



Advanced Calculus I

MTH 427-201/527-(101/102) || CRN: 2878/2886/2887 || Fall 2024

Instructor: Dr. Tom Cuchta
Time: 11:00-11:50 MWF (all sections)
Location: Smith Hall 516/Smith Hall 516/online
E-mail: cuchta@marshall.edu
Office: Smith Hall 614 (walk into room, turn left – my office is inside!)
Open office hours: See my website <http://tomcuchta.com>. They may change throughout the semester without notice. Alternate office hours may always be scheduled via e-mail.
Class webpage: <https://tomcuchta.com/teach/classes/2024/MTH427-Fall2024-Marshall/>
Textbook: “A Primer of Real Analysis” by Dan Sloughter
 Freely available online: <https://open.umn.edu/opentextbooks/textbooks/463>
Course Description: The number system, limits, sequences, partial differentiation with applications, maxima and minima of functions of several variables. Theory of definite integrals, multiple integrals, line and surface integrals, improper integrals, infinite series.
Prerequisites: MTH 231 with a minimum grade of C and MTH 300 with a minimum grade of C
In-class work: Often, in most classes, some problems will be given and collected for a grade. Online students must submit theirs by within 30 minutes of the end of a class period.
Weekly Homework: Weekly homework will be assigned and be submitted via Blackboard.
Quizzes: Quizzes will be given randomly, will be unannounced in advance. 20% of the lowest-scored quizzes will be dropped.
Exams: There will be three one-hour exams in this course.
Final exam: There will be a cumulative final exam in this course.
Make-up exam policy: If an exam is to be missed due to an excused absence (defined as in this page), then it is the *student’s responsibility* to arrange an alternative time to take the exam at least one week before the exam is given. If the student misses an exam due to an unexcused absence, the exam may be replaced with the percentage earned on the final exam. The unexcused absence policy applies *only once*.

University policies: Various university policies such as Academic Dishonesty, Academic Dismissal, Academic Forgiveness, Academic Probation & Suspension, Affirmative Action, Pre-Finals Week, D/F Repeat Rule, Excused Absence, Inclement Weather, Sexual Harassment, Students with Disabilities, and University Computing Services Acceptable Use can be found at the Marshall University academic affairs webpage here: <https://www.marshall.edu/academic-affairs/policies/>

		Grade	Percentage Range
Grading policy:	Weekly Homework	25%	A $90\% \leq \text{Points Earned} \leq 100\%$
	In-class work	5%	
	Quizzes	15%	B $80 \leq \text{Points Earned} < 90$
	Hour exams	30%	C $70 \leq \text{Points Earned} < 80$
	Final exam	25%	D $60 \leq \text{Points Earned} < 70$
			F $0 \leq \text{Points Earned} < 60$

Campus Carry Policy University Policy, UPGA-12 (Campus Carry Policy) derives its authority from West Virginia State law, including the Campus Self-defense Act (WV Code §18B-4-5b). It pertains to the exercise of concealed carry on Marshall University’s campus, except in designated areas, by individuals with a valid permit to conceal carry.

Individuals who choose to conceal carry are responsible for knowing and understanding all applicable federal, state, and local laws and Marshall University Board of Governors Rules, university policies, and administrative procedures. University Policy, UPGA-12 applies to areas of campus and buildings that are directly under the possession or control of Marshall University.

Concealed handguns are not observable to others and must be holstered and concealed on the body of the permit holder or in a personal carrier, such as a backpack, purse, or other bag that remains under the exclusive and uninterrupted control of the permit holder. This includes wearing the personal carrier with a strap, carrying or holding the personal carrier, or setting the personal carrier next to or within your immediate reach at all times. If your participation in class activities impedes your ability to maintain constant control of your handgun, please make alternate arrangements prior to coming to class.

Advanced Calculus I Schedule Fall 2024

Week #	Dates	Sections
1	19 Aug – 23 Aug	1.1, 1.2, 1.3
2	26 Aug – 30 Aug	1.4, 2.1, 2.2
3	2 Sep – 6 Sep	<i>NO CLASS - Labor day:</i> 2 September 3.1
4	9 Sep – 13 Sep	3.2 <i>Review day:</i> 11 September <i>EXAM 1:</i> 13 September
5	16 Sep – 20 Sep	3.3, 4.1, 4.2
6	23 Sep – 27 Sep	4.3, 4.4, 5.1
7	30 Sep – 4 Oct	5.2, 5.3, 5.4
8	7 Oct – 11 Oct	6.1, 6.2 <i>NO CLASS - October break:</i> 10-11 October
9	14 Oct – 18 Oct	6.3 <i>Review day:</i> 16 October <i>EXAM 2:</i> 18 October
10	21 Oct – 25 Oct	6.4, 6.5, 6.6
11	28 Oct – 1 Nov	7.1, 7.2, 7.3
12	4 Nov – 8 Nov	7.4, 7.5, 7.6
13	11 Nov – 15 Nov	7.7 <i>Review day:</i> 13 November <i>EXAM 3:</i> 15 November
14	18 Nov – 22 Nov	8.1, 8.2, 8.3
N/A	25 Nov – 29 Nov	<i>THANKSGIVING BREAK</i>
15	2 Dec – 6 Dec	8.4, 8.5 <i>Review day:</i> 6 December
16	9 Dec – 13 Dec	<i>FINAL EXAMS</i>