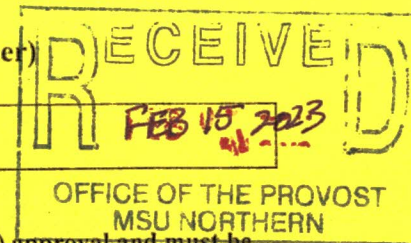


ACADEMIC SENATE PROPOSAL TRACKING SHEET
(Document To Be Originated By the Academic Senate Secretary On Canary Color Paper)



Proposal # 22-02	Title: Calculus for Technology II
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(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

			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		Tracking	DocuSigned by: <i>Debra Bradley</i> 26590A1E6DE84DB...	10/5/2022	Forward	K. Udayakumar	10-05-2022	DocuSign
General Education Committee (if applicable)	10/12/2022	<input type="checkbox"/> Approved <input type="checkbox"/> Disapproved	DocuSigned by: <i>Karthuri Udayakumar</i>		Forward 10/12/22	C. Donoven		DocuSign
Curriculum Committee (if applicable)	10/20/2022	<input checked="" type="checkbox"/> Approved <input type="checkbox"/> Disapproved	DocuSigned by: <i>Corsy</i>		Forward (10/20/22)	V. Guyant		DocuSign
Academic Senate	12/16/2022	<input checked="" type="checkbox"/> Approved <input type="checkbox"/> Disapproved	DocuSigned by: <i>Valerie Guyant</i> DE995B0729A143B...		forward	provost		DocuSign
Full Faculty (if necessary)		<input type="checkbox"/> Disapproved <input type="checkbox"/> Approved						
Provost		<input checked="" type="checkbox"/> Approved <input type="checkbox"/> Disapproved	<i>Carol A. Reifened</i>		forward	Chancellor		3-8-2023
Chancellor		<input checked="" type="checkbox"/> Approved <input type="checkbox"/> Disapproved	<i>Angie O. Keyel</i>		→			3/10/23
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						
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.

COURSE REVISION FORMNEW DROPPED _____ MAJOR REVISION _____ FOR INFORMATION ONLY _____College CASE Program Area Math Date 4/13/22Submitter [Signature] Dean Beth Durovich Date 4-19-22
Signature (indicates "college" level approval)

Please provide a brief explanation & rationale for the proposed revision(s): To make the calculus sequence clearer (better content structure and clearer order to courses) and to better match courses in the MUS for ease of transfer

Please provide the following information:

College: CASE
Program Area: Mathematics
Date: 3/30/22
Course Prefix & No.: M 166

Course Title: Calculus for Technology II
Credits:

Required by: Engineering Technology: Civil Engineering Technology

Selective in:
Elective in:
General Education:

Lecture: 3 Credits
Lecture/Lab: 1 Credit
Gradable Lab:
Contact hours lecture: 3
Contact hours lab: 2

Current Catalog Description (include all prerequisites):**Proposed or New Catalog Description (include all prerequisites):**

Calculus with emphasis on problems of interest to engineering technologists. Includes integration, infinite series, and differential equations. Prerequisite: M165 or university placement examination.

Course Outcome Objectives:

- Explain and understand the basic concepts of integrals
- Use integrals to calculate geometric quantities such as areas, volumes, and arc lengths
- Use integrals to calculate physical quantities such as center of mass, fluid pressure, and work
- Explain and understand the basics of differential equations, as well as solve simple first-order differential equations
- Apply integrals and differential equations to solve mathematical problems in engineering and physics applications

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

CASE PROPOSAL TRACKING SHEET

(Document to be Originated by the CASE Admin. Associate)

1. Submit all proposals using the appropriate Academic Senate Program/Degree and/or course revision forms to the CASE Admin. Associate

2. The CASE Admin. Associate forwards them to the appropriate CASE Committee

Proposal Number: #10	Title: Calculus for Technology II
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Received by the CASE Admin Associate Date: 4/13/2022

Forward to the Professional Education Unit Date: _____ Approved _____ Not Approved _____

N.A.

P.E. U. Signature Date

Return to CASE Admin Date: 4.13.2022

Forward to the Chair of CASE Date: 4.13.2022 Approved _____ Not Approved _____

Carola Raphael _____ 4-18-2022
Chair Signature Date

Return to CASE Admin Date: 4.18.2022

Forward to the Dean of CASE Date: 4-18-2022 Approved Not Approved _____

Beth Durodye _____ 4-19-22
Dean's Signature Date

Return to CASE Admin Date: 4-19-2022

Forward to Academic Senate Subcommittees Date: 9-16-2022