

Fall 9-1-2018

M 111.01: Technical Math

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Recommended Citation

Arends, Jeff J., "M 111.01: Technical Math" (2018). *Syllabi*. 9062.
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Instructor: Jeff Arends

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Textbook: Carman and Saunders, Mathematics for the Trades, Tenth Edition, 2011
Available as an e-book through MyLabsPlus

COURSE DESCRIPTION: M111 - Technical Mathematics Prereq., ALEKS placement ≥ 2 .
Designed to provide the mathematical background necessary for success in the industrial areas. Topics covered include percent, ratio proportion, formula evaluation, basic algebra and geometry concepts, trigonometry, measurement, statistics, and graphing. Markdowns, inventory turnover, and other basic formulas. Credit does not count toward Associate of Arts or Baccalaureate degrees.

LEARNING GOALS: Upon completion of this course, a student will be able to:

1. Utilize and apply mathematical operations, measurement (English and Metric Systems), introductory geometric principles and applied algebra into technical applications in academic and workplace situations
2. Read, interpret, and produce solutions to applications at the introductory technical mathematics level
3. Apply ratio and proportion concepts to introductory technical mathematical situations
4. Apply appropriate technology in a mathematical situation;
5. Determine the validity of results and data;
6. Solve any component of a right triangle with any two components given.

CALCULATOR:

A calculator is required. You should purchase the calculator that your program requires and learn to use it. If your program does not have a specific requirement an inexpensive scientific calculator such as a TI-30 will suffice. Ask me or classmates if you have questions about what you need.

MYLABSPLUS HOMEWORK, QUIZZES, AND TESTS:

MyLabsPlus is an innovative way for you to do homework with immediate feedback. Every section of the M111 text covered in this class has a corresponding assignment in MyLabsPlus. Homework can be submitted an unlimited number of times until the unit closes. NOTE that these assignments and chapters are open for specific times and in a specific order. Check the MyLabsPlus calendar frequently to be sure you are keeping current with your assignments. Late assignments are subject to a 20% late penalty. Late homework assignments can be submitted up until 5 PM on the last day of regular class meetings. You must keep up with the progression in order to succeed in this course.

There is an online chapter quiz for each of the chapters covered in class. Each quiz can be taken twice and the highest score is the recorded score.

There are five timed tests in class, which are different from the quizzes in format. Tests are meant to give you an opportunity to demonstrate what you have learned, and are not intended to intimidate you.

You can find the MyLabsPlus icon at the top of the my.umt.edu page: <http://my.umt.edu/>

FINAL EXAM:

There is no cumulative final exam for this course.

GRADING POLICIES:

Your final grade will be computed as follows:

MyLabsPlus homework:	20%
MyLabsPlus quizzes:	30%
Tests:	50%

Letter grades correspond to numerical scores according to this plan:

A	B	C	D	F
90-100%	80-89.9%	70-79.9%	60-69.9%	Below 60%

TUTORING:

Math tutoring is available for all UM students. Check for hours at the Learning Center at the Missoula College River Campus (243-7826) and at math@Mansfield (Mansfield Library) on the Mountain Campus: <http://hs.umt.edu/math/undergraduate/all-students/free-tutoring.php>

REASONABLE ACCOMMODATIONS:

Students with disabilities may request reasonable modifications. The University of Montana assures equal access to instruction through collaboration between students with disabilities, instructors, and Disability Services for Students (DSS). “Reasonable” means the University permits no fundamental alterations of academic standards or retroactive modifications. For more information, please consult <http://www.umt.edu/dss/>. Examples of reasonable accommodations include extra time or use of a quiet room for tests and/or quizzes. To qualify for reasonable accommodations you must provide a letter from DSS. You are responsible for making the necessary arrangements with DSS (for the Mountain Campus) or the ASC (for the Missoula College campus). If you have any questions, please contact me.

ACADEMIC CONDUCT:

All students must practice academic honesty as defined by the Student Conduct Code, available at <http://www.umt.edu/student-affairs/dean-of-students/default.php>. Academic misconduct is subject to an academic penalty by the instructor and a disciplinary sanction by the university.

DROPPING AND ADDING COURSES OR CHANGING SECTIONS, GRADING OR CREDIT STATUS:

Students are expected, when selecting and registering for their courses, to make informed choices and to regard those choices as semester long commitments and obligations. Documented justification is required for dropping courses by petition. Some examples of documented circumstances that may merit approval are: error in registration, accident or illness, family emergency, or other circumstances beyond the student's control. Reasons that are not satisfactory include: Forgetting to turn in a drop slip, protecting a student's grade point average.

The opportunity to drop a course for the current term ends on the last day of instruction before scheduled final exams. Dropping a course taken in a previous term or altering grading option or audit status for such a course is not allowed. The only exceptions are for students who have received a grade of NF (never attended).

INCOMPLETES:

A grade of incomplete will only be considered when all three of the following are true:

1. The student has been in regular attendance and passing up to three weeks before the end of the academic semester.
2. Factors beyond the student's control make it impossible to complete the course on time.
3. The instructor and the student agree that there is a reasonable probability that the student will be able to make-up the work required to complete the course and specific arrangements are drawn up and signed by both.

A student who receives an incomplete has one calendar year to resolve the incomplete (I) before it automatically reverts to a failing grade (F).