

## MATH 2574C – Calculus III

Summer 2014

INSTRUCTOR: Dr. Heather Griffin

OFFICE HOURS: Monday-Thursday 12:30-2:00 in SCEN 218

CONTACT: [hgriffi@uark.edu](mailto:hgriffi@uark.edu)

**PREREQUISITE:** Successful completion (C or better) of Calculus II.

**TEXT:** *Calculus: Early Transcendentals*, by Briggs and Cochran (Pearson), Chapters 10 through 14. Graphing calculators, wireless devices, or devices with QWERTY keyboards will *not* be allowed on quizzes or tests.

*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 assigned 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. Collaborative learning is encouraged and will occasionally be required, but remember that only YOU will be taking the exams.

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

Tutors are available through the Enhanced Learning Center or the tutoring labs on the second floor of SCEN. 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!

Assignments are due **before** class starts.

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

I spend many hours carefully grading your assignments, in order to give you the best possible feedback on your progress toward mastery. Please read my comments!

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

### **GRADES:**

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

90-100% - A; 80-89% - B; 70-79% - C; 60-69% - D; below 60% - F

### **COMPREHENSIVE FINAL EXAMINATION: 20%**

Be present and prepared. This is *not* a course-wide final, but it is comprehensive. It is scheduled for July 17.

### **CLASSWORK: 20%**

Consists of Homework in MLP (10%) and in class Quizzes (10%)

### **EXAMINATIONS: 60%**

I will give three in-class examinations each worth 20% of the course grade. These will be announced at least one week in advance. **THERE ARE NO MAKE-UPS.** 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 assignments. 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.

I RESEVE 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.