

Time and Location: MW 5:30-7:10 PL 3130

Instructor: Seung-Moon Hong, UH2030M, (419)530-2804, seungmoon.hong@utoledo.edu

Office hours: M 2:00-5:00, W 12:30-2:30

Textbook: *Technical Calculus - Special Edition for UT*, by Ewen, Gray, Trefzger, and Colley.

Prerequisites: Passing grade in Math 1320 and Math 1330 or in Math 1340, or satisfactory placement test scores. If a student's ACT-Math score is 22 or greater, a score of 12 or greater is required on the Trigonometry Placement test. If a student's ACT-Math score is 20 or 21, then the student must have a score of 12 or greater on the Trigonometry Placement test and a score of 12 or greater on the College Algebra Placement test. For students with ACT-Math scores of 20 or 21 who score between 9 and 11 inclusive on the Trigonometry Placement test and have College Algebra Placement test scores of 15 or greater, they may enroll in MATH2450 if they concurrently enroll in Trigonometry Review MATH1980. Students who enroll in MATH2450 but have failed prerequisite courses may be administratively dropped from the class. General education curriculum core course meets the skills requirements in mathematics.

Resources: There are resources available for students who need extra help outside my office hours. For this course the most reliable source of tutorial help can be found at the Mathematics Learning and Resource Center, B0200, located in the basement of Carlson Library-phone ext. 2176. For MLRC hours, see <http://www.utoledo.edu/utlc/lec/tutoring/math.html>.

Homework: It will be assigned and graded weekly. Late homework will not be accepted for any reason. To allow some unexpected cases, 1-2 of the lowest assignment scores will be dropped.

Quizzes: There will be a quiz weekly. Some will be announced and some will not. No late quiz is accepted. At the end of the semester, 1-2 of the lowest quizzes will be dropped.

Exams: There will be two in class exams and a comprehensive final exam given during scheduled final exam period for the section.

Calculator: No calculators with symbolic or graphing capabilities are allowed on quizzes and exams.

Cell Phones and Laptop Computer Usage: Please turn off your cell phone and keep it stored away. You can use a laptop computer to take notes, but it cannot be used for any other purpose.

Attendance: Your attendance to all classes is strongly encouraged. Any announcements made in class regarding the schedule of future classes, exams or other information takes precedence over this outline.

Missed Quizzes and Exams: If you miss a class you are responsible for obtaining the material, notes, etc. Absence for quizzes and exams can only be excused if covered by the University's missed class policy. The policy specifically mentions absences from class may be excused for personal emergencies, religious observances, participation in certain UT sponsored activities, and government required activities. For more information see http://www.utoledo.edu/facsenate/missed_class_policy.html. The student must contact me in advance by phone, e-mail or in person, provide official documentation to back up his or her absence, and arrange to make up the missed item as soon as possible.

Drop/Withdrawal: The last day to drop or add this course is the Friday of the second week of classes. The last day to withdraw from this class with a grade of W is the Friday of the tenth week of classes.

Academic Honesty: Successful completion of this course requires personal integrity and honest academic effort. Any dishonest activities will not be tolerated in this course. Any student who engages in dishonest behavior will, at the instructor's discretion, fail the exam, fail the course, or more serious consequences. See the University's "Policy Statement on Academic Dishonesty".

Non-Discrimination Policy: The University of Toledo is committed to a policy of equal opportunity in education, affirms the values and goals of diversity.

Students with Disabilities: The University will make reasonable academic accommodations for students with documented disabilities. Students should contact the Office of Accessibility (Rocket Hall 1820; 419.530.4981; officeofaccessibility@utoledo.edu) as soon as possible for more information and/or to initiate the process for accessing academic accommodations. For the full policy see: <http://www.utoledo.edu/utlc/accessibility/faculty.html>

Grading: The following percentages are assigned to the components of the student's grade. Attendance 5%, Homework 10%, Quizzes 15%, Exam I 20%, Exam II 20%, Final Exam 30%.

The final letter grade will be based on your total average as follows:

Total average	60% or above	70% or above	80% or above	90% or above
Grade	D	C	B	A

Calendar:

Last day to add/drop	Jan 18
Exam I	Feb 06
Exam II	Mar 13
Last day to withdraw	Mar 22
Final Exam	Apr 29, 5:00-7:00 pm

Schedule:

Week	Subject
1	2.1 Motion 2.2 The Limit 2.3 Slope of a Tangent Line to a Curve 2.4 The Derivative
2	2.5 Differentiation of Polynomials 2.6 Derivatives of Products and Quotients 2.7 Derivatives of a Power
3	2.8 Implicit Differentiation 2.10 Higher Derivatives
4	3.1 Curve Sketching 3.2 Using the Derivative in Curve Sketching
5	3.3 More Curve Sketching Exam I
6	3.5 Maximum and Minimum Problems 3.6 Related Rates
7	3.7 Differentials 4.1 Trigonometric Functions
8	4.2 Derivatives of Sine and Cosine Functions 4.3 Derivatives of Other Trigonometric Functions 4.4 The Inverse of Trigonometric Functions
9	4.5 Derivatives of Inverse Trigonometric Functions 4.6 Exponential and Logarithmic Functions Exam II
10	4.7 Derivatives of Log Functions 4.8 Derivatives of Exponential Functions 4.9 Applications
11	5.1 The Indefinite Integral 5.2 The constant of Integration
12	5.3 Area Under a Curve 5.4 The Definite Integral
13	6.1 Area between Curves
14	6.2 Volumes of Revolution: Disk Method
15	6.3 Volumes of Revolution: Shell Method