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# Math 323: Calculus III

## Fall 2009

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Dr. Chris Tweddle  
317 Koch Center  
488-1161  
ct55@evansville.edu

Sections 1 & 2  
MTRF 12–12:50 and 1–1:50 PM  
126 Koch Center  
<http://faculty.evansville.edu/ct55>

**Course Description.** Covers vectors and analytic geometry in space, vector-valued functions, functions of several variables and their derivatives, multiple integration, line and surface integrals, and analysis of vector fields. Prerequisite: Grade of C- or better in Mathematics 222.

**Course Objectives.** This course is intended to develop proficiency in the essential techniques of calculus; to develop the abilities to apply these techniques and concepts to real-world problems; to improve overall critical thinking and problem solving abilities; to learn to communicate mathematics both in writing and orally; and to learn how to use technology, such as the software package DERIVE, to solve problems.

**Required Text.** James Stewart, *Calculus: Early Transcendentals*, 6th edition, Thomson, Brooks/Cole, 2008.

**Graphing Calculators.** Graphing calculators may be used in this course, but are not required. Calculators with computer algebra systems, such as the TI-89 and the TI-92, **are not allowed**.

**Computer Use.** We will use computer applications (e.g., DERIVE, Excel) as a tool to help learn the material. However, the computers in the classroom are only to be used during class when students are instructed to do so, and only the application students are instructed to use should be open. There is to be absolutely no web-browsing, instant messaging, e-mailing, working on computer assignments for other courses, or other use of the computers during class. Using the computers at inappropriate times distracts both your classmates and your instructor.

**Office Hours.** I will be available in my office at the following times: MTRF 11–11:50 AM, MF 2–4 PM, TR 4–5 PM; additional times can be arranged by appointment.

**Attendance.** Students are expected to attend class. You are responsible for any information (including announcements) that you miss. The course website will have up-to-date information. Arriving late or leaving early, reading the newspaper, text-messaging, etc. disrupts the class and is rude and unprofessional.

**Course Grades.** Your grade in the course will be based on the 700 points described below. The class will be graded on a ten point scale; pluses and minuses will be influenced by such factors as attendance and participation.

**Exams.** There will be three in-class exams, worth 100 points each; dates will be announced at least two weeks in advance. A cumulative final, worth 150 points, will be given on Friday, December 11 at 10:15 AM. *Note that this time differs from that given in the Fall Course Schedule.*

**Quizzes.** There will be a minimum of twelve ten-point quizzes given throughout the semester; the highest ten scores will count towards your final grade. Generally, quizzes will be given during weeks that we do not have an exam; quizzes may or may *not* be announced.

**Projects.** Two projects worth 25 points each will be assigned for completion outside of class. The projects will be graded based on both mathematical accuracy, and written explanation and analysis of the solution.

**Homework.** Exercises will be assigned to accompany the material covered in class. Homework will not be collected; however, you *may* see similar problems on the tests and quizzes. Completion of the assignments is essential to success in this class. There will be ten online homework assignments, each worth ten points. The assignments will be given on Calculus on the Web (COW) at <http://cow.math.temple.edu/>. You may be called upon to present solutions to the homework exercises at the board.

**Make-up Policy.** An opportunity to make up missed work will only be granted in the event of a *documented* emergency or illness. **There will be no opportunity to make up a missed quiz or exam, if I am not contacted prior to the exam or quiz.** If you anticipate a conflict with an announced exam, speak with me **before** the scheduled date. Make-ups will not be granted, regardless of the circumstances, to students with excessive absences.

**Extra Credit.** There will be no extra credit assignments.

**Academic Honesty.** Giving or receiving help on quizzes or exams will not be tolerated. We will follow the University's honor code, which reads "I will neither give nor receive unauthorized aid nor will I tolerate an environment which condones the use of unauthorized aid." Collaboration on homework assignments and projects is encouraged; note that work to be submitted for a grade should be your own and not copied from a fellow student.

**Students with Disabilities.** It is the policy and practice of the University to make reasonable accommodations for students with properly documented disabilities. Written notification to faculty from the Office of Counseling and Health Education is required for any academic accommodations. If you are eligible to receive an accommodation and would like to request it for this course, please discuss it with me and allow two weeks notice. If you have questions about services for students with disabilities or procedures for requesting services, you may contact the Office of Counseling and Health Education at 488-2663.

**Disclaimer.** I reserve the right to change the dates and policies outlined above at my discretion. Any changes will be announced well in advance.