

MATH 0235 - HONORS 1-VARIABLE CALCULUS

THE UNIVERSITY OF PITTSBURGH - FALL 2025

MWF 10-10:50 (Section 1040, Class Number 10777)

Room 704 Thackeray Hall

Instructor Information

Instructor: Jeffrey Paul Wheeler, Ph.D.
Office: Room 610 Thackeray Hall.
Office Hours: Mondays, Wednesday, and Fridays 1-1:45 or by appointment.
Email: jwheeler@pitt.edu
Website: We will heavily use Canvas. PLEASE REGULARLY CHECK CANVAS FOR IMPORTANT ANNOUNCEMENTS.
Departmental Phone: 412-624-8375

Textbook

Essential Calculus, Early Transcendentals, 2nd edition, James Stewart, Cengage Learning, ISBN 978-1-133-11228-0. You may use the first edition, but please be careful as many different versions of the text exist:

- the text must contain the phrase “Early Trancendentals”
- if you plan to take Honors Multivariable Calc or Calc 3, make sure NOT to buy a “Single Variable” edition of Stewart’s book.

Course Content

We will cover Chapters 1-9: limits, continuity, differentiation and integration of single-variable functions as well as some applications, series, as well as parametric and polar coordinates.

Electronics

Unless stated otherwise, **you will not be permitted to use calculators on quizzes or exams.** Their use will constitute academic misconduct. The use of laptops and cell phones is not permitted during class; tablets may be used only for note taking.

Calendar

First Day of Class	Monday 25 August
Labor Day (University CLOSED)	Monday 1 September
Last Day to Drop/Add	Friday 5 September
Student Fall Break (University OPEN)	Friday 10 October
Final Exam Conflict Form Submission Deadline	Friday 24 October
Student Thanksgiving Recess	Sunday-Sunday 23 - 30 November
Faculty and Staff Thanksgiving Recess	Thursday-Friday 27-28 November
Last Day of Class	Friday 5 December
CUMULATIVE FINAL EXAM	Tuesday 9 December, 12-1:50pm

Evaluation

Your semester average will be determined by the following weights: **Two Midterms @ 25% each, Recitation Quizzes/Written HW 10%, Online HW 10%, Final Exam 30%**.

As well, I follow the standard scale:

Grade	A	A-	B+	B	B-	C+	C	C-	D+	D	D-	F
Percent	93 - 100	90 - 92	87 - 89	83 - 86	80 - 82	77 - 79	73 - 76	70 - 72	67 - 69	63 - 66	60 - 62	< 60

NOTE: I will not assign a grade I cannot justify.

ALSO NOTE: Online homework is 10% of your grade and you have weekly scheduled time with a TA; as well, you will have multiple attempts to get these problems right. There is no excuse for not having this grade exceed 90%. Putting the time on your own or asking help from the TA to earn, for example, a Webassign average of 95% instead of a 70% means you will have increased your semester average by 2.5%...

Make-ups

You are expected to be in class and at recitation. There are no make-ups on quizzes, exams, or homework work unless you have a written doctor's excuse or your absence is due to participating in a University function (band, athletic team, etc.). **If you feel you have a legitimate excuse for a make-up on a quiz, you are to see me and not your TA.**

Email 101

Due to the large volume of email I receive, **it is better to see me during office hours or after class than to email me.** If you do write me, please be aware that you are writing me, the instructor of your mathematics course at a major university, and not text messaging a friend. The opening of the email should be something of the order of "*Dear Dr. Wheeler,*". As well, please note that *you* is spelled "y-o-u", not "u", and *are* is spelled "a-r-e", not "r". Proper grammar and punctuation are expected. Lastly, please be sure to close your correspondence by stating your name. In particular, I would like to see:

-Name

-Class (e.g. 1 pm Calc 2)

PLEASE NOTE: emailing me and asking me a question that is answered in the syllabus will result in a reduction of your final grade by 0.1 points.

Grades 101

No one has ever been put on probation because of a single bad grade. Academic Probation is the result of bad grades, not a bad grade.

There will be no extra credit assignments.

Also, the time to improve your grade is now. You have 15+ weeks to earn your grade. **DO NOT CONTACT ME** when the semester is over and ask me if you can do extra credit to improve your grade.

Academic Misconduct:

Students in this course will be expected to comply with the University of Pittsburgh's Policy on Academic Integrity (<https://www.provost.pitt.edu/academic-integrity-guidelines>).

Academic misconduct of any form will not be tolerated. Please do not put me in a situation where I have to deal with this. **Be smart - do not even give the appearance of cheating.**

Disability Resources and Services

If you have a disability for which you are or may be requesting an accommodation, you are encouraged to contact both your instructor and Disability Resources and Services, 140 William Pitt Union, 412-648-7890 or 412-383-7355 (TTY) as early as possible in the term. DRS will verify your disability and determine reasonable accommodations for this course.

Student Evaluations

You are encouraged to read former students evaluations at <http://www.ratemyprofessors.com>. Please be aware that I have evaluations at the University of Pittsburgh, the University of Memphis, and Rhodes College (in Memphis). There is a link to this site on my website.

Reality Check

Question: Why is 12 credit hours a full-time load? Fill in the answer here: _____.

Calc 2 is a hard class everywhere, and Pitt Calc 2 covers more material than other college/universities' Calc 2. For many of you, this will be the hardest class you take at Pitt.

With this said, remember that this is a four (4) credit-hour course. That means you are to do _____ hours of studying/homework per week. Chances are you will have to do more.

Advice

I will close with the following advice. If you wish to do well in my class, then you will

- read the book;
- come to class;
- do **all** the **practice** problems immediately after we finish a section (“all” means all, “practice” means practice, and “immediately” means “within 24 hours”);
- be sure to do some problems on your own;
- become part of a study group (meet and compare solutions to even-numbered exercises);
- ask questions when you have them;
- take advantage of recitation;
- take advantage of lab (when you come to my office and ask me online HW questions, *I will suspect that you are not going to lab*);
- be aware that there is a reason why this is a required course;
- not be naive (This is a Calculus course at the University of Pittsburgh, not a high school math class. The final exam will not be a high school exam. Also, I am not your high school math teacher.);
- not be “that person” this semester:
 - not doing practice problems;
 - not doing the lab work or waiting until the last minute to do the lab work
 - only starting to study one or two days before an exam;
 - failing the midterms and then asking for mercy;
 - think that you are the exception to all that I have said;
- realize office hours are not a substitute for missed classes or labs;
- realize mathematics is difficult. No matter how smart you are or what success you have had in the past, there will come a mathematics class that you will find to be very difficult. Calc 2 may be that class.
- **Also, I am not a socialist. Basing an argument on need will not work with me.**

HONORS SINGLE-VARIABLE CALCULUS AGREEMENT

I understand that I am expected to

- Come to class _____ (initial here)
- Attend recitation and ask questions _____ (initial here)
- Do all listed practice problems from the Pitt Calc website immediately after a section is covered in class _____ (initial here)
- Spend 8 to 12 hours (possibly more) PER WEEK studying for this class and doing problems _____ (initial here)
- Do practice problems on my own _____ (initial here)
- I understand that if my quiz grade is not at least an 80% and if my online homework¹ grade is not at least a 90%¹, Dr. Wheeler will not have much sympathy for me _____ (initial here)

¹Why is this not 100%?? - there is scheduled time with a TA each week.

Tentative Schedule

Lecture	Date	Section(s)	Topic	Lecture	Date	Section(s)	Topic
1	Mon 25 Aug	1.3, 1.4	Limits	20	Mon 13 Oct	5.5, 6.1	Substitution/Int by Parts
2	Wed 27 Aug	1.5	Continuity	21	Wed 15 Oct	6.2	Trig Int/Trig Sub
3	Fri 29 Aug	1.6	Limits Involving ∞	22	Fri 17 Oct	6.3	Partial Fractions
-	Mon 1 Sept	-	Labor Day	23	Mon 20 Oct	6.4	Numerical Int
4	Wed 3 Sept	2.1, 2.2	Derivatives	24	Wed 22 Oct	6.6	Improper Integrals
5	Fri 5 Sept	2.3, 2.4	Derivative Formulas	25	Fri 24 Oct	7.1, 7.3	Area Between Curves, Arc Length
6	Mon 8 Sept	2.5, 2.6	Chain Rule/Implicit Diff	26	Mon 27 Oct	7.2	Volume
7	Wed 10 Sept	2.7, 2.8	Related Rates/Linear Approx	27	Wed 29 Oct	7.5, 7.6	Applications of Integration
8	Fri 12 Sept	3.4, 3.5	Exp, Log Derivatives/Inv Trig	28	Fri 31 Oct	7.6, 7.7	Separable Diff Eqs
9	Mon 15 Sept	3.6	Hyperbolic Functions	29	Mon 3 Nov	-	LDEs
10	Wed 17 Sept	3.7	Indeterminate Forms	30	Wed 5 Nov	8.1	Sequences
11	Fri 19 Sept	4.1	Extrema	31	Fri 7 Nov	8.2	Series
12	Mon 22 Sept	4.2	MVT	32	Mon 10 Nov	8.3, 8.4	Covergence Tests
13	Wed 24 Sept	4.3, 4.4	Curve Sketching	33	Wed 12 Nov	8.5	Power Series
14	Fri 26 Sept	4.5	Optimization	34	Fri 14 Nov	8.6	Representing Functions as a PS
15	Mon 29 Sept	4.6	Newton's Method	35	Mon 17 Nov	8.7	Taylor Series
16	Wed 1 Oct	4.7, 5.1	Antiderivatives/Area	36	Wed 19 Nov	8.8	Applications of Power Series
17	Fri 3 Oct	5.2	Definite Integral	37	Fri 21 Nov	-	Midterm 2
18	Mon 6 Oct	5.3, 5.4	Fund Thm of Calc	38	Mon 1 Dec	9.1,9.2	Calc with Parametric Curves
19	Wed 8 Oct	-	Midterm 1	39	Wed 3 Dec	9.3,9.4	Polar Coordinates
-	Fri 10 Oct	-	Fall Break	40	Fri 5 Dec	-	Review

CUMULATIVE Final Exam Tuesday, 9 December, 12-1:50pm

On your own:

Section(s)	Subject
1.1 and 1.2	Functions
A1	Trig Review
3.1	Exponents
3.1	Inverse Functions and Logs
A2	Σ Notation