

MATH 170- Calculus 1

Fall 2014

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Office Hours: MWF 12:30 - 1, 4-4:30 PM and by appointment

COURSE MATERIALS - The text to be used will be *CALCULUS, SINGLE VARIABLE*, second edition, W.H. Freeman and Company, 2012. In addition, all students are expected to have a graphing calculator for continuing use through the term. We recommend the TI-83plus or TI84; instructions will be provided on these calculators, but students may use a comparable calculator.

COURSE GOALS - You will be learning the mathematical language of change. In particular, you will learn differentiation methods and the concepts behind them, concepts of integration and how to work with functions graphically, algebraically, numerically, and verbally. You will also learn how to apply these methods to real world problems and how to discuss and present solutions to mathematical problems in written and oral form.

EXAMS - We will have three in class exams and a final exam. The dates for the in class exams are tentatively scheduled on the homework assignments page. Make-up exams are given only in extreme, pre-approved cases. Consult AMOS regarding the final exam date and time.

PROFICIENCY TESTS - In addition to the regular exams there will be two proficiency exams: a Limit proficiency and a Derivative proficiency. If you receive a score of 80% or higher then that will be your recorded score. If you receive less than an 80%, then your recorded score will be 0. You may retake the exam as often as you like within 4 weeks of the original exam date and your highest score you can achieve will be 80%.

The Limit Proficiency test is scheduled for Wednesday, September 10, and retakes may be done through October 15. The Derivative Proficiency test is scheduled for Monday, October 20 and retakes may be done through November 21.

ATTENDANCE/HOMEWORK - Class attendance is required.

Each day there will be homework assigned. It is vital that you do all the homework problems assigned; you should keep all your work in a binder or notebook for reference. For every hour in class you should expect to spend 2 hours doing work outside of class. You cannot learn Math without lots of practice!

This semester we will have access to the computer homework system WeBWork. Through it, you may practice problems from any section of our course and it should assist you in preparing for all the exams. More details on the use of this system will be provided in class handouts.

EVALUATION and GRADING - Grades will be computed based on the following weights below:

Culture Points - 4%

Homework & Attendance - 10%

Limit Prof. exam - 6%

Derivative Prof. exam - 10%

In class exams - 15%

Final exam - 25%

The following grading scale is used when assigning your final grade,

93-100 A 83-86 B 73-76 C 63-66 D

90-92 A- 80-82 B- 70-72 C- 60-62 D-

87-89 B+ 77-79 C+ 67-69 D+ 0-59 F

DISCLAIMERS - The syllabus is subject to change throughout the semester. Any updates will be announced in class. The instructor reserves the right to apply qualitative judgment in determining final grades for the course.

LEARNING DISABILITY ACCOMMODATIONS - Students who wish to request accommodations in this class for a disability must contact Ms. Elaine Mara, assistant director of academic support services for academic and disability support, at the lower level of Monocacy Hall, or by calling 610-861-1401. Accommodations cannot be provided until authorization is received from the Academic Support Center.

MATHEMATICS DEPARTMENT ACADEMIC HONESTY POLICY -

The Mathematics and Computer Science Department supports and is governed by the Academic Honesty Policy of Moravian College as stated

In the Moravian College Student Handbook. The following statements will help clarify the policies of members of the Mathematics faculty. In all homework assignments which are to be graded, you may use your class notes and any books or library sources. When you use the ideas or thoughts of others, however, you must acknowledge the source. For graded homework assignments, you may not use a solution manual or the help, orally or in written form, of an individual other than your instructor. If you receive help from anyone other than your instructor or if you fail to reference your sources, you will be violating the Academic Honesty Policy of Moravian College. For homework which is not to be graded, if you choose, you may work with your fellow students. You are responsible for understanding and being able to explain the solution of all assigned problems, both graded and not graded.

NOTE: This syllabus is a guideline for the course. It may be necessary to make changes during the semester. I will announce any changes in class.

MATH 170D - TENTATIVE ASSIGNMENTS - FALL, 2014

8/25 INTRO + 1.1 P 10 7-19 EOO, 33-57 EOO, 65-69

8/27 1.2 P 19 3-23 EOO, 37, 43

1.3 P 24 3-31 EOO

8/29 2.1 P 65 11, 15

9/1 2.2 P 75 11, 15, 19, 25, 37, 53

9/3 2.3 P 80 1-17, EOO

2.4 P 88 17-33 EOO, 51-55 ODD

9/5 2.5 P 94 7-19 EOO. 41

2.7 P 105 9-29 EOO

9/8 REVIEW

9/10 1.4 P 31 1-13 EOO, 19-39 EOO,

PROFICIENCY EXAM 1

9/12 1.5 P 41 1-13 EOO, 21-31 ODD, 39, 43, 47

9/15 1.6 P 50 3-31 EOO

9/17 1.7 P 56 3-9 ODD

9/22 2.6 P 99 17-41 EOO

9/24 2.8 P 109 1, 7, 13

2.9 P 115 13, 20

9/26 EXAM 1

9/29 3.1 P 126 11-14, 27-39 EOO

10/1 3.2 P 139 11-39 EOO

3.3 P 147 3-23 EOO

10/3 3.4 P 156 7, 21, 25, 27, 39

3.5 P 163 3-15 EOO, 35, 37

10/6 3.6 P 167 3-19 EOO, 44

10/8 3.7 P 175 15-27 EOO, 43, 51, 55, 57, 73

10/10 3.8 P 181 7-31 EOO

10/15 3.9 P 187 5-29 EOO, 41-65 EOO

10/20 3.10 P 192 7-19 EOO, 35

10/22 3.11 P 199 11,15,16,31

PROFICIENCY EXAM 2

10/24 4.1 P 213 3-19 EOO, 49, 63

4.2 P 222 5-21 EOO, 31-47 EOO,65
10/27 4.3 P 232 3-31 EOO, 51
10/29 EXAM 2
10/31 4.4 P 238 5-17 EOO, 27-47 EOO
4.5 P 246 3-51 EOO
11/3 4.6 P 255 15-31 EOO, 55-67 EOO & Review
11/5 4.7 P 262 3-23 EOO, 33,43

11/7 4.9 P282 13-17 EOO,49,67,75
11/10 5.1 P297 9, 21-45 EOO, 55, 61
11/12 5.2 P307 3-15 EOO, 37-45 EOO
11/17 5.3 P 314 7-47 EOO
11/19 EXAM 3
11/21 5.4 P320 7-23 ODD, 35
11/24 5.5 P326 3-15EOO
12/1 5.6 P333 9-45 EOO
12/3 REVIEW
12/5 REVIEW