



Minutes of the Campus Curricula Committee Meeting

April 6, 2023

8:15am, Bertelsmeyer 110H

(For Faculty Senate Meeting on April 27, 2023)

Attendees: Petra Dewitt, Katie Shannon, Michael Davis, Mark Fitch, Kyle Perry, Michael Gosnell, Cecil Eng Huang Chua, Melody Lo, and Jennifer Pohlsander

The following curriculum forms were discussed and approved:

Course Change forms:

File: 2021.1 ART 1164 : Sculpture
File: 4891 CHEM 5650 : Introduction to Medicinal Chemistry
File: 358.1 CIV ENG 6331 : Advanced Open-Channel Hydraulics
File: 4942 ECON 3300 : Introduction to Econometrics
File: 4937 ECON 3333 : Computational Economics
File: 4936 ECON 4383 : Financial Economics
File: 4940 ECON 4538 : Advanced Econometrics
File: 4941 ECON 5360 : Data Driven Strategic Insights
File: 1688.1 ELEC ENG 6320 : Nonlinear Control Systems
File: 4557.3 ELEC ENG 6370 : Adaptive Control
File: 32.7 ENGLISH 2560 : Technical Marketing Communication
File: 4962 ENV SCI 1001 : Special Topics
File: 4960 ENV SCI 2001 : Special Topics
File: 4963 ENV SCI 3001 : Special Topics
File: 4964 ENV SCI 4001 : Special Topics
File: 4965 ENV SCI 5001 : Special Topics
File: 320.9 ERP 6220 : Data Modeling & Visualization Prototyping for Enterprise Decision Dashboard
File: 4499.8 FINANCE 5310 : Financial Technology and Analytics

Program Change forms:

File: 151.18 CHEM-BA : Chemistry BA
File: 395 PROPOSED : Decision Data Analytics – CTU
File: 396 PROPOSED : Energy Economics – CTU
File: 394 PROPOSED : Financial Economics and Technology – CTU
File: 392 PROPOSED : Undergraduate Certificate in Medical Chemistry CTU



Experimental Course forms:

File: 4944 BUS 5001.001 : Sport Management
File: 4945 BUS 5001.002 : The Business of eSports
File: 4938 CHEM ENG 5001.018 : Mathematic Applications for Chemical Engineering
File: 4907 ELEC ENG 5001.009 : Batch Process Control
File: 4946 IS&T 5001.003 : Fundamentals of Cybersecurity Analytics
File: 4939 PSYCH 4001.001 : Music and the Mind

Name Change form:

8 : Education

The following forms were rolled back for revisions:

File: 4943 ECON 5350 : Data Intelligence using Case Studies
File: 38.33 ECON-BA : Economics BA
File: 39.31 ECON-BS : Economics BS
File: 398 ~~PROPOSED : Business Economics Minor~~ *
*Withdrawn prior to meeting - not proposed

New Business:

Discussion regarding the development of reusable asynchronous courses.
The CCC 2023-2024 calendar was reviewed.

The meeting adjourned at 9:28 a.m.

Petra DeWitt

Petra DeWitt, Chair
Missouri S&T Campus Curricula Committee

Course Change Request

Date Submitted: 03/08/23 1:42 pm

Viewing: **ART 1164 : Sculpture**

File: 2021.1

Last edit: 03/09/23 8:16 am

Changes proposed by: cht3m

Programs
referencing this
course

[STU ART-MI: Studio Art Minor](#)

Requested Fall 2023 ~~2014~~

Effective Change

Date

Department Arts, Languages, & Philosophy

Discipline Art (ART)

Course Number 1164

Title

In Workflow

1. **RPHILOSO 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. 03/08/23 2:09 pm
Audra Merfeld-Langston
(audram):
Approved for
RPHILOSO Chair
2. 03/09/23 9:13 am
Jennifer

- Pohlsander
(jpnfd): Approved
for CCC Secretary
3. 03/09/23 10:22
am
Petra Dewitt
(dewittp):
Approved for Arts
& Humanities
DSCC Chair
4. 03/22/23 10:04
am
Jennifer
Pohlsander
(jpnfd): Approved
for Pending CCC
Agenda post
5. 04/07/23 3:08 pm
Jennifer
Pohlsander
(jpnfd): Approved
for CCC Meeting
Agenda
6. 04/07/23 3:31 pm
Petra Dewitt
(dewittp):
Approved for
Campus Curricula
Committee Chair

Sculpture

Abbreviated
Course Title

Sculpture

Catalog

Description

Solving problems in three dimensions. Includes use of clay ~~Solving problems in shallow~~ and other sculpture materials in the ~~BAS relief and small clay sculpture,~~ study of ~~of~~ contemporary and classical proportion. ~~proportion, faux bronze and plaster casting.~~

Prerequisites

Field Trip

Statement

Credit Hours	LEC: 3	LAB: 0	IND: 0	RSD: 0
Total: 3				
Required for Majors	No			
Elective for Majors	No			

Justification for change:

Changing course description

Previous description:

Solving problems in shallow and BAS relief and small clay sculpture, study of contemporary and classical proportion, faux bronze and plaster casting.

New description:

Solving problems in three dimensions. Includes use of clay and other sculpture materials in the study of contemporary and classical proportion.

Semesters

previously offered as an experimental

course

Co-Listed

Courses:

Course Reviewer

Comments

jpnfd (03/09/23 8:16 am): Updated term to Fall 2023

Key: 2021

[Preview Bridge](#)

Course Change Request

New Course Proposal

Date Submitted: 08/23/22 12:07 pm

Viewing: **CHEM 5650 : Introduction to Medicinal Chemistry**

File: 4891

Last edit: 03/15/23 3:30 pm

Changes proposed by: nercal

Programs
referencing this
course

[PROPOSED: Undergraduate Certificate in Medical Chemistry
CTU](#)

Requested Fall 2023

Effective Change
Date

Department Chemistry

Discipline Chemistry (CHEM)

Course Number 5650

Title

In Workflow

1. **RCHEMIST 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. 08/23/22 12:23
pm
Chariklia Sotiriou-
Leventis
(cslevent):
Approved for
RCHEMIST Chair
2. 08/30/22 8:08 am
Jennifer

- Pohlsander
(jpnfd): Approved
for CCC Secretary
3. 09/09/22 8:33 am
Katie Shannon
(shannonk):
Approved for
Sciences DSCC
Chair
4. 09/14/22 3:21 pm
Jennifer
Pohlsander
(jpnfd): Approved
for Pending CCC
Agenda post
5. 10/05/22 2:30 pm
Jennifer
Pohlsander
(jpnfd): Rollback
to RCHEMIST
Chair for CCC
Meeting Agenda
6. 01/31/23 8:18 pm
Chariklia Sotiriou-
Leventis
(cslevent):
Approved for
RCHEMIST Chair
7. 03/08/23 11:14
am
Jennifer
Pohlsander
(jpnfd): Approved
for CCC Secretary
8. 03/15/23 3:30 pm

Katie Shannon
(shannonk):
Approved for
Sciences DSCC
Chair

9. 03/22/23 10:05
am

Jennifer
Pohlsander
(jpnfd): Approved
for Pending CCC
Agenda post

10. 04/07/23 3:11 pm
Jennifer
Pohlsander
(jpnfd): Approved
for CCC Meeting
Agenda

11. 04/07/23 3:31 pm
Petra Dewitt
(dewittp):
Approved for
Campus Curricula
Committee Chair

Introduction to Medicinal Chemistry

Abbreviated Med Chem
Course Title

Catalog

Description

A survey of the important aspects of analytical, organic, and physical chemistry as they relate to drug development, metabolism, and mechanism of action. A deeper understanding about drug design and molecular mechanisms by which drugs work in the body will be covered.

Prerequisites

Chem 2220.

Field Trip

Statement

N/A

Credit Hours

LEC: 3

LAB: 0

IND: 0

RSD: 0

Total: 3

Required for

No

Majors

Elective for

Yes

Majors

Justification for

new course:

This course is required to meet the needs of students enrolling in a new Undergraduate Certificate Program in Medicinal Chemistry offered by the Department of Chemistry.

Semesters

previously

offered as an

experimental

course

N/A

Co-Listed

Courses:

Course Reviewer

Comments

jpnfd (08/29/22 2:51 pm): Updated prereq format

jpnfd (10/05/22 2:30 pm): Rollback: The proposal for the certificate that this course applies to has not been received. When the Certificate Program in Medicinal Chemistry is submitted, then Chem 5650 can be resubmitted simultaneously.

Course Change Request

Date Submitted: 07/25/22 3:43 pm

Viewing: **CIV ENG 6331 : Advanced Open-Channel Hydraulics ~~And Hydraulic Engineering~~**

File: 358.1

Last edit: 03/08/23 5:26 pm

Changes proposed by: seelyj

Programs
referencing this
course

[WATERSC-MS: Water Science and Engineering MS](#)

Requested Effective Change Date
Fall ~~2014~~ 2023

Department Civil, Architectural, and Environmental Engineering

Discipline Civil Engineering (CIV ENG)

Course Number 6331

Title

In Workflow

1. RCIVILEN 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. CAT entry
11. Peoplesoft

Approval Path

1. 10/19/22 2:40 pm
Joel Burken
(burken):
Approved for
RCIVILEN Chair
2. 11/30/22 10:59 am
Jennifer
Pohlsander

- (jpnfd): Approved
for CCC Secretary
3. 03/08/23 5:26 pm
Mark Fitch
(mfitch):
Approved for
Engineering DSCC
Chair
4. 03/22/23 10:05
am
Jennifer
Pohlsander
(jpnfd): Approved
for Pending CCC
Agenda post
5. 04/07/23 3:11 pm
Jennifer
Pohlsander
(jpnfd): Approved
for CCC Meeting
Agenda
6. 04/07/23 3:32 pm
Petra Dewitt
(dewittp):
Approved for
Campus Curricula
Committee Chair

Advanced Open-Channel Hydraulics ~~And Hydraulic Engineering~~

Abbreviated Adv Op-Chan Hydrl ~~& Hydrl~~
Course Title ~~Engr~~

Catalog

Description

Advanced studies ~~Studies~~ in the field of open-channel hydraulic engineering.

~~engineering to fit the needs of a particular student or class.~~ Each student will be assigned ~~makes~~ a research topic ~~complete design of a hydraulic development~~ in open-channel hydraulics that will require a research paper ~~one of the following fields; water power, sanitation, river~~ and an advanced project that will require coding of algorithms to simulate the hydraulics in a river and harbor situation. ~~projects.~~

Prerequisites

Civ Eng 3330.

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:

Updating course description to more accurately represent class material.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer

Comments

jpnfd (11/18/22 9:34 am): Updated requested effective change date to Fall 2023

jpnfd (11/21/22 1:41 pm): Per email from Joel Burken on 11/21/22, "The change is

updating the course description to be more up to date with current hydraulic engineering projects and applications, including more computational approaches and current terminology to better communicate the course to prospective students."

mfitch (03/08/23 5:26 pm): Questions raised at DSCC that change may be > 50%, but approved.

Key: 358

[Preview Bridge](#)

Course Change Request

New Course Proposal

Date Submitted: 02/13/23 3:06 pm
Viewing: **ECON 3300 : Introduction to Econometrics**
File: 4942
Last edit: 04/06/23 9:59 am
Changes proposed by: davismc

Programs referencing this course	ECON-BA: Economics BA ECON-BS: Economics BS PROPOSED: Decision Data Analytics - CTU PROPOSED: Quantitative Economics Minor
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Requested Effective Change Date	Fall 2023
Department	Economics
Discipline	Economics (ECON)
Course Number	3300
Title	Introduction to Econometrics
Abbreviated Course Title	Intro Econometrics

Catalog Description	This course covers applied perspectives on basic concepts of econometrics using regression methods, including simple regression, multiple regression, and generalized least squares. In addition, the course introduces students to the practice of econometric analysis on real-world applications using the programming languages R and STATA.
Prerequisites	Econ 1100 and Econ 1200 and, one of the following: Stat 1115, Stat 3111, Stat 3113, Stat 3115, Stat 3117, or Stat 3546.

- In Workflow
- 1. **RECONOMI 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. CAT entry
 - 11. Peoplesoft

- Approval Path
- 1. 02/15/23 5:22 pm
Melody Lo
(mlc2d):
Approved for
RECONOMI Chair
 - 2. 03/10/23 11:52
am
Jennifer
Pohlsander
(jpnfd): Approved
for CCC Secretary
 - 3. 03/10/23 12:10
pm
Cecil Eng Huang
Chua (cchua):
Approved for

Field Trip
Statement

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

Required for Yes
Majors

Elective for No
Majors

Justification for
new course:

This course is part of the new Undergraduate Certificates in Decision Data Analytics.
It is also part of the new emphasis area of Decision Data Analytics.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer **jpnfd (02/24/23 4:12 pm):** Updated prerequisite format.
Comments **jpnfd (03/09/23 4:03 pm):** Added Stat 3111 to prerequisites per dept.
 jpnfd (04/06/23 9:59 am): Changed Elective for Majors to "No."

Social Sciences
DSCC Chair

4. 03/22/23 10:05
am

Jennifer
Pohlsander
(jpnfd): Approved
for Pending CCC
Agenda post

5. 04/07/23 3:12 pm
Jennifer

Pohlsander
(jpnfd): Approved
for CCC Meeting
Agenda

6. 04/07/23 3:32 pm
Petra Dewitt
(dewittp):
Approved for
Campus Curricula
Committee Chair

Course Change Request

New Course Proposal

Date Submitted: 02/13/23 3:07 pm

Viewing: **ECON 3333 : Computational Economics**

File: 4937

Last edit: 04/06/23 10:01 am

Changes proposed by: davismc

Programs
referencing this
course

[ECON-BA: Economics BA](#)
[ECON-BS: Economics BS](#)
[PROPOSED: Financial Economics and Technology - CTU](#)
[PROPOSED: Decision Data Analytics - CTU](#)
[PROPOSED: Quantitative Economics Minor](#)

Requested	Fall 2023
Effective Change Date	
Department	Economics
Discipline	Economics (ECON)
Course Number	3333
Title	Computational Economics
Abbreviated Course Title	Computational Economics

Catalog
Description

This course introduces concepts of computational economics using machine learning and artificial intelligence and the practice of analysis using applications related to microeconomics, macroeconomics, and econometrics. The course teaches data and text mining, deep learning, and causal machine learning using Python programming to extract economic insights.

Prerequisites

Econ 1100 and Econ 1200, and one of the following: Stat 1115, Stat 3111, Stat 3113, Stat 3115, Stat 3117, or Stat 3546.

In Workflow

1. **RECONOMI 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. CAT entry
11. Peoplesoft

Approval Path

1. 02/15/23 5:22 pm
Melody Lo
(mlc2d):
Approved for
RECONOMI Chair
2. 03/10/23 11:52
am
Jennifer
Pohlsander
(jpnfd): Approved
for CCC Secretary
3. 03/10/23 12:10
pm
Cecil Eng Huang
Chua (cchua):
Approved for

Field Trip
Statement

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

Total: 3

Required for
Majors Yes

Elective for
Majors No

Justification for
new course:

This course is part of the new Undergraduate Certificates in Financial Economics and Technology and Decision Data Analytics. It is also part of the new emphasis areas in Financial Economics and Technology and Decision Data Analytics.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer **jpnfd (02/24/23 4:10 pm):** Updated prerequisite format.
Comments **jpnfd (03/09/23 4:03 pm):** Added Stat 3111 to prerequisites per dept.
 jpnfd (04/06/23 10:01 am): Changed Elective for Majors to "No."

Social Sciences
DSCC Chair

4. 03/22/23 10:05
am

Jennifer
Pohlsander
(jpnfd): Approved
for Pending CCC
Agenda post

5. 04/07/23 3:12 pm

Jennifer
Pohlsander
(jpnfd): Approved
for CCC Meeting
Agenda

6. 04/07/23 3:32 pm

Petra Dewitt
(dewittp):
Approved for
Campus Curricula
Committee Chair

Key: 4937

[Preview Bridge](#)

Course Change Request

New Course Proposal

Date Submitted: 02/13/23 3:08 pm

Viewing: **ECON 4383 : Financial Economics**

File: 4936

Last edit: 04/06/23 10:02 am

Changes proposed by: davismc

Programs
referencing this
course

[ECON-BA: Economics BA](#)
[ECON-BS: Economics BS](#)
[PROPOSED: Financial Economics and Technology - CTU](#)
[PROPOSED: Quantitative Economics Minor](#)

Requested	Fall 2023
Effective Change Date	
Department	Economics
Discipline	Economics (ECON)
Course Number	4383
Title	Financial Economics
Abbreviated Course Title	Financial Economics

Catalog
Description

The course introduces the construction of financial modeling. The first part of the course develops the theoretical economic foundation of financial models including security valuation, interest-rate, and exchange-rate models, while the second part covers applications using these models to derive corporate financial strategies to solve business problems.

Prerequisites

Econ 1100 and Econ 1200.

Field Trip

- In Workflow
1. RECONOMI 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. CAT entry

11. Peoplesoft

- Approval Path
1. 02/15/23 5:22 pm
Melody Lo
(mlc2d):
Approved for
RECONOMI Chair

2. 03/10/23 11:53
am
Jennifer
Pohlsander
(jpnfd): Approved
for CCC Secretary

3. 03/10/23 12:10
pm
Cecil Eng Huang
Chua (cchua):
Approved for

Statement

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

Required for
Majors No

Elective for
Majors Yes

Justification for new course:

The course will be part of the department's new Undergraduate Certificate in Financial Economics and Technology. It will also be part of the department's new emphasis area in Financial Economics and Technology.

Semesters
previously
offered as an
experimental
course

Co-Listed Courses:

Course Reviewer **jpnfd (02/24/23 4:06 pm):** Updated prerequisite format.
Comments **jpnfd (03/10/23 9:43 am):** Updated prerequisite format.
 jpnfd (04/06/23 10:02 am): Changed Required for Majors to "No."

Social Sciences
DSCC Chair

4. 03/22/23 10:05
am

Jennifer
Pohlsander
(jpnfd): Approved
for Pending CCC
Agenda post

5. 04/07/23 3:12 pm

Jennifer
Pohlsander
(jpnfd): Approved
for CCC Meeting
Agenda

6. 04/07/23 3:32 pm

Petra Dewitt
(dewittp):
Approved for
Campus Curricula
Committee Chair

Course Change Request

New Course Proposal

Date Submitted: 02/28/23 12:49 pm

Viewing: **ECON 4538 : Advanced Econometrics**

File: 4940

Last edit: 03/10/23 9:42 am

Changes proposed by: davismc

Programs
referencing this
course

[ECON-BS: Economics BS](#)
[PROPOSED: Quantitative Economics Minor](#)

Requested	Fall 2023
Effective Change Date	
Department	Economics
Discipline	Economics (ECON)
Course Number	4538
Title	Advanced Econometrics
Abbreviated Course Title	Advanced Econometrics

Catalog
Description

This course covers advanced topics in econometrics, including causal inference (such as instrument variable estimation, two-stage least squares, difference-in-difference, and regression discontinuity design), discrete choice models, and time series models. The statistical programming language of R is used, while STATA is introduced as a complementary tool.

Prerequisites

Econ 1100 and Econ 1200 and Econ 3300 and Stat 3111.

Field Trip
Statement

In Workflow

1. RECONOMI 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. CAT entry

11. Peoplesoft

Approval Path

1. 02/28/23 2:16 pm
Melody Lo
(mlc2d):
Approved for
RECONOMI Chair

2. 03/10/23 11:53
am
Jennifer
Pohlsander
(jpnfd): Approved
for CCC Secretary

3. 03/10/23 12:13
pm
Cecil Eng Huang
Chua (cchua):
Approved for

Credit Hours	LEC: 3	LAB: 0	IND: 0	RSD: 0
Total: 3				
Required for Majors	Yes			
Elective for Majors	Yes			

Justification for new course:

This course is now going to be a required course for our majors in the BS degree program.

Semesters previously offered as an experimental course

Co-Listed Courses:

Social Sciences
DSCC Chair
4. 03/22/23 10:05 am
Jennifer Pohlsander (jpnfd): Approved for Pending CCC Agenda post
5. 04/07/23 3:12 pm
Jennifer Pohlsander (jpnfd): Approved for CCC Meeting Agenda
6. 04/07/23 3:32 pm
Petra Dewitt (dewittp): Approved for Campus Curricula Committee Chair

Course Reviewer Comments
jpnfd (03/07/23 3:15 pm): Changed to "Yes" required for Majors per email 3/7/23 from Michael Davis.
jpnfd (03/10/23 9:42 am): Updated prerequisite format.

Key: 4940

[Preview Bridge](#)

Course Change Request

New Course Proposal

Date Submitted: 02/13/23 3:08 pm

Viewing: **ECON 5360 : Data Driven Strategic Insights**

File: 4941

Last edit: 04/06/23 10:06 am

Changes proposed by: davismc

Programs
referencing this
course

[ECON-BA: Economics BA](#)
[ECON-BS: Economics BS](#)
[PROPOSED: Financial Economics and Technology - CTU](#)
[PROPOSED: Decision Data Analytics - CTU](#)
[PROPOSED: Quantitative Economics Minor](#)

Requested	Fall 2023
Effective Change Date	
Department	Economics
Discipline	Economics (ECON)
Course Number	5360
Title	Data Driven Strategic Insights
Abbreviated Course Title	Strategic Insights

Catalog
Description

This course designates a corporate executive to teach identifying the appropriate data analytics for corporate decision-making using modeling frameworks such as regression analysis, forecasting, Monte Carlo simulation, and optimization. The course utilizes Python and cloud-based software platforms to work with large databases in financial contexts.

Prerequisites

Econ 1100 and Econ 1200.

In Workflow

1. RECONOMI 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. CAT entry

11. Peoplesoft

Approval Path

1. 02/15/23 5:22 pm
Melody Lo
(mlc2d):
Approved for
RECONOMI Chair

2. 03/10/23 11:53
am
Jennifer
Pohlsander
(jpnfd): Approved
for CCC Secretary

3. 03/10/23 12:13
pm
Cecil Eng Huang
Chua (cchua):
Approved for

Field Trip
Statement

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

Required for No
Majors

Elective for Yes
Majors

Justification for
new course:

This course is part of the new Undergraduate Certificates in Financial Economics and Technology and Decision Data Analytics. It is also part of the new emphasis areas in Financial Economics and Technology and Decision Data Analytics.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer **jpnfd (02/24/23 4:00 pm):** Updated prerequisite format.
Comments **jpnfd (03/07/23 3:17 pm):** Changed to "Yes" required for Majors & "Yes" elective for Majors per email 3/7/23 from Michael Davis.
 jpnfd (04/06/23 10:06 am): Changed Required for Majors to "No."

Social Sciences
DSCC Chair

4. 03/22/23 10:05
am

Jennifer
Pohlsander
(jpnfd): Approved
for Pending CCC
Agenda post

5. 04/07/23 3:12 pm
Jennifer

Pohlsander
(jpnfd): Approved
for CCC Meeting
Agenda

6. 04/07/23 3:32 pm
Petra Dewitt
(dewittp):
Approved for
Campus Curricula
Committee Chair

Course Change Request

Date Submitted: 02/27/23 9:25 am

Viewing: **ELEC ENG 6320 : Nonlinear Control Systems**

File: 1688.1

Last edit: 03/09/23 8:08 am

Changes proposed by: kte

Programs
referencing this
course

[ADVCNTL-CT: Advanced Control Systems CT](#)

Requested	Fall <u>2023</u> 2014
Effective Change	
Date	
Department	Electrical and Computer Engineering
Discipline	Electrical Engineering (ELEC ENG)
Course Number	6320
Title	

In Workflow

1. RELECENG 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. CAT entry
11. Peoplesoft

Approval Path

1. 02/27/23 9:47 am
Jonathan Kimball
(kimballjw):
Approved for
RELECENG Chair
2. 02/27/23 3:24 pm
Jennifer
Pohlsander
(jpnfd): Approved

- for CCC Secretary
3. 02/28/23 1:47 pm
Mark Fitch
(mfitch):
Approved for
Engineering DSCC
Chair
 4. 03/22/23 10:06
am
Jennifer
Pohlsander
(jpnfd): Approved
for Pending CCC
Agenda post
 5. 04/07/23 3:13 pm
Jennifer
Pohlsander
(jpnfd): Approved
for CCC Meeting
Agenda
 6. 04/07/23 3:32 pm
Petra Dewitt
(dewittp):
Approved for
Campus Curricula
Committee Chair

Nonlinear Control Systems

Abbreviated Nonlinear Control System
Course Title

Catalog

Description

Numerical solution methods, describing function analysis, direct and indirect methods of Liapunov stability, applications to the Lure problem - Popov circle

criterion. Applications to system design and feedback linearizations.

Prerequisites

Elec Eng 6300.

Field Trip

Statement

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

Total: 3

Required for Majors	No
------------------------	----

Elective for Majors	No
------------------------	----

Justification for
change:

Add Mech Eng 6420 as a co-listed course. Allows either department to teach the course for students in both disciplines.

Semesters
previously
offered as an
experimental
course

Co-Listed

Courses:

[MECH ENG 6420 - Course Not Found](#)

Course Reviewer

Comments

jpnfd (02/27/23 9:41 am): Updated term to Fall 2023. Added "MECH ENG" 6420 as co-listed course.

jpnfd (03/09/23 8:08 am): Per email 3/8/23 from Dr. Bayless- MAE approves of this co-list.

Course Change Request

Date Submitted: 02/27/23 9:28 am

Viewing: **ELEC ENG 6370 : Adaptive Control**

File: 4557.3

Last approved: 11/12/18 8:10 am

Last edit: 03/09/23 8:08 am

Changes proposed by: kte

Requested Spring 2024 ~~2019~~

Effective Change

Date

Department Electrical and Computer Engineering

Discipline Electrical Engineering (ELEC ENG)

Course Number 6370

Title

In Workflow

1. RELECENG 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. CAT entry
11. Peoplesoft

Approval Path

1. 02/27/23 9:47 am
Jonathan Kimball
(kimballjw):
Approved for
RELECENG Chair
2. 02/27/23 3:30 pm
Jennifer
Pohlsander
(jpnfd): Approved

- for CCC Secretary
3. 02/28/23 1:47 pm
Mark Fitch
(mfitch):
Approved for
Engineering DSCC
Chair
4. 03/22/23 10:06
am
Jennifer
Pohlsander
(jpnfd): Approved
for Pending CCC
Agenda post
5. 04/07/23 3:13 pm
Jennifer
Pohlsander
(jpnfd): Approved
for CCC Meeting
Agenda
6. 04/07/23 3:32 pm
Petra Dewitt
(dewittp):
Approved for
Campus Curricula
Committee Chair

History

1. Nov 12, 2018 by
Kelly Venus
(sweetk)

Adaptive Control

Abbreviated

Adaptive Control

Course Title

Catalog

Description

Intro to adaptive control, Lypunov stability, positive real and strictly positive real, Kalman-Yukabovich lemma, system identification, direct/indirect adaptive control, adaptive observers, adaptive control design, nonlinear adaptive design tools- adaptive control with multiple models, adaptive neural network control, decentralized adaptive control design.

Prerequisites

Elec Eng 6300.

Field Trip

Statement

N/A

Credit Hours

LEC: 3

LAB: 0

IND: 0

RSD: 0

Total: 3

Required for

No

Majors

Elective for

Yes

Majors

Justification for

change:

Add Mech Eng 6470 as a co-listed course. Allows either department to teach the course for students in both disciplines.

Semesters

previously

offered as an

experimental

course

Spring 2014 (11 enrolled)

Spring 2018 (9 enrolled)

Co-Listed

Courses:

[MECH ENG 6470](#) - [Course Not Found](#)

Course Reviewer

Comments

jpnfd (03/09/23 8:08 am): Per email 3/8/23 from Dr. Bayless- MAE approves of this co-list.

Key: 4557

[Preview Bridge](#)

Course Change Request

Date Submitted: 03/07/23 2:16 pm

Viewing: **ENGLISH 2560 : Technical Marketing Communication**

File: 32.7

Last approved: 10/19/15 3:33 am

Last edit: 03/09/23 8:34 am

Changes proposed by: kswenson

Programs
referencing this
course

[TCH COM-BS: Technical Communication BS](#)
[BUS&MS-BS: Business and Mgmt Systems BS](#)
[TCH COM-MI: Technical Communication Minor](#)
[WRTG-MI: Writing Minor](#)
[SOC MED-MI: Social Media in Industry Minor](#)
[TCH CM-CTU: Technical Communication CTU](#)
[IST-BS: Information Science and Tch BS](#)

Other Courses
referencing this
course

In The Catalog Description:
[TCH COM 2560 : Technical Marketing Communication](#)

Requested Fall 2023 ~~01/12/2016~~
Effective Change
Date

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. 03/07/23 2:16 pm
Kristine Swenson (kswenson):
Approved for
RENGLISH Chair
2. 03/09/23 8:32 am
Jennifer Pohlsander

Department English and Technical Communication
Discipline English (ENGLISH)
Course Number 2560
Title

(jpnfd): Approved
for CCC Secretary
3. 03/09/23 8:35 am
Petra Dewitt
(dewittp):
Approved for Arts
& Humanities
DSCC Chair
4. 03/22/23 10:06
am
Jennifer
Pohlsander
(jpnfd): Approved
for Pending CCC
Agenda post
5. 04/07/23 3:13 pm
Jennifer
Pohlsander
(jpnfd): Approved
for CCC Meeting
Agenda
6. 04/07/23 3:32 pm
Petra Dewitt
(dewittp):
Approved for
Campus Curricula
Committee Chair

History

1. Sep 29, 2014 by
kswenson (32.1)
2. Oct 19, 2015 by
kswenson (32.4)

Abbreviated Tech Com Marketing
Course Title

Catalog

Description

An introduction to technical marketing communication with an emphasis on relevant genres such as (but not limited to) the data sheet, white paper, and technical demonstration.

Prerequisites

English 1120. ~~English 1600 or Tch Com 1600 or English 1160.~~

Field Trip

Statement

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

Required for Majors	No
------------------------	----

Elective for Majors	<u>Yes</u> No
------------------------	--------------------------

Justification for
change:

Prior prerequisites created unnecessary obstacles to this course.

Semesters
previously
offered as an
experimental
course

Co-Listed

Courses:

TCH COM 2560 - Technical Marketing Communication

Course Reviewer

Comments

jpnfd (03/09/23 8:17 am): Updated term to Fall 23. Updated prerequisite format.

dewittp (03/09/23 8:34 am): Updated to Elective for Majors

Key: 32

[Preview Bridge](#)

Course Change Request

New Course Proposal

Date Submitted: 03/20/23 8:52 am

Viewing: **ENV SCI 1001 : Special Topics**

File: 4962

Last edit: 03/20/23 9:19 am

Changes proposed by: jpnfd

Requested Fall 2023

Effective Change

Date

Department Biological Sciences

Discipline Environmental Sciences (ENV SCI)

Course Number 1001

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. 03/20/23 8:54 am
David Duvernell
(duvernell):
Approved for
RBIOLSCI Chair
2. 03/20/23 9:15 am
Jennifer
Pohlsander
(jpnfd): Approved

- for CCC Secretary
3. 03/20/23 4:30 pm
Katie Shannon
(shannonk):
Approved for
Sciences DSCC
Chair
 4. 03/22/23 10:06
am
Jennifer
Pohlsander
(jpnfd): Approved
for Pending CCC
Agenda post
 5. 04/07/23 3:13 pm
Jennifer
Pohlsander
(jpnfd): Approved
for CCC Meeting
Agenda
 6. 04/07/23 3:32 pm
Petra Dewitt
(dewittp):
Approved for
Campus Curricula
Committee Chair

Special Topics

Abbreviated
Course Title

Special Topics

Topics Titles

Catalog

Description

This course is designed to give the department an opportunity to test a new course.

Prerequisites

None

Field Trip

Statement

None

Credit Hours

LEC: 0

LAB: 0

IND: 0

RSD: 0

Total: 0-6

Required for

No

Majors

Elective for

Yes

Majors

Justification for

new course:

Part of a standard list of options for degree, so that people can teach experimental courses in the discipline in the future.

Semesters

previously

offered as an

experimental

course

none

Co-Listed

Courses:

Course Reviewer

Comments

Key: 4962

[Preview Bridge](#)

Course Change Request

New Course Proposal

Date Submitted: 03/17/23 2:14 pm

Viewing: **ENV SCI 2001 : Special Topics**

File: 4960

Last edit: 03/17/23 2:14 pm

Changes proposed by: esdk3

Requested Fall 2023

Effective Change
Date

Department Biological Sciences

Discipline Environmental Sciences (ENV SCI)

Course Number 2001

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. 03/17/23 2:35 pm
David Duvernell
(duvernell):
Approved for
RBIOLSCI Chair
2. 03/20/23 8:15 am
Jennifer
Pohlsander
(jpnfd): Approved

- for CCC Secretary
3. 03/20/23 4:30 pm
Katie Shannon
(shannonk):
Approved for
Sciences DSCC
Chair
 4. 03/22/23 10:06
am
Jennifer
Pohlsander
(jpnfd): Approved
for Pending CCC
Agenda post
 5. 04/07/23 3:13 pm
Jennifer
Pohlsander
(jpnfd): Approved
for CCC Meeting
Agenda
 6. 04/07/23 3:32 pm
Petra Dewitt
(dewittp):
Approved for
Campus Curricula
Committee Chair

Special Topics

Abbreviated
Course Title

Special Topics

Topics Titles

Catalog

Description

This course is designed to give the department an opportunity to test a new course.

Prerequisites

Field Trip
Statement

Credit Hours	LEC: 0	LAB: 0	IND: 0	RSD: 0
Total: 0-6				
Required for Majors	No			
Elective for Majors	Yes			

Justification for
new course:

This course is designed to give the department an opportunity to test a new course in Environmental Sciences.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Course Change Request

New Course Proposal

Date Submitted: 03/20/23 9:08 am

Viewing: **ENV SCI 3001 : Special Topics**

File: 4963

Last edit: 03/20/23 9:19 am

Changes proposed by: jpnfd

Requested Fall 2023

Effective Change

Date

Department Biological Sciences

Discipline Environmental Sciences (ENV SCI)

Course Number 3001

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. 03/20/23 9:49 am
David Duvernell
(duvernell):
Approved for
RBIOLSCI Chair
2. 03/20/23 10:33
am
Jennifer
Pohlsander

- (jpnfd): Approved
for CCC Secretary
3. 03/20/23 4:30 pm
Katie Shannon
(shannonk):
Approved for
Sciences DSCC
Chair
4. 03/22/23 10:06
am
Jennifer
Pohlsander
(jpnfd): Approved
for Pending CCC
Agenda post
5. 04/07/23 3:13 pm
Jennifer
Pohlsander
(jpnfd): Approved
for CCC Meeting
Agenda
6. 04/07/23 3:33 pm
Petra Dewitt
(dewittp):
Approved for
Campus Curricula
Committee Chair

Special Topics

Abbreviated Special Topics

Course Title

Topics Titles

Catalog

Description

This course is designed to give the department an opportunity to test a new course.

Prerequisites

None

Field Trip

Statement

None

Credit Hours

LEC: 0

LAB: 0

IND: 0

RSD: 0

Total: 0-6

Required for

No

Majors

Elective for

Yes

Majors

Justification for

new course:

Necessary for program success

Semesters

previously

offered as an

experimental

course

None

Co-Listed

Courses:

Course Reviewer

Comments

Key: 4963

[Preview Bridge](#)

Course Change Request

New Course Proposal

Date Submitted: 03/20/23 9:14 am

Viewing: **ENV SCI 4001 : Special Topics**

File: 4964

Last edit: 03/20/23 9:20 am

Changes proposed by: jpnfd

Requested Fall 2023

Effective Change

Date

Department Biological Sciences

Discipline Environmental Sciences (ENV SCI)

Course Number 4001

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. 03/20/23 9:49 am
David Duvernell
(duvernell):
Approved for
RBIOLSCI Chair
2. 03/20/23 10:34 am
Jennifer
Pohlsander

- (jpnfd): Approved
for CCC Secretary
3. 03/20/23 4:30 pm
Katie Shannon
(shannonk):
Approved for
Sciences DSCC
Chair
4. 03/22/23 10:06
am
Jennifer
Pohlsander
(jpnfd): Approved
for Pending CCC
Agenda post
5. 04/07/23 3:13 pm
Jennifer
Pohlsander
(jpnfd): Approved
for CCC Meeting
Agenda
6. 04/07/23 3:33 pm
Petra Dewitt
(dewittp):
Approved for
Campus Curricula
Committee Chair

Special Topics

Abbreviated Special Topics

Course Title

Topics Titles

Catalog

Description

This course is designed to give the department an opportunity to test a new course.

Prerequisites

None

Field Trip

Statement

None

Credit Hours

LEC: 0

LAB: 0

IND: 0

RSD: 0

Total: 0-6

Required for

No

Majors

Elective for

Yes

Majors

Justification for

new course:

Part of a standard list of options for degree, so that people can teach experimental courses in the discipline in the future.

Semesters

previously

offered as an

experimental

course

None

Co-Listed

Courses:

Course Reviewer

Comments

Key: 4964

[Preview Bridge](#)

Course Change Request

New Course Proposal

Date Submitted: 03/20/23 9:31 am

Viewing: **ENV SCI 5001 : Special Topics**

File: 4965

Last edit: 03/20/23 9:31 am

Changes proposed by: jpnfd

Requested Fall 2023

Effective Change

Date

Department Biological Sciences

Discipline Environmental Sciences (ENV SCI)

Course Number 5001

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. 03/20/23 9:49 am
David Duvernell
(duvernell):
Approved for
RBIOLSCI Chair
2. 03/20/23 10:34 am
Jennifer
Pohlsander

- (jpnfd): Approved
for CCC Secretary
3. 03/20/23 4:30 pm
Katie Shannon
(shannonk):
Approved for
Sciences DSCC
Chair
4. 03/22/23 10:06
am
Jennifer
Pohlsander
(jpnfd): Approved
for Pending CCC
Agenda post
5. 04/07/23 3:13 pm
Jennifer
Pohlsander
(jpnfd): Approved
for CCC Meeting
Agenda
6. 04/07/23 3:33 pm
Petra Dewitt
(dewittp):
Approved for
Campus Curricula
Committee Chair

Special Topics

Abbreviated Special Topics

Course Title

Topics Titles

Catalog

Description

This course is designed to give the department an opportunity to test a new course.

Prerequisites

None

Field Trip

Statement

None

Credit Hours

LEC: 0

LAB: 0

IND: 0

RSD: 0

Total: 0-6

Required for

No

Majors

Elective for

Yes

Majors

Justification for

new course:

Part of a standard list of degree options needed for the major.

Semesters

previously

offered as an

experimental

course

None

Co-Listed

Courses:

Course Reviewer

Comments

Key: 4965

[Preview Bridge](#)

Course Change Request

Date Submitted: 02/23/23 2:41 pm

Viewing: **ERP 6220 : Data Modeling & Visualization Prototyping for Enterprise Decision Dashboard**

File: 320.9

Last approved: 02/23/23 1:40 pm

Last edit: 03/21/23 8:52 am

Changes proposed by: cecq8z

Programs
referencing this
course

[AI-CT: AI, Mach Lrn & Auto for Bus CT](#)

[ANA&DTA-CT: Bus Analytics & Data Sci CT](#)

[DATA WR-CT: Business Intelligence CT](#)

[ERP-CT: Enterprise Resource Plan CT](#)

Requested Fall 2023 ~~2021~~

Effective Change
Date

Department Business and Information Technology

Discipline Enterprise Resource Planning (ERP)

Course Number 6220

Title

In Workflow

1. **RBUSADMN**
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. CAT entry
11. Peoplesoft

Approval Path

1. 02/23/23 8:07 pm
Cassie Elrod
(cassa): Approved
for RBUSADMN
Chair
2. 02/28/23 8:28 am
Jennifer
Pohlsander

(jpnfd): Approved
for CCC Secretary

3. 03/10/23 12:11
pm

Cecil Eng Huang
Chua (cchua):
Approved for
Social Sciences
DSCC Chair

4. 03/22/23 10:08
am

Jennifer
Pohlsander
(jpnfd): Approved
for Pending CCC
Agenda post

5. 04/07/23 3:14 pm
Jennifer

Pohlsander
(jpnfd): Approved
for CCC Meeting
Agenda

6. 04/07/23 3:33 pm
Petra Dewitt

(dewittp):
Approved for
Campus Curricula
Committee Chair

History

1. Sep 16, 2017 by
barryf (320.1)
2. Mar 29, 2021 by
cecq8z (320.4)
3. Feb 23, 2023 by

Data Modeling & Visualization Prototyping for Enterprise Decision Dashboard

Abbreviated Data wareh. & Dashboards

Course Title

Catalog

Description

Study integration of data modeling, data warehouse, and visualization prototyping in the design and implementation of enterprise decision dashboards for descriptive, predictive, and prescriptive analytics. Project implementations use in-memory data warehouse, visualization, SAP HANA Studio, Fiori, Predictive Analytics, Design Studio/Eclipse IDE, and modeling tools including SAP HANA Studio, Eclipse IDE, SAS Viya, or similar. ~~Viya.~~

Prerequisites

One of the following: IST 3423, IST 4444, IST 5423, ERP ~~5110 and one of ERP~~ 5410, ERP 6444, ~~6444~~ or IS&T 6444.

Field Trip

Statement

Credit Hours	LEC: 3	LAB: 0	IND: 0	RSD: 0
Total: 3				
Required for Majors	No			
Elective for Majors	Yes			

Justification for change:

Due to advances in technology, the concepts from 5110 are now embedded in the technology. Other prereqs reflect that students may have obtained prerequisite concepts from their undergraduate rather than graduate degree.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer

Comments

jpnfd (02/24/23 9:38 am): Updated term to Fall 2023.

jpnfd (03/21/23 8:49 am): Updated prerequisite list for clarity.

Key: 320

[Preview Bridge](#)

Course Change Request

Date Submitted: 03/01/23 10:58 am

Viewing: **FINANCE 5310 : Financial Technology and Analytics**

File: 4499.8

Last approved: 09/28/20 6:01 am

Last edit: 03/09/23 8:52 am

Changes proposed by: cecq8z

Programs
referencing this
course

[BUS&MS-BS: Business and Mgmt Systems BS](#)

[FIN TCH-MI: Minor in Financial Technology, Analytics and Transformation](#)

[FINANCE-CT: Finance CT](#)

[FIN TCH-CT: Financial Technology, Analytics and Transformation CT](#)

[FINANCE-MI: Finance Minor](#)

Requested Fall 2023 ~~Spring 2021~~

Effective Change
Date

Department Business and Information Technology

Discipline Finance (FINANCE)

Course Number 5310

Title

In Workflow

1. RBUSADMN
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. CAT entry
11. Peoplesoft

Approval Path

1. 03/01/23 4:53 pm
Cassie Elrod
(cassa): Approved
for RBUSADMN
Chair
2. 03/10/23 12:40
pm
Jennifer

Pohlsander
(jpnfd): Approved
for CCC Secretary

3. 03/10/23 1:01 pm

Cecil Eng Huang
Chua (cchua):
Approved for
Social Sciences
DSCC Chair

4. 03/22/23 10:08
am

Jennifer
Pohlsander
(jpnfd): Approved
for Pending CCC
Agenda post

5. 04/07/23 3:14 pm

Jennifer
Pohlsander
(jpnfd): Approved
for CCC Meeting
Agenda

6. 04/07/23 3:33 pm

Petra Dewitt
(dewittp):
Approved for
Campus Curricula
Committee Chair

History

1. Feb 5, 2018 by
Barry Flachsbart
(barryf)
2. Dec 3, 2018 by
ershenb (4499.4)

Financial Technology and Analytics

Abbreviated Tech and Analytics

Course Title

Catalog

Description

This course introduces the foundations of financial technologies. Topics cover Robo-Advising, P2P Lending, AI&ML, Open Banking and Blockchain. Data analytics tools
~~This course is built on finance theory, financial analysis,~~ and quantitative methods
are used to create financial models for financial data analysis. from prerequisite
~~courses. Students will design and construct integrated financial models.~~ The objective
is to offer students opportunities to experience hands-on numerical analyses.
~~analyses, company valuation, and dynamic projections.~~

Prerequisites

Finance 2150 or Graduate Standing and basic corporate finance knowledge.

Field Trip

Statement

Credit Hours	LEC: 3	LAB: 0	IND: 0	RSD: 0
Total: 3				
Required for Majors	No			
Elective for Majors	Yes			

Justification for
change:

This course consists of two components: FinTech and Analytics. The first component, that is FinTech, was not entailed in the description. This modification aims to expand the description to define clearly on financial technologies that will be introduced in

the course.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 4499

[Preview Bridge](#)

Program Change Request

Date Submitted: 02/01/23 9:21 am

Viewing: **CHEM-BA : Chemistry BA**

File: 151.18

Last approved: 03/03/20 1:41 pm

Last edit: 03/08/23 10:35 am

Changes proposed by: tschuman

Catalog Pages Using this Program

[Chemistry](#)

Start Term

Fall 2023 ~~2020~~

Program Code

CHEM-BA

Department

Chemistry

Title

Chemistry BA

Program Requirements and Description

In Workflow

1. **RCHEMIST 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**

Approval Path

1. 02/01/23 9:48 am
Chariklia Sotiriou-Leventis (cslevent):
Approved for
RCHEMIST Chair
2. 03/08/23 10:55 am
Jennifer Pohlsander (jpnfd): Approved
for CCC Secretary
3. 03/16/23 1:16 pm
Katie Shannon (shannonk):
Approved for
Sciences DSCC Chair
4. 03/22/23 10:05 am
Jennifer Pohlsander (jpnfd): Approved
for Pending CCC Agenda post
5. 04/07/23 3:11 pm
Jennifer Pohlsander (jpnfd): Approved
for CCC Meeting Agenda
6. 04/07/23 3:32 pm
Petra Dewitt

(dewittp): Approved
for Campus
Curricula
Committee Chair

History

- 1. Mar 18, 2014 by
Lahne Black (lahne)
- 2. Jul 15, 2015 by
pantaleoa
- 3. Jun 18, 2018 by
Thomas Schuman
(tschuman)
- 4. Dec 3, 2019 by
Thomas Schuman
(tschuman)
- 5. Mar 3, 2020 by
Thomas Schuman
(tschuman)

Bachelor of Arts
Chemistry

Freshman Year			
First Semester	Credits	Second Semester	Credits
CHEM 1100	1	CHEM 1320	3
CHEM 1110	<u>1</u>	CHEM 1510	2
CHEM 1310	4	MATH 1215	4
CHEM 1319	1	HISTORY 1100	3
ENGLISH 1120	3	Humanities Electives	3
MATH 1214 or 1210 <i>and</i> 1211	4		
	14		15
Sophomore Year			
First Semester	Credits	Second Semester	Credits
CHEM 2210	3	CHEM 2220	3
CHEM 2219	1	CHEM 2229	1
Electives	6	ENGLISH 1160	3
HISTORY 1200	3	Social Elective	3
Humanities Elective	3	Elective	6
	16		16

Junior Year			
First Semester	Credits	Second Semester	Credits
CHEM 2510	4	PHYSICS 2135	4
STAT 3113	3	Chem Electives (see list below)	4
PHYSICS 1135	4	Electives	7
Elective	4		
	15		15
Senior Year			
First Semester	Credits	Second Semester	Credits
CHEM 3410 , or 3430 , or 3420	3	CHEM 4010	1
CHEM 3419 or 3429	1	Humanities Elective	3
Humanities Elective Literature	3	Social Sciences Elective	3
Social Electives	6	Electives	7
Elective	3		
	16		14
Total Credits: 121			

Students must complete a minimum of ~~121~~ 120 credit hours for the bachelor of arts in chemistry degree. Students may have to take more than the minimum number of coursework hours to comply with the B.A. requirements due to variations in minor degree and foreign language requirements within an individual's program of study.

Elective credits include a required minor in one of the following areas: English, economics, history, philosophy, psychology, sociology, communications, speech, media, political science, music, mathematics, statistics, foreign language, computer science, biology, or art. See Undergraduate catalog for courses required for specific minor. All chemistry majors are encouraged to do research through [CHEM 4099](#) . A total of 12 credits of a modern foreign language must also be taken as part of the electives above.

Chem Elective must be from one or more of the following: [CHEM 4099](#), [CHEM 4210](#) , [CHEM 4297](#) , [CHEM 4310](#), [CHEM 4410](#) , [CHEM 4420](#), [CHEM 4510](#) , [CHEM 4610](#) , [CHEM 4619](#) , [CHEM 4620](#) , [CHEM 4630](#), [CHEM 4810](#) , [CHEM 4819](#) , [CHEM 4850](#) . This program of study allows students to design, in conjunction with their chemistry advisor, a program for many disciplines including pre-law, business, pre-dentistry, pre-veterinary medicine, as well as pre-medicine. An example of such a program is shown for pre-medical studies:

BIO SCI 1113	General Biology	3
BIO SCI 1219	General Biology Lab	1
BIO SCI 2213	Cell Biology	3
BIO SCI 2219	Cell Biology Laboratory	1
CHEM 4610	General Biochemistry	3
CHEM 4619	General Biochemistry Laboratory	2

A grade of "C" or better is required for each Chemistry course counted towards the degree.

Bachelor of Arts

Chemistry

Secondary Education Emphasis Area

Freshman Year			
First Semester	Credits	Second Semester	Credits
CHEM 1310	4	CHEM 1320	3
CHEM 1319	1	CHEM 1510	2
CHEM 1100	1	ENGLISH 1160	3
ENGLISH 1120	3	MATH 1215	4
MATH 1214	4	BIO SCI 1113	3
PSYCH 1101	3	EDUC 1104	1
EDUC 1040	2		
	18		16
Sophomore Year			
First Semester	Credits	Second Semester	Credits
CHEM 2210	3	CHEM 2220	3
CHEM 2219	1	CHEM 2229	1
PHYSICS 1135	4	STAT 3113	3
EDUC 2102 or PSYCH 2300	3	PHYSICS 2135	4
ENGLISH 1221 or 1222	3	EDUC 3216	3
EDUC 1174	2	SP&M S 1185	3
	16		17
Junior Year			
First Semester	Credits	Second Semester	Credits
CHEM 2510	4	CHEM 3410 , or 3430 , or 3420	3
PHYSICS 1505 or GEOLOGY 1110	3	CHEM 3419 or 3429	1
ENGLISH 3170	3	HISTORY 3530	3
BIO SCI 2263	3	EDUC 4310 or PSYCH 4310	3
EDUC 1164	2	ART 1180 , or MUSIC 1150 , or THEATRE 1190	3
HISTORY 1100	3	PSYCH 4310	3
		HISTORY 1200	3
	18		16
Senior Year			
First Semester	Credits	Second Semester	Credits
CHEM 4010	1	EDUC 4298	1
EDUC 3280	3	EDUC 4299	12
PSYCH 3310	3		

PHILOS 1105	3	
CHEM 4610	3	
CHEM 4619	2	
	15	13
Total Credits: 129		

Students must complete a minimum of ~~129~~ **133** credit hours for the Bachelor of Arts in Chemistry degree with a Secondary Education Emphasis Area. The degree program is intended to culminate in a Certification Recommendation for an initial Missouri teaching certification. Students should also consult the Secondary Teacher Education Program section for Teacher Certification requirements through the Education department. A Bachelor of Science in Chemistry degree with a Secondary Education Emphasis Area may be obtained by taking an additional 40 credit hours of mostly upper level Chemistry courses (see your academic advisor for a schedule of classes or more information).

For this Bachelor of Arts degree program, the minor degree and foreign language requirements of the typical program of study are waived and there are other course substitutions in lieu of education coursework and requirements. A total of nine humanities credit hours are required to be selected from [ENGLISH 1221](#) or [ENGLISH 1222](#) ; [PHILOS 1105](#) ; and one of [ART 1180](#) , [MUSIC 1150](#) , or [THEATRE 1190](#) .

Four credit hours of Chemistry Elective must be selected from one or more of the following: [CHEM 4210](#) , [CHEM 4297](#) , [CHEM 4410](#) , [CHEM 4510](#) , [CHEM 4610](#) , [CHEM 4619](#) , [CHEM 4620](#) , [CHEM 4710](#) , [CHEM 4810](#) , [CHEM 4819](#) , [CHEM 4850](#) , and/or [CHEM 4099](#) . [CHEM 4099](#) may not count for more than 3 credit hours toward the degree. All chemistry majors are encouraged to do research through [CHEM 4099](#) .

A grade of "C" or better is required for each Chemistry course counted towards the degree.

Justification for request

Changing of the BA with 2ndary education emphasis at request of registrar based on edited courses within Teacher Ed department that did not match existing degree requirements

Supporting Documents

[BA-vs-BS-hr.pdf](#)

Course Reviewer Comments

jpnfd (03/07/23 3:50 pm): Per email from Thomas Schuman, Chem 1110 is a department orientation course required for chemistry majors. The orientation is to the department, the degree, the faculty, research, careers, and the department services and equipment and access to those. Total credit hours corrected in text to align with the plan of study grid.

jpnfd (03/08/23 10:22 am): Removed attachment-list of errors/corrections not necessary, corrections can be viewed in the history.

jpnfd (03/08/23 10:35 am): Math requirement updated. The math requirement that is preferred is Math 1214 but if a student lacks algebra and/or trig prerequisites they can take the sequence Math 1210 and 1211 that we want to count as identical to Math 1214. Per email 3/8/23 from Dr.Schuman Art 1180, Music 1150, Theatre 1190 added to plan of study grid for Chem Sec Ed Emph. Courses were listed in the paragraph, but needed to be added to the plan of study grid.

Program Change Request

New Program Proposal

Date Submitted: 03/10/23 12:33 pm

Viewing: **PROPOSED : Decision Data Analytics - CTU**

File: 395

Last edit: 03/10/23 12:33 pm

Changes proposed by: davismc

Start Term

Fall 2023

Program Code

PROPOSED

Department

Economics

Title

Decision Data Analytics - CTU

Program Requirements and Description

In Workflow

1. **RECONOMI 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**

Approval Path

1. 02/15/23 5:22 pm
Melody Lo (mlc2d):
Approved for
RECONOMI Chair
2. 03/10/23 11:54 am
Jennifer Pohlsander (jpnfd): Approved
for CCC Secretary
3. 03/10/23 12:23 pm
Cecil Eng Huang Chua (cchua):
Rollback to Initiator
4. 03/10/23 1:39 pm
Melody Lo (mlc2d):
Approved for
RECONOMI Chair
5. 03/13/23 1:39 pm
Jennifer Pohlsander (jpnfd): Approved
for CCC Secretary
6. 03/13/23 4:34 pm
Cecil Eng Huang Chua (cchua):
Approved for Social
Sciences DSCC
Chair
7. 03/22/23 10:08 am

Jennifer Pohlsander
(jpnfd): Approved
for Pending CCC
Agenda post
8. 04/07/23 3:14 pm
Jennifer Pohlsander
(jpnfd): Approved
for CCC Meeting
Agenda
9. 04/07/23 3:33 pm
Petra Dewitt
(dewittp): Approved
for Campus
Curricula
Committee Chair

Decision Data Analytics

This certificate aims to offer students across the campus an opportunity to gain knowledge and experience hands-on practices in Decision Data Analytics. There is an increasing market demand for decision data scientists, who are equipped with the talents to manage and analyze data and apply the results to fine decision-making, in a variety of economic, social, and scientific fields. The certificate is designed to turn S&T students into data-driven professionals through a case study and project-based curriculum where they will learn by doing. A unique feature of this certificate is that corporate executives will teach 50% of the certificate (one course on Data Intelligence and another course on Data Insights) so that students learn valuable perspectives from today's marketplace. This four-course Decision Data Analytics certificate develops the knowledge and skills in programming, economic modeling, forecasting, econometrics, and data analytics necessary to play a leading role in decision-making at private corporations, government agencies, and international organizations.

To be awarded a certificate in Decision Data Analytics, a student must meet the general requirement of taking the following four courses (12 credit hours):

ECON 3300	Course ECON 3300 Not Found
ECON 3333	Course ECON 3333 Not Found
ECON 5350	Course ECON 5350 Not Found
ECON 5360	Course ECON 5360 Not Found

Justification for request

The certificate represents one approach to data analytics, specifically one focused on decision making. The courses have a strong econometric and computational element.

The embedded documentation of MDHE approval is under MST PC January 2023.pdf and ECON-UGCT CTs.pdf.

Supporting Documents

[Econ-Undergrad CTs.pdf](#)

[MST PC January 2023.pdf](#)

[Econ-UGCT-Course change.pdf](#)

Course Reviewer Comments

jpnfd (02/21/23 11:19 am): Added courses to a course list as a formatted table. Added title heading.

jpnfd (02/21/23 11:54 am): Formatted title

jpnfd (02/21/23 4:28 pm): Changed from CT to CTU (undergrad cert)

jpnfd (02/24/23 3:29 pm): Attached course change approval regarding switching the numbering of ECON 3300 and ECON 3333 so students take courses in the correct sequence.

cecq8z (03/10/23 12:23 pm): Rollback: Need the approval documentation embedded.

Program Change Request

New Program Proposal

Date Submitted: 03/10/23 12:30 pm

Viewing: **PROPOSED : Energy Economics - CTU**

File: 396

Last edit: 03/10/23 12:30 pm

Changes proposed by: davismc

Start Term

Fall 2023

Program Code

PROPOSED

Department

Economics

Title

Energy Economics - CTU

Program Requirements and Description

In Workflow

1. **RECONOMI 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**

Approval Path

1. 02/15/23 5:22 pm
Melody Lo (mlc2d):
Approved for
RECONOMI Chair
2. 03/10/23 11:55 am
Jennifer Pohlsander
(jpnfd): Approved
for CCC Secretary
3. 03/10/23 12:23 pm
Cecil Eng Huang
Chua (cchua):
Rollback to Initiator
4. 03/10/23 1:39 pm
Melody Lo (mlc2d):
Approved for
RECONOMI Chair
5. 03/14/23 8:15 am
Jennifer Pohlsander
(jpnfd): Approved
for CCC Secretary
6. 03/14/23 8:29 am
Cecil Eng Huang
Chua (cchua):
Approved for Social
Sciences DSCC
Chair
7. 03/22/23 10:08 am

Jennifer Pohlsander
(jpnfd): Approved
for Pending CCC
Agenda post
8. 04/07/23 3:14 pm
Jennifer Pohlsander
(jpnfd): Approved
for CCC Meeting
Agenda
9. 04/07/23 3:33 pm
Petra Dewitt
(dewittp): Approved
for Campus
Curricula
Committee Chair

Energy Economics

This certificate aims to offer students across the campus an opportunity to gain knowledge in Energy Economics. Missouri S&T is recognized as one of the top universities in the nation offering energy engineering programs, and this certificate will further synergize with S&T's research and education focus in energy. This certificate focuses on addressing current and future energy challenges in a comprehensive manner by studying energy choices, policies, and their impacts on the sustainability of the economy, the welfare of society, and the environmental conditions. The Energy Economics certificate is complementary to those pursuing an undergraduate degree with a focus on energy engineering, environmental sciences, or sustainability. The certificate is especially valuable to students interested in a career in the energy sector.

General requirement: Four classes (12 credit hours) in economics or related disciplines.

Required Two Classes (6 hours):		
ECON 4440	Environmental And Natural Resource Economics	3
ECON 4540	Energy Economics	3
One of the following two classes (3 hours):		
ECON 3512	Mining Industry Economics	3
ECON 5532	Advanced Mining Economics	3
One of the following two classes (3 hours):		
ENG MGT 5513	Energy and Sustainability Management Engineering	3
ENV ENG 5642	Sustainability, Population, Energy, Water, and Materials	3

Justification for request

An energy economics certificate fits in with the goals of the university. All of the classes are currently offered on a regular basis.

The embedded documentation of MDHE approval is under MST PC January 2023.pdf and ECON-

UGCT CTs.pdf.

Supporting Documents

[Econ-Undergrad CTs.pdf](#)

[Energy Econ CT Courses.pdf](#)

[MST PC January 2023.pdf](#)

Course Reviewer Comments

jpnfd (02/20/23 11:24 am): Removed GEO ENG 5556 and replaced with ENV ENG 5642 per email from Dr. Davis 2/20/23.

jpnfd (02/21/23 11:27 am): Added courses to a course list as a formatted table. Added title heading.

jpnfd (02/21/23 11:54 am): Formatted title.

jpnfd (02/22/23 9:54 am): Changed from CT to CTU (undergrad cert)

cecq8z (03/10/23 12:23 pm): Rollback: Need the approval documentation embedded.

Program Change Request

New Program Proposal

Date Submitted: 03/10/23 12:29 pm

Viewing: **PROPOSED : Financial Economics
and Technology - CTU**

File: 394

Last edit: 03/22/23 2:36 pm

Changes proposed by: davismc

Start Term

Fall 2023

Program Code

PROPOSED

Department

Economics

Title

Financial Economics and Technology - CTU

Program Requirements and Description

In Workflow

1. **RECONOMI 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**

Approval Path

1. 02/15/23 5:22 pm
Melody Lo (mlc2d):
Approved for
RECONOMI Chair
2. 03/10/23 11:55 am
Jennifer Pohlsander
(jpnfd): Approved
for CCC Secretary
3. 03/10/23 12:23 pm
Cecil Eng Huang
Chua (cchua):
Rollback to Initiator
4. 03/10/23 1:44 pm
Melody Lo (mlc2d):
Approved for
RECONOMI Chair
5. 03/14/23 8:15 am
Jennifer Pohlsander
(jpnfd): Approved
for CCC Secretary
6. 03/14/23 8:29 am
Cecil Eng Huang
Chua (cchua):
Approved for Social
Sciences DSCC
Chair
7. 03/22/23 10:08 am

Jennifer Pohlsander
(jpnfd): Approved
for Pending CCC
Agenda post
8. 04/07/23 3:14 pm
Jennifer Pohlsander
(jpnfd): Approved
for CCC Meeting
Agenda
9. 04/07/23 3:33 pm
Petra Dewitt
(dewittp): Approved
for Campus
Curricula
Committee Chair

Financial Economics and Technology

This certificate aims to offer students across the campus an opportunity to gain knowledge and experience in Financial Economics & Technology. This certificate integrates courses synthesizing programming techniques, quantitative methods, and theoretical foundations in economics with applications in financial decisions. The certificate explores essential concepts in behavior economics, monetary economics, and international finance to develop foundational knowledge in financial economics. To give students an edge to pursue a career in the modern financial industry, this certificate is designed to be partially delivered by corporate executives who can offer students real financial problems to work on. Students completing this certificate are equipped with tools and knowledge especially valued by banks, consulting firms, financial technology, insurance firms, and investment firms.

To be awarded a certificate in Financial Economics & Technology, a student must meet the general requirement of taking the following four courses (12 credit hours):

Required Courses (12 hours):		
ECON 3333	Course ECON 3333 Not Found	
ECON 4383	Course ECON 4383 Not Found	
ECON 5337	Financial Mathematics	3
ECON 5360	Course ECON 5360 Not Found	

Justification for request

The Economics department has developed a certificate combining economics, finance and computational methods. The certificate should appeal to students looking to establish themselves as experts in the intersection of these subjects. The courses are not theoretical in nature but more computational.

The embedded documentation of MDHE approval is under MST PC January 2023.pdf and ECON-UGCT CTs.pdf.

Supporting Documents

[Econ-Undergrad CTs.pdf](#)

[MST PC January 2023.pdf](#)

[Econ-UGCT-Course change.pdf](#)

Course Reviewer Comments

jpnfd (02/21/23 11:35 am): Added courses to a course list as a formatted table. Added title heading.

jpnfd (02/21/23 11:55 am): Formatted title.

jpnfd (02/22/23 9:54 am): Changed from CT to CTU (undergrad cert)

jpnfd (02/24/23 3:30 pm): Attached course change approval regarding switching the numbering of ECON 3300 and ECON 3333 so students take courses in the correct sequence.

cecq8z (03/10/23 12:23 pm): Rollback: Need the approval documentation embedded.

jpnfd (03/22/23 2:36 pm): Corrected typo ECON 4883 listed incorrectly, updated to ECON 4383: Financial Economics as listed on MDHE approval.

Program Change Request

New Program Proposal

Date Submitted: 03/02/23 4:56 pm

Viewing: **PROPOSED : Undergraduate
Certificate in Medical Chemistry CTU**

File: 392

Last edit: 03/22/23 2:41 pm

Changes proposed by: tschuman

Start Term

Fall 2023

Program Code

PROPOSED

Department

Chemistry

Title

Undergraduate Certificate in Medical Chemistry CTU

Program Requirements and Description

In Workflow

1. **RCHEMIST 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**

Approval Path

1. 01/31/23 8:18 pm
Chariklia Sotiriou-
Leventis (cslevent):
Approved for
RCHEMIST Chair
2. 02/02/23 2:38 pm
Jennifer Pohlsander
(jpnfd): Rollback to
Initiator
3. 02/03/23 8:19 am
Chariklia Sotiriou-
Leventis (cslevent):
Approved for
RCHEMIST Chair
4. 02/03/23 3:48 pm
Jennifer Pohlsander
(jpnfd): Rollback to
RCHEMIST Chair
for CCC Secretary
5. 02/08/23 4:17 pm
Evie Sherlock
(esdk3): Rollback to
Initiator
6. 03/01/23 3:03 pm
Jennifer Pohlsander
(jpnfd): Rollback to
Initiator

7. 03/02/23 6:24 pm
Chariklia Sotiriou-Leventis (cslevent):
Approved for
RCHEMIST Chair
8. 03/08/23 11:14 am
Jennifer Pohlsander
(jpnfd): Approved
for CCC Secretary
9. 03/16/23 1:17 pm
Katie Shannon
(shannonk):
Approved for
Sciences DSCC
Chair
10. 03/22/23 10:08 am
Jennifer Pohlsander
(jpnfd): Approved
for Pending CCC
Agenda post
11. 04/07/23 3:14 pm
Jennifer Pohlsander
(jpnfd): Approved
for CCC Meeting
Agenda
12. 04/07/23 3:33 pm
Petra Dewitt
(dewittp): Approved
for Campus
Curricula
Committee Chair

The Undergraduate Certificate in Medicinal Chemistry is designed to (1) improve students' competitiveness and ability to gain employment in pharmaceutical, bio-medical, and related fields. This program is targeted towards motivated chemistry, biological sciences, and pre-med students at S&T, as well as nontraditional students, including professionals from nearby cities such as St. Louis and Kansas City. Students who complete the certificate will be equipped to understand the design, synthesis, and action of medicinal drugs and apply their knowledge in their future careers.

The certificate is built around the course: Introduction to Medicinal Chemistry. This course focuses on the chemical principles that inform the process of drug discovery, design, and development. Students will use these principles to analyze existing drugs and current candidates at various stages of the drug development pipeline from basic science to the consumer market.

The certificate program is open to all undergraduate students from chemistry, biological sciences, chemical/biochemical engineering or a related field. Once admitted to the program, the student must take the required course, Chem 5650 (Introduction to Medicinal Chemistry) as well as three of the listed electives (for a minimum of 9 credit hours). In order to receive the certificate, the student must have an average cumulative grade point of 3.0 or better in the certificate courses. Once admitted to the program, a student will be given three years to complete the program. Students admitted to the certificate program will earn undergraduate credit for the courses they complete.

To be awarded a certificate in Medicinal Chemistry, students must complete the following required core course:

CHEM 5650	Course CHEM 5650 Not Found	3
---------------------------	----------------------------	---

Students must also select and complete a minimum of 9 credit hours from the following elective courses with at least one course in CHEM and one course in BIO SCI:

CHEM 4210	Intermediate Organic Chemistry	3
CHEM 4510	Instrumental Methods Of Chemical Analysis	4
CHEM 4610	General Biochemistry	3
CHEM 4620	Metabolism	3
CHEM 4630	Introduction to Bio-Nanotechnology	3
BIO SCI 4353	Cancer Cell Biology	3
BIO SCI 4373	Stem Cell Biology	3
BIO SCI 4383	Toxicology	3
BIO SCI 4666	Nanobiotechnology	3

Justification for request

CIP 51.2004

Supporting Documents

[Chem-UGCT-Medicinal Chem.pdf](#)

[MST PC December 2022.pdf](#)

[Med Chem Udg Cert Cover Letter-Sept30 DDD \(002\).pdf](#)

Course Reviewer Comments

jpnfd (02/02/23 2:10 pm): Updated title format

jpnfd (02/02/23 2:38 pm): Rollback: Program Requirements and Description needs to contain a detailed description and course list.

jpnfd (02/03/23 1:38 pm): Updated title, was all caps

jpnfd (02/03/23 3:48 pm): Rollback: Program Requirements and Description section needs to contain a course list table

esdk3 (02/08/23 4:17 pm): Rollback: .

jpnfd (03/01/23 3:03 pm): Rollback: Rollback per chemistry chair request.

jpnfd (03/08/23 11:07 am): Added CTU to title indicating this is an undergrad certificate. Removed "possess an overall GPA of 2.5 or higher" because it is not stated on the approved MDHE documents.

jpnfd (03/22/23 2:41 pm): Updated to align with MDHE approval. "Students must also select and complete a minimum of 9 credit hours from the following elective courses." ADDED: "with at least one course in CHEM and one course in BIO SCI."

Course Change Request

New Experimental Course Proposal

Date Submitted: 02/13/23 5:08 pm

Viewing: **BUS 5001.001 : Sport Management**

File: 4944

Last edit: 04/07/23 2:42 pm

Changes proposed by: cecq8z

Requested Fall 2023

Effective Change

Date

Department Business and Information Technology

Discipline Business (BUS)

Course Number 5001

Topic ID 001

Experimental

Title

In Workflow

1. **RBUSADMN
Chair**
2. **CCC Secretary**
3. **Social 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. 02/13/23 5:09 pm
Cassie Elrod
(cassa): Approved
for RBUSADMN
Chair
2. 02/21/23 10:35
am
Jennifer
Pohlsander
(jpnfd): Approved
for CCC Secretary
3. 02/21/23 10:39
am

Cecil Eng Huang
Chua (cchua):
Approved for
Social Sciences
DSCC Chair

4. 03/22/23 10:05
am

Jennifer
Pohlsander
(jpnfd): Approved
for Pending CCC
Agenda post

5. 04/07/23 3:11 pm

Jennifer
Pohlsander
(jpnfd): Approved
for CCC Meeting
Agenda

6. 04/07/23 3:31 pm

Petra Dewitt
(dewittp):
Approved for
Campus Curricula
Committee Chair

Sport Management

Experimental Sport Management

Abbreviated

Course Title

Instructors David Bojanic

Experimental

Catalog

Description

This course is designed to provide students with an overview of the management

and operations of sport, fitness, and leisure organizations.

Prerequisites

None

Field Trip

Statement

Credit Hours

LEC: 3

LAB: 0

IND: 0

RSD: 0

Total: 3

Justification for

new course:

This course will offer students an attractive elective if they want to develop expertise in business management with an orientation towards the sport and leisure industry. It will supplement coursework in other areas like business, information technology, economics, communication, etc. It will also be a valuable course for students (including athletes) who want to pursue a career in professional and intercollegiate sports. In addition, students can work for organizations that serve as suppliers for the sport industry such as media, facilities, equipment, apparel, etc. Finally, it will provide a foundation for other potential courses (e.g., eSports, Sports Analytics, etc.) that will complement current offerings in the Kummer College (e.g., data analytics, eCommerce, etc.).

Semester(s)

previously taught

Co-Listed

Courses:

Course Reviewer

Comments

Course Change Request

New Experimental Course Proposal

Date Submitted: 02/23/23 12:54 pm

Viewing: **BUS 5001.002 : The Business of eSports**

File: 4945

Last edit: 02/24/23 8:50 am

Changes proposed by: cecq8z

Requested Fall 2023

Effective Change

Date

Department Business and Information Technology

Discipline Business (BUS)

Course Number 5001

Topic ID 002

Experimental
Title

In Workflow

1. **RBUSADMN
Chair**
2. **CCC Secretary**
3. **Social 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. 02/23/23 11:17
am
Cassie Elrod
(cassa): Rollback
to Initiator
2. 02/23/23 1:17 pm
Cassie Elrod
(cassa): Approved
for RBUSADMN
Chair
3. 02/24/23 9:21 am
Jennifer
Pohlsander

(jpnfd): Approved
for CCC Secretary

4. 02/24/23 10:13
am

Cecil Eng Huang
Chua (cchua):
Approved for
Social Sciences
DSCC Chair

5. 03/22/23 10:05
am

Jennifer
Pohlsander
(jpnfd): Approved
for Pending CCC
Agenda post

6. 04/07/23 3:11 pm
Jennifer

Pohlsander
(jpnfd): Approved
for CCC Meeting
Agenda

7. 04/07/23 3:31 pm
Petra Dewitt

(dewittp):
Approved for
Campus Curricula
Committee Chair

The Business of eSports

Experimental The Business of eSports
Abbreviated
Course Title

Instructors David Bojanic

Experimental

Catalog

Description

This course is designed to provide students with an overview of the business side of the eSports industry. Topics covered include business model analysis, competitive structure, marketing and sponsorship, and tournament operations.

Prerequisites

Field Trip

Statement

Credit Hours

LEC: 3

LAB: 0

IND: 0

RSD: 0

Total: 3

Justification for

new course:

This course will offer students an attractive elective if they want to obtain more knowledge about the growing eSports industry. It will supplement coursework in other areas like business, information technology, economics, communication, etc. It will also be a valuable course for students who want to pursue a career in the growing eSports industry including journalism and broadcasting, marketing and sales, tournament production, agent, team/franchise management, social media managers, etc.

Semester(s)

previously taught

Co-Listed

Courses:

Course Reviewer

Comments

cassa (02/23/23 11:17 am): Rollback: This should be a 5000 level course.

Course Change Request

New Experimental Course Proposal

Date Submitted: 02/09/23 4:35 pm

Viewing: **CHEM ENG 5001.018 : Mathematic**

Applications for Chemical Engineering

File: 4938

Last edit: 02/24/23 8:33 am

Changes proposed by: luksc

Requested Spring 2024

Effective Change

Date

Department Chemical and Biochemical Engineering

Discipline Chemical Engineering (CHEM ENG)

Course Number 5001

Topic ID 018

Experimental
Title

In Workflow

1. **RCHEMENG 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. 02/22/23 11:29 am
Hu Yang (huyang):
Approved for
RCHEMENG Chair
2. 02/24/23 9:26 am
Jennifer
Pohlsander
(jpnfd): Approved
for CCC Secretary
3. 02/28/23 1:47 pm
Mark Fitch
(mfitch):
Approved for

Engineering DSCC
Chair

4. 03/22/23 10:05
am

Jennifer
Pohlsander
(jpnfd): Approved
for Pending CCC
Agenda post

5. 04/07/23 3:11 pm
Jennifer
Pohlsander
(jpnfd): Approved
for CCC Meeting
Agenda

6. 04/07/23 3:32 pm
Petra Dewitt
(dewittp):
Approved for
Campus Curricula
Committee Chair

Mathematic Applications for Chemical Engineering

Experimental Math Applications ChE

Abbreviated

Course Title

Instructors Christi Luks, Haider Al-Rubaye

Experimental

Catalog

Description

This course is intended to prepare students for modeling chemical engineering processes. The course will include solution of the partial differential equations that are typically created from transport models and techniques that are beneficial for the study of process dynamics and control.

Prerequisites

Math 3304 and Chem Eng 3101 or Graduate Standing.

Field Trip

Statement

Credit Hours

LEC: 3

LAB: 0

IND: 0

RSD: 0

Total: 3

Justification for

new course:

This will help bridge observed gaps in preparation between an undergraduate level of ability to solve problems and that needed for graduate studies.

Semester(s)

previously taught

Not at this university

Co-Listed

Courses:

Course Reviewer

Comments

jpnfd (02/24/23 8:33 am): Updated prerequisite format.

Key: 4938

[Preview Bridge](#)

Course Change Request

New Experimental Course Proposal

Date Submitted: 11/11/22 11:18 am

Viewing: **ELEC ENG 5001.009 : Batch Process**

Control

File: 4907

Last edit: 03/14/23 8:37 am

Changes proposed by: kte

Requested Fall 2023

Effective Change

Date

Department Electrical and Computer Engineering

Discipline Electrical Engineering (ELEC ENG)

Course Number 5001

Topic ID 009

Experimental
Title

In Workflow

1. RELECENG 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. 11/11/22 11:27 am
Jonathan Kimball
(kimballjw):
Approved for
RELECENG Chair
2. 11/17/22 9:43 am
Jennifer
Pohlsander
(jpnfd): Approved
for CCC Secretary
3. 03/08/23 5:25 pm
Mark Fitch
(mfitch):

Approved for
Engineering DSCC
Chair

4. 03/22/23 10:05

am

Jennifer

Pohlsander

(jpnfd): Approved
for Pending CCC

Agenda post

5. 04/07/23 3:13 pm

Jennifer

Pohlsander

(jpnfd): Approved
for CCC Meeting

Agenda

6. 04/07/23 3:32 pm

Petra Dewitt

(dewittp):

Approved for
Campus Curricula
Committee Chair

Batch Process Control

Experimental Batch Process Control

Abbreviated

Course Title

Instructors Kelvin Erickson

Experimental

Catalog

Description

Batch process control in the context of the ANSI/ISA88 batch control standard.

Process, physical, and procedural control models. Recipes and batch system design.

Team-based project in Chem. Eng. unit operations lab with DeltaV system.

Prerequisites

Elec Eng 3320 or Elec Eng 3340 or Chem Eng 4110.

Field Trip

Statement

No field trips

Credit Hours

LEC: 3

LAB: 0

IND: 0

RSD: 0

Total: 3

Justification for

new course:

New course as part of proposed new BS degree in Automation Engineering. Subject matter that is important to those in the field of process control and factory automation. This course will be taught in a hybrid format, expecting to use some online lectures from ISA. Will add a Chem Eng co-list.

Semester(s)

previously taught

None

Co-Listed

Courses:

CHEM ENG 5001 - Special Topics

Course Reviewer

Comments

jpnfd (03/14/23 8:37 am): Added punctuation to prerequisite.

Key: 4907

[Preview Bridge](#)

Course Change Request

New Experimental Course Proposal

Date Submitted: 02/23/23 2:01 pm

Viewing: **IS&T 5001.003 : Fundamentals of Cybersecurity Analytics**

File: 4946

Last edit: 02/24/23 8:27 am

Changes proposed by: cecq8z

Requested Fall 2023

Effective Change

Date

Department Business and Information Technology

Discipline Info Science & Technology (IS&T)

Course Number 5001

Topic ID 003

Experimental

Title

In Workflow

1. **RBUSADMN**
Chair
2. **CCC Secretary**
3. **Social 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. 02/23/23 8:07 pm
Cassie Elrod
(cassa): Approved
for RBUSADMN
Chair
2. 02/24/23 9:32 am
Jennifer
Pohlsander
(jpnfd): Approved
for CCC Secretary
3. 02/24/23 10:13
am
Cecil Eng Huang

Chua (cchua):
Approved for
Social Sciences
DSCC Chair

4. 03/22/23 10:08
am

Jennifer
Pohlsander
(jpnfd): Approved
for Pending CCC
Agenda post

5. 04/07/23 3:14 pm
Jennifer

Pohlsander
(jpnfd): Approved
for CCC Meeting
Agenda

6. 04/07/23 3:33 pm
Petra Dewitt

(dewittp):
Approved for
Campus Curricula
Committee Chair

Fundamentals of Cybersecurity Analytics

Experimental Cybersecurity Analytics

Abbreviated

Course Title

Instructors Dawei Wang

Experimental

Catalog

Description

This course presents students with a basic understanding of cybersecurity topics, which span organizational information security policies, data breaches, awareness

training, network security, application security, cloud security, data management, business continuity, and the latest cybersecurity issues.

Prerequisites

Field Trip

Statement

Credit Hours

LEC: 3

LAB: 0

IND: 0

RSD: 0

Total: 3

Justification for

new course:

This course will complement existing cybersecurity courses in BIT. Students will benefit from taking this course by gaining more knowledge about cybersecurity analytic essentials and the latest cybersecurity issues. The course will prepare students for jobs that require a rich understanding of cybersecurity topics and analytical methods. Students who take the course will have promising career prospects. The course will help students pursue a cybersecurity-related career in government agencies, military, tech firms, security firms, gaming firms, banks, communications, established corporations, and small- and medium-sized businesses, etc.

Semester(s)

previously taught

Co-Listed

Courses:

Course Reviewer

Comments

Key: 4946

[Preview Bridge](#)

Course Change Request

New Experimental Course Proposal

Date Submitted: 02/10/23 10:50 am

Viewing: **PSYCH 4001.001 : Music and the Mind**

File: 4939

Last edit: 03/09/23 8:12 am

Changes proposed by: burnsde

Requested	Fall 2023
Effective Change	
Date	
Department	Psychological Science
Discipline	Psychology (PSYCH)
Course Number	4001
Topic ID	001
Experimental	
Title	

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. **CAT entry**
8. Registrar

Approval Path

1. 02/10/23 10:55
am
Clair Kueny
(reynoldscla):
Approved for
RPSYCHOL Chair
2. 02/21/23 10:43
am
Jennifer
Pohlsander
(jpnfd): Approved
for CCC Secretary
3. 02/21/23 10:47
am

Cecil Eng Huang
Chua (cchua):
Approved for
Social Sciences
DSCC Chair

4. 03/22/23 10:08
am

Jennifer
Pohlsander
(jpnfd): Approved
for Pending CCC
Agenda post

5. 04/07/23 3:14 pm

Jennifer
Pohlsander
(jpnfd): Approved
for CCC Meeting
Agenda

6. 04/07/23 3:33 pm

Petra Dewitt
(dewittp):
Approved for
Campus Curricula
Committee Chair

Music and the Mind

Experimental Music and the Mind

Abbreviated

Course Title

Instructors Dr. Amy Belfi

Experimental

Catalog

Description

Music is a ubiquitous aspect of the human experience. Topics will include cognitive

and neural aspects of music perception; the effects of musical training, performance, and creativity; and potential therapeutic uses of music for neurological disorders. This course places special emphasis on reading and discussion of primary literature in the field.

Prerequisites

Psych 1101.

Field Trip

Statement

Credit Hours

LEC: 3

LAB: 0

IND: 0

RSD: 0

Total: 3

Justification for
new course:

This class is intended to become a capstone senior seminar option, especially appealing to students interested in the cognitive and neuroscience specialties of psychology.

Semester(s)
previously taught

Co-Listed
Courses:

Course Reviewer

Comments

jpnfd (03/09/23 8:12 am): Updated prerequisite formatting.

Key: 4939

[Preview Bridge](#)