PRACTICAL INFORMATION

Class hours: MTWR 8:00 a.m.–10:50 a.m.
Class room: MCOM 353
Instructor: Arunabha Biswas
Office: MATH 302  E-mail: arunabha.biswas@ttu.edu
Office hours: MTWR 11:00 am–12:00 noon or by appointment

COURSE DESCRIPTION


Prerequisites: (at least a) C or higher in MATH 1352, MATH 1452, or a departmental consent.

Calculator: Calculators or other electronic devices are NOT allowed on any exams.

Expected learning outcomes: MATH 2450 satisfies the university core curriculum requirement in Mathematics: “Students graduating from Texas Tech University should be able to demonstrate the ability to apply quantitative and logical skills to solve problems.” It meets the TTU general education student learning outcomes for mathematics that students will: (i) apply arithmetic, algebra, geometric, statistical and logical reasoning to solve problems, (ii) represent and evaluate basic mathematical and/or logical information numerically, graphically, and symbolically, (iii) interpret mathematical and/or logical models such as formulas, graphs, tables and schematics, and draw inference from them.

Students develop skills in differentiation and integration needed to solve problems in 3-D space. In particular, students will master the following concepts: (i) tangent and normal vectors, and their geometric and physical interpretations, (ii) partial derivatives, tangent planes, directional derivatives, and gradients, and how to compute them, (iii) 3-D integration and how to compute such integrals, (iv) vector fields, divergence and curl, and certain applications to the real world and other sciences.

COURSE ORGANIZATION


Methods of Assessment of Expected Learning Outcomes: There will be one in-class exam, and a comprehensive final exam.

Homework: There will not be any graded homework.

Grading policy: On in-class exam and final, partial credit for correct steps will be awarded even if the final answer is wrong. Full credit will be given only if the final answer and all intermediate steps are correct. A correct final answer per se does not guarantee any credit.

Deadlines and make ups: In-class exam cannot be made up; the final exam serves as make-up for test that was missed for legal and documented reasons.

Final grade: There will be NO extra credit assignments in this course. Only exams are counted towards the final grade with weights as follows: Attendance 20%, in-class exam 40%, and final exam 40%.
Grading scale: A: 90-100%, B: 80-89%, C: 70-79%, D: 60-69%, F: below 60.

Important Dates:

- Last day for student-initiated drop on MyTech without penalty: Friday, July 11
- **Exam 1**: Tuesday, July 22
- Last day for student-initiated drop on MyTech with penalty: Monday, July 28
- **Final Exam**: Wednesday, August 6, 8:00 a.m.–10:30 a.m.

GENERAL POLICIES

**Texas Tech Operating Policies and Procedures:** The following three items are brief excerpts. The complete policies are available at [http://www.depts.ttu.edu/opmanual](http://www.depts.ttu.edu/opmanual).

**Academic Honesty (OP 34.12)** It is the aim of the faculty of Texas Tech University to foster a spirit of complete honesty and high standard of integrity. The attempt of students to present as their own any work not honestly performed is regarded by the faculty and administration as a most serious offense and renders the offenders liable to serious consequences, possibly suspension.

**ADA Accommodation (OP 34.22)** Any student who because of a disability may require special arrangements in order to meet course requirements should contact the instructor as soon as possible to make any necessary accommodations. Student should present appropriate verification from AccessTECH. For additional information, please contact Student Disability Services in West Hall or call 806-742-2405.

**Absence for Observance of Observation of Religious Holiday (OP 34.19)** A student who is absent from classes for the observance of a religious holy day shall be allowed to take an examination or complete an assignment scheduled for that day within a reasonable time after the absence. A student who is excused may not be penalized for the absence; however, the instructor may respond appropriately if the student fails to complete the assignment satisfactorily.

**Class Attendance Policy:** Student with perfect attendance will gain 20 points, students with 1 to 3 absences will gain 10 points and students with more than 3 absences will gain 0 point towards their final scores for the course. These points are not additional points since attendance is part of the grading. Absences due to observation of religious holidays, officially approved trips and illness or death of close family will be handled separately in accordance with the TTU Operating Policies (OP codes) and the TTU Catalog.

**Student Resources:** The “Tutoring and Study Center” (TSC) is a free tutoring center operated by the Department of Mathematics and Statistics. It meets in MATH 106.

**Disclaimer:** This syllabus outlines the general procedures of operation and guidelines specific to MATH 2450-201 Calculus III Summer II 2014. The instructor reserves the right to make amendments to the syllabus for the benefit of the students in accordance with the rules and regulations of the Texas Tech University and the Department of Mathematics and Statistics.