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 # 01·20	Title: MAAS ~~MATH~~ 1XX – Elementary Technical Math – Course NEW

(proposal explanation, submitter and college chair/dean signatures on attached program/degree or course revision form)

Date

Received by ACAD Senate — 2-19-02

Forwarded to Teacher Ed Council — _____   Approved _____   Disapproved _____

Forwarded to Gen Ed Committee — 2-19-02

Approved ☐ Disapproved ☐ 2-25-02 *(Signature / Date)*

Returned to ACAD Senate — 2/26/02
Forwarded to Curriculum Committee — 2/26/02

Approved ☐   Disapproved _____   T. Welk   3/5/02 *(Signature / Date)*

Returned to ACAD Senate for Vote — 3/5/02

4/9/02 Course desc. revised by ACAD Senate 4/9/02 - Returned to full faculty 4-10-02

Sent to Provost's office for Full Faculty vote — 3/20/02

Approved ☐   Disapproved _____   R.J. Christed   3/19/02 *(Signature / Date)*

Voted on at Full Faculty meeting — 3/26/02 / 4-30-02
TABLED 3-26-02
Sent back to senate

Approved ☐   Disapproved ☐   4/30/02 *(Signature / Date)*

Forwarded to Provost for Approval/Disapproval — 5-17-02

Approved ✓ *   Disapproved _____

* approved, with changes. See attached memo. Roger Barber

Rogu A. Barbu   5/30/02 *(Signature / Date)*

Forwarded to Chancellor for Approval/Disapproval — 6-3-02

Approved ☐   Disapproved _____   6/3/02 *(Signature / Date)*

Copies sent to originating college and registrar's office — 6-5-02

C/data/proposaltracking sheet ACAD 10 10 01

TO: Larry Strizich, Academic Senate President

FROM: Roger Barber *Roger*

RE: The Elementary Technical Mathematics Course

DATE: May 30, 2002

I have approved the Elementary Technical Mathematics course, but with some changes and limitations.

The course, as originally proposed, was intended for A.A.S. degrees, if the faculty in those A.A.S. programs accepted it as part of their curriculum. I agree with that philosophy.

The course proposal was subsequently amended by the Academic Senate to permit the course to be used to satisfy degree and graduation requirements for the Bachelor of Applied Science degree. That amendment was approved by the full faculty on a very close vote. I agree that the course should be permitted in a Bachelor of Applied Science degree, but **only as free or elective credits. It should not be permitted to satisfy any other degree or graduation requirements in a Bachelor of Applied Science degree.**

The course proposal was also subsequently amended by the Academic Senate to permit the course to be used to satisfy Area C distribution requirements for any bachelor's degree program. That amendment was approved by the full faculty on a very close vote. **I do not agree with that amendment, and will not approve it.**

Therefore, I have accepted all of the course proposal except the final, amended language. Under the above-described approval, that language will be changed to read: "This course can be used to satisfy degree and graduation requirements in an Associate of Applied Science (A.A.S.) degree. It can also be used as 'free' or 'elective' credits in a Bachelor of Applied Science (B.A.S.) degree; but it cannot be used to satisfy any other requirements for a B.A.S. degree. It cannot be used to satisfy any degree or graduation requirements for an associate of science, an associate of arts, or a bachelor's degree."

I have made this decision based on practice and custom throughout the Montana University System. The four (4) other units of the Montana University System who have a B.A.S. degree permit such a course to be used as free or elective credits only in their B.A.S. programs. The course cannot be used to satisfy any other graduation requirements in a B.A.S. degree, however.

If you have any questions, I would be happy to try and answer them.

Cc: Will Rawn
    Greg Kegel

COURSE REVISION FORM

NEW __x__ DROPPED_____ MAJOR REVISION _____ FOR INFORMATION ONLY _____

College _Arts and Sciences/Technical_ Sciences   Program Area _Mathematics_____Date _01-25-02_

Submitter _____ _Aee Attchair/Dean_ _Sheet_ _____ Date _____
          Signature   Signature (indicates "college" level approval)

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

This course is a basic mathematics course for AAS-degree seeking students enrolled in vocational programs. Technical Elementary Mathematics will utilize technical applications of mathematical concepts drawn from diverse occupational fields and provide laboratory experiences related to measurement and precision for hands on reinforcement of concepts.

College: Arts and Sciences
Program Area: Mathematics
Date: 01-25-02   *MAAS*
Course Prefix & No.: Math 1xx

Course Title: Elementary Technical Mathematics
Credits: 3
Required by:
Selective in:
Elective in: AAS Degrees (Programs in: agriculture, auto body, automotive, business, diesel, drafting, water quality)
General Education: Yes

Lecture:
Lecture/Lab: X
Contact hours lecture: 2 hours
Contact hours lab: 2 hours

See attached - -

Proposed or New Catalog Description (include all prerequisites):

This course is intended for AAS-degree students enrolled in vocational programs who are not planning to transfer to other degree programs or institutions.
A basic mathematics course for developing mathematics skills through introductory algebra as they relate to technical programs. Also, to include measurement systems, use of measuring tools, as well as development of area and volume concepts with respect to technical applications.
This course may not be used to meet general education requirements for Math for an Associate of Science, Associate of Arts , or Baccalaureate degree programs. *(Amendment added approved by core faculty)*
Placement is by means of ACT scores or university-placement examination.

Course Outcome Objectives:

Upon successful completion of this course the students should be able to:
1. use Vernier calipers, micrometers, metric and English rules and other measuring tools
2. demonstrate the skills and understanding of the topics/concepts in an introductory algebra course
3. apply the appropriate area and volume concepts to applications in his/her program

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

Software and computer access should be readily available for students who do not place into this course or who need remedial work and/or additional practice.
Metric and English rules, Vernier calipers, micrometers, and materials for hands-on measuring.

ACAD course revision form 10-10-2001

PROCEDURAL SEQUENCE FOR ACADEMIC SENATE APPROVAL OF PROPOSALS

1. Submit all proposals to the Office of Academic Affairs.

2. The Senate President will log items and forward them to the appropriate Senate subcommittees.

3. The Senate subcommittee will send the proposal to the Senate.

4. Senate proposals will be considered by the Full Faculty.

5. If approved, the proposal will then be forwarded to the Provost/Senior Vice Chancellor.

Proposals that require action to approve/disapprove/table or remand will be sent back to the Senate according to the monthly meeting schedule.

TITLE: Proposal to create MATH 1XX Elementary Technical Mathematics _[MAAS]_

SUBCOMMITTEE: Curriculum Committee _____ PROPOSAL #:_____

PROPOSAL:

This proposal is to create MATH 1XX _[MAAS]_ Elementary Technical Mathematics, a basic mathematics course for AAS-degree seeking students enrolled in vocational programs. Technical Mathematics will utilize technical applications of mathematical concepts drawn from diverse occupational fields and provide laboratory experiences related to measurement and precision for hands-on reinforcement of concepts.

Action Signatures:

[signature] 2/19/02

[signature] 2-14-02
Submitter _____ Date

[signature]
Committee Chair

T. Welch (Curr)
Committee Chair

_____
Faculty Senate President

[signature] 2/8/02

[signature] Feb 14, 2002
College Chair/Dean _____ Date

Approve _X_ Disapprove _____ Date 2-23-02

Approve _✓_ Disapprove _____ Date 3/5/02

Approve _____ Disapprove _____ Date _____

_____
Provost/Senior Vice Chancellor for Academic Affairs

Approve _____ Disapprove _____ Date _____

~~MATH~~ MAAS 1XX – Elementary Technical Math – new course

Course Description as revised by Academic Senate   4-9-02

This course is intended for AAS-degree students enrolled in vocational programs who are not planning to transfer to other degree programs or institutions. It is a basic mathematics course for developing mathematics skills through introductory algebra as they relate to technical programs. This course includes measurement systems, use of measuring tools, as well as development of area and volume concepts with respect to technical applications.

This course can be used to satisfy degree and graduation requirements in an Associate of Applied Science (A.A.S.) degree and the Bachelor of Applied Science (B.A.S.) degree. It may also be used in Area C distribution for bachelors' degrees.

~~MATH~~ MAAS 1XX – Elementary Technical Math – new course

Course Description as revised by Academic Senate   4-9-02

This course is intended for AAS-degree students enrolled in vocational programs who are not planning to transfer to other degree programs or institutions. It is a basic mathematics course for developing mathematics skills through introductory algebra as they relate to technical programs. This course includes measurement systems, use of measuring tools, as well as development of area and volume concepts with respect to technical applications.

This course can be used to satisfy degree and graduation requirements in an Associate of Applied Science (A.A.S.) degree and the Bachelor of Applied Science (B.A.S.) degree. It may also be used in Area C distribution for bachelors' degrees.

Course Description as Amended by Full Faculty – 04/30/02

This course is intended for AAS-degree students enrolled in vocational programs who are not planning to transfer to other degree programs or institutions. It is a basic mathematics course for developing mathematics skills through introductory algebra as they relate to technical programs. This course includes measurement systems, use of measuring tools, as well as development of area and volume concepts with respect to technical applications. **Placement is by means of ACT scores or university-placement examination.**

This course can be used to satisfy degree and graduation requirements in an Associate of Applied Science (A.A.S.) degree and the Bachelor of Applied Science (B.A.S.) degree. It may also be used in Area C distribution for bachelors' degrees.