

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

Proposal #12-16

Title: NSCI 110/111 Survey of the Natural Sciences & Lab – Major Revision

(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 by contacting the webmaster.
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	11/08/12	Tracking form initiated				Gen Ed	11-13-12	11-13-12
General Education Committee (if applicable)	11/13/12	<input type="checkbox"/> Approved <input type="checkbox"/> Disapproved						
Curriculum Committee (if applicable)		<input type="checkbox"/> Approved <input type="checkbox"/> Disapproved						
Academic Senate		<input type="checkbox"/> Approved <input type="checkbox"/> Disapproved						
Full Faculty (if necessary)		<input type="checkbox"/> Approved <input type="checkbox"/> Disapproved						
Provost		<input type="checkbox"/> Approved <input type="checkbox"/> Disapproved						
Chancellor		<input type="checkbox"/> Approved <input type="checkbox"/> Disapproved						
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MSU		<input type="checkbox"/> Approved <input type="checkbox"/> Disapproved						
BOR		<input type="checkbox"/> Approved <input type="checkbox"/> Disapproved						
NWCCU		<input type="checkbox"/> Approved <input type="checkbox"/> Disapproved						
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)

COURSE REVISION FORM

NEW _____ DROPPED _____ MAJOR REVISION X FOR INFORMATION ONLY _____

College CEASN Program Area Natural Science – General Education Date _____

Submitter Cora A. Reifman Dean Shankman Date 10-15-12
Signature Signature (indicates "college" level approval)

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

This course is a brief introduction to general areas of science including, biology, physical science, and earth science. The course, as it is now in the catalog, does not have a laboratory associated with it. This proposal is to add a laboratory. The "hands on experience" a laboratory provides facilitates a student to internalize the concepts learned in the lecture course helps to facilitate the learning process.

Please provide the following information:

College: CEASN
Program Area: General Education
Date:
Course Prefix & No.: NSCI 110
Course Title: Survey of the Natural Sciences
Credits: 3 credits
Required by:
Selective in:
Elective in:
General Education: Category III
Lecture: 3 credits
Lecture/Lab:
Gradable Lab: ADD 1 credit laboratory (see proposal)
Contact hours lecture: 3 hours / week
Contact hours lab: NEW 2 hours/week

Current Catalog Description (include all prerequisites):

Introduction to aspects of the Biological, Physical, and Earth Sciences. The biology component emphasizes the structural and functional features of organisms, their classification, and their importance in the environment. The physical science component presents a non-mathematical approach to understanding some of the basic concepts in chemistry and physics. The earth sciences studies focuses on the interrelationships between geology, paleontology, astronomy, meteorology, and oceanography. This course is required for elementary education majors. This course does not meet the laboratory science requirement. Course fee \$15.00

Proposed or New Catalog Description (include all prerequisites):

This course is an introduction for students to the fundamental concepts of biology, physical and earth sciences. The biology portion of the course emphasizes the structural and functional features of organisms and their importance to life on earth. The physical science portion presents the basic concepts of chemistry and physics. The earth science portion introduces the concepts of geology, paleontology, astronomy, meteorology and oceanography.

Course Outcome Objectives:

The course outcome objectives are to introduce students to the fundamental concepts of biology, physical science and earth science. Students who successfully complete this course will understand cells and cellular function. They will know the difference between plants and animals. They will know basic chemistry and physics including atoms, elements, bonding concepts, forces, energy, work and thermodynamics. Students will also be familiar with geological formations and processes that affect the earth's surface. In addition, the students will examine the relationship between geology, paleontology, meteorology and oceanography and how all these affect the state in which we live. Students will be introduced to astronomy and important astronomical concepts.

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 X FOR INFORMATION ONLY _____

College CEASN Program Area Natural Science – General Education Date _____

Submitter Carol A. Raphael Signature Date 10-15-12
Signature (indicates "college" level approval)

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

This course is the laboratory class to accompany NSCI 110. The purpose of the laboratory is to utilize "hands on" activities to demonstrate the concepts presented in the lecture portion of the class. There will be labs that demonstrate biological, chemical, physical and earth sciences.

Please provide the following information:

College: CEASN

Program Area: General Education

Date:

Course Prefix & No.: NSCI 111

Course Title: Survey of the Natural Sciences Laboratory

Credits: 1 credits

Required by:

Selective in:

Elective in:

General Education: Category III

Lecture:

Lecture/Lab:

Gradable Lab: 1 credit laboratory

Contact hours lecture:

Contact hours lab: 2 hours/week

Current Catalog Description (include all prerequisites):

There is no current description.

Proposed or New Catalog Description (include all prerequisites):

This course is the laboratory course to accompany NSCI 110. The laboratory will introduce students to experiments where they will see demonstrated the fundamental concepts of biology, physical and earth sciences. Course fee: to be set.

Course Outcome Objectives:

Students who successfully complete this course will be familiar with the microscope and how it is used to observe cells. Students will have an understanding of the scientific method and how experiments are developed and executed. Students will have an opportunity to develop skills of observation and critical thinking as they conduct experiments that involve chemistry, physics, and earth sciences.

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

Request for Inclusion in the General Education Core

Add to Category	Gen Ed Category	Area Description	Credits Required
	Category I	Communication	6
	Category II	Mathematics	3
XX	Category III	Natural Sciences with lab	6
	Category IV	Social Sciences/History	6
	Category V	Cultural Diversity	3
	Category VI	Fine Arts/Humanities	6
	Category VII	Technology	3

Course submitted for consideration:

College	Subject	Number	Title	Credits
CEASN	NSCI	111	Survey of Natural Sciences Laboratory	1

Catalog Description:

This course is the laboratory course to accompany NSCI 110. The laboratory will introduce students to experiments where they will see demonstrated the fundamental concepts of biology, physical and earth sciences.

Provide a detailed explanation; show evidence, and rationale meeting 80% of the objectives as directly related to the appropriate category I through IX for the proposed course inclusion.

<p>The students that take this course are introduced to the Scientific Method through participation in laboratory experiments.</p> <p>The experiments utilized in this course center on developing the student's skills of observation and use of critical thinking. The evidence of this will be in the submitted laboratory reports that will follow the completion of each experiment.</p> <p>The students will conduct experiments in biology, chemistry, physical and earth science. These experiments will mirror processes that occur in the natural world.</p> <p>The students will learn skills and the use of equipment that are used to provide information on the natural processes. These include making observations, collecting data from equipment and using critical thinking to determine what the information reveals.</p> <p>The students are assessed on basic knowledge of the material (exams), their ability to critically think, assess and conclude (lab reports and unknown report) and to develop laboratory skills illustrated by their technique to perform them (technique).</p> <p>Thus, this course meets the objectives for Category III – Natural Science.</p>	
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Print Name	Print Name	
Submitter <i>Carol A. Perzich</i>	Chair/Dean: <i>Chris Shaw</i>	Date: <i>11/7/12</i>
Signature	Signature (indicates "college" level approval)	