

MATH 2415 CALCULUS OF SEVERAL VARIABLES

Syllabus – Fall 2025

Class Section	Days	Time	Room	Instructor
MATH 2415.003	Tue, Thu	8:30-9:45am	HH 2.502	Baris Coskunuzer
MATH 2415.005	Tue, Thu	11:30-12:45pm	ECSS 2.306	Baris Coskunuzer
MATH 2415.001	Tue, Thu	1:00-2:15pm	HH 2.502	Rizwanur Khan
MATH 2415.002	Tue, Thu	2:30-3:45pm	HH 2.502	Mohammad Ahsan
MATH 2415.004	Tue, Thu	4:00-5:15pm	HH 2.502	Mohammad Ahsan

	Instructor	Days	Time	Room
Office	B. Coskunuzer	Tue	10-11:30am	FA 2.410
Hours	R. Khan	Tue, Thu	10:30-11:30am	SCI 1.166
	M. Ahsan	Tue, Thu	1 - 2 pm	FN 3.120D

Students may attend any office hour, regardless of their section.

Course Description: The course covers differential and integral calculus of functions of several variables. Topics include vector valued and scalar functions, partial derivatives, directional derivatives, chain rule, Lagrange multipliers, multiple integrals, the line integral, Green's theorem, Stokes' theorem, divergence theorem. (3 lecture hours and 2 problem section hours per week; 4 semester credit hours).

Pre-Requisite: A grade of C- or better in MATH 2414 or equivalent.

Co-requisites:

- *Students must enroll in one of the problem sections MATH 2415.30x, in addition to a lecture section MATH 2415.00x.*
- *Students are automatically enrolled in MATH 2415.701 exam section, which meets in exam days only.*

Textbook: *Calculus, Early Transcendentals, 8th edition* by James Stewart.

Sections covered: **12.1-6, 13.1-3, 14.1-8** (skip 14.2), **15.1-9** (skip 15.4-5), **16.1-6**.

Note: A used copy is fine; 7th and later editions also work.

Course Webpage / eLearning: Regularly check the MATH 2415.701 page of eLearning.

Paper Homework (PHW), Digital Homework (DHW), grades, and important announcements will be posted under the course MATH 2415.701 on eLearning: <https://elearning.utdallas.edu>

Free Tutoring: Student Success Center offers free tutoring for this course in the basement of the library, MC 1.304, and their hours are: Monday-Thursday, 10am-6:30pm Friday, 10am-4pm. Check the link for details: <https://studentsuccess.utdallas.edu/programs/peer-tutoring>

UT Dallas Syllabus Policies and Procedures: The information at the following website constitutes university's syllabus policies and procedures segment of this syllabus.

<http://go.utdallas.edu/syllabus-policies>

Grading Scheme

3 x 15% Midterm Exams, 25% Final Exam, 15% DHW, 10% PHW-Q, 5% PS

1. Digital Homeworks (DHW): 15%

- Weekly DHW will be made available in WebWork every Tuesday and will be due Monday midnight in the following week.
- DHW access instructions for DHWs are given at Elearning Math 2415.701.
- *The lowest two DHW scores will be dropped.*

2. Paper Homeworks/Quiz: 10%

- PHWs will be posted each week on eLearning - Math 2415.701. Each PHW will cover content on earlier Thursday and last Tuesday class.
- PHWs will not be collected. Instead, there will be a quiz in problem sessions with 1-2 problems very similar to PHW.
- Each PHW-Quiz will be out of 10 points. *The lowest two quiz scores will be dropped.*

3. Problem Sessions (PS): 5%

- First 50 minutes: TAs will solve problems on sections covered that week.
- Next 40 minutes: Students will actively solve problems in small groups with the TA.
- Last 20 minutes: Quiz-x with 1-2 questions very similar to PHW-x problems.
- Each PS will be graded out of 5 points based on attendance and active participation. Points may be deducted for arriving late, leaving early, or failing to engage in the active learning. *The lowest two PS scores will be dropped.*

4. Mid-Term Exams: 45%

- Exam I: September 19, Friday 7:00pm-8:30pm;
- Exam II: October 17, Friday 7:00pm-8:30pm;
- Exam III: November 14, Friday 7:00pm-8:30pm;

5. Final Exam: 25%

- Time: TBA between Dec 11-16.

Late/Missed Coursework: There is no make-up for late or missed assignments, quizzes, or exams, unless extreme circumstances with proper documentation accepted by the instructor.

Calculators: Calculators are not allowed in the exams and quizzes. The exams will involve simple calculations so that you will not need a calculator.

Course Schedule

Monday	Tuesday	Thursday	Friday
Aug 25th 1	26th 2 Sec 12.1-2	28th 3 Sec 12.3	29th 4 No PS
Sep 1st 5 DHW-1 Due	2nd 6 Sec 12.4	4th 7 Sec 12.5	5th 8 PS1 – Q1
8th 9 DHW-2 Due	9th 10 Sec 12.5-6	11th 11 Sec 13.1	12th 12 PS2 – Q2
15th 13 DHW-3 Due	16th 14 Sec 13.2-3	18th 15 Exam I Review	19th 16 PS3-Q3 & Exam 1
22nd 17	23rd 18 Sec 14.1,3	25th 19 Sec 14.3-4	26th 20 PS4*
29th 21 DHW-4 Due	30th 22 Sec 14.5	Oct 2nd 23 Sec 14.6	3rd 24 PS5 – Q4
6th 25 DHW-5 Due	7th 26 Sec 14.7	9th 27 Sec 14.7	10th 28 PS6 – Q5
13th 29 DHW-6 Due	14th 30 Sec 14.8	16th 31 Exam II Review	17th 32 PS7-Q6 & Exam 2
20th 33	21st 34 Sec 15.1	23rd 35 Sec 15.2	24th 36 PS8*
27th 37 DHW-7 Due	28th 38 Sec 15.3	30th 39 Sec 15.6	31st 40 PS9 – Q7
Nov 3rd 41 DHW-8 Due	4th 42 Sec 15.7	6th 43 Sec 15.8	7th 44 PS10 – Q8
10th 45 DHW-9 Due	11th 46 Sec 15.9	13th 47 Exam III Review	14th 48 PS11-Q9 & Exam3
17th 49	18th 50 Sec 16.1-2	20th 51 16.3	21st 52 PS12*
24th 53 Thanksgiving	25th 54 Thanksgiving	27th 55 Thanksgiving	28th 56 Thanksgiving
Dec 1st 57 DHW-10 Due	2nd 58 Sec 16.4	4th 59 Sec 16.5	5th 60 PS13 – Q10
8th 61 DHW-11 Due	9th 62 Sec 16.6	11th 63 Final Review	12th 64 PS14 – Q11

PS means no quiz will be given in that PS. Monday PSs follow previous Friday.*