

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. Nursing, Technical Sciences, Arts & Sciences, Education) approval and must be signed by the submitter and the college chair/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): Teacher Education (if applicable), 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 Chair/Dean of the submitting college who then notifies the originator.)

Proposal # <u>04-55</u>	Title: <u>Request DOT 301 as Cat IX gen ed core course</u>
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(proposal explanation, submitter and college chair/dean signatures on attached program/degree or course revision form)

Received by ACAD Senate Forwarded to Teacher Ed Council	Date <u>3-2-05</u> N/A	Approved _____ Disapproved _____	
Forwarded to Gen Ed Committee	<u>3-2-05</u>	Signature _____ Approved <input checked="" type="checkbox"/> Disapproved _____ Signature <u>Gregory</u> Date <u>3/3/05</u>	
Returned to ACAD Senate Forwarded to Curriculum Committee	<u>3-4-05</u> <u>3-4-05</u>	Approved <input checked="" type="checkbox"/> Disapproved _____ Signature <u>Wano E. Boylston</u> Date <u>4-19-05</u>	
Returned to ACAD Senate for Vote	<u>4-20-05</u>	Approved <input checked="" type="checkbox"/> Disapproved _____ Signature _____ Date <u>4/21/05</u>	
Sent to Provost's office for Full Faculty vote Voted on at Full Faculty meeting	<u>4/22</u> <u>4/20/05</u>	Approved <input checked="" type="checkbox"/> Disapproved _____ Signature _____ Date <u>4/20/05</u>	
Forwarded to Provost for Approval/Disapproval	<u>4/20/05</u>	Approved <input checked="" type="checkbox"/> Disapproved _____ Signature _____ Date <u>5/20/05</u>	
Forwarded to Chancellor for Approval/Disapproval	<u>5/10/05</u>	Approved <input checked="" type="checkbox"/> Disapproved _____ Signature _____ Date <u>5/10/05</u>	
Copies sent to originating college and registrar's office C:/data/proposaltracking sheet ACAD 10 10 01	<u>5/10/05</u>		

COURSE REVISION FORM

NEW ___ DROPPED ___ MAJOR REVISION ___ FOR INFORMATION ONLY X

College COTS Program Area AOT Date 2/25/05

Submitter Thomas M. Welch Chair/Dean Gregory D. Kugel Date 2.25.05
Signature Signature (indicates "college" level approval)

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

*Revise course description
Request course as a category IX general education course*

Please provide the following information:

College: COTS
Program Area: Agricultural Technology
Date: 2/25/05
Course Prefix & No.: AOT301
Course Title:
Credits: 2

Required by: AOT B.S.,

Selective in:

Elective in:

General Education: Submit for Category IX

Lecture: 2

Lecture/Lab: 0

Gradable Lab:

Contact hours lecture: 2

Contact hours lab:

Current Catalog Description (include all prerequisites):

This course will allow students to acquire an understanding of global positioning systems (GPS) technology and how it is used in agriculture, outdoor activities, orienteering, and in managing land resources. Class participants will use handheld and mapping grade GPS receivers and become familiar with GPS data collection, differential correction, processing of spatial data, map types, coordinate grids, map datums, and waypoints. Students will learn how to link GPS receivers with computers and machinery, manage GPS data with software, upload and download coordinate information and create printouts of spatial data, locations and routes.

Proposed or New Catalog Description (include all prerequisites):

This course will allow students to acquire an understanding of global positioning systems (GPS) technology, navigation history and advances and how GPS is used in agriculture, outdoor activities, orienteering, and for managing land resources. Class participants will use handheld and mapping grade GPS receivers and become familiar with GPS data collection, differential correction, processing of spatial data, map types, coordinate grids, map datums, and waypoints. Students will learn how to link GPS receivers with computers and machinery, manage GPS data with software, upload and download coordinate information and create printouts of spatial data, locations and routes. Past, current and future implications and impacts of GPS technologies on society, countries and governments, and the economy will also be discussed.

Course Outcome Objectives:

Participants satisfactorily completing the requirements of this class will be able to:

- 1. Narrate the history of navigation and the science, technology and equipment evolution*
- 2. Describe basic global positioning principles and practices*
- 3. Understand common GPS terminology*
- 4. List common GPS applications and how they are impacting societies and the economy*
- 5. Interpret and utilize common geographic coordinate systems*
- 6. Interpret coordinate grid maps and usage with GPS*
- 7. Utilize handheld and precision GPS receivers for positioning, navigating, tracking, mapping and other uses*

How Course Outcomes Meet the Technology General Education Category:

Those Met are Marked with an X

Category IX - Technology

Students are expected to demonstrate two or more of the following outcomes upon successfully completing this category:

1. Explain the impact of technology on society and conversely, how society impacts technology in a historical, present and future sense	X
2. Critically assess current and future trends in technology	X
3. Describe the past and future implications of technology on society	X
4. Explicate the historical importance of technology in societal change and the role of technology in future changes	X
5. List technology's role in problem solving and communication	X
6. Describe the ethical, legal and social concerns stemming from advances in technology	
7. Demonstrate an ability to use technology within a discipline	X
8. Demonstrate an introductory level of technology literacy	X

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

None