# Course Inventory Change Request

**Date Submitted:** 02/01/17 8:53 am

**Viewing:** **CHEM 660 : Systematic Inorganic Chemistry**

**Last edit:** 02/01/17 8:53 am

**Changes proposed by:** dgarens

## Catalog Pages referencing this course

- BS in Chemistry
- BS in Chemistry with concentration in Biological Chemistry
- BS in Chemistry with concentration in Chemical Physics
- College of Liberal Arts & Sciences
- Department of Chemistry

## Academic Career

Undergraduate, Lawrence

## Subject Code

CHEM

## Academic Unit

Department Chemistry (CHEM)

## School/College

College of Lib Arts & Sciences

## Do you intend to offer any portion of this course online?

No

## Title

Systematic Inorganic Chemistry

## Transcript Title

Systematic Inorganic Chemistry

## Effective Term

Fall 2017

## Catalog Description

A systematic study of the elements and their compounds, emphasizing the relationship between properties of substances and their atomic and molecular structures and the positions of the elements in the periodic systems.

## Prerequisites

CHEM 510, 510 or CHEM 520 or CHEM 530.

## Cross Listed Courses:

- Credits: 3
- Course Type: Lecture (Regularly scheduled academic course) (LEC)
- Grading Basis: A-D(+/-)FI
- Is this course part of the University Honors Program?: No
- Are you proposing this course for KU Core?: No
- Typically Offered: Only Spring Semester
- Repeatable for credit?: No
- Principal Course Designator

## Course Designator

N - Natural Sciences

## Program Code - Name

- (CHEM-BS) Chemistry, B.S.

## Will this course be required for a degree, major, minor, certificate, or concentration?

Yes

## Describe how:

This is no change to current degree requirements.
<table>
<thead>
<tr>
<th>Rationale for Course Proposal</th>
<th>Additional pre-requisite of CHEM 520 (new course for Fa17) added.</th>
</tr>
</thead>
</table>

Course Reviewer Comments
Course Inventory Change Request

Date Submitted: 02/02/17 4:05 pm

Viewing: **EALC 330 : China's Cultural Legacy Chinese Literature and Culture: Premodern Times**

Last edit: 02/02/17 4:05 pm

Changes proposed by: mgchilds

| Catalog Pages referencing this course | College of Liberal Arts & Sciences  
Department of East Asian Languages and Cultures |

| Programs | EALC-BA: East Asian Languages and Cultures, B.A. |

<table>
<thead>
<tr>
<th>Academic Career</th>
<th>Undergraduate, Lawrence</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subject Code</td>
<td>EALC</td>
</tr>
<tr>
<td>Academic Unit</td>
<td>Department: East Asian Languages &amp; Cultures (EALC)</td>
</tr>
<tr>
<td>School/College</td>
<td>College of Liberal Arts &amp; Sciences</td>
</tr>
</tbody>
</table>

Do you intend to offer any portion of this course online?  
No

<table>
<thead>
<tr>
<th>Title</th>
<th>China's Cultural Legacy Chinese Literature and Culture: Premodern Times</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transcript Title</td>
<td>China's Cultural Legacy Chinese Lit &amp; Cult: Premodern Times</td>
</tr>
</tbody>
</table>

Effective Term: Fall 2017

Catalog Description:  
An examination of Chinese literature and culture from earliest times to the modern period. Not open to students who have taken EALC 530. This course is taught at the 300 and 500 levels with additional assignments at the 500-level.

Prerequisites:  
None

Cross Listed Courses:  
None

Credits:  
3

Course Type:  
Lecture (Regularly scheduled academic course) (LEC)

Grading Basis:  
A-D(+/-)/FI

Is this course part of the University Honors Program?  
No

Are you proposing this course for KU Core?  
Yes

Typically Offered:  
Every Two Years

Repeatable for credit?  
No

Principal Course Designator:  
HL NW - Literature & the Arts  
Non-Western Culture

NW - Non-Western Culture

Course Designator:  
H - Humanities  
W - World Culture

Are you proposing that the course count towards the CLAS BA degree specific requirements?  
Yes

Will this course be required for a degree, major, minor, certificate, or concentration?  
Yes

Which Program(s)?  
Program Code - Name
(EALC-BA) East Asian Languages and Cultures, B.A.

Describe how:
For the Chinese Language and Literature and the East Asian Studies with Chinese language concentrations this course fulfills the requirement for a course in premodern Chinese literature, culture or language.

Describe how:
For the East Asian Studies with Japanese and the East Asian Studies with Korean concentrations, this course fulfills the requirement for a course on China.

Describe how:
For the double language concentration, if Chinese is one of the languages chosen, this course fulfill the requirement for a course on pre-modern China.

Rationale for Course Proposal
The old title was cumbersome. The new title is both accurate and succinct.

KU Core Information

Has the department approved the nomination of this course to KU Core?
Yes

Name of person giving departmental approval
Maggie Childs

Date of Departmental Approval
January 27, 2017

Selected Goal(s)
Do all instructors of this course agree to include content that enables students to meet KU Core learning outcome(s)?
Yes

Do all instructors of this course agree to develop and save direct evidence that students have met the learning outcomes(s)?
Yes

Provide an abstract (1000 characters maximum) that summarizes how this course meets the learning outcome.
Already approved for KU Core goal 4.2.

Selected Learning Outcome(s):

Goal 4, Learning Outcome 2
State what assignments, readings, class discussions, and lectures will devote a majority of your course or educational experience to raising student awareness of, engagement with, and analysis of various elements of other-cultural understanding of communities outside the United States. (Please limit responses to 1000 characters.)
Already approved for KU Core goal 4.2.

Explain how your course or educational experience will develop the ability of students to discuss, debate, and analyze non-US cultures in relation to the students own value assumptions. (Please limit responses to 1000 characters.)
Already approved for KU Core, goal 4.2.

Detail how your course or educational experience will sensitize students to various cultural beliefs, behaviors, and practices through other-cultural readings and academic research on cultural competency so that students may be better prepared to negotiate cross-cultural situations. (Please limit responses to 1000 characters.)
Already approved for KU Core, goal 4.2.

State what assignments, readings, class discussion, and lectures will be used to evaluate students’ work that documents and measures their grasp of global cultures and value systems through reflective written or oral analysis. (Please limit responses to 1000 characters.)
Already approved for KU Core, goal 4.2.

KU Core Documents

Course Reviewer
Comments

Key: 3363
Course Inventory Change Request

Viewing: EALC 530: China's Cultural Legacy

Chinese Literature and Culture: Premodern Times

Last edit: 02/02/17 4:27 pm

Changes proposed by: mgchilds

Catalog Pages referencing this course

College of Liberal Arts & Sciences
Department of East Asian Languages and Cultures

Programs

EALC-BA: East Asian Languages and Cultures, B.A.

Academic Career: Undergraduate, Lawrence

Subject Code: EALC

Course Number: 530

Academic Unit: Department of East Asian Languages and Cultures (EALC)
School/College: College of Liberal Arts & Sciences

Do you intend to offer any portion of this course online?

No

Title: China's Cultural Legacy

Transcript Title: Chinese Literature and Culture: Premodern Times

Effective Term: Fall 2017

Catalog Description: An examination of Chinese literature and culture from earliest times to the modern period. This course is taught at the 300 and 500 levels with additional assignments at the 500-level.

Prerequisites: An introductory East Asian studies course, such as ECIV 104 or ECIV 304 or EALC 105; or consent of the instructor. Not open to students with credit in EALC 330.

Cross Listed Courses:

Credits: 3

Course Type: Lecture (Regularly scheduled academic course) (LEC)

Grading Basis: A-D(+/-)FI

Is this course part of the University Honors Program?: No

Are you proposing this course for KU Core?: Yes

Typically Offered: Every Two Years

Repeatable for credit?: No

Principal Course Designator: NW - Non-Western Culture

Course Designator: H - Humanities

W - World Culture

Are you proposing that the course count towards the CLAS BA degree specific requirements?: No

Will this course be required for a degree, major, minor, certificate, or concentration?: Yes

Which Program(s)?

Program Code - Name

(EALC-BA) East Asian Languages and Cultures, B.A.
Rationale for Course Proposal
The old title was cumbersome. This is more concise and more appealing.

KU Core Information
Has the department approved the nomination of this course to KU Core?
Yes

<table>
<thead>
<tr>
<th>Name of person giving departmental approval</th>
<th>Date of Departmental Approval</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maggie Childs</td>
<td>1.27.17</td>
</tr>
</tbody>
</table>

Selected Goal(s)

- Do all instructors of this course agree to include content that enables students to meet KU Core learning outcome(s)?
  Yes
- Do all instructors of this course agree to develop and save direct evidence that students have met the learning outcomes(s)?
  Yes

Provide an abstract (1000 characters maximum) that summarizes how this course meets the learning outcome.

  Already approved for KU Core goal, 4.2.

Selected Learning Outcome(s):

Goal 4, Learning Outcome 2
State what assignments, readings, class discussions, and lectures will devote a majority of your course or educational experience to raising student awareness of, engagement with, and analysis of various elements of other-cultural understanding of communities outside the United States. (Please limit responses to 1000 characters.)

  Already approved for KU Core, goal 4.2.

Explain how your course or educational experience will develop the ability of students to discuss, debate, and analyze non-US cultures in relation to the students own value assumptions. (Please limit responses to 1000 characters.)

  Already approved for KU Core, goal 4.2.

Detail how your course or educational experience will sensitize students to various cultural beliefs, behaviors, and practices through other-cultural readings and academic research on cultural competency so that students may be better prepared to negotiate cross-cultural situations. (Please limit responses to 1000 characters.)

  Already approved for KU Core, goal 4.2.

State what assignments, readings, class discussion, and lectures will be used to evaluate students’ work that documents and measures their grasp of global cultures and value systems through reflective written or oral analysis. (Please limit responses to 1000 characters.)

  Already approved for KU Core, goal 4.2.
IPS 101: Elements of the Theory of Computation

An introduction to the theoretical areas of computer science and their applications. Emphasis will be placed on the methods and standards by which computer science makes judgments and on what computers can and cannot accomplish. Among major topics covered are: how to read and to implement algorithms; what is memory and how much of it is required for various tasks; why computers cannot multiply; how finite-state machines compute; applications of finite-state machines to programming; recognizing languages; formal grammars. "Can machines think?" and other contemporary topics in the philosophy of computer science will be covered as time permits.

Prerequisites: MATH 101 or MATH 104.

Typically Offered: No
Repeatable for credit: No

Are you proposing this course for KU Core? No
Will this course be required for a degree, major, minor, certificate, or concentration?

Rationale for Course Proposal
Justification for this request: Information Processing no longer exists
IPS 302: Journey Through Genius, Honors

The course explores some of the most significant and enduring ideas in mathematics: the great theorems, discoveries of beauty and insight that stand today as monuments to the human intellect. Emphasis will be placed on the methods and standards by which mathematics makes judgments. Among the major topics covered are: Euclid and the infinitude of primes, Archimedes determination of circular area, Cardano and the solution of the cubic, the Bernoullis and the harmonic series, a sample of Euler's number theory, Cantor and the transfinite realm. Along with the essential mathematics, the humanity of these great mathematicians is captured.

Prerequisites: Membership in the University Honors Program, high school algebra and geometry, and permission of the instructor.

Cross Listed Courses:

Are you proposing this course for KU Core? No

Typically Offered

Repeatable for credit? No

Principal Course Designator

Course Designator N - Natural Sciences

Are you proposing that the course count towards the CLAS BA degree specific requirements?

Will this course be required for a degree, major, minor, certificate, or concentration?

Rationale for Course Proposal

Justification for this request Information Processing no longer exists

Course Reviewer Comments
Course Inventory Change Request

Course Deactivation Proposal

Date Submitted: 01/20/17 5:04 pm

Viewing: IPS 400 : Topics in the Theory of Computing

Last edit: 01/20/17 5:04 pm

Changes proposed by: rschwien

Academic Career: Undergraduate, Lawrence
Subject Code: IPS
Course Number: 400
Academic Unit: Department of Information Processing Studies (IPS)
School/College: College of Liberal Arts & Sciences
Title: Topics in the Theory of Computing
Transcript Title: Topics in the Theory of Computing
Last Term Offered: Spring 2017

Catalog Description:
This course is designed to allow students to do further readings in the theory of computing beyond the material presented in IPS 101. Topics, scope, and meeting times to be arranged for the individual student.

Prerequisites: IPS 101 and consent of instructor.

Cross Listed Courses:

Credits: 1-3
Course Type: Lecture (Regularly scheduled academic course) (LEC)
Grading Basis: A-D(+/-)FI
Is this course part of the University Honors Program?: No
Are you proposing this course for KU Core?: No
Typically Offered: No
Repeatable for credit?: No

Principal Course Designator

Course Designator

Are you proposing that the course count towards the CLAS BA degree specific requirements?

Will this course be required for a degree, major, minor, certificate, or concentration?

Rationale for Course Proposal

Justification for this request:
Information Processing no longer exists

Course Reviewer Comments
Program Change Request

Date Submitted: 01/30/17 2:19 pm

Viewing: PSYC-BS : Behavioral Neuroscience, B.S.

Last approved: 03/31/16 12:26 pm
Last edit: 01/30/17 2:19 pm
Changes proposed by: s364h085

Catalog Pages
Using this Program

Bachelor of Science in Behavioral Neuroscience

In Workflow
A. CLAS
   Undergraduate Program and Course Coordinator
B. CUSA Subcommittee
C. CUSA Committee
D. CAC
E. CLAS Final Approval
F. Future Academic Catalog

Approval Path
A. 01/30/17 2:57 pm
   Rachel Schwien (rschwien):
   Approved for CLAS Undergraduate Program and Course Coordinator
B. 02/07/17 1:54 pm
   Rachel Schwien (rschwien):
   Approved for CUSA Subcommittee

History
A. Mar 30, 2016 by Kim O'Bryon (kobryon)
B. Mar 31, 2016 by Kim O'Bryon (kobryon)

Academic Career
Undergraduate, Lawrence

Program Type
Degree/Major

Department/Program
Psychology (PSYC)

School/College
College of Lib Arts & Sciences

Degree Code
Bachelor of Science - BS

Consulting School(s)/College(s)

Consulting Department(s)

CIP Code
420101

Program Name
Behavioral Neuroscience, B.S.

Do you intend to offer a track(s)?

Do you intend for this program to be offered online?
   No

Effective Catalog
2017 - 2018

Program Description

Degree Requirements

Requirements for the B.S. Degree

B.S. in Behavioral Neuroscience

Humanities (24 hrs.)
Written Communication - Core Skill and Critical Inquiry
Composition (0)
Satisfied by one of the following. Requirement must be completed during initial term of admission at KU.
- ENGL 101 Composition
- ACT English score of 27 or above or SAT English score of 600 or above
- AP English Literature & Composition score of 3 or above
- Equivalent transfer course

Critical Reading and Writing (0)
Satisfied by one of the following. Requirement must be completed within the first academic year at KU.
- ENGL 102 Critical Reading and Writing
- ENGL 105 Freshman Honors English
- AP English Literature & Composition score of 4 or above
- Equivalent transfer course

Sophomore Reading and Writing II (0)
Satisfied by one of the following:
- ENGL 203 Topics in Reading and Writing: ______
- ENGL 205 Freshman-Sophomore Honors Proseminar: ______
- ENGL 210 Introduction to Fiction
- ENGL 211 Introduction to the Drama
- AP English Literature & Composition score of 5 or above
- Equivalent transfer course

Argument and Reason
Satisfied by one of the following: 3
- COMS 130 Speaker-Audience Communication
- PHIL 148 Reason and Argument

Western Civilization - Exploration of One’s Own and Diverse Cultures
Advising Alert: Requires sophomore-level standing. Courses at other universities may have the same title but may not meet this requirement.
Satisfied by:
- HUM 204 Western Civilization I 3
or HUM 205 Western Civilization II 3
or HUM 115 Western Civilization II Honors

Humanities - Understanding the Human Condition
Satisfied by completing 2 courses (6 hrs.) in any of the following categories: historical studies (requirement code HT), literature and the arts (requirement code HL), philosophy and religion (requirement code HR) and humanities (requirement code H). Approved courses may be searched for availability through the Kyou portal.

Natural Science (14 hrs. minimum)
Satisfied by completing 2 of the following 4 sequences AND an extension of 1 sequence (1 additional advanced course), or an approved alternative (14 hrs. 14 minimum).
- Biology:
  - BIOL 150 Principles of Molecular and Cellular Biology
  & BIOL 152 and Principles of Organismal Biology
- Chemistry:
  - CHEM 130 General Chemistry I
  & CHEM 135 and General Chemistry II
- Physics:
  - PHSX 114 College Physics I
  & PHSX 115 and College Physics II
- Biological Anthropology:
  - ANTH 104 Fundamentals of Physical Anthropology
  or ANTH 345 Introduction to Human Evolutionary Biology
  - ANTH 340 Human Variation and Evolution
  or ANTH 341 Human Evolution
  - ANTH 342 Human Adaptation
  or ANTH 442 Anthropological Genetics
  - ANTH 447 Human Behavioral Genetics

Mathematics (14 hrs. minimum)
Satisfied by completing a total of 4 mathematics courses totaling at least 14 hours, of which at least 6 hours must be calculus or calculus based. The 8 hours 14 of calculus can be satisfied by taking at least one calculus I course (MATH 115 or 125) and one calculus II course (MATH 116 or 126). The remaining four to six hours of mathematics can be satisfied by taking a minimum of two additional math courses at any level (excluding MATH 002).

Computing (6 hrs. minimum)
Satisfied by:
- EECS 138 Introduction to Computing: _____

An additional course
The second 3 hours could either be a second semester of EECS 138 (focused on a second programming language) or be from an additional approved course that provides an opportunity to gain computing experience. This second course could be PSYC 480 or PSYC 481 if this Independent Study requires independent, original application of the student’s computing skills such as computer simulation of cognitive processes, or experience with computationally complex neuroscience techniques, such as brain imaging and mapping, or physiological data collection and analysis. (3)

Behavioral Neuroscience Major Course Requirements

Behavioral Neuroscience Prerequisite or Co-Requisite Knowledge (10)

Majors must complete courses as specified in each of the following areas. These hours do not contribute to the minimum number of hours required for the major.

Orientation Seminar in Psychology. Satisfied by:

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 102</td>
<td>Orientation Seminar in Psychology</td>
</tr>
</tbody>
</table>

General Psychology. Satisfied by:

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 104</td>
<td>General Psychology</td>
</tr>
<tr>
<td>or PSYC 105</td>
<td>General Psychology, Honors</td>
</tr>
</tbody>
</table>

College Algebra or Pre-Calculus. Satisfied by:

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 101</td>
<td>College Algebra (or equivalent)</td>
</tr>
<tr>
<td>or MATH 104</td>
<td>Precalculus Mathematics</td>
</tr>
</tbody>
</table>

Introductory Biology Course. Satisfied by

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 100</td>
<td>Principles of Biology</td>
</tr>
<tr>
<td>or BIOL 150</td>
<td>Principles of Molecular and Cellular Biology</td>
</tr>
</tbody>
</table>

Behavioral Neuroscience Core Knowledge and Skills (28)

Majors must complete coursework in each of the following 4 areas:

Behavioral Neuroscience Courses (6 hours minimum). Satisfied by one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 370</td>
<td>Behavioral Neuroscience</td>
</tr>
<tr>
<td>or PSYC 371</td>
<td>Behavior Neuroscience, Honors</td>
</tr>
<tr>
<td>PSYC 375</td>
<td>Cognitive Neuroscience</td>
</tr>
<tr>
<td>PSYC 380</td>
<td>Clinical Neuroscience</td>
</tr>
<tr>
<td>or PSYC 381</td>
<td>Clinical Neuroscience, Honors</td>
</tr>
</tbody>
</table>

Laboratory Courses (9 hours minimum). Satisfied by the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 200</td>
<td>Research Methods in Psychology</td>
</tr>
<tr>
<td>or PSYC 201</td>
<td>Research Methods in Psychology, Honors</td>
</tr>
<tr>
<td>PSYC 625</td>
<td>Experimental Psychology: Methods in Psychophysiology and Neuroscience</td>
</tr>
</tbody>
</table>

Quantitative Courses (9 hours minimum). Satisfied by one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 210</td>
<td>Statistics in Psychological Research</td>
</tr>
<tr>
<td>or PSYC 211</td>
<td>Statistics in Psychological Research, Honors</td>
</tr>
<tr>
<td>PSYC 500</td>
<td>Intermediate Statistics in Psychological Research</td>
</tr>
<tr>
<td>PSYC 650</td>
<td>Statistical Methods in Behavioral and Social Science Research I</td>
</tr>
<tr>
<td>PSYC 651</td>
<td>Anova and Other Factorial Designs</td>
</tr>
<tr>
<td>PSYC 679</td>
<td>Applied Nonparametric Statistical Methods</td>
</tr>
<tr>
<td>PSYC 687</td>
<td>Factor Analysis</td>
</tr>
<tr>
<td>PSYC 692</td>
<td>Test Theory</td>
</tr>
<tr>
<td>PSYC 693</td>
<td>Multivariate Analysis</td>
</tr>
<tr>
<td>PSYC 694</td>
<td>Multilevel Modeling I</td>
</tr>
<tr>
<td>PSYC 695</td>
<td>Categorical Data Analysis</td>
</tr>
<tr>
<td>PSYC 696</td>
<td>Structural Equation Modeling I</td>
</tr>
</tbody>
</table>

Applied Research Experience (4 hours minimum). Satisfied by one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 449</td>
<td>Laboratory/Field Work in Human Biology</td>
</tr>
<tr>
<td>PSYC 450</td>
<td>Honors in Psychology</td>
</tr>
<tr>
<td>PSYC 480</td>
<td>Independent Study</td>
</tr>
<tr>
<td>PSYC 481</td>
<td>Research Practicum</td>
</tr>
</tbody>
</table>

Elective Courses in Psychology or Other Disciplines (12)

Majors must complete 12 hours minimum (other electives may be accepted with permission of the B.S. director) Satisfied by:

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 418</td>
<td>Introduction to Cognitive Science</td>
</tr>
<tr>
<td>or PSYC 318</td>
<td>Cognitive Psychology</td>
</tr>
<tr>
<td>PSYC 432</td>
<td>Human Behavioral Genetics</td>
</tr>
<tr>
<td>PSYC 482</td>
<td>Sensation and Perception</td>
</tr>
<tr>
<td>PSYC 535</td>
<td>Developmental Psychopathology</td>
</tr>
<tr>
<td>PSYC 555</td>
<td>Evolutionary Psychology</td>
</tr>
<tr>
<td>PSYC 605</td>
<td>Health Psychology</td>
</tr>
<tr>
<td>PSYC 630</td>
<td>Clinical Psychology</td>
</tr>
<tr>
<td>PSYC 644</td>
<td>Behavioral Pharmacology</td>
</tr>
<tr>
<td>PSYC 646</td>
<td>Mental Health and Aging</td>
</tr>
<tr>
<td>PSYC 678</td>
<td>Drugs and Behavior</td>
</tr>
</tbody>
</table>
Behavioral Neuroscience Major Hours & GPA

While completing all required courses, majors must also meet each of the following hour and grade-point average minimum standards:

**Major Hours**
Satisfied by 40 hours of major courses.

**Major Hours in Residence**
Satisfied by a minimum of 15 hours of KU resident credit in the major.

**Major Junior/Senior Hours**
Satisfied by 28 hours of junior/senior level major coursework.

**Major Junior/Senior (300+) Graduation GPA**
Satisfied by a minimum of a 2.0 KU GPA in junior/senior courses (300+) in the major. GPA calculations include all junior/senior courses in the field of study including F's and repeated courses. See the Semester/Cumulative GPA Calculator.

Please remove from the requirements for Natural Science classes ANTH304 as an option. This class does not exist any longer and it has been replaced by ANTH345 (Introduction to Human Evolutionary Biology). Please add ANTH345 (Introduction to Human Evolutionary Biology) as a listed option instead of ANTH304. Students can take either ANTH104 or ANTH345.
**Program Change Request**

**Date Submitted:** 01/05/17 9:35 am

**Viewing:** CHEM-MIN : Chemistry, Minor

**Last approved:** 02/13/16 2:55 pm

**Last edit:** 01/25/17 4:25 pm

Changes proposed by: dgarens

<table>
<thead>
<tr>
<th>Catalog Pages Using this Program</th>
<th>Minor in Chemistry</th>
</tr>
</thead>
</table>

**Academic Career:** Undergraduate, Lawrence

**Program Type:** Minor

**Department/Program:** Chemistry (CHEM)

**School/College:** College of Lib Arts & Sciences

**Consulting School(s)/College(s):**

**Consulting Department(s):**

**Program Name:** Chemistry, Minor

**Do you intend to offer a track(s)?**

- No

**Do you intend for this program to be offered online?**

- No

**Effective Catalog:** 2017 2016 – 2018 2017

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**Program Description**

**Requirements for the Minor**

The minor allows students outside the department to obtain a strong, distributed background in the discipline. It is particularly useful for students anticipating careers in medicine, health professions, biological sciences, environmental sciences, chemical engineering, business, law, secondary education, or any career in which a basic understanding of the molecular sciences is helpful. A total of 23 credit hours is required, including 13 hours of upper-division work and at least 2 upper-division laboratories. Students should see a chemistry department advisor early in the junior year.

**Chemistry Minor Course Requirements**

Students selecting this minor must complete the following:

- Calculus I, Satisfied by one of the following:
Mathematics and Physics (14-21)

Mathematics: (choose one of the following (MATH 115 & MATH 116 recommended)) 6-12

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 115 &amp; MATH 116</td>
<td>Calculus I and Calculus II</td>
</tr>
</tbody>
</table>

Calculus II. Satisfied by one of the following: 3-4

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 116</td>
<td>Calculus II</td>
</tr>
<tr>
<td>or MATH 126 &amp; MATH 146</td>
<td>Calculus II, Honors</td>
</tr>
</tbody>
</table>

General or College Physics I. Satisfied by one of the following: 4-5

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 125</td>
<td>Calculus I</td>
</tr>
<tr>
<td>&amp; MATH 126</td>
<td>Calculus II</td>
</tr>
<tr>
<td>&amp; MATH 127</td>
<td>Calculus III</td>
</tr>
</tbody>
</table>

Physics: (Choose one of the following (PHSX 114 & PHSX 115 recommended)) 8-9

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHSX 114 &amp; PHSX 115</td>
<td>College Physics I and College Physics II</td>
</tr>
<tr>
<td>PHSX 211</td>
<td>General Physics I</td>
</tr>
<tr>
<td>&amp; PHSX 216 &amp; PHSX 212 &amp; PHSX 236</td>
<td>General Physics I Laboratory and General Physics II and General Physics II Laboratory</td>
</tr>
<tr>
<td>PHSX 213</td>
<td>General Physics II, Honors</td>
</tr>
</tbody>
</table>

General or College Physics II. Satisfied by one of the following: 4

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHSX 115</td>
<td>College Physics II</td>
</tr>
<tr>
<td>PHSX 212</td>
<td>General Physics II</td>
</tr>
<tr>
<td>&amp; PHSX 236</td>
<td>General Physics II Laboratory</td>
</tr>
<tr>
<td>PHSX 214</td>
<td>General Physics II, Honors</td>
</tr>
</tbody>
</table>

Chemistry Courses (15)

Chemistry for the Chemical Sciences I. Satisfied by one of the following: 5

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 170</td>
<td>Chemistry for the Chemical Sciences I</td>
</tr>
<tr>
<td>CHEM 130</td>
<td>General Chemistry I</td>
</tr>
<tr>
<td>CHEM 190</td>
<td>Foundations of Chemistry I, Honors</td>
</tr>
</tbody>
</table>

Chemistry for the Chemical Sciences II. Satisfied by one of the following: 5

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 175</td>
<td>Chemistry for the Chemical Sciences II</td>
</tr>
<tr>
<td>CHEM 135</td>
<td>General Chemistry II</td>
</tr>
<tr>
<td>CHEM 195</td>
<td>Foundations of Chemistry II, Honors</td>
</tr>
</tbody>
</table>

Organic Chemistry I. Satisfied by one of the following: 3

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 310</td>
<td>Fundamentals of Organic Chemistry</td>
</tr>
<tr>
<td>CHEM 330</td>
<td>Organic Chemistry I</td>
</tr>
<tr>
<td>CHEM 380</td>
<td>Organic Chemistry I, Honors</td>
</tr>
</tbody>
</table>

Organic Chemistry Lab I. Satisfied by: 2

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 331</td>
<td>Organic Chemistry I Laboratory</td>
</tr>
</tbody>
</table>

Chemistry Required Elective Group I (5)

Students selecting this minor must complete one of the following:

Analytical Chemistry Lecture and Laboratory. Satisfied by:

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 620</td>
<td>Analytical Chemistry</td>
</tr>
<tr>
<td>&amp; CHEM 621</td>
<td>Analytical Chemistry Laboratory</td>
</tr>
</tbody>
</table>

Biological Physical Chemistry Lecture and Laboratory. Satisfied by:

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 520</td>
<td>Biological Physical Chemistry with Laboratory</td>
</tr>
</tbody>
</table>

Chemistry Required Elective Group II (3-4)

Students selecting this minor must complete one of the following:

Biological Physical Chemistry. Satisfied by:

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 510</td>
<td>Biological Physical Chemistry</td>
</tr>
</tbody>
</table>

Physical Chemistry I. Satisfied by:

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 530</td>
<td>Physical Chemistry I</td>
</tr>
</tbody>
</table>

Systematic Inorganic Chemistry. Satisfied by:

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 660</td>
<td>Systematic Inorganic Chemistry</td>
</tr>
</tbody>
</table>

*Students who elect to take CHEM 520 from Option Group 1 cannot take CHEM 510 or CHEM 530 from Option Group 2.

Minor Hours & Minor GPA

While completing all required courses, minors must also meet each of the following hour and GPA minimum standards:

Minor Hours

Satisfied by 23-24 hours of minor courses.

Minor Hours in Residence

Satisfied by a minimum of 9 hours of KU resident credit in the minor.
Minor Junior/Senior Hours
Satisfied by a minimum of 13 hours from junior/senior courses (300+) in the minor.

Minor Junior/Senior Graduation GPA
Satisfied by a minimum of a 2.0 KU GPA in all departmental courses (300+) in the minor. GPA calculations include all junior/senior courses in the field of study including F's and repeated courses. See the Semester/Cumulative GPA Calculator.

<table>
<thead>
<tr>
<th>Rationale for proposal</th>
<th>Change of course numbers for Biological Physical Chemistry from CHEM 510 to CHEM 520.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Removal of CHEM 530 in Group I due to additional course requirement of CHEM 535 and CHEM 537.</td>
</tr>
<tr>
<td></td>
<td>Removal of CHEM 310 due to course not being offered for this SY.</td>
</tr>
<tr>
<td>Additional Information</td>
<td>Any student that has taken CHEM 530+535+537 will be allowed those courses and a minor substitution will be filled out.</td>
</tr>
<tr>
<td>Supporting Documents</td>
<td>Deanne Arensberg (dgarens) (11/30/16 2:28 pm): The MATH requirements should read the same as the BA. The P. CHEM also needs to read the same as the BA.</td>
</tr>
<tr>
<td></td>
<td>Rachel Schwien (rschwien) (01/03/17 9:57 am): Rollback: per request for further edits</td>
</tr>
<tr>
<td>Program Reviewer</td>
<td>Rachel Schwien (rschwien) (01/05/17 9:05 am): Rollback: per request for further edits</td>
</tr>
<tr>
<td>Comments</td>
<td>Rachel Schwien (rschwien) (01/06/17 1:05 pm): emailed dept regarding discrepancy in rational vs proposal</td>
</tr>
<tr>
<td></td>
<td>Rachel Schwien (rschwien) (01/23/17 12:04 pm): followed up with dept 1/23</td>
</tr>
</tbody>
</table>