnell
		(ershenb):

Approved for CCC Meeting Agenda 6. 08/16/18 9:26 am Stephen Raper (sraper): Approved for Campus Curricula Committee Chair

#### **Program Change Request**

Date Submitted: 06/07/18 12:16 pm

**Viewing: AE ENG-BS: Aerospace Engineering** 

BS

File: 141.18

Last approved: 03/27/17 2:47 pm

Last edit: 07/03/18 12:10 pm

Changes proposed by: isaac

Catalog Pages Using this Program

Aerospace Engineering

Start Term

Fall **2019** <del>2017</del>

**Program Code** 

**AE ENG-BS** 

Department

Mechanical & Aerospace Engineering

Title

Aerospace Engineering BS

**Program Requirements and Description** 

#### In Workflow

- 1. RMECHENG Chair
- 2. CCC Secretary
- 3. Engineering DSCC Chair
- 4. Pending CCC Agenda post
- 5. CCC Meeting Agenda
- 6. Campus Curricula Committee Chair
- 7. FS Meeting Agenda
- 8. Faculty Senate Chair
- 9. Registrar
- 10. Kristy Giacomelli

#### **Approval Path**

- 1. 06/07/18 12:47 pm James Drallmeier (drallmei): Approved for RMECHENG Chair
- 2. 06/07/18 1:33 pm Brittany Parnell (ershenb): Approved for CCC
- 3. 07/03/18 12:36 pm Stephen Raper (sraper): Approved for Engineering

Secretary

4. 07/06/18 11:16 am Brittany Parnell (ershenb): Approved for Pending CCC

**DSCC Chair** 

- Agenda post
- 5. 08/16/18 9:23 am
  Brittany Parnell
  (ershenb):
  Approved for CCC
  Meeting Agenda
- 6. 08/16/18 9:25 am Stephen Raper

(sraper): Approved for Campus Curricula Committee Chair

#### **History**

- 1. Apr 28, 2014 by nisbett
- 2. Aug 1, 2014 by pantaleoa
- 3. Jul 14, 2015 by pantaleoa
- 4. Mar 27, 2017 by Shauntae Ellis (smetg6)

## Bachelor of Science Aerospace Engineering

Entering freshmen desiring to study aerospace engineering will be admitted to the Freshman Engineering Program. They will, however, be permitted, if they wish, to state an aerospace engineering preference, which will be used as a consideration for available freshman departmental scholarships. The focus of the Freshman Engineering Program is on enhanced advising and career counseling, with the goal of providing to the student the information necessary to make an informed decision regarding the choice of a major.

A **cumulative** GPA of 2.5, and math science GPA of 2.25 are the minimum requirements for admission to the aerospace engineering program.

Students must comply with the requirements specified in the current online catalog published by the registrar. For the bachelor of science degree in aerospace engineering a minimum of 128 credit hours is required. These requirements are in addition to credit received for algebra, trigonometry, and basic ROTC courses. An average of at least two grade points per credit hour must be attained. At least two grade points per credit hour must also be attained in all courses taken in aerospace engineering. Each student's program of study must contain a minimum of 24 21-credit hours of course work in general education and must be chosen to satisfy the following requirements:

- 1. ENGLISH 1120.
- All students are required to take one American history course/political science course, one economics course, one humanities
  course, and ENGLISH 1120. The history course is to be selected from HISTORY 1200, HISTORY 1300, HISTORY 1310, or
  POL SCI 1200
- 3. POL SCI 1200. ECON 1100 or ECON 1200
- 4. ENGLISH 1160 or ENGLISH 3560 or SP&M S 1185
- 5. A literature elective\*
- 6. An ethics elective\*
- 7. The economics course may be either ECON 1100 or ECON 1200. Depth elective, requirement. Three credit hours must be taken in humanities or social sciences at the 2000-level or above and must be selected from "The Approved List of Humanities and Social Science Courses for Engineering Degrees" maintained by the office of undergraduate studies. A This course must have as a prerequisite one of the humanities or social science elective that has a humanities or social science course sciences courses already taken as a prerequisite\*
- 8. taken. A Three eredit hours must be taken in humanities or social science elective\*

\*Humanities sciences at the 2000 level or above and social science elective must be at least 3 credit hours must be selected from "The Approved List of lecture designation, Humanities and also meet the requirements as specified under "Engineering Degree"

Requirements" published in Social Science Courses for Engineering Degrees" maintained by the current office of undergraduate catalog. studies.

Foreign language courses numbered 1180 will be considered to satisfy this requirement. Students may receive humanities credit for foreign language courses in their native tongue only if the course is at the 4000 level. All courses taken to satisfy the depth requirement must be taken after graduating from high school. One course should be in the othics area. The remaining two courses are to be chosen from the list of approved humanities/social sciences courses and may include one communications course in addition to ENGLISH 1120, and a literature course. Any specific departmental requirements in the general studies area must be satisfied. Special topics and special problems and honors seminars are allowed only by petition to and approval by the student's department chairman. The aerospace engineering program at Missouri S&T is characterized by its focus on the scientific basics of engineering and its innovative application. Indeed, the underlying theme of this educational program is the application of the scientific basics to engineering practice through attention to problems and needs of the public. The necessary interrelations among the various topics, the engineering disciplines, and the other professions as they naturally come together in the solution of real world problems are emphasized as research, analysis, synthesis, and design are presented and discussed through classroom and laboratory instruction.

First Semester	Credits	Second Semester	Credits
FR ENG 1100	1	MECH ENG 1720	3
CHEM 1310 & CHEM 1319 & CHEM 1100 <sup>1</sup>	6	MATH 1215 <sup>4</sup>	4
ENGLISH 1120	3	PHYSICS 1135 <sup>4</sup>	4
MATH 1214	4	H/SS Economics elective <sup>3</sup>	3
H/SS History Elective <sup>2</sup>	3		
	17		14
Sophomore Year			
First Semester	Credits	Second Semester	Credits
COMP SCI 1970 or 1971 <sup>9</sup>	2	AERO ENG 2780	2
COMP SCI 1980 or 1981 <sup>9</sup>	4	AERO ENG 2360 <sup>4</sup>	3
COMP SCI 1570 or 1972	2-3	MECH ENG 2519 <sup>4</sup>	3
COMP SCI 1580 or 1982	1	MATH 3304 <sup>4</sup>	3
<u>CIV ENG 2200</u> <sup>4</sup>	3	CIV ENG 2210 <sup>4</sup>	3
MATH 2222 <sup>4</sup>	4	AERO ENG 2790	2
PHYSICS 2135 <sup>4</sup>	4		
<u>AERO ENG 2861</u> <sup>4</sup>	3		
	17-18		16
Junior Year			
First Semester	Credits	Second Semester	Credits
AERO ENG 3613 <sup>4</sup>	3	AERO ENG 3251 <sup>4</sup>	3
AERO ENG 3131 <sup>4</sup>	3	AERO ENG 3361	3
AERO ENG 3877	3	AERO ENG 3171	3
ELEC ENG 2800	3	AERO ENG 4882	2
Electives-Advanced Math/Cmp Sci <sup>5</sup>	3	Elective/Ethics <sup>10</sup>	3

		,epasegg	
		Elective/Communications <sup>7</sup>	3
	15		17
Senior Year			
First Semester	Credits	Second Semester	Credits
AERO ENG 4535	3	AERO ENG 4781 or 4791	3
AERO ENG 4253	3	Electives-Technical <sup>6</sup>	3
<u>AERO ENG 4780</u> or <u>4790</u>	2	Electives-Technical <sup>6</sup>	3
AERO ENG 4883	2	<u>AERO ENG 4885</u>	1
Electives-Technical <sup>6</sup>	3	Electives-Hum/Soc Sci	3
Depth Elective/Hum/Soc Sci <sup>8</sup>	3	Elective/Literature	3
		Elective/Literature	3
	16		16
Total Credits: 128-129			

- <sup>1</sup> <u>CHEM 1310</u>, <u>CHEM 1319</u> and <u>CHEM 1100</u> or an equivalent training program approved by Missouri S&T.
- <sup>2</sup> Must be one of the following: POL SCI 1200, HISTORY 1200, HISTORY 1300, or HISTORY 1310.
- Must be one of the following: <u>ECON 1100</u> or <u>ECON 1200</u>.
- A grade of "C" or better in <u>CHEM 1310</u>, <u>MATH 1214</u>, <u>MATH 1215</u>, <u>MATH 2222</u>, <u>MATH 3304</u>, <u>PHYSICS 1135</u>, <u>PHYSICS 2135</u>, <u>CIV ENG 2200</u>, <u>CIV ENG 2210</u>, and computer programming elective, <u>AERO ENG 2360</u>, <u>AERO ENG 2861</u>, and <u>MECH ENG 2519</u>, as prerequisite for follow-up courses in the curriculum and for graduation.
- Must be one of the following: <u>AERO ENG 5830</u>, <u>COMP SCI 3200</u>, <u>MATH 3103</u>, <u>MATH 3108</u>, <u>STAT 3113</u>, <u>STAT 3115</u>, or any 5000-level math or computer science course approved by the student's advisor.
- Electives must be approved by the student's advisor. Nine hours of technical electives must be in mechanical and aerospace engineering. Three hours of departmental technical electives must be at the 5000-level. <u>AERO ENG 3877</u> and the 5000-level Asteroid Mining course co-listed with geological engineering are not to be used for 5000-level technical elective.
- This course can be selected from ENGLISH 1160, ENGLISH 3560, SP&M S 1185, or the complete four-course sequence in advanced ROTC (MILARMY 3250, MILARMY 3500, MILARMY 4250, and MILARMY 4500; or MILAIR 3110, MILAIR 3120, MILAIR 4110 and MILAIR 4120).
- To satisfy the depth requirement, this course should have a humanities and social science course already taken as a prerequisite.
- Must be a course on engineering ethics, business ethics, bio ethics, social ethics, or any ethics course approved by the student's advisor.
- Must be a course on engineering ethics, business ethics, bio ethics, social ethics, or any ethics course approved by the student's advisor.

# Free Electives Footnote:Note:All acrospace engineering students must take and pass the acrospace engineering assessment exam prior to graduation.

Justification for request

To comply with the revised engineering degree requirements. Assessment is now in the curriculum (AE4885). There is no need to have a comment on the requirement to take the Assessment Exam. Supporting Documents

#### DC form.pdf

**Course Reviewer Comments** 

ershenb (06/07/18 1:27 pm): linked courses that were notated as plain text

ershenb (06/07/18 1:29 pm): .

ershenb (06/07/18 1:30 pm): grammatical

**sraper (06/12/18 10:02 am):** Removed "Free Elective Footnotes:" as there are no free electives in the curriculum.

ershenb (06/15/18 11:25 am): changed start term to Fall 2019

ershenb (07/03/18 12:10 pm): Per the request of Dr. Raper, edited Sophomore Year, First Semester: changed COMP SCI 1970 or 1971 (2 hours) to COMP SCI 1570 or 1972 (2-3 hours. Changed COMP SCI 1980 or 1981 (1 hour) to COMP SCI 1580 or 1982 (1 hour). Semester hours are now 17-18. Total hours are now 128-129. Removed Footnote 9: Computer Science requirement can be satisfied by taking COMP SCI 1570 and COMP SCI 1580.

Key: 141

#### **Program Change Request**

Date Submitted: 06/26/18 2:29 pm

**Viewing: COGNEUR-MI: Cognitive** 

## **Neuroscience Minor**

File: 23.2

Last approved: 05/07/14 11:09 am

Last edit: 07/31/18 10:50 am

Changes proposed by: murray

Catalog Pages Using this Program

<u>Psychology</u>

Start Term

#### Fall 2019 08/01/2014

Program Code

**COGNEUR-MI** 

Department

Psychological Science

Title

Cognitive Neuroscience Minor

#### **Program Requirements and Description**

#### In Workflow

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

#### **Approval Path**

- 1. 06/26/18 2:58 pm murray: Approved for RPSYCHOL Chair
- 06/27/18 9:15 am
   Brittany Parnell
   (ershenb):
   Approved for CCC
   Secretary
- 06/29/18 2:01 pm
   Barry Flachsbart
   (barryf): Approved
   for Social Sciences
   DSCC Chair
- 4. 07/06/18 11:18 am
  Brittany Parnell
  (ershenb):
  Approved for
  Pending CCC
  Agenda post
- 08/16/18 9:23 am Brittany Parnell (ershenb): Approved for CCC
- Meeting Agenda
- 6. 08/16/18 9:25 am Stephen Raper (sraper): Approved

for Campus
Curricula
Committee Chair

## History

1. May 7, 2014 by Lahne Black (lahne)

### **Cognitive Neuroscience Minor**

Requirements include:

PSYCH 1101	General Psychology	3
PSYCH 4400	Cognitive Psychology	3
PSYCH 4410	Neuroscience	3
<u>PSYCH 4411</u>	Sensation and Perception	3
or <u>PSYCH 4501</u>	Abnormal Psychology	
and 1 of the following		
PSYCH 3400	Theories Of Learning	3
PSYCH 4501	Abnormal Psychology	3

Justification for request

Removed a suppressed class and added an option with abnormal psychology

**Supporting Documents** 

**Course Reviewer Comments** 

ershenb (06/27/18 9:07 am): removed the suppressed Psych 4412

ershenb (07/31/18 10:50 am): .

Key: 23

#### **Program Change Request**

Date Submitted: 06/26/18 2:21 pm

Viewing: I/O PSY-MI: Indus/Organization Psych

# **Minor**

File: 72.3

Last approved: 05/07/14 11:08 am

Last edit: 06/27/18 8:55 am
Changes proposed by: murray

Catalog Pages Using this Program

<u>Psychology</u>

Start Term

Fall 2019 08/01/2014

Program Code

I/O PSY-MI

Department

Psychological Science

Title

Indus/Organization Psych Minor

**Program Requirements and Description** 

#### In Workflow

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

#### **Approval Path**

- 1. 06/26/18 2:59 pm murray: Approved for RPSYCHOL Chair
- 06/27/18 9:15 am
   Brittany Parnell
   (ershenb):
   Approved for CCC
   Secretary
- 06/29/18 2:01 pm
   Barry Flachsbart
   (barryf): Approved
   for Social Sciences
   DSCC Chair
- 4. 07/06/18 11:18 am
  Brittany Parnell
  (ershenb):
  Approved for
  Pending CCC
  Agenda post
- 08/16/18 9:24 am
   Brittany Parnell
   (ershenb):
   Approved for CCC
   Meeting Agenda
- 6. 08/16/18 9:25 am Stephen Raper (sraper): Approved

for Campus
Curricula
Committee Chair

## History

- 1. May 7, 2014 by Lahne Black (lahne)
- 2. May 7, 2014 by Lahne Black (lahne)

#### **Industrial/Organizational Psychology Minor**

Requirements include:

PSYCH 1101	General Psychology	3
PSYCH 4700	Industrial Psychology	3
PSYCH 4602	Organizational Psychology	3
and 2 of the following		
PSYCH 4600	Social Psychology	3
PSYCH 4710	Human Factors	3
PSYCH 4500	Personality Theory	3

Justification for request added 4500 (Personality) as an option in the minor Supporting Documents Course Reviewer Comments

ershenb (06/27/18 8:55 am): updated start term

Key: 72

# **New Experimental Course Proposal**

Date Submitted: 04/30/18 8:15 pm

Viewing: MATH 6001.003: Mathematical

# **Foundation of Finite Element Methods II**

File: 4543

Last edit: 06/11/18 10:19 am Changes proposed by: prunnion

Requested Spring 2019

**Effective Change** 

Date

Department Mathematics & Statistics

Discipline Mathematics (MATH)

Course Number 6001

Topic ID 003

Experimental

Title

Mathematical Foundation of Finite Element Methods II

Experimental Finite Elem Methods II

**Abbreviated** 

**Course Title** 

Instructors Xiaoming He or Nan Jiang or Daozhi Han

Experimental

Catalog

Description

#### In Workflow

- 1. RMATHEMA Chair
- 2. CCC Secretary
- 3. Sciences DSCC Chair
- 4. Pending CCC Agenda post
- 5. CCC Meeting Agenda
- 6. Campus Curricula Committee Chair
- 7. CAT entry
- 8. Registrar

## **Approval Path**

- 1. 04/30/18 8:50 pm sclark: Approved for RMATHEMA Chair
- 2. 05/03/18 1:35 pm Brittany Parnell

(ershenb):

Approved for CCC Secretary

3. 06/11/18 10:21

am

Katie Shannon

(shannonk):

Approved for

Sciences DSCC Chair

4. 07/06/18 11:19
am
Brittany Parnell
(ershenb):
Approved for
Pending CCC

5. 08/16/18 9:24 am
Brittany Parnell
(ershenb):
Approved for CCC

Agenda post

6. 08/16/18 9:25 am
Stephen Raper
(sraper):
Approved for
Campus Curricula

Committee Chair

Meeting Agenda

7. 08/16/18 10:47
am
Marita Tibbetts
(tibbettsmg):
Approved for CAT
entry

Finite element methods for systems of partial differential equations and nonlinear partial differential equations. Mathematical theory for mixed finite elements, non-conforming finite elements, finite element interpolation, and finite element projections.

Prerequisites

Math 5325 or Math 6601 or Math 6602.

Field Trip

Statement

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

Justification for new course:

This is a new course being added to leverage faculty expertise and support interests of current graduate students in the department. This will be offered as a shared course in the UM system.

Semester(s)

Co-Listed

Courses:

Course Reviewer

previously taught

Comments

Key: 4543

<u>Preview Bridge</u>

# **New Experimental Course Proposal**

Date Submitted: 05/24/18 1:14 pm

**Viewing: PET ENG 4001.004: Drilling Automation** 

File: 4549

Last edit: 08/16/18 9:25 am Changes proposed by: reflori

Requested Fall 2018

**Effective Change** 

Date

Department Geosciences and Geological and Petroleum

Engineering

Discipline Petroleum Engineering (PET ENG)

Course Number 4001

Topic ID 004

Experimental

Title

**Drilling Automation** 

Experimental Drilling Automation

Abbreviated

Course Title

Instructors Dr. Rick Hendrix

Experimental

Catalog

Description

#### In Workflow

- 1. RGEOSENG Chair
- 2. CCC Secretary
- 3. Engineering DSCC Chair
- 4. Pending CCC Agenda post
- 5. CCC Meeting Agenda
- 6. Campus Curricula Committee Chair
- 7. CAT entry
- 8. Registrar

## **Approval Path**

1. 05/25/18 7:18 am

David Borrok

(borrokd):

Approved for

RGEOSENG Chair

2. 05/29/18 8:37 am

Brittany Parnell

(ershenb):

Approved for CCC

Secretary

3. 06/06/18 10:45

am

Stephen Raper

(sraper):

Approved for

Engineering DSCC Chair

4. 07/06/18 11:20 am
Brittany Parnell (ershenb):
Approved for Pending CCC
Agenda post

Brittany Parnell (ershenb):
Approved for CCC
Meeting Agenda

5. 08/16/18 9:25 am

6. 08/16/18 9:38 am
Stephen Raper
(sraper):
Approved for
Campus Curricula
Committee Chair

7. 08/16/18 10:37
am
Marita Tibbetts
(tibbettsmg):
Approved for CAT
entry

Advances in automation are transforming the design of modern drilling rigs and altering modern well drilling practices. This course covers these advances such as controls, data and communications, drilling rig systems, human factors and drilling optimization. A key part of the class is reading and discussing current technical papers.

Prerequisites
Pet Eng 4210.

Field Trip

Statement

**Credit Hours** 

LEC: 3

LAB: 0

IND: 0

RSD: 0

Total: 3

Justification for

new course:

Drilling automation is a major trend in the oil and gas well drilling sector. It's also an important research area. Companies seek graduates who have exposure to drilling automation.

Semester(s)

previously taught

Taught as a Special Problems class in Fall 2017.

Co-Listed

Courses:

Course Reviewer

Comments

Key: 4549