

## MATH 2564: Calculus II

**Instructor:** Dr. Caleb Holloway

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**Office:** SCEN 221

**Office Hours:** M 12:30 – 1:30; TR 11:30 – 2:00

### Necessary Purchases

- MyLabsPlus Access Kit

**Textbook:** *Calculus: Early Transcendentals* by Briggs and Cochran. An electronic version of this book is included in your MLP access kit, so you are not required to purchase a hard copy.

### Prerequisites

Completion of Calculus I with a grade of C or better.

### Course Objectives

This course deals with a variety of topics in differential and integral calculus and their applications. By the end of this course, you should have developed new problem-solving and reasoning skills and the ability to approach a problem in a variety of ways, including analytically, graphically, and numerically. You will learn more of the methods of mathematics and its underlying ideas, be able to express mathematical concepts verbally and in writing, and gain an appreciation of mathematics both as part of the broader sciences and as a study in and of itself.

### Course Topics

Topics include integration techniques, applications of integration, sequences and series, differential equations, and linear algebra.

### Accessing your MyLabsPlus Account

See the MRTC master syllabus, available both on BlackBoard and at [mrtc.uark.edu](http://mrtc.uark.edu), for information on accessing your MyLabsPlus account, as well as other important information.

### Grading

|                         |     |               |     |
|-------------------------|-----|---------------|-----|
| <b>MLP Quizzes</b>      | 10% | <b>Exam 2</b> | 20% |
| <b>In-Class Quizzes</b> | 10% | <b>Exam 3</b> | 20% |
| <b>Exam 1</b>           | 20% | <b>Exam 4</b> | 20% |

## Homework

You will be assigned regular homework to help develop your understanding of topics in this course. Learning is an active process, so you must complete each assignment in a timely manner if you wish to succeed in this course. Your homework is assigned in two ways.

**Textbook:** Daily homework assignments from the textbook will be assigned each day in class. You are expected to have completed each assignment before the next day's class. These homework assignments will not be collected, and they do not contribute towards your course grade.

**Online:** There are sixteen homework assignments in MyLabsPlus, available from the first day of class until the last. Each assignment may be re-accessed after completion. You are encouraged to work each assignment more than once to gain a better understanding of the concepts in this course. Online homework does not contribute towards your course grade.

## Quizzes

Quizzes will be given periodically in class, except on test days. The number of quizzes is not predetermined; however, you should expect at least two per week. These quizzes are designed to test your understanding of the in-class homework assignments given out of the textbook.

### MLP Quizzes

There are sixteen quizzes in MyLabsPlus. Each quiz is available from the first day of class till the last. The quizzes are not timed, and you have an unlimited number of attempts at each quiz.

## Tests

There are four in-class tests. Only simple, scientific calculators are allowed during tests, although no calculator is actually required for tests. All other electronic devices should be silenced and placed out of sight during tests.

Please note that there are *no make-ups* for missed tests. If you must miss a test, let me know *as soon as possible*. If you have a legitimate, documented excuse, your grade may be recalculated without the missed test grade.

## Calculator

This course does not allow the use of graphing calculators. Simple scientific calculators, such as the TI-30XIIS or the TI-30XA, are allowed during tests but not required. Any graphing calculator, as well as any calculator with a differentiation or integration function, will not be allowed.

## Other Technology

Use of other technology, such as cell phones, laptops, and tablets, is permitted during lecture provided they are being used for activities related to class, such as note-taking or reading from

the online textbook. You should not use your device to check Facebook, play games, or work on assignments for other classes during class.

### **Extension Policy**

No extensions will be given for any in-class assignment. If you must miss a test, let me know *as soon as possible*. If you have a legitimate, documented excuse, your grade may be recalculated without the missed test grade.

### **Technical Difficulties**

Your MLP assignments may be taken from any computer with internet access. It is your responsibility to complete these assignments before the end of the term. Neither your instructor nor the MRTC can be held accountable if you are unable to complete an assignment due to some technical problem, including (but not limited to) the following: computer errors, power outages, loss of internet, or problems with the MLP website. For help with dealing with such problems, see the MRTC master syllabus.

### **Accommodations**

Under University policy and federal and state law, any student with documented disabilities is entitled to reasonable accommodations to ensure the student has an equal opportunity to perform in class. If you have such a disability and need special academic accommodations, please report to Center for Educational Access (CEA). Reasonable accommodations may be arranged after CEA has verified your disability. You must discuss your accommodations with your instructor as soon as possible. To receive accommodation this must be done at least a week before you take an exam. Do not hesitate to contact your instructor or a member of the MRTC Staff if any assistance is needed in this process.

### **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.

### **Etiquette**

Each student is expected to help foster a positive learning environment in the class. Talking and distractive behavior during class will not be tolerated. Wait until class is over before packing up,

as it is frustrating to both the instructor and fellow students when people begin making noise before class has ended. Be supportive of your fellow students when they have questions.

When communicating with your instructor, be sure to use appropriate language for an educational environment. Appropriate language includes complete sentences; proper spelling and grammar; and the avoidance of slang, uncommon abbreviations, and obscene or threatening language. When emailing your instructor, you *must* include your complete name, as well as your class name lecture time.

### More Information

Information on the inclement weather policy, emergency procedures, and accessing your MLP account can be found in the MRTC master syllabus, available on Blackboard and at [mrtc.uark.edu](http://mrtc.uark.edu). Information on testing procedures can be found on Blackboard and at [mrtc.uark.edu](http://mrtc.uark.edu).

### Help with this Course

You can work on your homework and study plan in the computer lab in SCEN 209, where there are tutors on hand to help you if you need it. Lab hours are posted at [mrtc.uark.edu](http://mrtc.uark.edu). (Note that the lab location will change at some point this term when the MRTC moves to Champions Hall. You will be notified when this change takes place.)

### Schedule

|                    |                   |                    |                    |
|--------------------|-------------------|--------------------|--------------------|
| Tuesday, May 26    | Section 7.1       | Monday, June 22    | Section 8.4        |
| Wednesday, May 27  | Section 7.2       | Tuesday, June 23   | Section 8.4        |
| Thursday, May 28   | Section 7.3       | Wednesday, June 24 | Section 8.5        |
| Friday, May 29     | Review            | Thursday, June 25  | Section 8.5        |
| Monday, June 01    | Section 7.4       | Friday, June 26    | Section 8.6        |
| Tuesday, June 02   | Section 7.7       | Monday, June 29    | Section 8.6        |
| Wednesday, June 03 | Review            | Tuesday, June 30   | Review             |
| Thursday, June 04  | <b>Exam 1</b>     | Wednesday, July 01 | <b>Exam 3</b>      |
| Friday, June 05    | Sections 6.1, 6.2 | Thursday, July 02  | Sections 9.1, 9.3  |
| Monday, June 08    | Section 6.3       | Friday, July 03    | Holiday – No Class |
| Tuesday, June 09   | Section 6.4       | Monday, July 06    | Section 9.2        |
| Wednesday, June 10 | Review            | Tuesday, July 07   | Section 9.4        |
| Thursday, June 11  | Section 6.5       | Wednesday, July 08 | Review             |
| Friday, June 12    | Section 6.6       | Thursday, July 09  | LA 1, 2            |
| Monday, June 15    | Sections 6.7, 6.8 | Friday, July 10    | LA 3               |
| Tuesday, June 16   | Review            | Monday, July 13    | LA 4, 5            |
| Wednesday, June 17 | <b>Exam 2</b>     | Tuesday, July 14   | LA 6               |
| Thursday, June 18  | Sections 8.1, 8.2 | Wednesday, July 15 | Review             |
| Friday, June 19    | Section 8.3       | Thursday, July 16  | <b>Exam 4</b>      |