

CURRICULUM CHANGE PROPOSAL

APPROVAL PAGE

Proposal Title: Proposed changes to the catalog course inventory to correct errors and outdated course information.

College: Science

Department: Chemistry & Biochemistry

DEPARTMENT CHAIR

I have read the enclosed proposal and approve this proposal on behalf of the department.

Richard A. Bernal

12-18-19

Signature

Date

COLLEGE CURRICULUM COMMITTEE CHAIR

I have read the enclosed documents and approve the proposal on behalf of the college curriculum committee.

H. Marcus

1/26/20

Signature

Date

COLLEGE DEAN

I have read the enclosed documents and approve the proposal on behalf of the college. I certify that the necessary funds will be allocated by the college in support of this proposal.

H. Marcus

1/26/20

Signature

Date

Proposed Changes to the catalog to correct errors

The proposal is simply to correct areas of the catalog that were incorrect or inconsistent.

COURSE CHANGE FORM

All fields below are required

College : Science

Department : Chemistry

Rationale for changing the course:

Remove unintended errors in the catalog

All fields below are required

Subject Prefix and number CHEM 1105

Course Title General Chemistry I Laboratory

[illegible]

COURSE CHANGE FORM

All fields below are required

College : Science

Department : Chemistry

Rationale for changing the course:

Remove unintended errors in the catalog

All fields below are required

Subject Prefix and number CHEM 1106

Course Title General Chemistry II Laboratory

[illegible]

COURSE CHANGE FORM

All fields below are required

College : Science

Department : Chemistry

Rationale for changing the course:

Remove unintended errors in the catalog

All fields below are required

Subject Prefix and number CHEM 1107

Course Title Intro General Chemistry Laboratory

[illegible]

COURSE CHANGE FORM

All fields below are required

College : Science

Department : Chemistry

Rationale for changing the course:

Remove unintended errors in the catalog

All fields below are required

Subject Prefix and number CHEM 1108

Course Title Intro to Organic & Biochem Laboratory

[illegible]

COURSE CHANGE FORM

All fields below are required

College : Science

Department : Chemistry

Rationale for changing the course:

Remove unintended errors in the catalog

All fields below are required

Subject Prefix and number 1305

Course Title General Chemistry I

Change	From	To
Ex. Prerequisite	Ex. POLS 2310	Ex. POLS 2312
Remove prerequisite CHEM 1105 w/C or better	Prerequisite CHEM 1105 w/C or better	Corequisite CHEM 1105 w/C or better
Add title to description	(Common Course Number CHEM 1311) Descriptive and quantitative aspects of chemistry suitable for students intending a degree in science or engineering; Includes fundamental concepts underlying the discipline, atomic structure, stoichiometry, chemical reactions, thermochemistry, chemical bonding and molecular structure.	General Chemistry I: (Common Course Number CHEM 1311) Descriptive and quantitative aspects of chemistry suitable for students intending a degree in science or engineering; Includes fundamental concepts underlying the discipline, atomic structure, stoichiometry, chemical reactions, thermochemistry, chemical bonding and molecular structure.
Change Total Contact Hours and Lecture Hours	3 Credit Hours 4 Total Contact Hours 2 Lab Hours 2 Lecture Hours 0 Other Hours	3 Credit Hours 5 Total Contact Hours 2 Lab Hours 3 Lecture Hours 0 Other Hours
Remove prerequisites	(CHEM 1105 w/C or better) AND (MATH 1508 w/C or better) OR (MATH 1411 w/C or better) OR (MATH 1312 w/C or better) OR (MATH 2313 w/C or better) OR (MATH 2326 w/C or better) OR (A02 score between 26 and 36)	(CHEM 1105 w/C or better) AND (MATH 1508 w/C or better) OR (MATH 1411 w/C or better) OR (MATH 1312 w/C or better) OR (MATH 2313 w/C or better) OR (MATH 2326 w/C or better) OR (A02 score between 26 and 36)

[illegible]

COURSE CHANGE FORM

All fields below are required

College : Science

Department : Chemistry

Rationale for changing the course:

Remove unintended errors in the catalog

All fields below are required

Subject Prefix and number CHEM 1306

Course Title General Chemistry II

Change	From	To
Ex. Prerequisite	Ex. POLS 2310	Ex. POLS 2312
Remove prerequisite CHEM 1106 w/C or better	Prerequisite CHEM 1106 w/C or better	Corequisite CHEM 1106 w/C or better
Add title to description	(Common Course Number CHEM 1312) A continuation of CHEM 1305; Includes intermolecular forces, quantitative aspects of chemical kinetics, equilibrium, acids and bases, thermodynamics, and electrochemistry.	General Chemistry II: (Common Course Number CHEM 1312) A continuation of CHEM 1305; Includes intermolecular forces, quantitative aspects of chemical kinetics, equilibrium, acids and bases, thermodynamics, and electrochemistry.
Change Total Contact Hours and Lecture Hours	3 Credit Hours 4 Total Contact Hours 2 Lab Hours 2 Lecture Hours 0 Other Hours	3 Credit Hours 5 Total Contact Hours 2 Lab Hours 3 Lecture Hours 0 Other Hours

COURSE CHANGE FORM

All fields below are required

College : Science

Department : Chemistry

Rationale for changing the course:

Remove unintended errors in the catalog

All fields below are required

Subject Prefix and number CHEM 1307

Course Title Intro to General Chemistry

[illegible]

COURSE CHANGE FORM

All fields below are required

College : 5Science

Department : Chemistry

Rationale for changing the course:
Remove unintended errors in the catalog

All fields below are required

Subject Prefix and number CHEM 2124

Course Title Lab for Organic Chemistry 2324

Change	From	To
Ex. Prerequisite	Ex. POLS 2310	Ex. POLS 2312
Edit Description	Laboratory for Organic Chemistry 2324 (0-3) Many not be counted in addition to CHEM 3221. The Chemistry Department offers a Departmental Examination to award upper division credit for CHEM 3321 and CHEM 3322 (the current majors' organic chemistry lecture sequence) by successful performance on an examination covering the fundamental aspects of the two-semester organic chemistry sequence to students who have taken sophomore level organic lecture coursework at other institutions of higher education. Successful performance on this Examination by students transferring two semester hours of sophomore level organic laboratory will at the same time e	Laboratory for Organic Chemistry 2324 (0-3): May not be counted in addition to CHEM 2221. The Chemistry Department offers a Departmental Examination to award upper division credit for CHEM 2321 and CHEM 2322 (the current majors' organic chemistry lecture sequence) by successful performance on an examination covering the fundamental aspects of the two-semester organic chemistry sequence to students who have taken sophomore level organic lecture coursework at other institutions of higher education.
Edit Prerequisites	(CHEM 1306 w/D or better) OR (CHEM 2324 w/D or better) AND (CHEM 1106 w/D or better)	(CHEM 1306 w/C or better) AND (CHEM 1106 w/C or better)
add corequisite		CHEM 2324 w/C or better)

COURSE CHANGE FORM

All fields below are required

College : Science

Department : Chemistry

Rationale for changing the course:

Remove unintended errors in the catalog

All fields below are required

Subject Prefix and number CHEM 2125

Course Title Lab for Organic Chemsitry 2325

Change	From	To
Ex. Prerequisite	Ex. POLS 2310	Ex. POLS 2312
Edit description	Laboratory for Organic Chemistry (0-3) Many not be counted in addition to CHEM 3221. The Chemistry Department offers a Departmental Examination to award upper division credit for CHEM 3321 and CHEM 3322 (the current majors' organic chemistry lecture sequence) by successful performance on an examination covering the fundamental aspects of the two-semester organic chemistry sequence to students who have taken sophomore level organic lecture coursework at other institutions of higher education. Successful performance on this Examination by students transferring two semester hours of sophomore level organic laboratory will at the same time earn t	Laboratory for Organic Chemistry (0-3): May not be counted in addition to CHEM 2221. The Chemistry Department offers a Departmental Examination to award upper division credit for CHEM 2321 and CHEM 2322 (the current majors' organic chemistry lecture sequence) by successful performance on an examination covering the fundamental aspects of the two-semester organic chemistry sequence to students who have taken sophomore level organic lecture coursework at other institutions of higher education.
Prerequisite	Prerequisite (CHEM 2325 w/D or better) OR (CHEM 3324 w/C or better)	Prerequisite (CHEM 2324 w/C or better)
add corequisite		Corequisite (CHEM 2325 w/C or better)

COURSE CHANGE FORM

All fields below are required

College : Science

Department : Chemistry

Rationale for changing the course:

Remove unintended errors in the catalog

All fields below are required

Subject Prefix and number CHEM 2161

Course Title Periodic Table Laboratory for CHEM 2261

[illegible]

COURSE CHANGE FORM

All fields below are required

College : Science

Department : Chemistry

Rationale for changing the course:

Remove unintended errors in the catalog

All fields below are required

Subject Prefix and number CHEM 2221

Course Title Organic Chemistry I Lab.

[illegible]

COURSE CHANGE FORM

All fields below are required

College : Science

Department : Chemistry

Rationale for changing the course:
Remove unintended errors in the catalog

All fields below are required

Subject Prefix and number CHEM 2261

Course Title The Periodic Table

Change	From	To
Ex. Prerequisite	Ex. POLS 2310	Ex. POLS 2312
Edit description	The Periodic Table (2-0) A survey course that expounds the principles of periodicity in the descriptive chemistry of the elements. Among the areas covered will be the alkali earth metals, the carbon/silicon/germanium/tin and lead group, the chemistry of nitrogen, phosphorus, and the halogen. Where possible, pertinent technical applications of the elements, and materials derived from them, will be presented, e.g., medicinal, inorganic polymet, and semi-conductor applications.	The Periodic Table: A survey course that expounds the principles of periodicity in the descriptive chemistry of the elements. Among the areas covered will be the alkali earth metals, the carbon/silicon/germanium/tin and lead group, the chemistry of nitrogen, phosphorus, and the halogen. Where possible, pertinent technical applications of the elements, and materials derived from them, will be presented, e.g., medicinal, inorganic polymet, and semi-conductor applications.
Correct Total Contact and Lecture Hours	2 Credit Hours 2 Total Contact Hours 0 Lab Hours 2 Lecture Hours 0 Other Hours	2 Credit Hours 3 Total Contact Hours 0 Lab Hours 3 Lecture Hours 0 Other Hours
change in prereqs	chem 1306 and chem 1106	(CHEM 2221 w/C or better AND CHEM 2321 w/C or better) OR (CHEM 2224 w/C or better AND CHEM 2324 w/C or better)

COURSE CHANGE FORM

All fields below are required

College : Science

Department : Chemistry

Rationale for changing the course:

Remove unintended errors in the catalog

All fields below are required

Subject Prefix and number CHEM 2321

Course Title Organic Chemistry I

[illegible]

COURSE CHANGE FORM

All fields below are required

College : Science

Department : Chemistry

Rationale for changing the course:

Remove unintended errors in the catalog

All fields below are required

Subject Prefix and number CHEM 2322

Course Title Organic Chemistry II

[illegible]

COURSE CHANGE FORM

All fields below are required

College : Science

Department : Chemistry

Rationale for changing the course:
Remove unintended errors in the catalog

All fields below are required

Subject Prefix and number CHEM 2324

Course Title Organic Chemistry

Change	From	To
Ex. Prerequisite	Ex. POLS 2310	Ex. POLS 2312
Edit description	Organic Chemistry (3-0) A study of the fundamental types of carbon compounds. intended for students not requiring the detailed comprehensive courses specified for the BS degree in Chemistry. May not be counted in addition to CHEM 3321. The Chemistry Department offers a Departmental Examination to award upper division credit for CHEM 3321 and CHEM 3322 (the current majors' organic chemistry lecture sequence) by successful performance on an examination covering the fundamental aspects of the two-semester organic chemistry sequence to students who have taken sophomore level organic lecture coursework at other institutions of higher education. Su	Organic Chemistry: A study of the fundamental types of carbon compounds. intended for students not requiring the detailed comprehensive courses specified for the BS degree in Chemistry. May not be counted in addition to CHEM 2321. The Chemistry Department offers a Departmental Examination to award upper division credit for CHEM 2321 and CHEM 2322 (the current majors' organic chemistry lecture sequence) by successful performance on an examination covering the fundamental aspects of the two-semester organic chemistry sequence to students who have taken sophomore level organic lecture coursework at other institutions of higher education.
Correct Total, Lab and Lecture Hours	3 Credit Hours 4 Total Contact Hours 2 Lab Hours 2 Lecture Hours 0 Other Hours	3 Credit Hours 3 Total Contact Hours 0 Lab Hours 3 Lecture Hours 0 Other Hours

COURSE CHANGE FORM

All fields below are required

College : Science

Department : Chemistry

Rationale for changing the course:
Remove unintended errors in the catalog

All fields below are required

Subject Prefix and number CHEM 2325

Course Title Organic Chemistry

Change	From	To
Ex. Prerequisite	Ex. POLS 2310	Ex. POLS 2312
Edit description	Organic Chemistry (3-0) A continuation of CHEM 2324 with emphasis on organic compounds and their reactions to living systems. May not be counted in addition to CHEM 3322. The Chemistry department offers a Departmental Examination to award upper division credit for CHEM 3321 and CHEM 3322 (the current majors' organic chemistry lecture sequence) by successful performance on an examination covering the fundamental aspects of the two-semester organic chemistry sequence to students who have taken sophomore level organic lecture coursework at other institutions of higher education. Successful performance on this Examination by students transferring	Organic Chemistry: A continuation of CHEM 2324 with emphasis on organic compounds and their reactions to living systems. May not be counted in addition to CHEM 2322. The Chemistry department offers a Departmental Examination to award upper division credit for CHEM 2321 and CHEM 2322 (the current majors' organic chemistry lecture sequence) by successful performance on an examination covering the fundamental aspects of the two-semester organic chemistry sequence to students who have taken sophomore level organic lecture coursework at other institutions of higher education.
Remove CHEM 3324 and 3124 from prerequisites	(CHEM 2324 w/C or better) OR (CHEM 3324 w/C or better) AND (CHEM 2125 w/C or better) OR (CHEM 3124 w/C or better)	(CHEM 2324 w/C or better) AND (CHEM 2125 w/C or better)

COURSE CHANGE FORM

All fields below are required

College : Science

Department : Chemistry

Rationale for changing the course:

Remove unintended errors in the catalog

All fields below are required

Subject Prefix and number CHEM 3110

Course Title Lab for Chemistry 3310

[illegible]

COURSE CHANGE FORM

All fields below are required

College : Science

Department : Chemistry

Rationale for changing the course:

Remove unintended errors in the catalog

All fields below are required

Subject Prefix and number CHEM 3131

Course Title Lab for Chemistry

[illegible]

COURSE CHANGE FORM

All fields below are required

College : Science

Department : Chemistry

Rationale for changing the course:

Remove unintended errors in the catalog

All fields below are required

Subject Prefix and number CHEM 3151

Course Title Lab for Chemistry 3351

[illegible]

COURSE CHANGE FORM

All fields below are required

College : Science

Department : Chemistry

Rationale for changing the course:

Remove unintended errors in the catalog

All fields below are required

Subject Prefix and number CHEM 3152

Course Title Lab for Chemistry 3352

[illegible]

COURSE CHANGE FORM

All fields below are required

College : Science

Department : Chemistry

Rationale for changing the course:

Remove unintended errors in the catalog

All fields below are required

Subject Prefix and number CHEM 3310

Course Title Analytical Chemistry

[illegible]

COURSE CHANGE FORM

All fields below are required

College : Science

Department : Chemistry

Rationale for changing the course:

Remove unintended errors in the catalog

All fields below are required

Subject Prefix and number CHEM 3330

Course Title Biochem I: Struc & Function

[illegible]

COURSE CHANGE FORM

All fields below are required

College : Science

Department : Chemistry

Rationale for changing the course:

Remove unintended errors in the catalog

All fields below are required

Subject Prefix and number CHEM 3332

Course Title Biochem II: Dynam & Bioenerg.

[illegible]

COURSE CHANGE FORM

All fields below are required

College : Science

Department : Chemistry

Rationale for changing the course:

Remove unintended errors in the catalog

All fields below are required

Subject Prefix and number CHEM 3351

Course Title Physical Chemistry

[illegible]

COURSE CHANGE FORM

All fields below are required

College : Science

Department : Chemistry

Rationale for changing the course:

Remove unintended errors in the catalog

All fields below are required

Subject Prefix and number CHEM 3352

Course Title Physical Chemistry

[illegible]

COURSE CHANGE FORM

All fields below are required

College : Science

Department : Chemistry

Rationale for changing the course:

Remove unintended errors in the catalog

All fields below are required

Subject Prefix and number CHEM 4134

Course Title Structural Biochemistry Lab

[illegible]

COURSE CHANGE FORM

All fields below are required

College : Science

Department : Chemistry

Rationale for changing the course:

Remove unintended errors in the catalog

All fields below are required

Subject Prefix and number CHEM 4165

Course Title Inorganic Chemistry Lab

[illegible]

COURSE CHANGE FORM

All fields below are required

College : Science

Department : Chemistry

Rationale for changing the course:

Remove unintended errors in the catalog

All fields below are required

Subject Prefix and number CHEM 4211

Course Title Instrumental Meths Analyt Chem

Change	From	To
Ex. Prerequisite	Ex. POLS 2310	Ex. POLS 2312
Edit description	Instrumental Methods of Analytical Chemistry (2-0) A study of spectroscopic and electrical methods of chemical analysis.	Instrumental Methods of Analytical Chemistry: A study of spectroscopic and electrochemical methods of chemical analysis. This course is designed for Chemistry and Biochemistry majors..
Correct Total Contact Hours	2 Credit Hours 2 Total Contact Hours 0 Lab Hours 2 Lecture Hours 0 Other Hours	2 Credit Hours 3 Total Contact Hours 0 Lab Hours 3 Lecture Hours 0 Other Hours
Edit prerequisites	(CHEM 3322 w/D or better) OR (CHEM 2322 w/D or better) OR (CHEM 2325 w/D or better) AND (CHEM 3352 w/D or better) AND (CHEM 4212 w/D or better) AND (CHEM 3110 w/D or better AND CHEM 3310 w/D or better)	(CHEM 2322 w/C or better) OR (CHEM 2325 w/C or better) AND (CHEM 3352 w/C or better) AND (CHEM 3110 w/C or better AND CHEM 3310 w/C or better)

COURSE CHANGE FORM

All fields below are required

College : Science

Department : Chemistry

Rationale for changing the course:

Remove unintended errors in the catalog

All fields below are required

Subject Prefix and number CHEM 4212

Course Title Lab for Chemistry 4211

[illegible]

COURSE CHANGE FORM

All fields below are required

College : Science

Department : Chemistry

Rationale for changing the course:

Remove unintended errors in the catalog

All fields below are required

Subject Prefix and number CHEM 4328

Course Title Advanced Topics Organic Chem

[illegible]

COURSE CHANGE FORM

All fields below are required

College : Science

Department : Chemistry

Rationale for changing the course:
Remove unintended errors in the catalog

All fields below are required

Subject Prefix and number CHEM 4334

Course Title Structural Biochemistry

Change	From	To
Ex. Prerequisite	Ex. POLS 2310	Ex. POLS 2312
Add title to description	Examines bio-macromolecules from a structural point of view, focusing primarily on protein complexes. Includes interpretation of different levels of bimolecular structure (primary to tertiary), structure and function relationships and three dimensional structure determination techniques such as x-ray crystallography and cryo-electron microscopy.	Structural Biochemistry: Examines bio-macromolecules from a structural point of view, focusing primarily on protein complexes. Includes interpretation of different levels of bimolecular structure (primary to tertiary), structure and function relationships and three dimensional structure determination techniques such as x-ray crystallography and cryo-electron microscopy.
Delete CHEM 4330 from prerequisite	(CHEM 4330 w/C or better) OR (CHEM 3131 w/C or better AND CHEM 3330 w/C or better)	(CHEM 3131 w/C or better AND CHEM 3330 w/C or better)
Add corequisite		CHEM 4134

COURSE CHANGE FORM

All fields below are required

College : Science

Department : Chemistry

Rationale for changing the course:

Remove unintended errors in the catalog

All fields below are required

Subject Prefix and number CHEM 4335

Course Title Biophysical Chemistry

[illegible]

COURSE CHANGE FORM

All fields below are required

College : Science

Department : Chemistry

Rationale for changing the course:

Remove unintended errors in the catalog

All fields below are required

Subject Prefix and number CHEM 4362

Course Title Structure of Matter

[illegible]

COURSE CHANGE FORM

All fields below are required

College : Science

Department : Chemistry

Rationale for changing the course:

Remove unintended errors in the catalog

All fields below are required

Subject Prefix and number CHEM 4365

Course Title Inorganic Chemistry

[illegible]

COURSE CHANGE FORM

All fields below are required

College : Science

Department : Chemistry

Rationale for changing the course:

Remove unintended errors in the catalog

All fields below are required

Subject Prefix and number CHEM 4376

Course Title Introduction to Research

[illegible]