

Instructor: Brendan Healy

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Office Hours: Tuesday and Thursday 3:30-4:30, and by appointment

Course Meeting Times: MWF: 9:30 am - 10:45 pm, PHY 152

Text: Essential Calculus (2nd Edition), by James Stewart

Prerequisites:

Math Placement Level 40, or any of the following:

- A Level 40 on Math Placement Test;
- A grade of C or better in Math 115;
- A grade of C or better in both Math 116 and Math 117;
- A grade of C or better in both Math 211 and Math 117;
- A grade of C or better in Math 116 and Level 36 on Math Placement Test;
- A grade of C or better in Math 211 and Level 36 on Math Placement Test;
- A grade of C or better in Math 117 and Level 35 on Math Placement Test; or
- A score of 61 or higher on the CLEP Precalculus Exam.

Note: Students who do not meet prerequisites according to PAWS will be dropped at noon, Monday September 9th.

Important Dates:

- Tuesday, Sept 3 – First day of classes.
- Monday, Sept 9 – Math Department’s last day to add a class.
- Monday, Sept 16 – Last day to change among credit/no credit/audit status in PAWS.
- Monday, Sept 30 – Last day to drop without a “W” (Withdrawn) on your record.
- Sunday, Nov 10 – Last day to drop. No student may drop after Nov 10 for academic reasons.
- Thursday, Dec 12 – Last day of classes.
- Friday, Dec 13 – Study Day.
- Monday, Dec 16 – COMPREHENSIVE FINAL EXAM - 7:30-9:30am. Location TBD.

Academic Honesty: Any student found violating the University standards on academic honesty policy will receive discipline in accordance with University guidelines, up to and including an F in the course and possible expulsion. More information on these policies can be found at <http://uwm.edu/academicaffairs/facultystaff/policies/academic-misconduct/>

Attendance: Attendance in this class is considered mandatory. If you miss class, it is *your responsibility* to identify and make up any material you may have missed. Missed quizzes and exams will not be available for retake except in cases of religious observance, military service, or documented medical emergency.

Grading:

Quizzes & Homework 18%

Gateway Exams 16%

Two in-class Midterms 18% each

Final Exam 30%

Quizzes and Midterms: Every Friday when there is not a Gateway or Midterm Exam, at the end of lecture there will be an in-class quiz lasting 20-30 minutes. These quizzes will be graded for accuracy and mathematical notation and returned the following week. The lowest quiz grade will be dropped. All quizzes, the Gateway Exams, the two Midterm exams, and the comprehensive final exam are closed book, no notes, no calculator. No makeups will be given except for tests missed for religious observance, military service, or documented medical emergency. Grading scale: 100-93 A, 92-90 A-, 89-87 B+, 86-83 B, 82-80 B-, 79-77 C+, 76-73 C, 72-70 C-, 69-67 D+, 66-63 D, 62-60 D-, 59 or below F.

Two times during the semester, we will have an in-class midterm. The approximate timing of these exams can be found at the end of the syllabus in the schedule. The second midterm will draw on knowledge from the first. These midterms are also closed book, no notes, no calculator.

Final: The final exam will be on Monday, December 16th from 7:30 -9:30 a.m. It will be cumulative. There will also be no notes, books, or calculators allowed.

Gateway Exams: There are four Gateway Exams. Each exam is given once in class. The exams are graded with no partial credit, and must be passed with a score of 80% or better. Only the highest grade on each Gateway Exam counts toward the final grade. Gateway Exams may be retaken, once per day (Monday-Friday), in the Gateway Testing Center in PHY 330. All retakes should be completed within 1 week of the in-class test. Practice tests can be found here: <http://uwm.edu/math/undergraduate/resources/math-testing/>

Note 1: If all four Gateway Exams are passed with a score of 80% or better, the final grade will be based on points earned; otherwise the maximum final grade will be a "C-".

Note 2: If a student scores at least 90% on all four Gateway Exams, AND earns at least a "C" on the final exam, then the student is guaranteed a final grade of "C" or better for the course.

Homework: Homework is a tool for learning and should be done regularly to help practice the concepts discussed in class. Prior to each class, each student should read the sections of the textbook that will be covered that day. The problems listed on the syllabus comprise the minimum amount of homework that should be attempted. Homework will be collected regularly and reviewed for completeness, work shown, and proper use of mathematical language and notation (but NOT correctness). No late homework will be accepted, all work must be turned in the following class day. The total of your homework grades counts as one quiz grade and may not be one of the dropped grades. The assigned homework problems are as follows.

Suggested **Minimum** Homework Problems (ooo=every other odd)

1.1	1-45odd, 52, 53	3.4	1-33ooo, 39, 41
1.2	1-53ooo, 55abc, 59	3.5	1-27odd, 36
1.3	1-10 all, 11-17odd	3.6	1-7 all
1.4	1, 2, 11-27odd, 33, 44, 49-55odd	3.7	1-13odd, 17-31ooo, 35-45odd
1.5	3-8, 13-23odd, 27-35odd, 39, 41	Rev	CC1-9; TF 1-19; Ex 1-33odd; 39-47odd
1.6	1-7odd, 13-33odd, 41-47odd	4.1	1-15odd
Rev	CC 13-16; TF 7-26; Ex 19-46	4.2	1, 7, 9, 11, 15-25odd, 29-45odd
2.1	1-35odd, 37-47odd	4.3	1-29o, 31-33all, 37, 39, 43-53odd, 59-63all
2.2	1-15odd, 19-35odd, 39-41 all	4.4	1-27odd
2.3	1-43ooo (except 29), 45-57odd, 61	4.5	1-47odd
2.4	1-45odd, 49, 51, 53, 55	Rev	CC 1-10; TF 1-18; Ex 1-43odd
2.5	1-41ooo, 43-47odd, 51-63odd, 67	5.1	1-25odd, 33-41odd
2.6	1-27odd, 35, 37, 39, 45	5.2	1-47odd, 51-61odd
2.7	1-9odd, 13-31odd, 37, 39	5.3	1-37odd, 41-51odd, 61-69odd
2.8	1-4, 7-23odd	5.4	1-9odd, 23-37odd, 41-45odd
Rev	CC1-11; TF 1-12; Ex 1-75 odd	5.5	3, 9, 13, 15, 19
3.1	1-21odd, 23-43ooo, 51, 53	5.6	1-6all, 17-31odd, 33, 35, 37, 39-47odd
3.2	1-11o, 15-25odd	5.7	1-10all, 27-41odd, 44, 45, 47, 53-61o
3.3	1-35ooo, 37, 41, 43	Rev	CC 1-6; TF 1-15; Ex 1-55 odd; 77-88 all

Outline: Following is a coarse course schedule. Please note it is subject to change depending on the actual pace of the class.

Course Outline (Subject to change)

Week 1	Sept 3-6	Sections 1.1, 1.2, 1.3; Pre-Calc Review Quiz
Week 2	Sept 9-13	Sections 1.4, 1.5, 1.6; Quiz 2
Week 3	Sept 16-20	Sections 2.1, 2.2, 2.3; Gateway 1 (Limits)
Week 4	Sept 23-27	Sections 2.4, 2.5, 2.6; Quiz 3
Week 5	Sept 30-Oct 4	Sections 2.7, 2.8; Gateway 2 (Derivatives)
Week 6	Oct 7-11	Sections 3.1, 3.2, 3.3; Quiz 4
Week 7	Oct 14-18	Review; Midterm Exam One
Week 8	Oct 21-25	Sections 3.4, 3.5
Week 9	Oct 28-Nov 1	Sections 3.7, 4.1, 4.2; Gateway 3 (Graphing)
Week 10	Nov 4-8	Sections 4.3, 4.4; Quiz 5
Week 11	Nov 11-15	Sections 4.5, 5.2; Quiz 6
Week 12	Nov 18-22	Sections 5.3, 5.4; Gateway 4 (Integration)
Week 13	Nov 26-27	Section 5.1; Thanksgiving Recess
Week 14	Dec 2-6	Review; Midterm Exam Two
Week 15	Dec 9-12	Sections 5.6, 5.7; Review
FINAL EXAM	Dec 17	MONDAY DECEMBER 16 th , 7:30-9:30am, Room TBD

Other Important Points:

- Students with disabilities or who qualify for accommodations, meaning those with an Eligibility Letter/Student Accommodation Plan, should contact the instructor early in the semester to discuss the assistance they may need.
- The minimum amount of time that an average student should expect to invest to successfully complete this course includes: 50 hours in class; 8 hours taking quizzes, tests and exams; 100 hours completing homework assignments; 35 hours studying for assessments. Total: 193 hours.
- The Calculus Workshop is located in Physics 326 & 328. You can drop in to find a quiet place to study, do homework with peers from other sections, meet with faculty, and fully engage in studying and learning the material.
- All drop-in tutoring is available through the Student Success Center (formerly PASS) in Bolton 180. Hours are posted here: <https://uwm.edu/studentsuccess/>
- Room changes and cancellations are valid only if posted outside the classroom door on Math Department letterhead and sent via email.
- Other important university policies can be found here:
<http://uwm.edu/secu/wp-content/uploads/sites/122/2016/12/Syllabus-Links.pdf>
- Incompletes will only be assigned if *all* of the following conditions are met: a) You are already passing the course with the work that has been completed; b) You have only a “little” work to be finished; and c) You can give substantiation of illness or other unusual non-academic circumstances beyond your control that have prevented you from completing the course on time.