Syllabus

Course:	MATH 2574C: Calculus III		Email:	`lutes@uark.edu`
Term:	First 8 Week Summer Session, 2014		Office:	SCEN 224
Instructor:	Dr. Brad A. Lutes		Office Hours:	TBD; also by appointment

Prerequisite

Successful completion (C or better) of Calculus II.

Text

Calculus: Early Transcendentals, by Briggs and Cochran (Pearson), Chapters 10 through 14.

This course is managed through MyLabsPlus (Pearson Publishing). You are required to purchase access (if you don't already have it) to this text and this software, and complete the on-line homework.

Course Topics

- Vectors and vector-valued functions

- Functions of several variables and spatial geometry

- Partial differentiation and applications of the derivatives

- Multiple integration and applications

- Vector analysis and applications to physics

Course Goals

- Approach problems numerically, graphically, analytically, and verbally

- Expand problem-solving skills

- Apply the ideas and methods of mathematics

- Appreciate mathematics as a study in itself and as part of the language of science

Student Responsibilities

Attendance is expected. You must complete all assignments on time and are responsible for all that transpires in class whether or not you are there. Assignments are due **before** class starts.

Graphing calculators, wireless devices, or devices with QWERTY keyboards will *not* be allowed on quizzes or tests.

Like all mathematics, calculus is not a spectator sport – you will learn only by doing!

Tutors are available through the Enhanced Learning Center. You are also encouraged to take advantage of my office hours, send e-mail, drop in, or make an appointment to see me.

Please come prepared to office hours. Try to formulate specific questions to ask, or show me where you got stuck in solving a problem. It will make our time more effective.

Your work will be graded on its content. Effort is not explicitly rewarded, because effort is expected.

You must have my permission to record lectures, and you may NOT publish them or post them on-line.

Grading

General guidelines for letter grades (subject to change but they won't get any more strict):

$$90 - 100\% \dashrightarrow \text{A}; \ 80 - 89\% \dashrightarrow \text{B}; \ 70 - 79\% \dashrightarrow \text{C}; \ 60 - 69\% \dashrightarrow \text{D}; \ \text{below } 60\% \dashrightarrow \text{F}$$

1. **COMPREHENSIVE FINAL EXAMINATION: 20%** Be present and prepared. This is *not* a course-wide final, but it is comprehensive.

2. **CLASSWORK: 20%** There will be homework, both paper and electronic. There will also be quizzes.

3. **EXAMINATIONS: 60%** I will give three in-class examinations each worth 20% of the course grade. THERE ARE **NO** MAKEUPS. If you miss a test, notify me AS SOON AS POSSIBLE.

Academic Integrity

As a core part of its mission, the University of Arkansas provides students with the opportunity to further their educational goals through programs of study and research in an environment that promotes freedom of inquiry and academic responsibility. Accomplishing this mission is only possible when intellectual honesty and individual integrity prevail.

Each University of Arkansas student is required to be familiar with and abide by the University's Academic Integrity Policy which may be found at `http://provost.uark.edu/` Students with questions about how these policies apply to a particular course or assignment should immediately contact their instructor.

Special Accommodations

Students who are registered with the Center for Educational Access must notify the instructor in writing by the end of the first week of class, or within one week of registering with CEA.

I also require ADVANCE notice (at least one week) of University-related absences which affect exams or other assignements. If you are (for example) a student-athlete, please keep me regularly and promptly informed of your scheduled absences.

Inclement Weather Policy

Class will meet unless the University is closed. On-campus students are expected to be present. Off-campus students should make their own decisions in the best interests of personal safety. Off-campus students will not be penalized for being absent on the days the Fayetteville Public Schools are closed due to weather. If attendance is *severely* affected by weather, deadlines of exam dates may be adjusted.

Disclaimer

I RESERVE THE RIGHT TO MAKE CHANGES TO THE SYLLABUS DURING THE SEMESTER. If changes are made, you will be notified of the changes in class, it will be posted on the MyLabsPlus homepage, and/or an email will be sent to your University email address. It is your responsibility to check your email regularly and to check for postings in the MLP course page.

Calendar

The following is a tentative schedule. (Any changes will be announced.)

Sun	Mon	Tue	Wed	Thu	Fri	Sat
May 25	26 No class	27 11.1 and 11.2	28 11.3 and 11.4	29 11.5	30 11.6	31
June 1	2 11.7	3 11.8	4 11.9	5 Review	6 Exam 1	7
8	9 12.1	10 12.2	11 12.3	12 12.4 and 12.5	13 12.6	14
15	16 12.7	17 12.8	18 12.9	19 Review	20 Exam 2	21
22	23 Ch. 10 Review	24 13.1	25 13.2	26 13.3	27 13.4	28
29	30 13.5 (13.6 if time)	July 1 13.7	2 Review	3 Exam 3	4 No class	5
6	7 14.1 and 14.2	8 14.3	9 14.4	10 14.5	11 14.6	12
13	14 14.7	15 14.8	16 14.9	17 Final	18	19