

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

Proposal # 20-10	Title: M 121 College Algebra	JAN 15 2021
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(Proposal explanation, submitter and college dean signatures on attached program/degree or course revision form.)

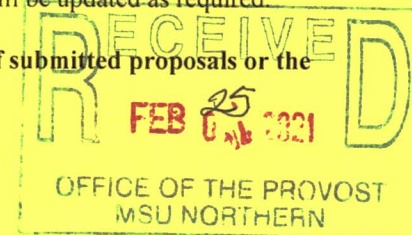
All proposals MUST have their originating college faculty body (Ex. Arts & Sciences, Education and Nursing; Technical Sciences) approval and must be signed by the submitter and the college dean before being submitted to the Academic Senate Secretary.

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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	1/15/2021	tracking	Bradley		forwarded to Ed	Great C Oxburn		inner office email
General Education Committee (if applicable)	1/28/21	approved	C. Oxburn		forwarded to Comm	Cur. S. Todd		inner office email
Curriculum Committee (if applicable)	2/1/2021	<input checked="" type="checkbox"/> Approved <input type="checkbox"/> Disapproved	Jay B		forwarded to Sen.	Ac. R. Schneider		inner office email
Academic Senate	2/16/2021	<input checked="" type="checkbox"/> Approved <input type="checkbox"/> Disapproved	Carol A. Raphael		forwarded to Provost	Provost J. Bond	2/24/21	inner office email
Full Faculty (if necessary)		<input type="checkbox"/> Approved <input type="checkbox"/> Disapproved						
Provost		<input checked="" type="checkbox"/> Approved <input type="checkbox"/> Disapproved		2/26/21			3/1/21	Chancellor office
Chancellor		<input checked="" type="checkbox"/> Approved <input type="checkbox"/> Disapproved	Angie O. Keyel			AA	3/3/21	
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.**

COURSE REVISION FORM ³

NEW _____ DROPPED _____ MAJOR REVISION FOR INFORMATION ONLY XX

College CASE Program Area Mathematics Date 10/25/20

Submitter Math Dept. of College Chair Dean Abulhasan Date 1-14-2020
Signature Signature (indicates "college" level approval)

Please provide a brief explanation & rationale for the proposed revision(s):
In order to better serve our students needs and enable course registration, we are splitting the College Algebra course from the LAB component. This will allow students to register as needed, as well as potentially switch courses more efficiently.

Please provide the following information:

College: CASE
Program Area: Mathematics
Date: 10/25/2020
Course Prefix & No.: M 121

Course Title: College Algebra
Credits: 3

Required by: 2 and 4 year programs, as well as some certificate programs

Selective in:
Elective in:
General Education: CAT II

Lecture: 3
Lecture/Lab:
Gradable Lab:
Contact hours lecture:
Contact hours lab:

Current Catalog Description (include all prerequisites):
This course is designed to meet the general education mathematics requirement for the liberal arts major. It surveys some of the important ideas and practical applications in mathematics and uses a variety of mathematical skills and technology to solve real problems. Topics include problem solving, financial math, mathematical modeling (linear and quadratic), and elementary statistics.

Proposed or New Catalog Description (include all prerequisites):
This course surveys a wide variety of topics including: properties and theorems of the real and complex number systems, the function concept including inverse functions, graphing techniques, linear, quadratic, polynomial, exponential and logarithmic functions, solving systems of equations in two or more variables using matrices and matrix algebra. The development of problem-solving skills is emphasized. Students may be required to take M 121L concurrently in accordance with Board of Regents Policy 301.16 as explained in this catalog under General Education Course Placement.

Course Outcome Objectives:

- 1) Simplify, factor, and perform and of the basic arithmetic operations on polynomials and rational expressions.
- 2) Perform arithmetic operations and simplify algebraic expressions with rational exponents including rationalize a denominator.
- 3) Solve linear, quadratic, and rational, exponential and logarithmic equations and be able to use each of these to model and solve applied problems.
- 4) Solve absolute value equations and inequalities and express solutions of inequalities in interval notation.
- 5) Identify relations vs functions; use function notation; identify domain, range, intervals of increasing/decreasing/constant values; algebraically and graphically identify even and odd functions.
- 6) Find zeros, asymptotes, and domain of rational functions.
- 7) Evaluate and sketch graphs of piecewise functions and find their domain and range.
- 8) Use algebra to combine functions and form composite functions, evaluate both combined and composite functions and their graphs and determine their domains.
- 9) Identify one to one functions, find and verify inverse functions, and sketch their graph.
- 10) Write logarithms as exponentials and vice versa.
- 11) Solve exponentials and logarithms using the one to one property or inverse properties.
- 12) Expand and condense logarithmic expressions.

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

Updated 09/29/05

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: # 43	Name: M 121 College Algebra
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Received by the CASE

Admin Associate

Date: 10.27.2020 TABLED
11.24.2020

Forward to the CASE

College Meeting

Date: 11.24.2020

Approved

Not

Approved

Valerie J. J. 11/24/2020
Chair's Signature Date

Return to CASE Admin

Date: NA

Forward to the
Professional Education
Unit

Date: NA

Approved

Not

Approved

P E U Signature

Date

Return to CASE Admin

Date: 12.30.2020

Forward to the Dean of
CASE

Date: 1.14.2021

Approved

Not

Approved

Andrew J. J. 1-14-2021
Dean's Signature Date

Return to CASE Admin

Date: 1-15-2021

Forward to Academic
Senate Subcommittees

Date: 1-15-2021

Updated 12-09-2019 DDB

Updated 10/03/2018 DDB

Updated 11/23/2020 DDB