CHEM 220: SPECTROMETRIC IDENTIFICATION OF COMPOUNDS

In Workflow

1. CHEM Committee Chair (ghermanb@csus.edu)
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Approval Path

1. Mon, 30 Sep 2019 15:07:25 GMT
   Roy Dixon (rdixon): Rollback to Initiator
2. Mon, 30 Sep 2019 20:50:36 GMT
   Roy Dixon (rdixon): Rollback to Initiator
3. Wed, 02 Oct 2019 20:35:39 GMT
   Benjamin Gherman (ghermanb): Approved for CHEM Committee Chair
4. Fri, 04 Oct 2019 04:29:21 GMT
   Roy Dixon (rdixon): Approved for CHEM Chair
5. Mon, 21 Oct 2019 22:23:11 GMT
   Thomas Krabacher (tsk): Approved for NSM College Committee Chair
6. Wed, 23 Oct 2019 18:00:48 GMT
   Shannon Datwyler (datwyler): Approved for NSM Dean

Date Submitted:Wed, 02 Oct 2019 19:27:45 GMT

Viewing:CHEM 220 : Spectrometric Identification of Compounds

Last edit:Wed, 02 Oct 2019 19:27:44 GMT

Changes proposed by: Jacqueline Houston (204090644)

Contact(s):

Name (First Last)	Email	Phone 999-999-9999
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Catalog Title:

Spectrometric Identification of Compounds

Class Schedule Title:

Spectrometric Ident Compd

Academic Group: (College)

NSM - Natural Sciences & Mathematics

Academic Organization: (Department)

Chemistry

Will this course be offered through the College of Continuing Education (CCE)?

No

Catalog Year Effective:

Fall 2020 (2020/2021 Catalog)

Subject Area: (prefix)

CHEM - Chemistry

Catalog Number: (course number)
220

Course ID: (For administrative use only.)
108981

Units:
3

In what term(s) will this course typically be offered?
Fall term only

Does this course require a room for its final exam?
Yes, final exam requires a room

Does this course replace an existing experimental course?
No

This course complies with the credit hour policy:
Yes

Justification for course proposal:
Correction for term typically offered is being made for this course.
Currently indicated erroneously as Fall/Spring, and being corrected
to Fall only. No other changes made to the Form A.

Course Description: (Not to exceed 80 words and language should conform to catalog copy.)
Theory, interpretation, and application of ultraviolet, infrared, nuclear magnetic resonance and mass spectra for the elucidation of organic compounds.

Are one or more field trips required with this course?
No

Fee Course?
No

Is this course designated as Service Learning?
No

Does this course require safety training?
No

Does this course require personal protective equipment (PPE)?
No

Does this course have prerequisites?
No

Does this course have corequisites?
No

Graded:
Letter

Approval required for enrollment?
No Approval Required

Course Component(s) and Classification(s):
Seminar

Seminar Classification
CS#05 - Seminar (K-factor=1 WTU per unit)

Seminar Units

3

Is this a paired course?

No

Is this course crosslisted?

No

Can this course be repeated for credit?

No

Can the course be taken for credit more than once during the same term?

No

Description of the Expected Learning Outcomes: Describe outcomes using the following format: "Students will be able to: 1), 2), etc."

Students will be able to:
1. Understand the theory of ultraviolet spectroscopy, infrared spectroscopy, nuclear magnetic resonance spectroscopy and mass spectrometry.
2. Interpret ultraviolet, infrared, nuclear magnetic resonance, and mass spectra of organic compounds.
3. Apply principles of structural analysis to write a justification for assignment of organic structures.
4. Develop problem solving skills for structural analysis.

Assessment Strategies: A description of the assessment strategies (e.g., portfolios, examinations, performances, pre-and post-tests, conferences with students, student papers) which will be used by the instructor to determine the extent to which students have achieved the learning outcomes noted above.

Assessment strategies include:
1. Homework assignments (L.O.#1-#4)
2. Exams (L.O.#1-#4)
3. Final exam (L.O.#1-#4)
4. Oral presentation (L.O. #1-4)

Is this course required in a degree program (major, minor, graduate degree, certificate?)

Yes

Has a corresponding Program Change been submitted to Workflow?

No

Identify the program(s) in which this course is required:

Programs:
MS in Chemistry (Biochemistry)
MS in Chemistry

Does the proposed change or addition cause a significant increase in the use of College or University resources (lab room, computer)?

No

Will there be any departments affected by this proposed course?

No

I/we as the author(s) of this course proposal agree to provide a new or updated accessibility checklist to the Dean's office prior to the semester when this course is taught utilizing the changes proposed here.

I/we agree

University Learning Goals

Graduate (Masters) Learning Goals:

Critical thinking/analysis
Communication
Information literacy
Disciplinary knowledge

Is this course required as part of a teaching credential program, a single subject, or multiple subject waiver program (e.g., Liberal Studies, Biology) or other school personnel preparation program (e.g., School of Nursing)?
No

Is this a Graduate Writing Intensive (GWI) course?
No

Please attach any additional files not requested above:
Chem 220 Syllabus Fall 2019.pdf

Reviewer Comments:
Roy Dixon (rdixon) (Mon, 30 Sep 2019 15:07:25 GMT): Rollback: Request by Ben Gherman to make improvement in submission.
Roy Dixon (rdixon) (Mon, 30 Sep 2019 20:50:36 GMT): Rollback: Secondary fixes suggested by Committee Chair Ben Gherman

Key: 685