Calculus 3 – MTH 250
Fall 2018

Instructor: Dr. Natacha Fontes-Merz
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Class Meetings: MWF 9:20-10:20 HSC 206
Office Hours: MWF 10:30-11:30, TR 9:00-10:00, and by appointment

Prerequisite: In order to enroll in this course, you need to have a C- or higher in MTH 152, a 4 or 5 on the AP BC exam, or the equivalent.

Course Description: MTH 250 is the last calculus course offered at Westminster College. Some of the topics we will cover in this course include the geometry of three dimensional space, vector functions, partial derivatives, directional derivatives, multiple integrals, Green’s Theorem, and (if time permits) Stokes’ Theorem.

Objectives and Outcomes: By the end of this course, you should have a good understanding of how single variable calculus concepts, such as the derivative and the integral, can be extended to a multivariable setting. This course should further your mathematical maturity and help prepare you for Linear Algebra. In this course you will continue to improve your ability to read, understand, and write mathematics.

Grading

Grading scale:

3 Tests (100 pts. each) ---------------300 points
Cumulative Final Exam ---------------100 points
Homework-----------------------------100 points

92 - 100 --------------A
90 - 91---------------A-
88 - 89----------------B+
82 - 87----------------B
80 - 81----------------B-
78 - 79---------------C+
72 - 77---------------C
70 - 71---------------C-
60 - 69----------------D
Below 60---------------F

Reading: It is very important to read the textbook. Investing a few hours reading and understanding each section will help you solve your homework problems more efficiently and will help you to understand the subject better. You will be responsible for the material in the sections of the textbook which we cover in class.

Homework: Homework will be online (www.webassign.net). The class key for WebAssign is westminster 8886 5326. In the instructions box for each assignment, you will be given the number of tries you have for each problem (usually 5). Homework will be due at 9:00 pm on the days underlined in the tentative schedule. If you ever have any problems using WebAssign, please let me know. Since your two lowest homework scores will be dropped, homework will not
be accepted late. Also, since your homework problems are online, you may want to copy them in a notebook, along with your work, to use when studying for exams.

Download and start the problems the day they are assigned. If you have internet problems the night the assignment is due and have failed to start the assignment early, you will not be given an extension.

Homework for each section is equally weighed (I average your percentage scores for each section so that point values are arbitrary).

**Exams:** Tests are tentatively scheduled for the following days: **Monday, September 24, Monday, October 22, and Monday, November 19.** Your final exam is cumulative and is scheduled **Tuesday, December 13, 8:00 – 10:30 AM.** Calculators are not permitted on exams. Any deviation from these dates will be announced in class. It is your responsibility to be in class and know when the exams will be given. The following is the college’s official stance on absences from examinations:

Absence from an announced examination results in a failing grade for the examination, unless suitable arrangements are made for a special examination. A student who seeks such a privilege should petition the instructor in writing prior to the scheduled examination date. If the instructor considers that the petition should be granted, then a note to the effect is added and the petition is presented to the dean of the College. The examination may be given only if the dean also approves the petition.

*Westminster College 2017-18 Undergraduate Catalog, p. 65*

Therefore, a make-up exam is given only if it is previously approved by the dean. In the case of illness, a medical excuse should be attached to the petition.

**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 or exams), divulging answers or information to another student during an exam, using unauthorized aids (e.g., using the internet to find answers to homework problems). Academic dishonesty will not be tolerated in this class. The penalty for academic dishonesty is minimally the grade of 0 on the assignment and, except for unusual circumstances, a grade of F for the course. Any event of academic dishonesty is reported to the Dean of the College. Other details of violations and consequences are given in the Catalog, beginning on page 65.

**Accessibility Statement:** 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. phone: 724-946-7192
Tentative schedule

M Aug. 27 12.1
W Aug. 29 12.2
F Aug. 31 12.3

M Sept. 3 12.4, Homework due
W Sept. 5 12.5
R Sept. 6 Homework due
F Sept. 7 10.5

M Sept. 10 12.6, Homework due
W Sept. 13 13.1
R Sept. 14 Homework due
F Sept. 15 13.2

M Sept. 17 13.3, Homework due
W Sept. 19 13.4
R Sept. 20 Homework due
F Sept. 21 Catch-up

M Sept. 24 EXAM 1
W Sept. 26 14.1
F Sept. 28 14.2

M Oct. 1 14.3, Homework due
W Oct. 3 14.4
R Oct. 4 Homework due
F Oct. 5 14.5

M Oct. 8 14.6, Homework due
W Oct. 10 14.7
R Oct. 11 Homework due
F Oct. 12 14.8

M Oct. 15 14.8, Homework due
W Oct. 17 15.1
R Oct. 18 Homework due
F Oct. 19 Catch-up

M Oct. 22 EXAM 2
W Oct. 24 15.2
R Oct. 25 Homework due
F Oct. 26 15.3

M Oct. 29 BREAK
W Oct. 31 15.4
R Nov. 1 Homework due
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