

Missouri University of Science and Technology

Formerly University of Missouri-Rolla

Campus Curricula Committee Meeting Agenda February 6, 2019

9:00am - 10:30am, Bertelsmeyer 110H

(For Faculty Senate Meeting of February 21, 2019)

Review of submitted Course Change forms:

File: 786.1	BIO SCI 3353: Comparative Vertebrate Chordate Anatomy
File: 975.1	BIO SCI 4433: Genomics
File: 1637.1	BIO SCI 4533: Neurobiology
File: 1488.3	BIO SCI 4563: Global Ecology
File: 4593	BIO SCI 6433: Advanced Genomics
File: 4594	BIO SCI 6533: Advanced Neurobiology
File: 4592	BIO SCI 6563: Advanced Global Ecology
File: 4291.6	CHEM ENG 5161: Intermediate Molecular Engineering
File: 1747.1	ECON 4540: Energy Economics
File: 2214.11	ELEC ENG 4096: Electrical Engineering Senior Project I
File: 1388.2	ELEC ENG 4097: Electrical Engineering Senior Project II
File: 691.1	ELEC ENG 6830: Clustering Algorithms
File: 1748.1	ENGLISH 3218: The British Novel
File: 976.3	ENGLISH 3219: The Lives and Works of J.R.R. Tolkien and C.S. Lewis
File: 254.1	MS&E 5210: Tissue Engineering
File: 2334.1	MS&E 6210: Advanced Tissue Engineering
File: 1260.1	PET ENG 4210: Drilling and Well Design

Review of submitted Experimental Course forms:

File: 4588 BIO SCI 4001.004: Animal Behavior File: 4589 EXP ENG 6001.005: Construction Blasting

Continued discussion from the Campus Curricula Committee to implement a policy for *admission to a discipline or department* as an appropriate course prerequisite.

Discussion over the implications of establishing a grade of "B" as a satisfactory course prerequisite.

Date Submitted: 12/13/18 2:24 pm

Viewing: BIO SCI 3353 4343-: Comparative Vertebrate Chordate

Anatomy

File: 786.1

Last edit: 12/13/18 3:05 pm Changes proposed by: niyogid

Requested Fall 2019 08/01/2014

Effective Change

Date

Department Biological Sciences

Discipline Biological Sciences (BIO SCI)

Course Number **3353** 4343

Title Comparative Vertebrate Chordate Anatomy

Abbreviated Comp Vert Chordate

Course Title Anatomy

In Workflow

- 1. RBIOLSCI Chair
- 2. CCC Secretary
- 3. Sciences DSCC

Chair

4. Pending CCC Agenda post

5. CCC Meeting Agenda

Campus Curricula Committee Chair

7. FS Meeting Agenda

8. Faculty Senate

Chair

9. Registrar

10. CAT entry

11. Peoplesoft

Catalog

Description

An integrated, comparative study of **vertebrate** chordate-structures and systems, with emphasis on evolution, development and function. Includes examination of gross anatomy and histology of selected forms.

Prerequisites

Bio Sci 1223, Bio Sci 1229.

Field Trip Statement

Credit Hours LEC: 2 LAB: 2 IND: 0 RSD: 0 Total: 4

Required for No

Majors

Elective for No

Majors

Justification for

change:

We are changing the number and name for this class. The name change switches "chordate" to "vertebrate" as that is what the course covers and the name is more familiar to a broader audience. The number change is because the class will be taught at an intermediate (3000-level) rather than an advanced (4000-level).

Approval Path

1. 12/13/18 2:26 pm
 David Duvernell
 (duvernelld):
 Approved for
 RBIOLSCI Chair

12/13/18 3:07 pm Brittany Parnell (ershenb):

Approved for CCC

Secretary

3. 01/09/19 10:19

am

Katie Shannon (shannonk):
Approved for

Sciences DSCC

Chair

4. 01/15/19 9:52 am
Brittany Parnell
(ershenb):
Approved for

Semesters previously offered as an	Pending CCC Agenda post
experimental course	
Co-Listed Courses:	
Course Reviewer Comments	Key: 786
	Preview Bridge

BIO SCI 4433: Genomics

Course Change Request

Date Submitted: 01/09/19 10:49 am

Viewing: BIO SCI 4433 5333: Genomics

File: 975.1

Last edit: 01/10/19 10:01 am Changes proposed by: shannonk

Requested

Fall 2019 08/14/2018

Effective Change

Date

Department Biolo

Biological Sciences

Discipline Biological Sciences (BIO SCI)

Course Number 4433 5333

Title Genomics

Abbreviated

Genomics

Course Title

Description

Catalog

This course offers a general overview of the field of genomics. Topics covered

include genome sequencing and annotation, transcriptomics, proteomics,

metabolomics, genomic variation, and an overview of human, and several animal,

plant, and microbial genome projects.

Prerequisites

Bio Sci BIO SCI 4323.

Field Trip

Statement

Credit Hours

LEC: 3

LAB: 0

IND: 0

RSD: 0

Total: 3

Required for No

Majors

Elective for

Yes No

Majors

Justification for

change:

Splitting 5000 level course into 4000 and 6000 level to give graduate students more

options at 6000 level

Semesters

previously

In Workflow

1. RBIOLSCI 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

10. CAT entry

11. Peoplesoft

Approval Path

1. 01/09/19 10:51

am

David Duvernell

(duvernelld):

Approved for

RBIOLSCI Chair

2. 01/10/19 10:02

am

Brittany Parnell

(ershenb):

Approved for CCC

Secretary

3. 01/11/19 2:17 pm

Katie Shannon

(shannonk):

Approved for

Sciences DSCC

Chair

4. 01/15/19 9:54 am Brittany Parnell

(ershenb):

offered as an	Approved for
experimental	Pending CCC
course	Agenda post
Co-Listed	
Courses:	
Course Reviewer	
Comments	
	Vov. 075

Date Submitted: 01/09/19 11:34 am

Viewing: BIO SCI 4533 5433: Neurobiology

File: 1637.1

Last edit: 01/09/19 11:34 am Changes proposed by: shannonk

Requested Fall 2019 08/14/2018

Effective Change

Date

Department Biological Sciences

Discipline Biological Sciences (BIO SCI)

Course Number 4533 5433

Title Neurobiology

Abbreviated Neurobiology

Course Title

Catalog

Description

An intermediate course in cellular neurobiology. Emphasis will be placed on the unique properties of neurons and other excitable cells. Topics covered include the structure and biophysical properties of neurons, synaptic transmission, neurochemistry, signal transduction, neuropharmacology and neurodevelopment.

Prerequisites

Bio Sci 2213.

Field Trip Statement

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

Required for No

Majors

Elective for Yes No

Majors

Justification for

change:

Splitting 5000 level into 4000 and 6000 to offer more 6000 level courses for

graduate students

Semesters previously

In Workflow

1. RBIOLSCI Chair

2. CCC Secretary

3. Sciences DSCC

Chair

4. Pending CCC Agenda post

5. CCC Meeting

Agenda

Campus Curricula Committee Chair

7. FS Meeting Agenda

8. Faculty Senate

Chair

9. Registrar

10. CAT entry

11. Peoplesoft

Approval Path

1. 01/09/19 12:58

pm

David Duvernell (duvernelld): Approved for RBIOLSCI Chair

2. 01/10/19 10:02

am

Brittany Parnell

(ershenb):

Approved for CCC Secretary

Secretary

3. 01/11/19 2:17 pm Katie Shannon

(shannonk):

Approved for Sciences DSCC

Chair

4. 01/15/19 9:54 am
Brittany Parnell
(ershenb):

offered as an	Approved for
experimental	Pending CCC
course	Agenda post
Co-Listed	
Courses:	
Course Reviewer	
Comments	
	Key: 163:

Date Submitted: 01/09/19 10:42 am In Workflow Viewing: BIO SCI 4563 5463: Global Ecology 1. RBIOLSCI Chair File: 1488.3 2. CCC Secretary Last approved: 06/29/15 3:51 am 3. Sciences DSCC Last edit: 01/09/19 10:42 am Chair Changes proposed by: shannonk 4. Pending CCC Agenda post Fall 2019 01/12/2016 Requested 5. CCC Meeting **Effective Change** Agenda Date 6. Campus Curricula Department **Biological Sciences** Committee Chair Discipline Biological Sciences (BIO SCI) 7. FS Meeting Agenda Course Number 4563 5463 8. Faculty Senate Global Ecology Chair Abbreviated Global Ecology 9. Registrar 10. CAT entry Course Title 11. Peoplesoft Catalog This class covers ecological topics at large scales, emphasizing global scales. Topics Description include global energy balance, biogeochemical cycles of water, carbon, nitrogen, Approval Path and other biologically important elements, and global biodiversity. Students will 1. 01/09/19 10:51 focus on primary literature related to global ecology. Prerequisites Bio Sci 2263. David Duvernell (duvernelld): Field Trip Approved for Statement RBIOLSCI Chair **Credit Hours** LEC: 3 LAB: 0 IND: 0 RSD: 0 Total: 3 2. 01/10/19 10:03 Required for No am Majors **Brittany Parnell** (ershenb): Elective for Yes Approved for CCC Majors Secretary Splitting the 5000 level course into a 4000 and 6000 level to give graduate students Justification for 3. 01/11/19 2:17 pm change: more 6000 level courses Katie Shannon (shannonk): Semesters Approved for previously Sciences DSCC offered as an Chair experimental 4. 01/15/19 9:54 am course **Brittany Parnell** Co-Listed (ershenb): Courses: Approved for Pending CCC Course Reviewer Agenda post Comments History

Dravious Bridge

1. Jun 29, 2015 by niyogid (1488.1)

New Course Proposal

Date Submitted: 01/09/19 10:53 am

Viewing: BIO SCI 6433: Advanced Genomics

File: 4593

Last edit: 01/15/19 10:24 am Changes proposed by: shannonk

Requested

Effective Change

Date

Department **Biological Sciences**

Discipline Biological Sciences (BIO SCI)

Fall 2019

Course Number 6433

Title **Advanced Genomics**

Abbreviated **Advanced Genomics**

Course Title

In Workflow

- 1. RBIOLSCI 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 10. CAT entry

11. Peoplesoft

Approval Path

1. 01/09/19 12:58

David Duvernell

Catalog

Description

An overview of the field of genomics. Topics covered include genome sequencing and annotation, transcriptomics, proteomics, metabolomics, genomic variation, and human, and several animal, plant, and microbial genome projects. Students will complete an independent genomics project that incorporates concepts and bioinformatics tools learned.

Prerequisites

Students may not receive credit for both Bio Sci 4433 and Bio Sci 6433.

Field Trip Statement

Credit Hours

Required for

LEC: 3

No

Yes

LAB: 0

IND: 0

RSD: 0

Total: 3

Approved for **RBIOLSCI** Chair

(duvernelld):

2. 01/10/19 10:04

am

pm

Brittany Parnell

(ershenb):

Approved for CCC

Secretary

3. 01/11/19 2:18 pm Katie Shannon (shannonk):

> Approved for Sciences DSCC

Chair

4. 01/15/19 9:55 am **Brittany Parnell** (ershenb):

Elective for

Majors

Majors

Justification for

new course:

Splitting 5000 level course into 4000 and 6000 level to give graduate students more options at 6000 level

Semesters previously offered as an		Approved for Pending CCC Agenda post
experimental course	Previously offered as Genomics 5333	
Co-Listed Courses:		
Course Reviewer Comments		
		Key: 450

Key: 4593

	New Course Proposal	16
Date Submitted: 01/	09/19 11:37 am	In Workflow
/iewing: BIO S	CI 6533 : Advanced Neurobiology	1. RBIOLSCI Chair
File: 4594		2. CCC Secretary 3. Sciences DSCC
ast edit: 01/15/1	0.0.55 am	Chair
Changes proposed b		4. Pending CCC
		Agenda post
Requested	Fall 2019	5. CCC Meeting
Effective Change Date		Agenda
		6. Campus Curricul
Department	Biological Sciences	Committee Chai
Discipline	Biological Sciences (BIO SCI)	7. FS Meeting
Course Number	6533	Agenda 8. Faculty Senate
Title	Advanced Neurobiology	Chair
Abbreviated	-	9. Registrar
Course Title	Advanced Neurobiology	10. CAT entry
Course Title		11. Peoplesoft
Catalog	A course in cellular neurobiology. Emphasis will be placed on the unique properties	l I
Description	of neurons and other excitable cells. Topics include the structure and biophysical	Approval Path
	properties of neurons, synaptic transmission, neurochemistry, signal transduction,	1. 01/09/19 12:58
	neuropharmacology and neurodevelopment. Students will give a 30 min class	pm
	presentation on a relevant subject.	David Duvernell
Prerequisites	Students may not receive credit for both Bio Sci 4533 and Bio Sci 6533.	(duvernelld):
Field Trip		Approved for
Statement		RBIOLSCI Chair 2. 01/10/19 10:06
Credit Hours	LEC: 3 LAB: 0 IND: 0 RSD: 0 Total: 3	2. 01/10/19 10.00
Required for	No	Brittany Parnell
Majors		(ershenb):
Elective for	Van	Approved for CC
Majors	Yes	Secretary
iviajoi 3		3. 01/11/19 2:19 p
Justification for	Splitting 5000 level course into 4000 and 6000 level to provide more 6000 level	Katie Shannon
new course:	courses for graduate students	(shannonk):
Semesters	Previously offered as 5433	Approved for Sciences DSCC
previously		Chair
offered as an		4. 01/15/19 9:56 a
experimental		Brittany Parnell
course		(ershenb):
Co-Listed		Approved for
Courses:		Pending CCC
Course Reviewer		Agenda post
Comments		

	New Course Proposal	
Date Submitted: 01/	09/19 10:45 am	In Workflow
Viewing: BIO SO	CI 6563 : Advanced Global Ecology	1. RBIOLSCI Chair
File: 4592		2. CCC Secretary 3. Sciences DSCC
	0.0.FC am	Chair
Last edit: 01/15/19 Changes proposed b		4. Pending CCC
		Agenda post
Requested	Fall 2019	5. CCC Meeting
Effective Change		Agenda
Date		6. Campus Curricul
Department	Biological Sciences	Committee Chai
Discipline	Biological Sciences (BIO SCI)	7. FS Meeting
Course Number	6563	Agenda
Titlo	Advanced Clobal Ecology	8. Faculty Senate Chair
Title	Advanced Global Ecology	9. Registrar
Abbreviated	Advanced Global Ecology	10. CAT entry
Course Title		11. Peoplesoft
Catalog	This class covers ecological topics at large scales, emphasizing global scales. Topics	
Description	include global energy balance, biogeochemical cycles of water, carbon, nitrogen,	Approval Path
•	and other biologically important elements, and global biodiversity. Students will	1. 01/09/19 10:51
	focus on primary literature related to global ecology. Research proposal and	am
	additional readings required.	David Duvernell
Prerequisites	Students may not receive credit for both Bio Sci 4563 and Bio Sci 6563.	(duvernelld):
Field Trip		Approved for
Statement		RBIOLSCI Chair
	LEG 2 LAD 0 IND 0 DCD 0 Table 2	2. 01/10/19 10:11
Credit Hours	LEC: 3 LAB: 0 IND: 0 RSD: 0 Total: 3	am
Required for	No	Brittany Parnell
Majors		(ershenb):
Elective for	Yes	Approved for CC Secretary
Majors		3. 01/11/19 2:19 p
Justification for	Splitting the 5000 level course into a 4000 and 6000 level to give graduate students	Katie Shannon
new course:	more 6000 level courses	(shannonk):
	more dood level courses	Approved for
Semesters		Sciences DSCC
previously offered as an		Chair
experimental		4. 01/15/19 9:56 a
course		Brittany Parnell
Co-Listed		(ershenb): Approved for
Co-Listed Courses:		Pending CCC
courses.		Agenda post
Course Reviewer		1.02
Comments		

Daniel Forciniti (forcinit)

Date Submitted: 12,	/10/18 2:36 pm	
/iewing: CHEM	I ENG 5161: Intermediate Molecular Engineering	In Workflow
File: 4291.6		1. RCHEMENG Chai
ast approved: 05	/24/16 4·57 am	2. CCC Secretary
ast approved: 05		3. Engineering DSC
Changes proposed b	·	Chair
		4. Pending CCC Agenda post
Requested	Fall 2019 08/14/2018	5. CCC Meeting
Effective Change Date		Agenda
		6. Campus Curricula
Department	Chemical and Biochemical Engineering	Committee Chair
Discipline	Chemical Engineering (CHEM ENG)	7. FS Meeting
Course Number	5161	Agenda
Title		8. Faculty Senate
	Intermediate Molecular Engineering	Chair
Abbreviated	Molecular Engineering	9. Registrar
Course Title		10. CAT entry11. Peoplesoft
Catalog	Molecular aspects of chemical thermodynamics, transport processes, reaction	11. Peoplesort
Description	dynamics, and statistical and quantum mechanics, and their treatments in	
·	molecular-based modeling and simulation approaches. mechanics.	Approval Path
Prerequisites	Chem Eng 3120 or graduate standing.	1. 12/11/18 6:04 pr
•	Chem Eng 3220 of grounder standing.	Muthanna Al-
Field Trip Statement		Dahhan (aldahhanm):
Statement		Approved for
Credit Hours	LEC: 3 LAB: 0 IND: 0 RSD: 0 Total: 3	RCHEMENG Chai
Required for	No	2. 12/12/18 9:52 ar
Majors		Brittany Parnell
Elective for	Yes	(ershenb):
Majors		Approved for CCC
		Secretary
Justification for	The extension of the course description is to add one more important topic that	3. 12/17/18 12:15
change:	reflects current progresses and bridges the gap between fundamental science and	pm Charles Bases
	engineering applications.	Stephen Raper
Semesters		(sraper): Approved for
previously		Engineering DSC
offered as an		Chair
experimental course		4. 12/17/18 1:18 pr
		Brittany Parnell
Co-Listed		(ershenb):
Courses:		Approved for
Course Reviewer		Pending CCC
Comments		Agenda post
		Key: 4291
		History
		1. May 24, 2016 by

Date Submitted: 11,	/14/18 10:28 am	
/iewing: ECON	4540 : Energy Economics	In Workflow
ile: 1747.1	5	1. RECONOMI Chai
ast edit: 11/14/1	8 10·28 am	2. RCHEMENG Chai
Changes proposed b		3. MINEXP ENG
		Chair
Requested	Fall 2019 08/14/2018	4. CCC Secretary 5. Social Sciences
Effective Change Date		DSCC Chair
		6. Engineering DSC
Department	Economics	Chair
Discipline	Economics (ECON)	7. Pending CCC
Course Number	4540	Agenda post
Title	Energy Economics	8. CCC Meeting
		Agenda
Abbreviated	Energy Economics	9. Campus Curricula
Course Title		Committee Chair
Catalog	Market structure. World resource development. For students interested in both	10. FS Meeting
Description	economic Supply and engineering issues of demand analysis on energy policy.	Agenda 11. Faculty Senate
	production and consumption within domestic and global settings. Provides an	Chair
	assessment of economics and technology issues related to traditional and	12. Registrar
	renewable energy resources. Presented in a framework that allows for analysis of	13. CAT entry
	the economic trade-offs between energy sources and the technologies associated	14. Peoplesoft
	with their use and extraction.	
Prerequisites	Econ 2100.	Approval Path
Field Trip		1. 11/14/18 1:18 pn
Statement		Gregory Gelles
Credit Hours	LEC: 3 LAB: 0 IND: 0 RSD: 0 Total: 3	(gelles):
		Approved for
Required for	No	RECONOMI Chair
Majors		2. 11/15/18 4:38 an
Elective for	No	Muthanna Al-
Majors		Dahhan (aldahhanm):
Justification for	This form is being submitted to correct previous form submissions for co-listing	(aldannanm): Approved for
change:	CHEM ENG 4540 and MIN ENG 4524 to ECON 4540 which negated the	RCHEMENG Chai
_	primary/secondary relationship; This form will correctly identify ECON as the	3. 12/05/18 8:18 ar
	primary department.	Kwame Awuah-
Semesters		Offei (kwamea):
previously		Approved for
offered as an		MINEXP ENG
experimental		Chair
course		4. 12/05/18 8:23 an
Co-Listed	CHEM ENG 4540 - Energy Economics	Brittany Parnell
Courses:	MIN ENG 4524 - Energy Economics	(ershenb):
		Approved for CCC Secretary
Course Reviewer		5. 12/05/18 9:57 an
Comments		Barry Flachsbart
		Key: 1747

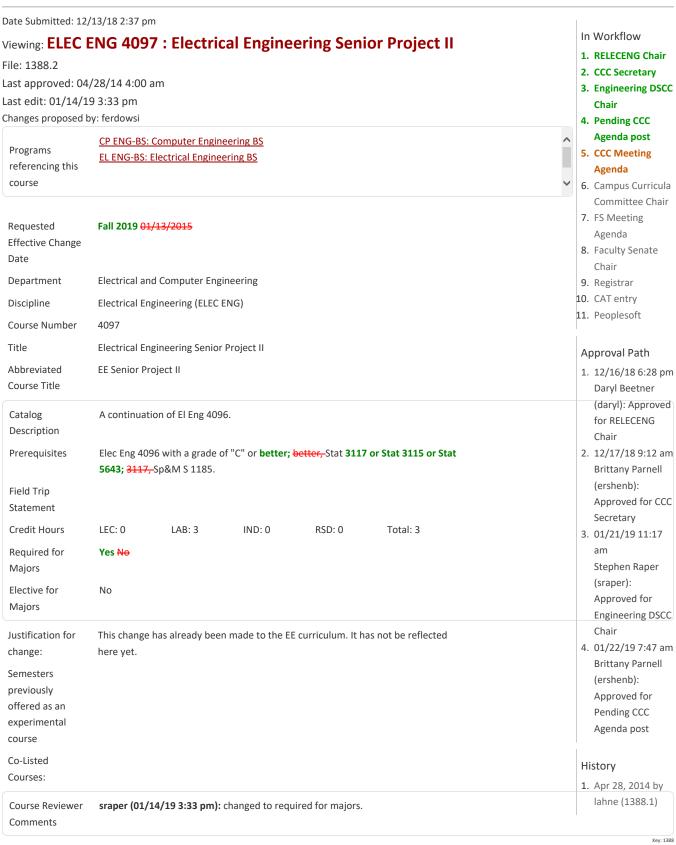
Approved for Social Sciences DSCC Chair

6. 12/17/18 12:15 pm Stephen Raper (sraper): Approved for Engineering DSCC Chair

7. 12/17/18 1:18 pm Brittany Parnell (ershenb): Approved for Pending CCC Agenda post

Date Submitted: 12/13/18 2:36 pm In Workflow **Viewing: ELEC ENG 4096: Electrical Engineering Senior Project I** 1. RELECENG Chair File: 2214.11 2. CCC Secretary Last approved: 06/29/18 3:39 am 3. Engineering DSCC Last edit: 12/17/18 8:50 am Chair Changes proposed by: ferdowsi 4. Pending CCC Agenda post **CP ENG-BS: Computer Engineering BS** Programs 5. CCC Meeting EL ENG-BS: Electrical Engineering BS referencing this Agenda course 6. Campus Curricula Committee Chair In The Prerequisites: Other Courses 7. FS Meeting ELEC ENG 4097: Electrical Engineering Senior Project II referencing this Agenda course 8. Faculty Senate Chair 9. Registrar Requested Fall Spring-2019 10. CAT entry **Effective Change** 11. Peoplesoft Date Department **Electrical and Computer Engineering** Approval Path Discipline Electrical Engineering (ELEC ENG) 1. 12/16/18 6:28 pm Course Number 4096 Daryl Beetner (daryl): Approved Title Electrical Engineering Senior Project I for RELECENG Abbreviated EE Senior Project I Chair Course Title 2. 12/17/18 8:51 am Brittany Parnell Catalog A complete design cycle. Working in small teams, students will design, document, (ershenb): Description analyze, implement and test a product. Topics include: Iteration in design, Approved for CCC prototyping, group dynamics, design reviews, making effective presentations, Secretary concurrent design, designing for test, ethics and standards, testing and evaluation. 3. 01/21/19 11:17 Prerequisites Comp Eng 2210, Econ 1100 or Econ 1200, English 3560 or English 1160, and at least am three of the following: Elec Eng 3500 or Elec Eng 3540; Elec Eng 3320, Elec Eng 3430, Stephen Raper Elec Eng 3600 or Elec Eng 3100. (sraper): Approved for Field Trip **Engineering DSCC** Statement Chair Credit Hours LEC: 0 LAB: .5 IND: 0 RSD: .5 Total: 1 4. 01/22/19 7:47 am Required for Brittany Parnell Yes (ershenb): Majors Approved for Elective for Nο Pending CCC Majors Agenda post Justification for This change has already been made to the EE curriculum. It has not be reflected change: here yet. History 1. Apr 28, 2014 by Semesters lahne (2214.1) previously offered as an 2. Oct 20, 2014 by lahne (2214.2)

experimental course	3. Jun 29, 2018 by sweetk (2214.3)	
Co-Listed Courses:		
Course Reviewer Comments		
	Key- 2 Preview Bri	



Date Submitted: 11/29/18 11:20 am In Workflow **Viewing: ELEC ENG 6830 6340: Clustering Algorithms** 1. RELECENG Chair File: 691.1 2. RENGMNGT Last edit: 11/29/18 11:20 am Chair Changes proposed by: kte 3. RCOMPSCI Chair 4. RMATHEMA Fall 2019 08/01/2014 Requested Chair **Effective Change** 5. CCC Secretary Date 6. Engineering DSCC Department **Electrical and Computer Engineering** Chair Discipline Electrical Engineering (ELEC ENG) 7. Pending CCC Agenda post 6830 6340 Course Number 8. CCC Meeting Title Clustering Algorithms Agenda Abbreviated Clustering Algorithms 9. Campus Curricula Course Title Committee Chair 10. FS Meeting Catalog An introduction to cluster analysis and clustering algorithms rooted in Agenda computational intelligence, computer science and statistics. Clustering in sequential Description 11. Faculty Senate data, massive data and high dimensional data. Students will be evaluated by Chair individual or group research projects and research presentations. 12. Registrar 13. CAT entry Prerequisites At least one graduate course in statistics, data mining, algorithms, computational 14. Peoplesoft intelligence, or neural networks, consistent with student's degree program. Field Trip Approval Path Statement 1. 11/29/18 12:12 **Credit Hours** LEC: 3 LAB: 0 IND: 0 RSD: 0 Total: 3 pm Required for Nο Daryl Beetner Majors (daryl): Approved Elective for for RELECENG Yes No Chair Majors 2. 12/12/18 11:32 Justification for In ECE, the second digit in a course represents an area. A digit of "3" should be a am change: control systems course and this is not a controls course. The second digit changed to Suzanna Long "8" which is the correct one for areas outside of EE. Changed the 3rd digit to more (longsuz): closely align the number with the CpE 6330 primary course. Approved for **RENGMNGT Chair** Also corrected STAT co-listed course 3. 01/09/19 3:44 pm Bruce McMillin Semesters (ff): Approved for previously **RCOMPSCI** Chair offered as an 4. 01/09/19 5:06 pm experimental sclark: Approved course for RMATHEMA Co-Listed COMP ENG 6330 - Clustering Algorithms Chair Courses: SYS ENG 6214 - Clustering Algorithms 5. 01/10/19 10:12 COMP SCI 6405 - Clustering Algorithms am AND STAT 6239 - Course Not Found **Brittany Parnell** STAT 6239 - Clustering Algorithms (ershenb):

Course Reviewer Approved for CCC Secretary Comments Key: 691 6. 01/21/19 11:18 am Stephen Raper (sraper): Approved for Engineering DSCC Chair 7. 01/22/19 7:47 am **Brittany Parnell** (ershenb): Approved for Pending CCC Agenda post

Date Submitted: 01/07/19 3:05 pm

Viewing: ENGLISH 3218: The British Novel #

File: 1748.1

Last edit: 01/08/19 8:54 am Changes proposed by: kswenson

Fall 2019 08/01/2014 Requested

Effective Change

Date

Department **English and Technical Communication**

Discipline English (ENGLISH)

Course Number 3218

Title The British Novel |

Abbreviated The British Novel +

Course Title

Description

Catalog

The history, development, and cultural contexts of the British novel from the late

LAB: 0

IND: 0

RSD: 0

Total: 3

seventeenth to the present. early nineteenth century.

Prerequisites

English 1120 and a semester of college literature.

LEC: 3

Field Trip

Statement

Credit Hours

Required for No

Majors

Elective for No

Majors

Justification for

change:

Change of title and description to reflect the content of the course.

Semesters

previously

offered as an

experimental

course

In Workflow

1. RENGLISH Chair

2. CCC Secretary

3. Arts &

Humanities 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. CAT entry

11. Peoplesoft

Approval Path

1. 01/07/19 3:11 pm

Kristine Swenson

(kswenson):

Approved for **RENGLISH Chair**

2. 01/08/19 8:54 am

Brittany Parnell (ershenb):

Approved for CCC

Secretary

3. 01/09/19 10:10

Petra Dewitt

(dewittp):

Approved for Arts

& Humanities

DSCC Chair

4. 01/15/19 9:56 am **Brittany Parnell** (ershenb):

Co-Listed Courses:	Approved for Pending CCC Agenda post
Course Reviewer Comments	
	Key: 1748
	Preview Bridge

Date Submitted: 01/07/19 3:04 pm

Viewing: ENGLISH 3219: The Lives and Works of J.R.R. Tolkien

and C.S. Lewis The British Novel II

File: 976.3

Last approved: 06/30/14 3:55 am Last edit: 01/09/19 10:11 am Changes proposed by: kswenson

Requested Fall 2019 08/01/2014

Effective Change

Date

Department English and Technical Communication

Discipline English (ENGLISH)

Course Number 3219

Title The Lives and Works of J.R.R. Tolkien and C.S. Lewis The British Novel II

Abbreviated Tolkien and Lewis The British

Course Title Novel II

In Workflow

- 1. RENGLISH Chair
- 2. CCC Secretary
- 3. Arts &

Humanities DSCC

Chair

4. Pending CCC Agenda post

5. CCC Meeting

Agenda

- Campus Curricula Committee Chair
- FS Meeting Agenda
- 8. Faculty Senate

Chair

- 9. Registrar
- 10. CAT entry
- 11. Peoplesoft

Catalog

Description

A study of the works development of prominent British authors JRR Tolkien the novel with major attention given to the Victorian and CS Lewis in the context of early twentieth 20th century history and culture, with special attention given to the mythological, religious, and linguistic origins of their novels. novelists.

LAB: 0

IND: 0

RSD: 0

Total: 3

Prerequisites

English ENGLISH-1120 and a semester of college literature.

LEC: 3

Field Trip Statement

Credit Hours

Required for No

Majors

Elective for No

Majors

Justification for

change:

Changing the title and description to better reflect the course content.

Approval Path

1. 01/07/19 3:12 pm Kristine Swenson

(kswenson):

Approved for

RENGLISH Chair 2. 01/08/19 8:55 am

Brittany Parnell (ershenb):

Approved for CCC

Secretary

3. 01/09/19 10:11

am

Petra Dewitt (dewittp):

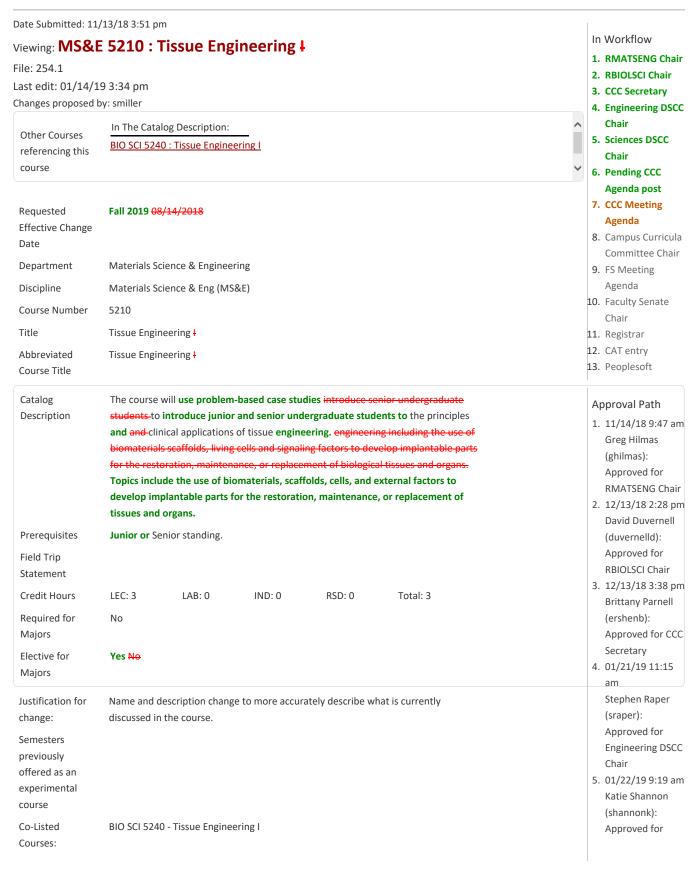
Approved for Arts

& Humanities

DSCC Chair

4. 01/15/19 9:56 am
Brittany Parnell
(ershenb):

Semesters previously	Approved for Pending CCC
offered as an	Agenda post
experimental course	History
Co-Listed	1. Jun 30, 2014 by kswenson (976.1)
Courses:	KSWEIISUII (570.1)
Course Reviewer	
Comments	Key: 976

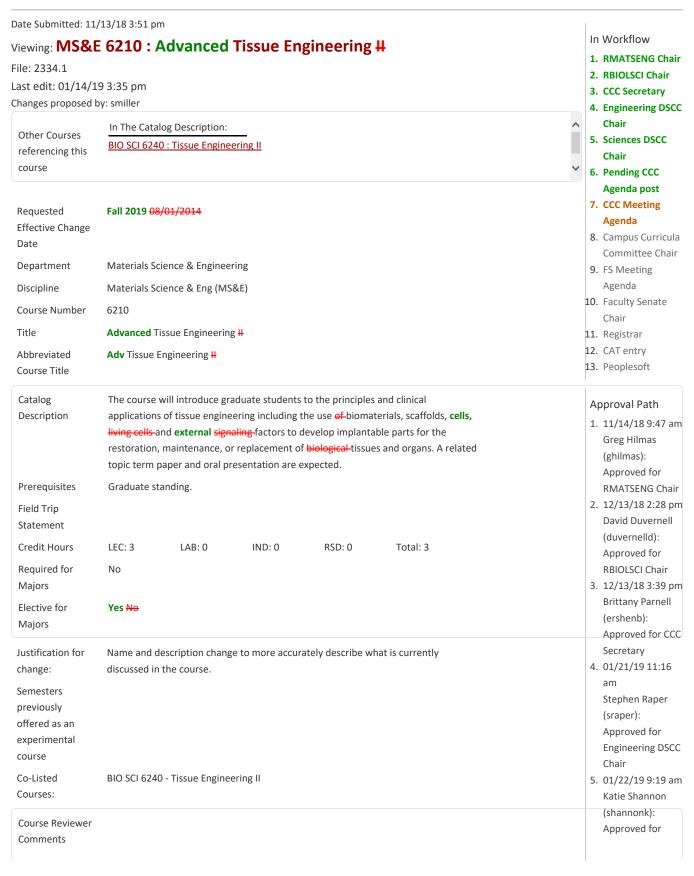


Course Reviewer Comments

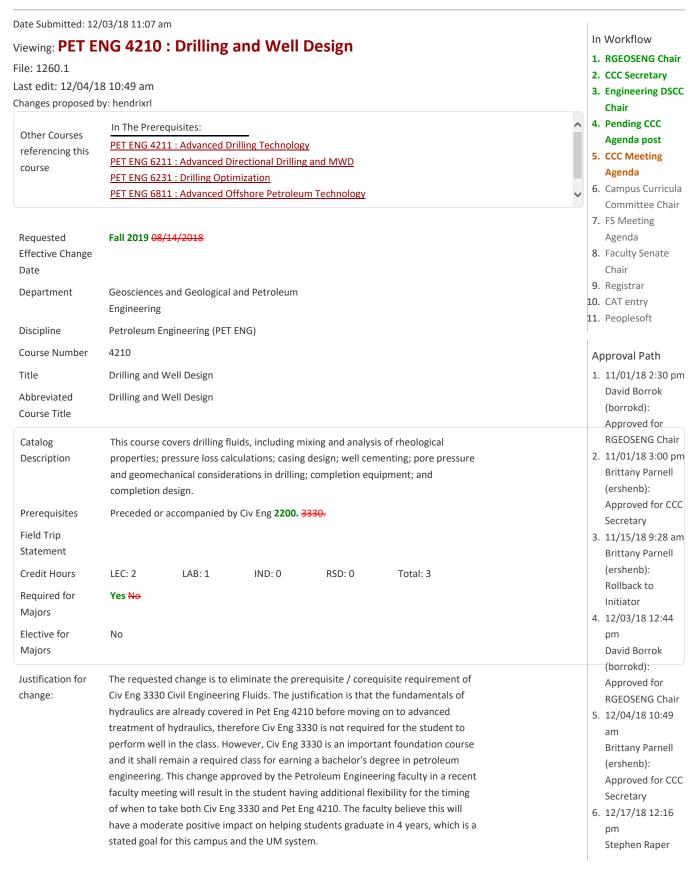
sraper (01/14/19 3:34 pm): changed to elective for majors

Chair
6. 01/22/19 9:33 am

Brittany Parnell (ershenb):
Approved for Pending CCC
Agenda post



sraper (12/17/18 12:19 pm): Science DSCC suggest striking "the use" in catalog Sciences DSCC Chair description. sraper (01/14/19 3:35 pm): changed to elective for majors. 6. 01/22/19 9:32 am Brittany Parnell Key: 2334 (ershenb): Approved for Pending CCC Agenda post



Semesters		(sraper):
previously		Approved for
offered as an		Engineering DSCC
experimental		Chair
course		7. 12/17/18 1:18 pm
Co-Listed	GEOLOGY 4001 - Special Topics	Brittany Parnell
Courses:	CECECOT 1992 Special ropius	(ershenb):
courses.		Approved for
Course Reviewer	sraper (11/09/18 1:45 pm): Checked Required for majors.	Pending CCC
Comments	ershenb (11/15/18 9:28 am): Rollback: Rollback per the request of Dr. Flori's email.	Agenda post

New Experimental Course Proposal

Date Submitted: 12/06/18 1:24 pm

Viewing: BIO SCI 4001.004: Animal Behavior

File: 4588

Last edit: 01/23/19 11:39 am Changes proposed by: verbler

Requested

Fall 2019

Effective Change

Date

Department

Biological Sciences

Discipline

Biological Sciences (BIO SCI)

Course Number

4001

Topic ID

004

Experimental

Animal Behavior

Title

Experimental

Animal Behavior

Abbreviated

Course Title

Instructors

Robin Verble

Experimental

Catalog

Description

An introduction to key concepts in Animal Behavior. Topics include communication, foraging, spatial behavior, parental care, social behaviors, the effects of environment on behavior, phenotypic plasticity, behavioral ecology, and anthropomorphism. The course will consist of lectures and laboratory exercises.

Prerequisites

Bio Sci 1113 or Bio Sci 1213.

Field Trip

Statement

The laboratory portion of this course will require three local field trips that will be arranged prior to the beginning of the course.

Credit Hours

LEC: 2

LAB: 1

IND: 0

RSD: 0

Total: 3

In Workflow

1. RBIOLSCI 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. 12/06/18 2:00 pm

David Duvernell (duvernelld):

Approved for **RBIOLSCI** Chair

2. 12/07/18 11:30

am

Brittany Parnell

(ershenb):

Approved for CCC

Secretary

3. 01/09/19 10:20

am

Katie Shannon

(shannonk):

Approved for

Sciences DSCC

Chair

4. 01/15/19 9:54 am

Brittany Parnell (ershenb):

Approved for

Pending CCC Agenda post

Justification for

new course:

1--This course will increase laboratory courses offered in the Department of Biological Sciences.

2-- This course will increase the number of organismal courses offered in the Department of Biological Sciences.

3-- This course will fill a gap in current BIO SCI curriculum.

Semester(s) previously taught None at Missouri S&T

Co-Listed Courses:

Course Reviewer Comments

ershenb (01/23/19 11:39 am): Per the request of Dr. Shannon, changed course

number from 4000 to 4001 since it is a special topics course.

	New Experimental Course Proposal	In Workflow
Date Submitted: 12/	/17/18 4:04 pm	1. MINEXP ENG
Viewing: EXP ENG 6001.005: Construction Blasting		Chair
File: 4589		2. CCC Secretary
Last edit: 01/22/19 7:50 am		3. Engineering DSC
Changes proposed b	y: pworsey	Chair
Requested	Fall 2019	4. Pending CCC Agenda post
Effective Change		5. CCC Meeting
Date		Agenda
Department	Mining & Nuclear Engineering	6. Campus Curricula
Discipline	Explosives Engineering (EXP ENG)	Committee Chair
Course Number	6001	7. CAT entry 8. Registrar
Topic ID	005	9. Peoplesoft
Experimental	Construction Blasting	l I
Title		Approval Path
Experimental	Construction Blasting	1. 12/17/18 4:11 pr
Abbreviated		Kwame Awuah-
Course Title		Offei (kwamea): Approved for
Instructors	Calvin Konya	MINEXP ENG
Experimental	Students will learn how to blast and design blasts specifically in the construction	Chair
Catalog	industry and navigate within government specifications. The course will cover	2. 12/17/18 4:21 pr
Description	current USACE and DOT specifications and how contractors can go about costing and	Brittany Parnell (ershenb):
	performing under these. The final project will be preparation of a master blasting	Approved for CCC
	plan for a real world project.	Secretary
Prerequisites	Graduate standing.	3. 01/21/19 11:17
Field Trip	None required.	am
Statement		Stephen Raper (sraper):
Credit Hours	LEC: 3 LAB: 0 IND: 0 RSD: 0 Total: 3	Approved for
Justification for	The course will expand the course offerings in the Explosives Engineering distance	Engineering DSCO
new course:	program but will also be applicable to both civil and mining engineers, as well as	Chair
	project/construction management under the engineering management degree	4. 01/22/19 7:50 ar
	programs.	Brittany Parnell (ershenb):
Semester(s)	N/A	Approved for
previously taught		Pending CCC
Co-Listed		Agenda post
Courses:		
Course Reviewer	sraper (01/21/19 11:17 am): changed wording	
Comments		