

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

<b>Proposal # 20-11</b>	<b>Title: M 121L College Algebra Lab</b>	<b>JAN 15 2021</b>
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(Proposal explanation, submitter and college dean signatures on attached program/degree or course revision form.)

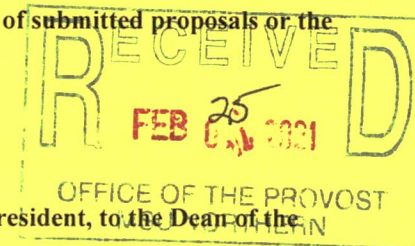
**All proposals MUST have their originating college faculty body (Ex. Arts & Sciences, Education and Nursing; Technical Sciences) approval and must be signed by the submitter and the college dean before being submitted to the Academic Senate Secretary.**

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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.**





	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	D Bradley		forwarded to Ed	Open		university office email
General Education Committee (if applicable)	1/28/21	Disapprove	L. Oylm		Lab not included in general core Corrections made	Todd		university office email
Curriculum Committee (if applicable)	2/11/2021	<input checked="" type="checkbox"/> Approved <input type="checkbox"/> Disapproved	Jay P		forwarded to Senate	Perkins		university office email
Academic Senate	2/26/2021	<input checked="" type="checkbox"/> Approved <input type="checkbox"/> Disapproved	Carol A. Reifman		forwarded to office	Todd	2/24/21	university office email
Full Faculty (if necessary)		<input type="checkbox"/> Approved <input type="checkbox"/> Disapproved						
Provost		<input checked="" type="checkbox"/> Approved <input type="checkbox"/> Disapproved	ml	2/26/21	moved to		3/1/21	chancellor office
Chancellor		<input checked="" type="checkbox"/> Approved <input type="checkbox"/> Disapproved	Angie O. Keyel			AA	3/3/21 3.1.2021	
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

NEW XX DROPPED \_\_\_\_\_ MAJOR REVISION  FOR INFORMATION ONLY \_\_\_\_\_

College CASE Program Area Mathematics Date 10/25/20

Submitter Math Dept Dean Aileen Sellen Date 1-14-2021  
Signature College Chair Signature (indicates "college" level approval)

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

In order to enable students to better register for, add, and drop the lab component of math as well as make scheduling smoother, we wish to add the lab as a separate course which, based on test scores, will be taken it as a co-requisite. This will also aid us in balancing credit load for instructors. In order to accomplish this, we need to create this new course

Please provide the following information:

**College:** CASE

**Program Area:** Mathematics

**Date:** 10/25/2020

**Course Prefix & No.:** M 121L

**Course Title:** College Algebra Lab

**Credits:** 1

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

**Selective in:**

**Elective in:**

**General Education:**

**Lecture:** 0

**Lecture/Lab:**

**Gradable Lab:** 1

**Contact hours lecture:**

**Contact hours lab:** 2

**Current Catalog Description (include all prerequisites):**

NONE listed

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

This course supports the student in successful completion of M 121. Students will have lab time to work on refining their mathematical skills needed in M 121 and beyond. Students will use lab time with more individual attention to work on mathematical concerns. This course must be taken concurrently with M 121 as needed, in accordance with Board of Regents Policy 301.16, as explained in this catalog under General Education Course Placement.

**Course Outcome Objectives:**

Upon successful completion of this course, students will be able to

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 and may require use of the library and library databases.

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: # 40	Name: M 121L College Algebra Lab
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Received by the CASE Admin Associate

Date: 10-27-2020 T ABLED  
11-24-2020

Forward to the CASE College Meeting

Date: 11-24-2020 Approved  Not Approved   
Chair's Signature Vann [Signature] Date 11/24/2020

Return to CASE Admin Date: \_\_\_\_\_

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   
Dean's Signature [Signature] Date 1-14-2021

Return to CASE Admin Date: 1-15-2021

Forward to Academic Senate Subcommittees

Date: 1-15-2021