

# Syllabus for Calculus III

## Fall 2015

**Course:** MTH 2321-05 – Calculus III

**Time:** TR 11:00–12:15

**Room:** SDRICH 344

**Instructor:** Dr Jon Harrison

**Email:** jon.harrison@baylor.edu

**Office:** SDRIC 332C

**Phone:** (254) 710–3723

**Office hours:** 2–3 MW, 10–11 TWR and by appointment.

### Course Description

(CREDIT 3) The course introduces vectors in the plane and in space, vector valued functions and partial derivatives. Multiple integrals are defined and used to calculate areas, volumes and the center of mass. The course concludes with vector calculus including Green's theorem, Stokes theorem, and the divergence theorem.

**Prerequisite:** A grade of C or above in MTH 1322.

**Course Text:** *Calculus: Early Transcendentals, Multivariable*, 2nd edition, by J. Rogawski, published by W.H. Freeman, ISBN: 978-1429231879.

### Grading

Your grade will be determined by three in class exams, a final exam, homework and quiz grades. These are weighted to give the final grade. Calculators are not permitted in exams.

	Homework	Quizzes	Exam I	Exam II	Exam III	Final Exam
Weight	5%	10%	20%	20%	20%	25%
Date			Sep 24	Oct 29	Dec 3	Sat Dec 12, 4:30pm

The grade in the final will replace the lowest exam grade if it is higher and the lowest two quiz and homework grades will be dropped from the average.

**Course grades:** A(91–100%), A-(89–90%), B+(87–88%), B(81–86%), B-(79–80), C+(77–78%), C(71–76%), C-(69–70%), D+(67–68%), D(61–66%), D-(59–60%), F(0–58%).

**Study guide:**

- Review material to be covered in the textbook before class.
- Expect to spend a minimum of six hours studying outside class.
- Participate in class, ask lots of questions.
- Take good notes in class. Keep notes and homework legible and well organized so they are easy to study from.
- Do homework as soon as it is assigned.
- Review graded homework and tests.
- Before attempting homework problems reread your notes from class.
- Resist the temptation to look at an answer until you have written your own solution.
- Mathematical reasoning and clear communication are as important as computations. For full credit, you need to show well organized work with notation used correctly.
- To prepare for the exams review the course material and homework problems. Try to simulate the exam by preparing lists of problems that cover the material and decide if you can work through them without assistance. Start reviewing at least a week before the test.
- Help others, explaining the material will also help you understand it. Form a study group.
- When it is not possible to make it to office hours there is free tutoring available in the MATH LAB, SDRICH 326 3–5 MTWF and 6–8 MTWR.

**Attendance:** University policy requires that to earn credit in a course the student must attend at least 75% of all class meetings. Any University-related activity necessitating an absence from class shall count as an absence when determining whether a student has attended the required 75% of class meetings.

**Make-up policy:** Make-ups for missed quizzes and exams will only be allowed for a university approved excuse in writing. Wherever possible, students should inform the professor before an exam or quiz is missed. Students are required to notify the professor by the end of the next working day after missing an exam or quiz. Otherwise, they forfeit their rights to a make-up.

**Scholastic dishonesty:** Copying work done by others, either in-class or out of class, is an act of scholastic dishonesty and will be prosecuted to the full extent allowed by the academic integrity and honor code. Collaboration on assignments, either in-class or out-of-class, is forbidden unless permission to do so is granted. The academic integrity and honor code is available on the web <http://www.baylor.edu/honorcode/>.

**Students with disabilities:** Any student with a documented disability needing accommodations should contact the Office of Access and Learning Accommodation (OALA). The student is responsible for obtaining appropriate documentation and information regarding needed accommodations from the OALA and providing it to the professor early in the semester. The OALA phone number is (254) 710-3605 and the office is in SDRIC.