Professor: Dr. Pamela Richardson

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Office Hours: M 2:00-4:00PM (Drinko), W 2:00-4:00PM (Drinko), R 1:00-3:00PM (Hoyt), or by appointment

Prerequisite:

A solid foundation in algebra and trigonometry is required for this course. If you are concerned about your mathematical background, please see me.

Text:

*Calculus, 8th Edition*, by James Stewart. Your online homework system comes with access to an e-copy of this book. Anyone who wishes to purchase an additional hard copy may do so.

Course Description:

This course will focus on the fundamentals of differential calculus. Topics considered include functions, limits, continuous functions, differentiation and integration of functions of one real variable, applications of differentiation, and the Fundamental Theorem of Calculus.

Course Outcomes:

In this course, students will learn a foundation of mathematics which will give them insight into the mathematics and/or computer science considered in other courses, including the sciences. By the end of the course, students should be able to

1. Apply concepts and skills introduced in class to solve new problems.
2. Use proper mathematical notation and correct presentation of mathematical ideas.
3. Demonstrate an understanding of calculus concepts, including limits, continuity, and differentiability.
4. Develop, apply, analyze, and draw inferences from mathematical models.
5. Evaluate the validity of numerical and critical arguments.
Attendance:

Attendance is very important in this course. If you must miss class, you are responsible for all material covered and announcements given in class. Any materials distributed to the class will be posted on WebAssign (under “Resources”). This course will be a collaborative learning experience. It is extremely important that you are not only present physically in class but that you are actively participating in all class activities. Our class time will be spent in a variety of ways. In most sessions, new material will be presented by the professor, typically during the first half of class. The students will then break into groups of at most 3 to work together on problems designed to deepen the understanding of this new material. These in-class problems often contain major results and ideas, so it is important to complete as many of them as possible, even if you need to finish them outside of class time. The use of cellular phones and other internet-connected devices is strictly prohibited during class time unless permission is given by the instructor.

Homework:

This course will utilize an online homework system called WebAssign. Each student must enroll in our WebAssign course to complete the homework (www.webassign.net, class key is westminster 9147 8098). You will need to purchase access to WebAssign through the site www.webassign.net or by purchasing an access code from the bookstore.

You will have assignments due on WebAssign each Monday and Thursday at 9:00PM. Each time you submit answers to be graded, WebAssign will tell you whether your answers are correct or incorrect. Unless told otherwise, you may submit each problem up to five times before it is due. Absolutely no submissions may be made past the deadline. Each assignment will be weighted equally in the calculation of the final homework grade, although the number of problems will vary on each assignment. Every student may drop the lowest three scores from their final grade to allow for any unusual circumstances (illness, sports activities, technical problems, internet outages, etc.). More details on how to use WebAssign will be distributed shortly.

Note that the homework is designed to give you practice for the exams. To be successful in this course, you MUST be able to complete the problems on your own, without assistance from others. While it is fine to get help initially, you must eventually master each problem on your own!

In addition to the problems I assign, I expect you to read Stewart as part of your daily assignment. Reading assignments will be posted in Webassign under the “Reading Assignments” forum. Reading the assigned pages before coming to class will greatly improve your understanding of the material covered each day. You may be occasionally asked to complete problems from the text in addition to the WebAssign homework.
Quizzes:

We will frequently have in-class quizzes, including brief (approximately 15 minute) individual quizzes on reading assignments and/or previous homework problems as well as longer group quizzes. **Quizzes will not always be announced ahead of time**, so be sure to keep up with your work! The lowest quiz score will be dropped to allow for any unusual circumstances, and therefore **no makeup quizzes will be given**.

Exams:

There will be three written midterm exams and a comprehensive final exam. **No calculators may be used on exams.** The **tentative** dates of the midterm exams are as follows:

- Friday, September 21
- Friday, October 19
- Monday, November 19

Makeup exams may only be given if both Dr. Richardson and Dean McMinn approve the reason and alternate arrangements are made BEFORE the exam is given in class.

The final exam will be held on **Thursday, December 13th, from 8:00-10:30 AM.**

Course Grades:

Your course grade will be determined by the following distribution:

- Participation & Engagement:  4
- Homework: 10%
- Quizzes: 10%
- Midterm Exams: 18% each
- Final Exam: 22%

The grading scale will be:

- B+: 88-89
- C+: 78-79
- D+: 68-69
- A: 92-100
- B: 82-87
- C: 72-77
- D: 62-67
- F: 0-59
- A-: 90-91
- B-: 80-81
- C-: 70-71
- D-: 60-61

Academic Integrity:

*Central to the purpose and pursuit of any academic community is academic integrity. All members of the Westminster community, including students, faculty, staff, and administrators, are expected to maintain the highest standards of honesty and integrity, in keeping with the philosophy and mission of the College.*

Westminster College 2017-18 Undergraduate Catalog, p. 65
Some forms of academic dishonesty include (but are not limited to): copying a classmate’s work (homework, quizzes, or exams), divulging answers or information to another student during or about an exam or quiz, and using unauthorized aids (e.g., solution manuals, internet sites, etc.) on an assignment, quiz, or exam. Please note that **presenting a solution found online as your own work is plagiarism**. Academic dishonesty will not be tolerated in this class. The penalty for academic dishonesty is a grade of 0 on the assignment. Any event of academic dishonesty is reported to the Dean of the College. Other details of violations and consequences are given in the Catalog.

**Students with Disabilities:**

Westminster College actively strives for the full inclusion of all our students. Students with disabilities who require access solutions for environmental or curricular barriers should contact Faith Craig, Director of Disability Resources, located in 414 Thompson-Clark Hall. You may reach her at 724-946-7192 or craigfa@westminster.edu. No accommodations can be given without documentation from the Disability Resources Office.

**Important Dates:**

- 9/3: Last Day to Add/Drop
- 9/21: Exam 1
- 10/19: Exam 2
- 10/27-10/30: Fall Break - No Classes
- 11/2: Last Day to Withdraw
- 11/19: Exam 3
- 11/21-11/25: Thanksgiving Break - No Classes
- 12/7: Classes End
- 12/13: Final Exam