PRACTICAL INFORMATION

Class hours:  MWF 1:00 p.m.–1:50 p.m. & M 12:00 noon–12:50 p.m.
Class room:  MATH 111 (MWF) & MATH 017 (M)
Instructor:  Arunabha Biswas
Office:  MATH 302  E-mail: arunabha.biswas@ttu.edu
Office hours:  TWRF 10:30 am–11:30 am 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 homework, three in-class exams, and a comprehensive departmental common final exam.

Homework:  Homework will be assigned every Friday through WeBWorK. Students will get two weeks time to finish each. The WeBWorK URL for this course is: [http://webwork.math.ttu.edu/webwork2/f14abiswasm2450s008](http://webwork.math.ttu.edu/webwork2/f14abiswasm2450s008). Use your eRaider ID as username and R-number (including the R) as password in order to login to WeBWorK. For detailed instructions visit: [http://www.math.ttu.edu/~gilliam/ttu/math_online/intro_2_webwork.pdf](http://www.math.ttu.edu/~gilliam/ttu/math_online/intro_2_webwork.pdf) and [http://www.math.ttu.edu/~gilliam/ttu/math_online/Enter_Answers_WebWork.pdf](http://www.math.ttu.edu/~gilliam/ttu/math_online/Enter_Answers_WebWork.pdf)

Grading policy:  On in-class exams 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 exams cannot be made up; the final exam serves as make-up for exams that were missed for legal and documented reasons. Deadlines for the homework are fixed.
**Final grade:** There will be **NO extra credit** assignments in this course. Homework and exams are counted towards the final grade with weights as follows: Homework 15%, in-class exams 60% (20% each), and final exam 25%.

**Grading scale:** A: 90-100%, B: 80-89%, C: 70-79%, D: 60-69%, F: below 60%.

**Important Dates:**

- Labor Day Holiday: Monday, September 1
- Last day for student-initiated drop on MyTech without penalty: Wednesday, September 10
- **Exam 1:** Monday, September 22
- **Exam 2:** Monday, October 13
- Last day for student-initiated drop on MyTech with penalty: Monday, October 27
- **Exam 3:** Monday, November 10
- Thanksgiving holiday: Wednesday, November 26 – Sunday, November 30
- **Final Exam:** Tuesday, December 9, 10:30 a.m. – 1:00 p.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:** Students with less than 4 absences will gain 3 points and students with more than 3 absences will lose 3 points towards their final scores for the course. 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 2450-008: Calculus III With Applications – Fall 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.