



## Campus Curricula Committee Meeting Agenda

February 5, 2014

10:00 am, Room 106B Parker Hall

### Review of submitted Course Change forms:

- File #122.1 Biological Sciences 328 – Nutritional and Medicinal Properties of Plants
- File #4016 Biological Sciences 252 – Field Ecology
- File #248.1 Chemistry 151 – Analytical Chemistry
- File #1888.1 Chemistry 203 – MST General Chemistry Lab
- File #253.1 Chemistry 226 – Organic Chemistry I Lab
- File #254.1 Chemistry 228 – Organic Chemistry II Lab
- File #256.1 Chemistry 238 – Inorganic Chemistry Laboratory
- File #257.1 Chemistry 241 – Physical Chemistry
- File #258.1 Chemistry 242 – Physical Chemistry Laboratory
- File #259.1 Chemistry 243 – Physical Chemistry
- File #260.1 Chemistry 244 – Physical Chemistry Laboratory
- File #238.1 Chemistry 2 – General Chemistry Laboratory
- File #266.1 Chemistry 328 – Organic Synthesis and Spectroscopic Analysis
- File #268.1 Chemistry 343 – Introduction to Quantum Chemistry
- File #270.1 Chemistry 355 – Instrumental Methods of Chemical Analysis
- File #272.1 Chemistry 362 – General Biochemistry Laboratory
- File #274.1 Chemistry 375 – Principles of Environmental Monitoring
- File #1764.1 Chemistry 384 – Polymer Science Laboratory
- File #245.1 Chemistry 52 – Elementary Quantitative Chemical Analysis
- File #241.1 Chemistry 8 – Qualitative Analysis
- File #4029 English 2250 – American Short Story
- File #714.1 English 311 – Teaching and Supervising Writing
- File #928.1 Information Science & Technology 321 – Network Performance Design and Management
- File #1864.1 Information Science & Technology 386 – Human-Computer Interaction Prototyping
- File #1862.1 Information Science & Technology 487 – Research Methods in Human- Interaction
- File #4023 Philosophy 4325 – Epistemology: Knowledge and Justification
- File #1409.1 Russian 360 – Russian Civilization



**Review of submitted Experimental Course forms:**

File #4022    Statistics 6001 – Special Topics: Foundations of Statistical Learning

**Implementing experiential learning into undergraduate curricula**

# Course Inventory Change Request

Date Submitted: 08/16/13 9:43 am

Viewing: **BIO SCI 2333 ~~328~~: Nutrition**

## **~~Nutritional And Medicinal Properties Of~~ Plants**

File: 122.1

Last edit: 01/17/14 11:24 am

Changes proposed by: aronstam

Requested	<b>Fall 2014</b> <del>14-Aug-06</del>
Effective Change Date	
Department	Biological Sciences
Discipline	Biological Sciences (BIO SCI)
Course Number	<b>2333</b> <del>328</del>
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. Peoplesoft

### Approval Path

1. 08/16/13 9:45 am  
aronstam:  
Approved for  
RBIOLSCI Chair
2. 01/09/14 9:04 am  
lahne: Approved  
for CCC Secretary
3. 01/17/14 11:24  
am  
tauritzd:

Approved for  
Sciences DSCC  
Chair

4. 01/17/14 3:48 pm  
lahne: Approved  
for Pending CCC  
Agenda post

## **Nutrition** ~~Nutritional And Medicinal Properties Of Plants~~

Abbreviated **Nutrition** ~~Nutri & Med Prop~~  
Course Title **Plants**

### Catalog

### Description

**This introductory course provides an overview of the principles of nutritional science. Topics include the description and functions of nutrients, how nutrients are digested and absorbed, effects** ~~A survey~~ **of nutrient imbalances, food sources, nutrient interactions, dietary guidelines, the biochemical and physiological functions of mineral elements, vitamins, and other organic compounds from plants necessary in human nutrition;** and **the role an overview of nutrition in weight management, health** ~~the medicinal derivatives of various plants, their effects and disease. uses.~~

### Prerequisites

Bio Sci 110 or Bio Sci **111** ~~111~~; and ~~Bio-Sci-211~~.

### 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:

Course now focuses on human nutrition and not exclusively on plant products.

Semesters  
previously  
offered as an  
experimental  
course

**NA**

Co-Listed  
Courses:

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Course Reviewer  
Comments

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Key: 122

# Course Inventory Change Request

## New Course Proposal

Date Submitted: 10/30/13 9:41 am

Viewing: **BIO SCI 252, 2264 : Field Ecology**

File: 4016

Last edit: 01/17/14 3:53 pm

Changes proposed by: niyogid

Requested	Summer 2014
Effective Change Date	
Department	Biological Sciences
Discipline	Biological Sciences (BIO SCI)
Course Number	252, 2264
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. Peoplesoft

### Approval Path

1. 10/30/13 9:45 am  
aronstam:  
Approved for  
RBIOLSCI Chair
2. 01/09/14 9:04 am  
lahne: Approved  
for CCC Secretary
3. 01/17/14 11:29  
am  
tauritzd:

Approved for  
Sciences DSCC  
Chair

4. 01/17/14 3:53 pm  
lahne: Approved  
for Pending CCC  
Agenda post

## Field Ecology

Abbreviated Course Title      Field Ecology

### Catalog

#### Description

Field-based class designed to teach students applications of ecological research. Students will study distribution and abundance of organisms in aquatic and terrestrial systems in the Ozarks. Class runs 8am to 5pm for one week in May in the intersession, and includes lectures and field sampling in the Rolla area.

#### Prerequisites

Any BioSci course

#### Field Trip

#### Statement

This class includes field trips at minor student expense.

Credit Hours      LEC: 1      LAB: 1      IND: 0      RSD: 0

Total: 2

Required for Majors      No

Elective for Majors      Yes

#### Justification for

#### new course:

This class has been taught as an experimental class (201) two times and is being

given a permanent number.

Semesters

previously

offered as an

experimental

course

SS2012 - 12 enrolled

SS2013 - 13 enrolled

Co-Listed

Courses:

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Course Reviewer

Comments

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Key: 4016



# Course Inventory Change Request

Date Submitted: 10/10/13 3:11 pm

Viewing: **CHEM 151 : Analytical Chemistry I**

File: 248.1

Last edit: 10/10/13 3:11 pm

Changes proposed by: tschuman

## Programs

referencing this  
course

[CH ENG-BS: Chemical Engineering BS](#)

[CHEM-BA: Chemistry BA](#)

[CHEM-BS: Chemistry BS](#)

[CHEM-MI: Chemistry Minor](#)

## Other Courses

referencing this  
course

In The Catalog Description:

[CHEM 251 : Analytical Chemistry II](#)

In The Prerequisites:

[CHEM 355 : Instrumental Methods Of Chemical Analysis](#)

Requested **Fall 2014** ~~1-Jan-08~~

Effective Change

Date

Department Chemistry

Discipline Chemistry (CHEM)

Course Number 151

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. Peoplesoft

## Approval Path

1. 11/20/13 2:23 pm  
woelkk: Approved  
for RCHEMIST  
Chair

2. 01/09/14 9:07 am  
lahne: Approved  
for CCC Secretary

3. 01/17/14 11:29  
am  
tauritzd:

Approved for  
Sciences DSCC  
Chair

4. 01/17/14 3:54 pm  
lahne: Approved  
for Pending CCC  
Agenda post

## Analytical Chemistry I

Abbreviated Course Title      Analytical Chemistry I

### Catalog

#### Description

A study of analytical chemistry including an introduction to experimental error, statistics, principles of gravimetric and combustion analysis, chemical equilibrium, acid - base titrations, and electro-analytical determinations.

#### Prerequisites

Chem 3 and preceded or accompanied by Chem 4. ~~4 or equivalent training program approved by S&T.~~

#### Field Trip

#### Statement

Credit Hours      LEC: 3      LAB: 1      IND: 0      RSD: 0

Total: 4

Required for      ~~Yes~~ **No**

Majors

Elective for      No

Majors

#### Justification for

change:

No list of equivalent or approved training courses for Missouri S&T

Semesters  
previously  
offered as an  
experimental  
course

Co-Listed  
Courses:

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Course Reviewer  
Comments

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Key: 248

# Course Inventory Change Request

Date Submitted: 10/10/13 3:19 pm

Viewing: **CHEM 203 : MST General Chemistry Lab**

File: 1888.1

Last edit: 10/10/13 3:19 pm

Changes proposed by: tschuman

Requested **Fall 2014** ~~1 Jan 08~~

Effective Change

Date

Department Chemistry

Discipline Chemistry (CHEM)

Course Number 203

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. Peoplesoft

## Approval Path

1. 11/20/13 2:23 pm  
woelkk: Approved  
for RCHEMIST  
Chair

2. 01/09/14 10:29  
am  
lahne: Approved  
for CCC Secretary

3. 01/17/14 11:30  
am

tauritzd:  
 Approved for  
 Sciences DSCC  
 Chair

4. 01/17/14 3:55 pm  
 lahne: Approved  
 for Pending CCC  
 Agenda post

## MST General Chemistry Lab

Abbreviated           MST General Chem Lab  
 Course Title

### Catalog

#### Description

The laboratory work accompanying the MST chemistry courses consists of experiments designed to supplement the lecture work in chemistry. This course is primarily intended for secondary education science teachers. Credit will not be given for both Chemistry 2 and Chemistry 203. ~~Preceded or accompanied by Chem 204 or equivalent training program approved by S&T.~~

#### Prerequisites

Entrance requirements for the MST **program and preceded or accompanied by either Chem 4 or Chem 204.** ~~program.~~

#### Field Trip

#### Statement

Credit Hours           LEC: 0                   LAB: 1                   IND: 0                   RSD: 0

Total: 1

Required for           **Yes** ~~No~~

Majors

Elective for           No

Majors

Justification for

change:

There is no list of equivalent or approved courses for Missouri S&T. Moves prereqs to appropriate line.

Semesters

previously

offered as an

experimental

course

Co-Listed

Courses:

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Course Reviewer

Comments

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Key: 1888

# Course Inventory Change Request

Date Submitted: 10/10/13 3:11 pm

Viewing: **CHEM 226 : Organic Chemistry I Lab**

File: 253.1

Last edit: 10/10/13 3:11 pm

Changes proposed by: tschuman

## Programs

referencing this  
course

[BIO SC-BA: Biological Sciences BA](#)

[BIO SC-BS: Biological Sciences BS](#)

[CHEM-BA: Chemistry BA](#)

[CHEM-BS: Chemistry BS](#)

[CHEM-MI: Chemistry Minor](#)

[PRE-MED-MI: Pre-Medicine Minor](#)

## Other Courses

referencing this  
course

In The Catalog Description:

[CHEM 228 : Organic Chemistry II Lab](#)

In The Prerequisites:

[CHEM 228 : Organic Chemistry II Lab](#)

Requested **Fall 2014** ~~1-Jan-08~~

Effective Change

Date

Department Chemistry

Discipline Chemistry (CHEM)

## 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. Peoplesoft

## Approval Path

1. 11/20/13 2:24 pm  
woelkk: Approved  
for RCHEMIST  
Chair

2. 01/09/14 10:29  
am  
lahne: Approved  
for CCC Secretary

3. 01/17/14 11:30  
am

Course Number 226

Title

tauritzd:

Approved for  
Sciences DSCC  
Chair4. 01/17/14 3:56 pm  
lahne: Approved  
for Pending CCC  
Agenda post

Organic Chemistry I Lab

Abbreviated Organic Chemistry I Lab

Course Title

Catalog

Description

Laboratory involves purification techniques, simple and multistep synthesis and spectroscopic identification of organic functional groups.

Prerequisites

Preceded or accompanied by Chem 221 and ~~either Chem 4. 4 or an equivalent training program approved by S&T.~~

Field Trip

Statement

Credit Hours

LEC: 0

LAB: 1

IND: 0

RSD: 0

Total: 1

Required for

~~Yes~~ No

Majors

Elective for

No

Majors

Justification for

change:

No list of equivalent or approved training courses for Missouri S&amp;T



Semesters  
previously  
offered as an  
experimental  
course

Co-Listed  
Courses:

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Course Reviewer  
Comments

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Key: 253

# Course Inventory Change Request

Date Submitted: 10/10/13 3:12 pm

Viewing: **CHEM 228 : Organic Chemistry II Lab**

File: 254.1

Last edit: 10/10/13 3:12 pm

Changes proposed by: tschuman

## Programs

referencing this  
course

[BIO SC-BA: Biological Sciences BA](#)

[BIO SC-BS: Biological Sciences BS](#)

[CHEM-BA: Chemistry BA](#)

[CHEM-BS: Chemistry BS](#)

[PRE-MED-MI: Pre-Medicine Minor](#)

## Other Courses

referencing this  
course

In The Catalog Description:

[CHEM 328 : Organic Synthesis And Spectroscopic Analysis](#)

Requested **Fall 2014**~~1-Jan-08~~

Effective Change

Date

Department Chemistry

Discipline Chemistry (CHEM)

Course Number 228

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. Peoplesoft

## Approval Path

1. 11/20/13 2:24 pm  
woelkk: Approved  
for RCHEMIST  
Chair

2. 01/09/14 10:36  
am  
lahne: Approved  
for CCC Secretary

3. 01/17/14 11:30  
am

tauritzd:  
 Approved for  
 Sciences DSCC  
 Chair

4. 01/17/14 3:56 pm  
 lahne: Approved  
 for Pending CCC  
 Agenda post

## Organic Chemistry II Lab

Abbreviated Course Title      Organic Chemistry II Lab

### Catalog

#### Description

Continuation of Chem 226.

#### Prerequisites

Chem 226, preceded or accompanied by Chem 223 and Chem ~~4. 4~~ or an equivalent training program approved by S&T.

#### Field Trip

#### Statement

Credit Hours	LEC: 0	LAB: 1	IND: 0	RSD: 0
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Total: 1

Required for Majors	Yes <del>No</del>
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Elective for Majors	No
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#### Justification for change:

No list of equivalent or approved training courses for Missouri S&T

#### Semesters

previously  
offered as an  
experimental  
course

Co-Listed  
Courses:

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Course Reviewer  
Comments

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Key: 254

# Course Inventory Change Request

Date Submitted: 10/10/13 3:12 pm

Viewing: **CHEM 238 : Inorganic Chemistry Laboratory**

File: 256.1

Last edit: 10/10/13 3:12 pm

Changes proposed by: tschuman

Programs  
referencing this  
course

[CHEM-BS: Chemistry BS](#)

Requested **Fall 2014** ~~1-Jan-08~~

Effective Change  
Date

Department Chemistry

Discipline Chemistry (CHEM)

Course Number 238

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. Peoplesoft

Approval Path

1. 11/20/13 2:24 pm  
woelkk: Approved  
for RCHEMIST  
Chair

2. 01/09/14 10:39  
am

lahne: Approved  
for CCC Secretary

3. 01/17/14 11:30  
am

tauritzd:  
 Approved for  
 Sciences DSCC  
 Chair

4. 01/17/14 3:57 pm  
 lahne: Approved  
 for Pending CCC  
 Agenda post

## Inorganic Chemistry Laboratory

Abbreviated            Inorganic Chem Lab  
 Course Title

### Catalog

#### Description

Synthesis and characterization of inorganic chemicals, high and low temperature syntheses, inert atmosphere and vacuum manipulations, electrochemistry, magnetochemistry, spectroscopy (NMR, IR, UV/VIS), superconductivity.

#### Prerequisites

Preceded or accompanied by Chem 237 and Chem 4. ~~4 or an equivalent training program approved by S&T.~~

#### Field Trip

#### Statement

Credit Hours            LEC: 0                    LAB: 1                    IND: 0                    RSD: 0

Total: 1

Required for            ~~No~~  
 Majors

Elective for            No  
 Majors

Justification for  
 change:

No list of equivalent or approved training courses for Missouri S&T

Semesters  
previously  
offered as an  
experimental  
course

Co-Listed  
Courses:

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Course Reviewer  
Comments

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Key: 256

# Course Inventory Change Request

Date Submitted: 10/10/13 3:00 pm

Viewing: **CHEM 241 : Physical Chemistry**

File: 257.1

Last edit: 01/17/14 11:31 am

Changes proposed by: tschuman

## Programs

referencing this  
course

[CH ENG-BS: Chemical Engineering BS](#)

[CHEM-BA: Chemistry BA](#)

[CHEM-BS: Chemistry BS](#)

[CR ENG-BS: Ceramic Engineering BS](#)

[EV ENG-BS: Environmental Engineering BS](#)

[MT ENG-BS: Metallurgical Engineering BS](#)

## Other Courses

referencing this  
course

In The Catalog Description:

[CHEM 243 : Physical Chemistry](#)

[CHEM 251 : Analytical Chemistry II](#)

In The Prerequisites:

[CHEM 242 : Physical Chemistry Laboratory](#)

[CHEM ENG 237 : Continuous Mass Transfer](#)

Requested **Fall 2014** ~~3-Jan-11~~

Effective Change

Date

Department Chemistry

## 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. Peoplesoft

## Approval Path

1. 11/20/13 2:24 pm  
woelkk: Approved  
for RCHEMIST  
Chair

2. 01/09/14 10:40  
am

lahne: Approved  
for CCC Secretary

3. 01/17/14 11:31  
am



Discipline Chemistry (CHEM)

Course Number 241

Title

tauritzd:

Approved for  
Sciences DSCC  
Chair

4. 01/17/14 3:57 pm

lahne: Approved  
for Pending CCC  
Agenda post

Physical Chemistry

Abbreviated Physical Chemistry

Course Title

Catalog

Description

A study of the laws of thermodynamics and their applications to the states of matter, solutions, and equilibria.

Prerequisites

Math ~~15 22~~, ~~Physics 24~~ or **Math 21; Physics 21** or Physics ~~23. 25~~.

Field Trip

Statement

Credit Hours

LEC: 3

LAB: 0

IND: 0

RSD: 0

Total: 3

Required for

**Yes**~~No~~

Majors

Elective for

No

Majors

Justification for

change:

Prerequisites better reflect preparatory content desired.

Semesters

previously  
offered as an  
experimental  
course

Co-Listed  
Courses:

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Course Reviewer  
Comments

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Key: 257

# Course Inventory Change Request

Date Submitted: 10/10/13 3:12 pm

Viewing: **CHEM 242 : Physical Chemistry**

## Laboratory

File: 258.1

Last edit: 10/10/13 3:12 pm

Changes proposed by: tschuman

### Programs

referencing this  
course

[CH ENG-BS: Chemical Engineering BS](#)

[CHEM-BA: Chemistry BA](#)

[CHEM-BS: Chemistry BS](#)

### Other Courses

referencing this  
course

In The Catalog Description:

[CHEM 244 : Physical Chemistry Laboratory](#)

Requested **Fall 2014** ~~1-Jan-08~~

Effective Change

Date

Department Chemistry

Discipline Chemistry (CHEM)

Course Number 242

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. Peoplesoft

### Approval Path

1. 11/20/13 2:24 pm  
woelkk: Approved  
for RCHEMIST  
Chair

2. 01/09/14 10:43  
am  
lahne: Approved  
for CCC Secretary

3. 01/17/14 11:31  
am

tauritzd:  
 Approved for  
 Sciences DSCC  
 Chair

4. 01/17/14 3:58 pm  
 lahne: Approved  
 for Pending CCC  
 Agenda post

## Physical Chemistry Laboratory

Abbreviated Course Title      Physical Chemistry Lab

### Catalog

#### Description

Some typical operations of experimental physical chemistry.

#### Prerequisites

Preceded or accompanied by Chem 241 and Chem ~~4. 4~~ or an equivalent training program approved by S&T.

#### Field Trip

#### Statement

Credit Hours	LEC: 0	LAB: 1	IND: 0	RSD: 0
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Total: 1

Required for Majors	Yes <del>No</del>
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Elective for Majors	No
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#### Justification for

#### change:

No list of equivalent or approved training courses for Missouri S&T

#### Semesters

previously  
offered as an  
experimental  
course

Co-Listed  
Courses:

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Course Reviewer  
Comments

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Key: 258

# Course Inventory Change Request

Date Submitted: 10/10/13 3:01 pm

Viewing: **CHEM 243 : Physical Chemistry**

File: 259.1

Last edit: 10/10/13 3:01 pm

Changes proposed by: tschuman

## Programs

referencing this  
course

[CH ENG-BS: Chemical Engineering BS](#)

[CHEM-BA: Chemistry BA](#)

[CHEM-BS: Chemistry BS](#)

## Other Courses

referencing this  
course

In The Catalog Description:

[CHEM 346 : Chemical Thermodynamics](#)

[CHEM 449 : Chemical Kinetics](#)

[CHEM 457 : Electrochemistry](#)

[CHEM 484 : Polymer Physical Chemistry And Analysis](#)

In The Prerequisites:

[CHEM 244 : Physical Chemistry Laboratory](#)

[CHEM 355 : Instrumental Methods Of Chemical Analysis](#)

[CHEM ENG 381 : Corrosion And Its Prevention](#)

[MET ENG 381 : Corrosion And Its Prevention](#)

Requested

**Fall 2014** ~~1-Jan-00~~

Effective Change

Date

## 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. Peoplesoft

## Approval Path

1. 11/20/13 2:25 pm  
woelkk: Approved  
for RCHEMIST  
Chair

2. 01/09/14 10:45  
am  
lahne: Approved  
for CCC Secretary

3. 01/17/14 11:31  
am

Department            Chemistry  
 Discipline            Chemistry (CHEM)  
 Course Number       243  
 Title

tauritzd:  
 Approved for  
 Sciences DSCC  
 Chair  
 4. 01/17/14 3:59 pm  
 lahne: Approved  
 for Pending CCC  
 Agenda post

### Physical Chemistry

Abbreviated            Physical Chemistry  
 Course Title

### Catalog

#### Description

A study of kinetic theory, chemical kinetics, electromotive force and ionic equilibria.

#### Prerequisites

Chem 241 ~~or consent of department.~~

#### 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:

Desire to drop consent of department

Semesters  
 previously

offered as an  
experimental  
course

Co-Listed  
Courses:

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Course Reviewer  
Comments

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Key: 259



# Course Inventory Change Request

Date Submitted: 10/10/13 3:13 pm

Viewing: **CHEM 244 : Physical Chemistry Laboratory**

File: 260.1

Last edit: 01/17/14 11:32 am

Changes proposed by: tschuman

Programs  
referencing this  
course

[CHEM-BA: Chemistry BA](#)

[CHEM-BS: Chemistry BS](#)

Requested **Fall 2014** ~~3-Jan-11~~

Effective Change

Date

Department Chemistry

Discipline Chemistry (CHEM)

Course Number 244

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. Peoplesoft

Approval Path

1. 11/20/13 2:25 pm  
woelkk: Approved  
for RCHEMIST  
Chair

2. 01/09/14 10:46  
am

lahne: Approved  
for CCC Secretary

3. 01/17/14 11:33  
am

tauritzd:  
 Approved for  
 Sciences DSCC  
 Chair

4. 01/17/14 4:01 pm  
 lahne: Approved  
 for Pending CCC  
 Agenda post

## Physical Chemistry Laboratory

Abbreviated            Physical Chemistry Lab  
 Course Title

### Catalog

#### Description

A continuation of Chem 242.

#### Prerequisites

Preceded or accompanied by **both** Chem 243 and ~~preceded or accompanied by~~  
 Chem ~~4. 4~~ ~~or an equivalent training program approved by S&T.~~

#### Field Trip

#### Statement

Credit Hours	LEC: 0	LAB: 1	IND: 0	RSD: 0
--------------	--------	--------	--------	--------

Total: 1

Required for Majors	<b>Yes</b> <del>No</del>
------------------------	--------------------------

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

#### Justification for change:

No list of equivalent or approved training courses for Missouri S&T

#### Semesters

previously  
offered as an  
experimental  
course

Co-Listed  
Courses:

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Course Reviewer  
Comments

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Key: 260

# Course Inventory Change Request

Date Submitted: 10/10/13 3:09 pm

Viewing: **CHEM 2 : General Chemistry Laboratory**

File: 238.1

Last edit: 01/17/14 11:34 am

Changes proposed by: tschuman

Catalog Pages  
referencing this  
course

[Freshman Engineering Program](#)  
[Mathematics](#)

Programs  
referencing this  
course

[AE ENG-BS: Aerospace Engineering BS](#)  
[AP MATH-BS: Applied Mathematics BS](#)  
[ARC ENG-BS: Architectural Engineering BS](#)  
[BIO SC-BA: Biological Sciences BA](#)  
[BIO SC-BS: Biological Sciences BS](#)  
[CH ENG-BS: Chemical Engineering BS](#)  
[CHEM-BA: Chemistry BA](#)  
[CHEM-BS: Chemistry BS](#)  
[CHEM-MI: Chemistry Minor](#)  
[CMP SC-BS: Computer Science BS](#)  
[CP ENG-BS: Computer Engineering BS](#)  
[CR ENG-BS: Ceramic Engineering BS](#)  
[CV ENG-BS: Civil Engineering BS](#)  
[EL ENG-BS: Electrical Engineering BS](#)

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. Peoplesoft

Approval Path

1. 11/20/13 2:25 pm  
woelkk: Approved  
for RCHEMIST  
Chair
2. 01/09/14 9:08 am  
lahne: Approved  
for CCC Secretary
3. 01/17/14 11:34  
am  
tauritzd:

[ENG MG-BS: Engineering Management BS](#)  
[EV ENG-BS: Environmental Engineering BS](#)  
[GE ENG-BS: Geological Engineering BS](#)  
[GL&GPH-BS: Geology and Geophysics BS](#)  
[MC ENG-BS: Mechanical Engineering BS](#)  
[MI ENG-BS: Mining Engineering BS](#)  
[MT ENG-BS: Metallurgical Engineering BS](#)  
[NU ENG-BS: Nuclear Engineering BS](#)  
[PE ENG-BS: Petroleum Engineering BS](#)  
[PHYSIC-BS: Physics BS](#)  
[PRE-MED-MI: Pre-Medicine Minor](#)

Approved for  
Sciences DSCC  
Chair

4. 01/17/14 4:01 pm  
lahne: Approved  
for Pending CCC  
Agenda post

Other Courses  
referencing this  
course

In The Catalog Description:

[ARCH ENG 103 : Architectural Materials And Methods Of Construction](#)

[CHEM 5 : Accelerated General Chemistry](#)

[EXP ENG 313 : Stage Pyrotechnics and Special Effects](#)

[EXP ENG 360 : Display Fireworks Manufacturing](#)

[GEOLOGY 125 : Physical Mineralogy And Petrology](#)

In The Prerequisites:

[EXP ENG 309 : Commercial Pyrotechnics Operations](#)

[GEOLOGY 113 : Mineralogy And Crystallography](#)

Requested	<b>Fall 2014</b> <del>1-Jan-08</del>
Effective Change Date	
Department	Chemistry
Discipline	Chemistry (CHEM)
Course Number	2
Title	General Chemistry Laboratory
Abbreviated Course Title	General Chemistry Lab

Catalog

**Description**

The laboratory work accompanying general chemistry consists of experiments designed to supplement lectures in Chem 1.

**Prerequisites**

Preceded or accompanied by **both** Chem 1 and Chem **4**. ~~4-or-equivalent training program approved by S&T.~~

**Field Trip****Statement**

Credit Hours	LEC: 0	LAB: 1	IND: 0	RSD: 0
--------------	--------	--------	--------	--------

Total: 1

Required for Majors	<b>Yes</b> <del>No</del>
---------------------	--------------------------

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

---

**Justification for change:**

No list of equivalent or approved training courses for Missouri S&T

**Semesters**

previously offered as an experimental course

**Co-Listed**

Courses:

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**Course Reviewer**

Comments

# Course Inventory Change Request

Date Submitted: 10/10/13 3:14 pm

Viewing: **CHEM 328 : Organic Synthesis And Spectroscopic Analysis**

File: 266.1

Last edit: 01/17/14 11:52 am

Changes proposed by: tschuman

Programs  
referencing this  
course

[CHEM-BA: Chemistry BA](#)

[CHEM-BS: Chemistry BS](#)

Requested **Fall 2014** ~~21-Aug-00~~

Effective Change

Date

Department Chemistry

Discipline Chemistry (CHEM)

Course Number 328

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. Peoplesoft

Approval Path

1. 11/20/13 2:28 pm  
woelkk: Approved  
for RCHEMIST  
Chair

2. 01/09/14 10:47  
am  
lahne: Approved  
for CCC Secretary

3. 01/17/14 11:53  
am

tauritzd:  
 Approved for  
 Sciences DSCC  
 Chair

4. 01/17/14 4:02 pm  
 lahne: Approved  
 for Pending CCC  
 Agenda post

## Organic Synthesis And Spectroscopic Analysis

Abbreviated Course Title      Org Synthes&Spectroscop

### Catalog

#### Description

Advanced methods for the multistep synthesis and characterization of organic compounds. Modern instrumental methods of identification of organic compounds.

#### Prerequisites

Chem 4, Chem 223, Chem **228** ~~228~~.

#### Field Trip

#### Statement

Credit Hours	LEC: 1	LAB: 2	IND: 0	RSD: 0
--------------	--------	--------	--------	--------

Total: 3

Required for Majors	<b>Yes</b> <del>No</del>
------------------------	--------------------------

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

Justification for  
change:

Clarification

Semesters



previously  
offered as an  
experimental  
course

Co-Listed  
Courses:

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Course Reviewer  
Comments

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Key: 266

# Course Inventory Change Request

Date Submitted: 10/10/13 3:03 pm

Viewing: **CHEM 343 : Introduction To Quantum Chemistry**

File: 268.1

Last edit: 10/10/13 3:03 pm

Changes proposed by: tschuman

## Programs

referencing this  
course

[CHEM-BA: Chemistry BA](#)

[CHEM-BS: Chemistry BS](#)

[CR ENG-BS: Ceramic Engineering BS](#)

## Other Courses

referencing this  
course

In The Catalog Description:

[CHEM 445 : Quantum Chemistry I](#)

In The Prerequisites:

[CHEM 344 : Advanced Physical Chemistry](#)

[CHEM 435 : Principles Of Inorganic Chemistry](#)

[CHEM 444 : Spectroscopy](#)

[CHEM 446 : Quantum Chemistry II](#)

[CHEM 455 : Chemical Spectroscopy](#)

Requested

**Fall 2014** ~~3-Jan-11~~

Effective Change

Date

## 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. **Peoplesoft**

## Approval Path

1. 11/20/13 2:28 pm  
woelkk: Approved  
for RCHEMIST  
Chair

2. 01/09/14 11:06  
am

lahne: Approved  
for CCC Secretary

3. 01/17/14 11:53  
am

Department            Chemistry  
 Discipline            Chemistry (CHEM)  
 Course Number        343  
 Title

tauritzd:  
 Approved for  
 Sciences DSCC  
 Chair  
 4. 01/17/14 4:02 pm  
 lahne: Approved  
 for Pending CCC  
 Agenda post

### Introduction To Quantum Chemistry

Abbreviated            Intro To Quantum Chem  
 Course Title

#### Catalog

#### Description

A study of molecular structures and spectroscopy, statistical thermodynamics, kinetic theory, chemical kinetics, crystals, and liquids.

#### Prerequisites

Math **22**; ~~22~~, Physics 24 or Physics **25**; **preceded or accompanied by Stat 213. 25.**

#### Field Trip

#### Statement

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

Total: 3

Required for            **Yes**~~No~~  
 Majors

Elective for            No  
 Majors

#### Justification for change:

Prerequisite added to reflect desired preparatory content

#### Semesters

previously  
offered as an  
experimental  
course

Co-Listed  
Courses:

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Course Reviewer  
Comments

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Key: 268

# Course Inventory Change Request

Date Submitted: 10/10/13 3:05 pm

Viewing: **CHEM 355 : Instrumental Methods Of Chemical Analysis**

File: 270.1

Last edit: 10/10/13 3:05 pm

Changes proposed by: tschuman

Programs

referencing this  
course

[CHEM-BA: Chemistry BA](#)

Other Courses

referencing this  
course

In The Catalog Description:

[CHEM 453 : Separations](#)

In The Prerequisites:

[CHEM 455 : Chemical Spectroscopy](#)

[CHEM 458 : Principles And Applications Of Mass Spectrometry](#)

[CHEM 459 : Mass Spectrometry of Macromolecules](#)

Requested **Fall 2014** ~~3-Jan-11~~

Effective Change  
Date

Department Chemistry

Discipline Chemistry (CHEM)

Course Number 355

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. Peoplesoft

Approval Path

1. 11/20/13 2:29 pm  
woelkk: Approved  
for RCHEMIST  
Chair

2. 01/09/14 11:07  
am

lahne: Approved  
for CCC Secretary

3. 01/17/14 11:53  
am

Title

tauritzd:

Approved for  
Sciences DSCC  
Chair

4. 01/17/14 4:02 pm  
lahne: Approved  
for Pending CCC  
Agenda post

## Instrumental Methods Of Chemical Analysis

Abbreviated Instr Mthds-Chem Analys  
Course Title

## Catalog

## Description

Principles and analytical applications of molecular spectroscopy, chromatographic separations, mass spectrometry, and radiochemistry. A brief overview of instrument electronics, signal generation and processing, and automated analysis is also provided.

## Prerequisites

Chem **251 and 4**, Chem **243 151**, ~~Chem 223, Chem 243.~~

## Field Trip

## Statement

Credit Hours      LEC: 3              LAB: 1              IND: 0              RSD: 0

Total: 4

Required for      **Yes-~~No~~**  
Majors

Elective for      No  
Majors

Justification for  
change:

Prerequisite changed to reflect desired preparatory content. Dropping chem 4 as departmental requirement.

Semesters  
previously  
offered as an  
experimental  
course

Co-Listed  
Courses:

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Course Reviewer  
Comments

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Key: 270

# Course Inventory Change Request

Date Submitted: 10/10/13 3:14 pm

Viewing: **CHEM 362 : General Biochemistry  
Laboratory**

File: 272.1

Last edit: 01/17/14 11:54 am

Changes proposed by: tschuman

Programs  
referencing this  
course

[CH ENG-BS: Chemical Engineering BS](#)

[CHEM-BA: Chemistry BA](#)

[CHEM-BS: Chemistry BS](#)

Requested **Fall 2014** ~~1-Jan-08~~  
Effective Change  
Date

Department Chemistry

Discipline Chemistry (CHEM)

Course Number 362

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. Peoplesoft

Approval Path

1. 11/20/13 2:29 pm  
woelkk: Approved  
for RCHEMIST  
Chair

2. 01/09/14 11:08  
am

lahne: Approved  
for CCC Secretary

3. 01/17/14 11:54  
am



tauritzd:  
 Approved for  
 Sciences DSCC  
 Chair

4. 01/17/14 4:03 pm  
 lahne: Approved  
 for Pending CCC  
 Agenda post

## General Biochemistry Laboratory

Abbreviated Course Title      General Biochemistry Lab

### Catalog

#### Description

Experiments are integrated with the lectures and cover the chemical and physical properties of proteins, enzymes, nucleic acids, carbohydrates and lipids.

#### Prerequisites

Preceded or accompanied by **both** Chem 361 and Chem **4. ~~4 or an equivalent training program approved by S&T.~~**

#### Field Trip

#### Statement

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

Total: 2

Required for      **Yes**~~No~~

Majors

Elective for      No

Majors

#### Justification for

change:

No list of equivalent or approved training courses for Missouri S&T

Semesters  
previously  
offered as an  
experimental  
course

Co-Listed  
Courses:

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Course Reviewer  
Comments

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Key: 272

# Course Inventory Change Request

Date Submitted: 10/10/13 3:07 pm

Viewing: **CHEM 375 : Principles Of Environmental Monitoring**

File: 274.1

Last edit: 10/10/13 3:07 pm

Changes proposed by: tschuman

Programs  
referencing this  
course

[CHEM-BA: Chemistry BA](#)

Requested **Fall 2014** ~~10-Jan-96~~

Effective Change

Date

Department Chemistry

Discipline Chemistry (CHEM)

Course Number 375

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. Peoplesoft

Approval Path

1. 11/20/13 2:29 pm  
woelkk: Approved  
for RCHEMIST  
Chair

2. 01/09/14 11:09  
am

lahne: Approved  
for CCC Secretary

3. 01/17/14 11:54  
am

tauritzd:  
 Approved for  
 Sciences DSCC  
 Chair

4. 01/17/14 4:03 pm  
 lahne: Approved  
 for Pending CCC  
 Agenda post

## Principles Of Environmental Monitoring

Abbreviated          Prin Env Monitoring  
 Course Title

### Catalog

#### Description

This course provides an overview of environmental monitoring methodologies. Discussion covers thermodynamic and kinetic processes that affect chemical transport and fate in the environment. Federal environmental regulations and remediation technologies are also covered with specific examples.

#### Prerequisites

Chem **221**; ~~221~~, Physics **21 or Physics 23. 25.**

#### Field Trip

#### Statement

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

Total: 3

Required for          **Yes**~~No~~  
 Majors

Elective for          No  
 Majors

Justification for  
 change:

Prerequisite changed to reflect desired preparatory content

Semesters  
previously  
offered as an  
experimental  
course

Co-Listed  
Courses:

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Course Reviewer  
Comments

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Key: 274

# Course Inventory Change Request

Date Submitted: 10/10/13 3:16 pm

Viewing: **CHEM 384 : Polymer Science Laboratory**

File: 1764.1

Last edit: 01/17/14 11:55 am

Changes proposed by: tschuman

Programs  
referencing this  
course

[CHEM-BA: Chemistry BA](#)

[CHEM-BS: Chemistry BS](#)

Requested **Fall 2014** ~~1-Jan-08~~

Effective Change

Date

Department Chemistry

Discipline Chemistry (CHEM)

Course Number 384

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. Peoplesoft

Approval Path

1. 11/20/13 2:30 pm  
woelkk: Approved  
for RCHEMIST  
Chair

2. 01/09/14 11:09  
am

lahne: Approved  
for CCC Secretary

3. 01/17/14 11:55  
am

tauritzd:  
 Approved for  
 Sciences DSCC  
 Chair

4. 01/17/14 4:04 pm  
 lahne: Approved  
 for Pending CCC  
 Agenda post

## Polymer Science Laboratory

Abbreviated Course Title      Polymer Science Lab

### Catalog

#### Description

Lectures and laboratory experiments dealing with polymerization reactions, solution properties and bulk or solid properties will be presented. Each student will prepare polymers and carry out all characterization experiments on actual samples.

#### Prerequisites

Chem 381 **and** ~~or Chem Eng 375,~~ preceded or accompanied by Chem **4. 4** ~~or an equivalent training program approved by S&T.~~

#### Field Trip

#### Statement

Credit Hours      LEC: 1      LAB: 2      IND: 0      RSD: 0

Total: 3

Required for Majors      No

Elective for Majors      **Yes** ~~No~~

Justification for change:

No list of equivalent or approved training courses for Missouri S&T. Reflected a prior course designation in other department, whose course is sparingly offered.

Semesters  
previously  
offered as an  
experimental  
course

Co-Listed  
Courses:

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Course Reviewer  
Comments

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Key: 1764



# Course Inventory Change Request

Date Submitted: 10/10/13 3:10 pm

Viewing: **CHEM 52 : Elementary Quantitative  
Chemical Analysis**

File: 245.1

Last edit: 01/17/14 11:56 am

Changes proposed by: tschuman

Other Courses  
referencing this  
course

In The Catalog Description:

[CHEM 51 : Elementary Quantitative Chemical Analysis](#)

Requested **Fall 2014** ~~1-Jan-08~~

Effective Change

Date

Department Chemistry

Discipline Chemistry (CHEM)

Course Number 52

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. Peoplesoft

Approval Path

1. 11/20/13 2:30 pm  
woelkk: Approved  
for RCHEMIST  
Chair

2. 01/09/14 10:38  
am

lahne: Approved  
for CCC Secretary

3. 01/17/14 11:56  
am

tauritzd:  
 Approved for  
 Sciences DSCC  
 Chair

4. 01/17/14 4:04 pm  
 lahne: Approved  
 for Pending CCC  
 Agenda post

## Elementary Quantitative Chemical Analysis

Abbreviated            Elem Quant Chem Analysis  
 Course Title

### Catalog

#### Description

The application of the principles of analytical chemistry in gravimetric and volumetric determinations.

#### Prerequisites

To be accompanied by Chem 51 and preceded or accompanied by Chem 4. ~~4 or an equivalent training program approved by S&T.~~

#### Field Trip

#### Statement

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

Total: 2

Required for            No

Majors

Elective for            ~~No~~ Yes

Majors

#### Justification for

change:

No list of equivalent or approved training courses for Missouri S&T

Semesters  
previously  
offered as an  
experimental  
course

Co-Listed  
Courses:

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Course Reviewer  
Comments

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Key: 245

# Course Inventory Change Request

Date Submitted: 10/10/13 3:10 pm

Viewing: **CHEM 8 : Qualitative Analysis**

File: 241.1

Last edit: 01/17/14 11:57 am

Changes proposed by: tschuman

Programs

referencing this  
course

[CHEM-BA: Chemistry BA](#)

[CHEM-BS: Chemistry BS](#)

[CHEM-MI: Chemistry Minor](#)

Requested **Fall 2014** ~~1-Jan-08~~

Effective Change

Date

Department Chemistry

Discipline Chemistry (CHEM)

Course Number 8

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. Peoplesoft

Approval Path

1. 11/20/13 2:30 pm  
woelkk: Approved  
for RCHEMIST  
Chair

2. 01/09/14 10:37  
am

lahne: Approved  
for CCC Secretary

3. 01/17/14 11:57  
am

tauritzd:  
 Approved for  
 Sciences DSCC  
 Chair  
 4. 01/17/14 4:05 pm  
 lahne: Approved  
 for Pending CCC  
 Agenda post

## Qualitative Analysis

Abbreviated Course Title      Qualitative Analysis

### Catalog

#### Description

This course is to accompany the study of the metals in general chemistry and is devoted to the qualitative separation and detection of the metals.

#### Prerequisites

Preceded or accompanied by **both** Chem 3 and Chem **4**. ~~4 or an equivalent training program approved by S&T.~~

#### Field Trip

#### Statement

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

Total: 2

Required for      **Yes**~~No~~

Majors

Elective for      No

Majors

#### Justification for

change:

No list of equivalent or approved training courses for Missouri S&T

Semesters  
previously  
offered as an  
experimental  
course

Co-Listed  
Courses:

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Course Reviewer  
Comments

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Key: 241

# Course Inventory Change Request

## New Course Proposal

Date Submitted: 12/11/13 1:06 pm

Viewing: **ENGLISH 2250 : American Short Story**

File: 4029

Last edit: 01/17/14 4:06 pm

Changes proposed by: kswenson

Requested                      Fall 2014

Effective Change

Date

Department                    English and Technical Communication

Discipline                     English (ENGLISH)

Course Number                2250

Title

### 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. Peoplesoft

### Approval Path

1. 12/11/13 1:08 pm  
kswenson:  
Approved for  
RENGLISH Chair
2. 01/09/14 9:03 am  
lahne: Approved  
for CCC Secretary
3. 01/10/14 10:07  
am

ivliyeva:

Approved for Arts  
& Humanities

DSCC Chair

4. 01/17/14 4:06 pm

lahne: Approved  
for Pending CCC  
Agenda post

## American Short Story

Abbreviated	American Short Story
Course Title	

## Catalog

## Description

This course follows the development of the short story genre from its early nineteenth-century beginnings up to and including stories written by contemporary American authors.

## Prerequisites

English 1120

## 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 has been taught twice with success. It fills a need in the department



curriculum for a course focusing on the short story genre. It offers an intensive reading course in American literature for non-majors.

#### Semesters

previously

offered as an

experimental

course

FS13 - 11 enrolled

FS10 - 11 enrolled

#### Co-Listed

Courses:

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Course Reviewer

Comments

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Key: 4029

# Course Inventory Change Request

Date Submitted: 11/07/13 1:07 pm

Viewing: **ENGLISH 3170.TBD ~~311~~: Teaching And Supervising Reading and Writing**

File: 714.1

Last edit: 01/10/14 10:11 am

Changes proposed by: kswenson

Requested **Fall 2014** ~~11-Jun-02~~

Effective Change

Date

Department English and Technical Communication

Discipline English (ENGLISH)

Course Number **3170** ~~311~~

Title

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. Peoplesoft

Approval Path

1. 11/07/13 1:08 pm  
kswenson:  
Approved for  
RENGLISH Chair
2. 01/09/14 9:03 am  
lahne: Approved  
for CCC Secretary
3. 01/10/14 10:11  
am

ivliyeva:

Approved for Arts  
& Humanities  
DSCC Chair

4. 01/17/14 4:07 pm

lahne: Approved  
for Pending CCC  
Agenda post

## Teaching And Supervising **Reading and** Writing

Abbreviated **Tching Read&Writ**  
Course Title **~~Tching&Supervising Writ~~**

### Catalog

#### Description

Students will study contemporary and traditional approaches to **reading and** writing instruction. The course will give students practice in applying **literacy composition theory** and **composition theory and** research to development of teaching methods, including course syllabi **and and** assignments.

#### Prerequisites

6 hours of college level writing courses.

#### 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:

Reading component is added in the title and description to a) more closely reflect the way the course is currently being taught and b) to satisfy new DESE requirements for education majors.

Semesters  
previously  
offered as an  
experimental  
course

Co-Listed  
Courses:

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Course Reviewer  
Comments

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Key: 714

# Course Inventory Change Request

Date Submitted: 09/25/13 8:13 am

Viewing: **IS&T 321 : Network Performance  
Design And Management**

File: 928.1

Last edit: 09/25/13 8:13 am

Changes proposed by: barryf

Requested	<b>Fall 2014</b> <del>16-Aug-10</del>
Effective Change	
Date	
Department	RINFSCTE
Discipline	Info Science & Technology (IS&T)
Course Number	321
Title	

## In Workflow

1. RINFSCTE 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. Peoplesoft

## Approval Path

1. 09/25/13 7:09 pm  
siauk: Approved  
for RINFSCTE  
Chair
2. 01/09/14 9:20 am  
lahne: Approved  
for CCC Secretary
3. 01/10/14 8:14 pm  
barryf: Approved  
for Social

Sciences DSCC

Chair

4. 01/17/14 4:19 pm

lahne: Approved

for Pending CCC

Agenda post

## Network Performance Design And Management

Abbreviated            Netwrk Perform Dsgn&amp;Mgt

Course Title

## Catalog

## Description

This course provides analytical capabilities needed to effectively design, deploy, and manage computer networks and protocols.

## Prerequisites

IS&T ~~223~~, IS&T 233.

## Field Trip

## Statement

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

Required for	No
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Majors

Elective for	No
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Majors

## Justification for

change:

Update prerequisites to reflect current teaching of the course.

## Semesters

previously

offered as an

experimental  
course

Co-Listed  
Courses:

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Course Reviewer  
Comments

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Key: 928

# Course Inventory Change Request

Date Submitted: 09/25/13 8:13 am

Viewing: **IS&T 386 : Human-Computer Interaction Prototyping**

File: 1864.1

Last edit: 09/25/13 8:13 am

Changes proposed by: barryf

Catalog Pages  
referencing this  
course

[Information Science and Technology](#)

[Information Science and Technology](#)

Programs  
referencing this  
course

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

[E&S COM-MI: Elect & Social Commerce Minor](#)

[ENTPRNS-MI: Entrepreneurship Minor](#)

[IST-BS: Information Science and Technology BS](#)

[MOBLB&T-MI: Mobile Bus & Tech Minor](#)

Requested **Fall 2014** ~~15-Jan-13~~

Effective Change  
Date

Department RINFSCTE

Discipline Info Science & Technology (IS&T)

Course Number 386

In Workflow

1. RINFSCTE 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. Peoplesoft

Approval Path

1. 09/25/13 7:09 pm  
siauk: Approved  
for RINFSCTE  
Chair

2. 01/09/14 9:20 am  
lahne: Approved  
for CCC Secretary

3. 01/10/14 8:22 pm  
barryf: Approved  
for Social



Title

Sciences DSCC

Chair

4. 01/17/14 4:20 pm

lahne: Approved

for Pending CCC

Agenda post

## Human-Computer Interaction Prototyping

Abbreviated

HCI Prototyping

Course Title

## Catalog

## Description

This course covers methods and tools for creating low and high fidelity prototypes of IT systems as well as design concepts, including best practices and guidelines for different form factors (e.g., desktop vs. mobile).

## Prerequisites

**Preceded** ~~IS&T 286~~ or ~~web design experience; preceded or~~ accompanied by IS&T 385.

## Field Trip

## Statement

Credit Hours

LEC: 1.5

LAB: 1.5

IND: 0

RSD: 0

Total: 3

Required for

No

Majors

Elective for

**Yes**~~No~~

Majors

## Justification for

change:

Update prerequisites.

## Semesters

previously  
offered as an  
experimental  
course

Co-Listed  
Courses:

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Course Reviewer  
Comments

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Key: 1864

# Course Inventory Change Request

Date Submitted: 09/25/13 8:22 am

Viewing: **IS&T 487 : Research Methods in Human-Computer Interaction**

File: 1862.1

Last edit: 09/25/13 8:22 am

Changes proposed by: barryf

Catalog Pages  
referencing this  
course

[Information Science and Technology](#)

[Information Science and Technology](#)

[Psychology](#)

[Psychology](#)

[Technical Communication](#)

Programs  
referencing this  
course

[TCH CM-MIG: Technical Communication Minor](#)

Requested	<b>Fall 2014</b> <del>17-Aug-09</del>
Effective Change Date	
Department	RINFSCTE
Discipline	Info Science & Technology (IS&T)
Course Number	487
Title	

In Workflow

1. **RINFSCTE 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. Peoplesoft

Approval Path

1. 09/25/13 7:09 pm  
siauk: Approved  
for RINFSCTE  
Chair

2. 01/09/14 9:19 am  
lahne: Approved  
for CCC Secretary

3. 01/10/14 8:22 pm  
barryf: Approved  
for Social

Sciences DSCC

Chair

4. 01/17/14 4:20 pm

lahne: Approved

for Pending CCC

Agenda post

## Research Methods in Human-Computer Interaction

Abbreviated HCI Research Methods

Course Title

## Catalog

## Description

This course covers quantitative and qualitative research methods for exploring the interaction between people and information technologies. The course covers techniques and tools for carrying out literature reviews, forming research goals, designing research, conducting data analyses; and preparing manuscripts and live presentations.

## Prerequisites

**Preceded or accompanied by** IS&T 385.

## Field Trip

## Statement

Credit Hours	LEC: 1.5	LAB: 1.5	IND: 0	RSD: 0
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Total: 3

Required for No

Majors

Elective for No

Majors

## Justification for

change:

Update prerequisite.

Semesters  
previously  
offered as an  
experimental  
course

Co-Listed  
Courses:

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Course Reviewer  
Comments

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Key: 1862

# Course Inventory Change Request

## New Course Proposal

Date Submitted: 11/21/13 11:03 am

Viewing: **PHILOS 4325 : Epistemology:**

## Knowledge and Justification

File: 4023

Last edit: 11/21/13 11:03 am

Changes proposed by: denises

Requested	Fall 2014
Effective Change Date	
Department	Arts, Languages, & Philosophy
Discipline	Philosophy (PHILOS)
Course Number	4325
Title	

### In Workflow

1. **RPHILOS 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. Peoplesoft

### Approval Path

1. 12/03/13 12:12 pm  
lance: Approved for RPHILOS Chair
2. 01/09/14 8:53 am  
lahne: Approved for CCC Secretary
3. 01/10/14 10:12

am

ivliyeva:

Approved for Arts  
& Humanities

DSCC Chair

4. 01/17/14 4:21 pm

lahne: Approved  
for Pending CCC  
Agenda post

## Epistemology: Knowledge and Justification

Abbreviated            Epistemology  
Course Title

## Catalog

## Description

An introduction to the field of epistemology, the study of the scope, the limits, the sources, and the nature of knowledge and justified belief. Includes analyses of knowledge and justification, skepticism, scientific knowledge, and naturalism, among other topics.

## Prerequisites

Proposed: Any 1000 level philosophy course. Philosophy 1105 recommended.

## Field Trip

## Statement

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

Required for Majors	No
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Elective for Majors	Yes
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## Justification for

new course:

Students in this course will acquire a thorough understanding of the nature and structure of knowledge and justified belief by learning and critically evaluating prominent and historically significant (1) theories of propositional, a priori, and perceptual knowledge, (2) theories of justification, and (3) forms of skepticism.

Semesters

previously

offered as an

experimental

course

Fall 2012, Fall 2013

Co-Listed

Courses:

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Course Reviewer

Comments

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Key: 4023



# Course Inventory Change Request

Date Submitted: 12/05/13 8:51 am

Viewing: **RUSSIAN 4360** ~~360~~: **Russian Civilization**

File: 1409.1

Last edit: 12/05/13 8:51 am

Changes proposed by: ivliyeva

Requested	<b>Fall 2014</b> <del>13-Aug-12</del>
Effective Change Date	
Department	Arts, Languages, & Philosophy
Discipline	Russian (RUSSIAN)
Course Number	<b>4360</b> <del>360</del>
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. Peoplesoft

## Approval Path

1. 12/05/13 8:56 am  
lance: Approved for RPHILOSO Chair
2. 01/09/14 8:53 am  
lahne: Approved for CCC Secretary
3. 01/10/14 10:12 am

ivliyeva:

Approved for Arts  
& Humanities

DSCC Chair

4. 01/17/14 4:22 pm

lahne: Approved  
for Pending CCC  
Agenda post

## Russian Civilization

Abbreviated	Russian Civilization
Course Title	

## Catalog

## Description

Introduction to Russian **civilization** ~~history~~ and culture from the 9th to the **19th** ~~20th~~ century exploring the interrelation between Russian society, its history and its cultural expression in painting, literature, **music, visual arts** ~~music~~ and architecture over the past thousand years. ~~The periods covered include Kievan Russia, the birth of Christianity, the Mongol invasion, Ivan the Terrible, Peter the Great, Catherine the Great, and Imperial Russia.~~

## Prerequisites

Any **1000** ~~1xx~~-level history course.

## Field Trip

## Statement

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

Total: 3

Required for	No
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Majors

Elective for	<b>Yes</b> <del>No</del>
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Majors

Justification for  
change:

Renumbering

Semesters  
previously  
offered as an  
experimental  
course

Co-Listed  
Courses:

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Course Reviewer  
Comments

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Key: 1409

# Course Inventory Change Request

## New Experimental Course Proposal

Date Submitted: 11/20/13 10:17 am

Viewing: **STAT 6001.TBD : Foundations of**

## Statistical Learning

File: 4022

Last edit: 01/09/14 5:00 pm

Changes proposed by: imorgan

Requested	Fall 2014
Effective Change Date	
Department	Mathematics & Statistics
Discipline	Statistics (STAT)
Course Number	6001
Topic ID	TBD
Title	

### In Workflow

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

### Approval Path

1. 11/20/13 10:31 am  
sclark: Approved for RMATHEMA Chair
2. 12/05/13 9:25 am  
lahne: Approved for CCC Secretary
3. 01/09/14 5:00 pm  
tauritzd:  
Approved for Sciences DSCC Chair

4. 01/17/14 4:22 pm  
lahne: Approved  
for Pending CCC  
Agenda post

## Foundations of Statistical Learning

Abbreviated Course Title      Statistical Learning

Instructors                      Robert L. Paige

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### Catalog

#### Description

An introduction to the statistical foundations of data-analytic techniques commonly used in Data Mining and the analysis of Big Data, including spline and kernel methods, principal component analysis, dimension reduction, neural networks, tree-based methods, nearest neighbors methods, support vector machines, bagging and boosting.

#### Prerequisites

Math 22, one of Math 208, 308 or 408, and one of Stat 211, 213, 215, 217 or 343

#### Field Trip

#### Statement

Credit Hours              LEC: 3.0              LAB: 0.0              IND: 0.0              RSD: 0.0  
Total: 3.0

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#### Justification for

#### new course:

Data Mining and Big Data are part of what many consider to be a revolution in the data sciences and as such have generated much interest. The techniques covered in Statistical Learning provide access to much of what is going on in Data Mining and Big Data.

#### Semester(s)

previously taught

None

Co-Listed

Courses:

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Course Reviewer

Comments

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Key: 4022