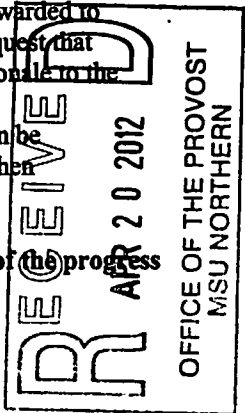


ACADEMIC SENATE PROPOSAL TRACKING SHEET

(Document To Be Originated By Academic Senate Secretary On Canary Color Paper)

All proposals MUST have their originating college faculty body (Ex. Arts & Sciences, Education and Nursing; Technical Sciences) approval and must be signed by the submitter and the college dean before being submitted to the Academic Senate Secretary.

1. Submit all proposals (using the appropriate Academic Senate program/degree and/or course revision forms) to the Academic Senate Secretary.
2. The Academic Senate Secretary logs and numbers items and forwards them to the appropriate Academic Senate subcommittee(s): General Education (if applicable), or Curriculum.
3. The Academic Senate subcommittee(s) consider(s) the proposal. If approved, the proposal is forwarded to the next committee. If a committee disapproves the proposal, the originator may request that the item be forwarded to the next body for consideration. The committee will provide written rationale to the originator when a proposal is disapproved and the proposal is returned to the originator.
4. The Academic Senate considers the proposal and approves or disapproves. If approved, the proposal is forwarded to the Full Faculty for consideration. If the Academic Senate disapproves the proposal, the originator may request that the item be forwarded to the Full Faculty for consideration. The Academic Senate will provide written rationale to the originator when proposals are disapproved and the proposal is returned to the originator.
5. The Full Faculty considers Academic Senate approved proposals. If faculty approve, the proposal will then be forwarded to the Provost. The Provost approves or disapproves the proposal. If approved, the proposal is then forwarded to the Chancellor.
7. The Chancellor approves or disapproves the proposal.
 Subcommittee and Academic Senate college representatives will notify their respective colleges' of the progress of submitted proposals or the proposal may be tracked via the web page --
<http://www.msun.edu/admin/provost/asproposals.htm>
 Documentation and forms for the curriculum process is also available on the web page:
<http://www.msun.edu/admin/provost/asforms.htm>



***** (If a proposal is disapproved at any level, it is returned through the Academic Senate secretary to the Dean of the submitting college who then notifies the originator.)

Proposal # 11-25 Title: Organic Chemistry I Major Revision
 (proposal explanation, submitter and college dean signatures on attached program/degree or course revision form)

(CHM4 321 + 322)

Received by ACAD Senate	Date	01-04-12		
Forwarded to Gen Ed Committee		2-21-12	Approved <input type="checkbox"/>	Disapproved <input checked="" type="checkbox"/>
			Signature <u>[Signature]</u>	Date
Returned to ACAD Senate		3-6-12	Returned to dean of	
Forwarded to Curriculum Committee		01-05-12	Approved <input checked="" type="checkbox"/>	Disapproved <input type="checkbox"/>
			Signature <u>[Signature]</u>	Date
Returned to ACAD Senate		_____		
Forwarded to Graduate Council		_____	Approved <input type="checkbox"/>	Disapproved <input type="checkbox"/>
			Signature _____	Date _____
Returned to ACAD Senate for Vote		4/19/12	Approved <input checked="" type="checkbox"/>	Disapproved <input type="checkbox"/>
			Signature <u>[Signature]</u>	Date <u>4-19-12</u>
Forwarded to Provost for Approval/Disapproval		4-20-12	Approved <input checked="" type="checkbox"/>	Disapproved <input type="checkbox"/>
			Signature <u>Rosalyn Anita Templeton</u>	Date <u>5-3-12</u>
Forwarded to Chancellor for Approval/Disapproval		5-3-12	Approved <input checked="" type="checkbox"/>	Disapproved <input type="checkbox"/>
			Signature <u>[Signature]</u>	Date <u>5-4-12</u>
Copies sent to originating college and		_____		

COURSE REVISION FORM

NEW _____ DROPPED _____ MAJOR REVISION XX FOR INFORMATION ONLY _____

College COEASN Program Area General Science/Chemistry Date 11-28-2011

Submitter *Frost J. Zue* Dean *Carell A. Reifhneider* Date 12-12-11
Signature Signature (indicates "college" level approval)

Please provide a brief explanation & rationale for the proposed revision(s):

Currently the organic chemistry lecture course (CHMY 321) is listed separately from the required organic chemistry laboratory, CHMY 322. This proposed revision will change the course listing by integrating the laboratory credits into the lecture course (CHMY 321). The integration of the course with the laboratory is appropriate since the chemistry laboratory serves as an introduction to many of the concepts in organic chemistry according to the research-supported, inquiry-based instructional approach. The integrated lecture and lab also mirrors some of the other organic chemistry courses in the state.

Please provide the following information:

College: COEASN

Program Area: Chemistry

Date: 11/28/2011

Course Prefix & No.: CHMY 321

Course Title: Organic Chemistry I

Credits: 5

Required by: Primarily for students who plan on majoring in medicine, health, pharmacy, engineering, or the sciences.

Selective in:

Elective in:

General Education:

Lecture: Integrated lecture and lab

Lecture/Lab: Integrated lecture and lab.

Gradable Lab:

Contact hours lecture: 5 credit hours for integrated lecture/lab course.

Contact hours lab:

Current Catalog Description (include all prerequisites):

Organic chemistry for science and related majors with emphasis on the structure of molecules, chemical and physical properties, and reactions mechanisms of hydrocarbons, alkyl halides, and alcohols. Examines the nature of alkanes, alkenes, alkynes, cyclic alkanes, and aromatic hydrocarbon compounds. Concurrent enrollment in CHMY 322 is required. Prerequisites: CHMY 141 and CHMY 142

Proposed or New Catalog Description (include all prerequisites):

The course description will not change.

Course Outcome Objectives:

1. **Develop students' procedural knowledge.** In other words, we will work to help students with the development of their ability to think, specifically with respect to those thinking patterns commonly used by scientists. Chemists often use skills such as mathematical pattern

recognition, and the development and manipulation of mental models of particulate-level phenomena.

2. Develop students' content knowledge. The curriculum of this course follows the recommendations of the American Chemical Society. We will work to cultivate students' knowledge of facts, theories, laws, and other information associated with organic chemistry.

Additional instructional resources needed (including library materials, special equipment, and facilities). Please note: approval does not indicate support for new faculty or additional resources.

Updated 09/29/05

COURSE REVISION FORM

NEW _____ DROPPED _____ MAJOR REVISION XX FOR INFORMATION ONLY _____

College COEASN Program Area General Science/Chemistry Date 11-28-2011

Submitter Forest J. Zime Dean Carol A. Repehmed Date 11/3/12
Signature Signature (indicates "college" level approval)

Please provide a brief explanation & rationale for the proposed revision(s):

The credits for the laboratory will be integrated into the lecture portion of the course.

Please provide the following information:

College: COEASN

Program Area: Chemistry

Date: 11/28/2011

Course Prefix & No.: CHMY 322

Course Title: Organic Chemistry I Lab

Credits: 0

Required by: Primarily for students who plan on majoring in medicine, health, pharmacy, engineering, or the sciences.

Selective in:

Elective in:

General Education:

Lecture:

Lecture/Lab:

Gradable Lab:

Contact hours lecture:

Contact hours lab: 4 hours per week

Current Catalog Description (include all prerequisites):

Laboratory portion of CHMY 321. Experiments in organic techniques of distillation, extraction, and recrystallization, preparation and identification of hydrocarbons, alcohol, cyclic alkanes, and alkylhalides compounds. Concurrent enrollment in CHMY 321 is required. Prerequisite: CHMY 144. This course taken in conjunction with the lecture portion of the course (CHMY 321) meets the laboratory science requirement. Course Fee: \$25.00

Proposed or New Catalog Description (include all prerequisites):

The course description will not change.

Course Outcome Objectives:

- Develop and maintain safe laboratory practices; including the use of appropriate protective equipment, safe handling of reagents and the proper use of laboratory equipment
- Perform stoichiometric calculations for reactions employed and be able to determine the amounts of reagents required for and limiting reagents in these steps. Calculate percent yield

- Understand the general physical and chemical principals behind the previously mentioned isolation techniques
- Characterize the physical properties and analytical data of organic compounds: IR, MS, bp, mp, refractive index, ^1H & ^{13}C NMR; know the common functional group tests: Tollins test, Br_2 for alkenes/alkynes, etc.
- Report the details of an experiment in a concise & detailed manner;
- Perform common organic reactions: substitutions, etc.

Additional instructional resources needed (including library materials, special equipment, and facilities). Please note: approval does not indicate support for new faculty or additional resources.

Updated 09/29/05