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M 111.02: Technical Mathematics

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M111 TECHNICAL MATHEMATICS
DEPARTMENT OF APPLIED ARTS AND SCIENCES
Spring 2016 SYLLABUS

Instructor: Trenin Bayless

PreRequisites: M095, M065, and/or Basic Mathematics experience.

Office: None [Tutoring at Learning Center]

Office Hours: There will be once-per-week help sessions on the western campus for 2 hours, before and after, as well as open tutoring at the Learning Center.

Instructor Phone: 406-546-5107

Instructor E-mail: trenin.bayless@umontana.edu , trenin.bayless@umconnect.umt.edu

Text: The text is not required for this class, this class is mostly online. The text: Carman and Saunders, mathematics for the trades, ninth edition, 2011 is relevant to the class, and it is encouraged for you to use it.

ATTENDANCE: Attendance is not mandatory, with the exception of the exams, as the majority of this course takes place online, however there is a strong correlation between attendance and the final grade in the course. It is strongly recommended that all students attend the course.

University of Montana policy states:

Students who are registered for a course but do not attend the first two class meetings may be required by the instructor to drop the course. This rule allows for early identification of class vacancies to permit other students to add classes. **Students not allowed to remain must complete a drop form or drop the course on the internet (<http://cyberbear.umt.edu>) to avoid receiving a failing grade.**

CALCULATOR: A calculator will be needed. Most smart phone or computer calculators will do the trick. A graphing calculator is not *needed*, but it is recommended.

MYLABSPLUS (MLP): Subscription to MyLabsPlus is a course requirement! You cannot get a grade without it. MyLabsPlus is an innovative way for you to do homework and take quizzes with immediate feedback; MyLabsPlus also keeps you on task and using your developing math skills. Every section of the M111 text covered in class has a corresponding assignment in MyLabsPlus; homework can be retaken up to 3 times until the unit closes. Note that each Homework has a due date, generally two weeks after it is assigned. Review exercises at the end are **optional**.

There is a chapter quiz for each of the chapters covered in class as well; each quiz can be taken three times and the highest score is the recorded score. You must keep up with the progression in order to succeed in this course. **The direct link to MyLabsPlus is umt.edu/mylabsplus.**

TUTORING: Math tutoring is available for all UM students. Check for hours at the ASC on the COT campus (AD06) and at math@Mansfield on the Mountain Campus.

ACADEMIC INTEGRITY: All students must practice academic honesty. Academic misconduct is subject to an academic penalty by the course instructor and/or a disciplinary sanction by The University. All students need to be familiar with the Student Conduct Code. The Code is available for review online at http://life.umt.edu/vpsa/student_conduct.php

CHANGES TO THE SYLLABUS: Instructor reserves the right to modify syllabi and assignments as needed based on faculty, student, and/or environmental circumstances. If changes are made to the syllabus, amended copies will be dated and made available to the class.

DISABILITY ACCOMODATION: Eligible students with disabilities will receive appropriate accommodations in this course when requested in a timely way. Please contact me after class or in my office. Please be prepared to provide a letter from your DSS Coordinator. For more information, visit the Disability Services website at <http://www.umt.edu/dss/> or call [406.243.2243](tel:406.243.2243) (voice/text).

IN-CLASS TESTS: Two tests and the final will be given in class. These tests give you an opportunity to demonstrate what you have learned, and are not intended to intimidate you. Bring your own calculator and/or device! They may not be shared with other students during the test. All scratch work must be done directly on the test (or on paper provided) and returned to me when leaving the classroom. You may use your laptop, cell phone (as a calculator, not to call for help), tablet or any other device you feel would be helpful for the test. When circumstances prevent you from taking a test at the scheduled time, contact me PRIOR to the time of the test to report your absence. Absences are excused only for reasons of illness, injury, family emergency, or a University-sponsored activity. Arrangements for a make-up test must occur within a week of the scheduled exam date. Failure to arrange a make-up test within a week of the scheduled exam date will result in a score of zero for the test. Corrected tests will be returned as soon as possible. If you have questions regarding the grading of your test, please wait until after class to discuss it.

IN-CLASS TEST DATES (These re up for a some debate)

(First Quarterly Exam) Friday, February 26th

(Cumulative Midterm) Friday, March 18th

(Second Quarterly Exam) Friday, April 15th

FINAL EXAM: The final exam for this class is comprehensive and is worth 27 % of the final grade. The exam will be given in class; the time and date will be announced.

GRADING POLICIES: The final grade will be computed as follows:

Homework: is worth	(13% of the final grade)
Quizzes are worth	(23% of the final grade)
The three in-class tests will be worth	(36% of the final grade)
The Final exam will be worth	(27% of the final grade)

ASSIGNMENT PROGRESSION The course speed equates to 4 to 6 assignments per week for the first half, which then reduces to 3 to 5 assignments per week for the second half. The due date for all assignments is the Sunday night 2 weeks after they were assigned. For quizzes, the due date is the Sunday night 1 week after it is assigned.. If you wait to the last moment to do everything you will not be a happy camper.

HOLIDAY DATES

Monday, February 15, Presidents Day
Monday- Friday, April 4-8 Spring Break
Friday, May 6, Last day of regular Classes

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. After registering and through **the first fifteen (15) instructional days of the semester**, students may use

(<http://cyberbear.umat.edu>) to drop and add courses or change sections and credits.

Change of grading option to audit is not allowed after the 15th instructional day. Beginning the sixteenth (16) instructional day of the semester through the forty-fifth (45) instructional day, students use paper forms to drop, add and make changes of section, grading option, or credit. The drop/add form must be signed by the instructor of the course and the student's advisor. The signed drop/add form must be returned to the Registration Counter (or the Registrar's Office at the College of Technology) no later than the **forty-fifth** instructional day.

Beginning the forty-sixth (46) instructional day of the semester through the last day of instruction before scheduled final examinations, students must petition to drop. The petition form must be signed by the instructor of the course and the student's advisor and, the dean of the student's major. The instructor assigns a grade of WP (withdrew/passing) if the student's course work has been passing or a WF (withdrew/failing) if the course work has been failing. These grades do not affect grade averages but they are recorded on students' transcripts. 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).

WITHDRAWAL FROM THE UNIVERSITY:

Students who withdraw from the University while a semester is in progress must complete withdrawal forms which are obtained from the Registration Counter in Griz Central in the Lommasson Center or the Registrar's Office in the College of Technology. Drop/add forms cannot be used to withdraw from school and students are not allowed to drop all their courses on the internet. Medical withdrawals are granted only for a student's significant health problems and must be documented by a healthcare provider. When withdrawal forms are completed in Griz Central or the Registrar's Office in the College of Technology before the last two weeks of the semester, grades of W (withdrawal) are assigned. Beginning two weeks from the end of the term, students may not withdraw from the University except for very unusual circumstances.

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 unable to finish the class.

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

OTHER INFO: Academic Support Center (COT): AD06, phone # 243-7826 (need 2 days' notice for make-up tests)

Math Learning Center (Math Bldg, Mtn campus): Basement – used for taking make-up tests;

and

math@Mansfield: Mansfield Library – drop-in tutoring center

<http://www.umt.edu/math/MLC/default.htm>

DSS (Disability Services for Students): EL154, phone # 243-2243 <http://life.umt.edu/dss/>

Academic policies and procedures available at

<http://life.umt.edu/vpsa/documents/StudentConductCode1.pdf>

Academic calendar available at <http://www.umt.edu/provost/academiccalendar.html>

Finals schedule available at <http://www.umt.edu/registrar/students/finalswk2/Autumn.aspx>

Some useful websites: <http://www.purplemath.com/> <http://algebasics.com/>

http://www.prenhall.com/divisions/esm/app/calc_v2/ (graphing calc help)

<http://incompetech.com/graphpaper/> (free graph paper generator)

<http://www.mathacademy.com/pr/minitext/anxiety/> Coping with Math Anxiety

[http://mtsu32.mtsu.edu:11064/](http://mtsu32.mtsu.edu:11064/anxiety.html) anxiety.html Help for Math Anxiety