

Time and Location: MWF 10:00-10:50 SM 2100

Recitation: (011)TR 9:00-9:50 PL 2450, (012)TR 10:00-10:50 PL 2450

Instructor: Seung-Moon Hong, UH2030J, (419)530-2804, seungmoon.hong@utoledo.edu

Office hours: M 3:30-5:00, T 11:00-2:00, W 11:00-11:30

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

Catalog Description: Transcendental functions, methods of integration, applications of the integral, polar coordinates, vector operation, lines and planes, parametric equations.

Prerequisites: Passing grade in Math 2450.

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. It operates on a walk-in basis. LEC Tutoring Hours: Monday/Thursday 9 am–8 pm, Tuesday/Wednesday 9 am–9pm, Friday 9 am–2 pm.

Homework: It will be assigned and graded weekly. Late homework will not be accepted for any reason.

Quizzes: There will be a quiz weekly. Some will be announced and some will not. No late quiz is accepted.

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/Smart Phones are not allowed during 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/success/academicaccess/sam/index.html>

Students Privacy: Federal law and university policy prohibits instructors from discussing a student's grades or class performance with anyone outside of university faculty/staff without the student's written and signed consent. This includes parents and spouses. For details, see the "Confidentiality of student records (FERPA)" section of the University Policy Page at <http://www.utoledo.edu/policies/academic/undergraduate/index.html>.

Grading: The following percentages are assigned to the components of the student's grade. Homework 15%, 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	below 60%	60% – 69%	70% – 79%	80% – 89%	90% – 100%
Grade	F	D	C	B	A

Important Dates:

Last day to add/drop	Jan 17
Exam I	Feb 07
Exam II	Mar 14
Last day to withdraw	Mar 21
Final Exam	Apr 30, 10:15-12:15

Schedule:

Week	Subject
1	6.4 Center of mass of a system of particles 6.5 Center of mass of continuous mass distributions
2	6.6 Moments of Inertia 6.7 Work, fluid pressure, and average value
3	7.1 The general power formula 7.2 Log and exponential forms 7.3 Basic trigonometric forms
4	7.4 Other trigonometric forms 7.5 Inverse trig forms 7.6 Partial fractions
5	7.7 Integration using partial fractions 7.8 Integration by parts Exam I
6	7.9 Integration by trig substitution 7.10 Integration using tables
7	7.11 Numerical methods of integration 1.13 Polar coordinates 7.12 Areas in Polar coordinates
8	8.1 Functions in three space 8.2 Partial derivatives
9	8.3 Applications of partial derivatives 8.4 Double integrals Exam II
10	1.1 Vector in two and three dimensions 1.2 More about vectors
11	1.3 The dot product 1.4 The cross product
12	1.5 Equations of planes; Distance problems 1.7 New coordinate systems
13	11.1 Solving differential equations 11.2 Separation of variables
14	11.3 Use of exact differentials 11.4 Linea equations of the first order
15	11.5 Applications of first order differential equations