

ACADEMIC SENATE PROPOSAL TRACKING SHEET
(Document To Be Originated By the Academic Senate Secretary On Canary Color Paper)

Proposal # 15-11

Title: College Chemistry II Lab

(Proposal explanation, submitter and college dean signatures on attached program/degree or course revision form.)

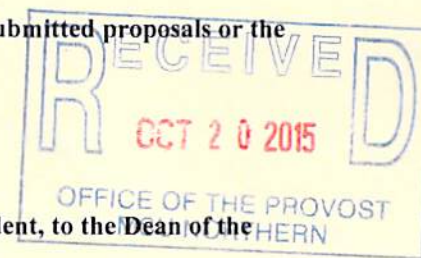
All proposals MUST have their originating college faculty body (Ex. Arts & Sciences, Education and Nursing; Technical Sciences) approval and must be signed by the submitter and the college dean before being submitted to the Academic Senate Secretary.

1. Submit all proposals (using the appropriate Academic Senate program/degree and/or course revision forms or General Education Inclusion form) to the Academic Senate Secretary. **NOTE: Level 1 or Level 2 forms must be submitted concurrent with this proposal where applicable. For Education proposals, PEU approval must be received prior to forwarding the proposal to the Senate.**
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. A transmittal e-mail will be sent to the Recording Secretary of the receiving committee, cc Provost's Administrative Assistant, by the Academic Senate Secretary. A digital copy of the proposal will be linked on the Academic Senate Proposal page by the Academic Senate Secretary.
3. The Academic Senate subcommittee(s) consider(s) the proposal. If approved, the proposal is returned to the Academic Senate Secretary for forwarding 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, via the Academic Senate, when a proposal is disapproved and the proposal is returned to the originator. Upon completion of committee action, the proposal will be returned to the Academic Senate Secretary, and a transmittal e-mail sent by the Committee Recorder to the Senate Secretary, cc Provost's Administrative Assistant.
4. The Academic Senate considers the proposal and recommends approval or disapproval. If approved, the proposal is forwarded to the Provost for consideration. If the Academic Senate disapproves the proposal, the originator may request that the item be forwarded to the Full Faculty for consideration, utilizing the procedures set forth in the Senate Bylaws. The Academic Senate will provide written rationale to the originator when proposals are disapproved and the proposal is returned to the originator.
5. Approved proposals will be forwarded to the Provost. The Provost approves or disapproves the proposal. If approved, the proposal is then forwarded to the Chancellor. From this point forward, the Provost's Administrative Assistant will update the Proposal page on the website.
7. The Chancellor approves or disapproves the proposal.
8. The proposal will then either be implemented or referred to MSU for further action. The tracking page on the Provost site will be updated as required.

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/senate/proposals.htm>

**Documentation and forms for the curriculum process is also available on the web page:
<http://www.msun.edu/admin/provost/forms.htm>**

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



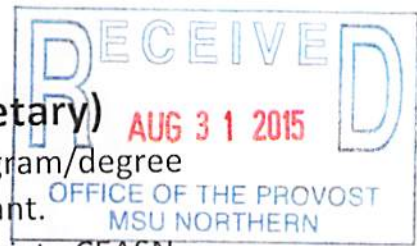
See back for tracking form

	Date	Action Taken	Signature	Date	Comments/Reason for Disapproval	Sent to	Date	Transmittal E-mail sent
*Abstract received by Senate Secretary		Copy to Senate President. Forward to Provost.						
*Provost		<input type="checkbox"/> Abstract Approved <input type="checkbox"/> Disapproved						
Received by Senate Secretary	10/02/15	Tracking form initiated	Lourdes Caven	10-02-15		Senate	10/05/15	
General Education Committee (if applicable)		<input type="checkbox"/> Approved <input type="checkbox"/> Disapproved						
Curriculum Committee (if applicable)		<input type="checkbox"/> Approved <input type="checkbox"/> Disapproved						
Academic Senate	10/05/15	<input checked="" type="checkbox"/> Approved <input type="checkbox"/> Disapproved	<i>Hona Sullust 10/13/15</i>			Provost	10-14-15	
Full Faculty (if necessary)		<input type="checkbox"/> Approved <input type="checkbox"/> Disapproved						
Provost		<input checked="" type="checkbox"/> Approved <input type="checkbox"/> Disapproved	<i>William J. Rugg</i>			Chancellor	1.12.16	
Chancellor		<input checked="" type="checkbox"/> Approved <input type="checkbox"/> Disapproved	<i>Gregory D. Kegel 3-17-2016</i>					
MSU		<input type="checkbox"/> Approved <input type="checkbox"/> Disapproved	N/A					
BOR		<input type="checkbox"/> Approved <input type="checkbox"/> Disapproved	N/A					
NWCCU		<input type="checkbox"/> Approved <input type="checkbox"/> Disapproved	N/A					
Provost		Advise originating college and Academic Senate of status. Update Web page.						
Registrar		Catalog/Policy Manual Update						

NOTE: The secretary of the Academic Senate will update the Academic Senate Proposal web page from initial receipt until the proposal reaches the Provost. The Provost's Administrative Assistant will ensure that the current status of each proposal is maintained on the Academic Senate Proposal web page from that point forward. ***Abstract and pre-approval required for new programs ONLY.**
 Academic Senate Form 1 (Revised 3/21/2012)

CEASN PROPOSAL TRACKING SHEET

(Document to Be Originated By CEASN Secretary)



1. Submit all proposals (using the appropriate Academic Senate program/degree and/or course revision forms) to the CEASN Administrative Assistant.
2. The CEASN Administrative Assistant forwards them to the appropriate CEASN Committee.

Proposal Number: <u>2015-2016 #15</u>	Title: <u>College Chemistry II lab</u>
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Date

Received by CEASN Administrative Assistant

8-16-15

Forwarded to CEASN College Meeting

8-20-15

Approved

Disapproved

[Signature]

Chair
Signature

8/20/15
Date

Returned to CEASN Administrative Assistant

8-20-15

Forwarded to Dean for Signatures

8-26-15

[Signature]

Dean
Signature

8-26-15

Returned to CEASN Administrative Assistant

8-26-15

Forwarded to Professional Education Unit

8-31-15

Approved

Disapproved

[Signature]

Signature

10-1-15
Date

Returned to CEASN Administrative Assistant

10-2-15

Forwarded to ACAD Senate

10-2-15

COURSE REVISION FORM

NEW _____ DROPPED _____ MAJOR REVISION _____ FOR INFORMATION ONLY _____

College Arts and Sciences Program Area Biology/General Science Date 8/6/2015

Submitter Gary L. Succaw Dean Carol Reifschneider Date 8/6/2015
Signature Signature (indicates "college" level approval)

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

All chemistry lectures and labs were once separate courses. Several students have had trouble with the registrar when applying for graduation because they were missing a lab credit that was included in the lecture grade. The chemistry/physics lectures and labs should be either all separate classes or all should include the lab as part of the lecture. Because General Chemistry, Organic Chemistry, and Physics have the labs as separate courses from the lectures, it would in our best interest to change the College Chemistry Lecture and Labs back into separate courses with a separate grade assigned.

Please provide the following information:

College: Arts and Sciences

Program Area: Chemistry

Date: 8/6/2015

Course Prefix & No.: CHMY 144

Course Title: College Chemistry II Laboratory

Credits: 2

Required by: Biology and General Science Majors

Selective in: None

Elective in: None

General Education: Yes

Lecture: 0%

Lecture/Lab: Lab only

Gradable Lab: Yes

Contact hours lecture: minimal contact primarily for instruction presentation.

Contact hours lab: twice a week for a total of four hours for 15 weeks=60 contact

Current Catalog Description (include all prerequisites):

None, the lab is not a separate course from the lecture at present time.

Proposed or New Catalog Description (include all prerequisites):

2 semester credits This laboratory will demonstrate the concepts encountered in College Chemistry II. Prerequisite: High School Algebra. CHMY 143 must be taken concurrently to fulfill a laboratory science requirement, unless CHMY 143 has already been successfully completed.

Course Outcome Objectives:

CHMY 144

College Chemistry II Lab

Upon completing this course, a student will be able to:

Explain the intermolecular attractive forces that determine the properties of the states of matter and phase behavior;

Explain colligative properties and their use in determining characteristics of solutions;

Determine the rate of a reaction and its dependence on concentration, catalysts, nature of reactants, and temperature;

Explain reaction mechanisms and how they relate to rate laws;

Determine whether equilibrium has been established and calculate equilibrium concentrations/pressures;

Demonstrate appropriate use of LeChatelier's principle to predict the effects of concentration, temperature, and pressure changes on equilibrium mixtures;

Apply the principles of equilibrium to aqueous systems and perform calculations involving pH and buffer systems;

Explain the principles of, and perform calculations with, the thermodynamic functions of enthalpy, entropy, and free energy;

Balance oxidation/reduction reactions in acidic and basic solution;

Explain the construction and operation of galvanic and electrolytic electrochemical cells;

Determine standard and non - standard cell potentials;

Learn how to safely and effectively work with chemicals and laboratory apparatus and equipment;

Gather empirical data and analyze this data to gain an understanding of the concepts studied in College Chemistry 2.

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