

Math 127 - Calculus III

Spring 2022 Schedule

Week 1:

Lecture #	Day	Date	Section(s)
	Monday	1/17	Dr. Martin Luther King Holiday
Lecture 1	Wednesday	1/19	Introduction and Vector Review
Lecture 2	Friday	1/21	Vector Review and Start of 12.6
Lab #	Day	Date	Section(s)
		1/17	Week 1 - Lab 1: Worksheet 1
	Tuesday	1/18	Vector Review
Lab 2	Wednesday or Thursday	1/19 or 1/20	Week 1 - Lab 2: Worksheet 1 Vector Review
Due Dates	Day	Date	Assignments
	Friday	1/21	Diagnostic Quiz 1- Vector Review Canvas (Extra Credit)
	Friday	1/21	Achieve Homework 0: Vector Review
	Friday	1/21	Worksheets 1 (Attend Labs & Upload to Canvas)

Week 2:

Lecture #	Day	Date	Section(s)
Lecture 3	Monday	1/24	12.6: A Survey of Quadric Surfaces
Lecture 4	Wednesday	1/26	14.1: Functions of Two or More Variables
Lecture 5	Friday	1/28	11.3: Polar Coordinates 12.7: Cylindrical and Spherical Coordinates
Lab #	Day	Date	Section(s)
Lab 3.0	Monday or Tuesday	1/24 or 1/25	Week 2 - Lab 1: Worksheet 2 Vector Review
Lab 4	Wednesday or Thursday	1/26 or 1/27	Week 2 - Lab 2: Worksheet 2 In-class Quiz 1: Review of Equations of Lines and Planes, and Integration Techniques
Due Dates	Day	Date	Assignments
	Friday	1/28	Achieve Homework 1: Section 12.6
	Friday	1/28	Worksheet 2 (Attend Labs & Upload to Canvas)

Week 3:

Lecture #	Day	Date	Section(s)
Lecture 6	Monday	1/31	CatchUp 14.2: Limits and Continuity in Several Variables
Lecture 7	Wednesday	2/2	SNOW DAY
Lecture 8	Friday	2/4	14.2: Limits and Continuity in Several Variables and 14.3: Partial Derivatives
Lab #	Day	Date	Section(s)
Lab 5	Monday	2/31	Week 3 - Lab 1: Worksheet 3
	Tuesday	1/32	Sections 12.6 and start of 14.1
Lab 6	Wednesday	2/2	Week 3 - Lab 2: Worksheet 4
	or Thursday	or 2/3	Sections 12.7 and 14.2
Due Dates	Day	Date	Assignments
	Friday	2/4	Achieve Homework 2: Sections 12.7 and 14.1
	Tuesday	2/8	Worksheet 3 and 4 (Attend Labs & Upload to Canvas)

Week 4:

Lecture #	Day	Date	Section
Lecture 9	Monday	2/7	14.3: Partial Derivatives and 14.4: Differentiability and Tangent Lines
Lecture 10	Wednesday	2/9	14.4: Differentiability and Tangent Lines
Lecture 11	Friday	2/11	14.5: The Gradient and Directional Derivatives
Lab #	Day	Date	Section(s)
Lab 7	Monday	2/7	Week 3 - Lab 2: Worksheet 4
	or Tuesday	or 2/8	Sections 12.7
Lab 8	Wednesday	2/9	Week 4 - Lab 1 or 2: Worksheet 5
	or Thursday	or 2/10	Sections 14.2
Due Dates	Day	Date	Assignments
	Tuesday	2/8	Worksheet 3 and 4 (Attend Labs & Upload to Canvas)
	Friday	2/11	Diagnostic Quiz 2 - On Canvas (Extra Credit) Sections 12.6, 12.7, 14.1, 14.2, 14.3
	Friday	2/11	Achieve Homework 3: Sections 14.2 and 14.3
	Friday	2/11	Worksheets 5 (Attend Labs & Upload to Canvas)

Week 5:

Lecture #	Day	Date	Section(s)
Lecture 12	Monday	2/14	14.5: The Gradient and Directional Derivatives and 14.6: The Chain Rule
Lecture 13	Wednesday	2/16	14.6: The Chain Rule
Lecture 14	Friday	2/18	14.7: Optimization in Several Variables
Lab #	Day	Date	Section(s)
Lab 9	Monday or Tuesday	2/14 or 2/15	Week 5 - Lab 1: Worksheet 6: Sections 14.3 - 14.5 In-class Quiz 2: Sections 14.2 and 14.3
Lab 10	Wednesday or Thursday	2/16 or 2/17	Week 5 - Lab 2: Worksheet 6 Sections 14.3, 14.4 and 14.5
Due Dates	Day	Date	Assignments
	Friday	2/18	Diagnostic Quiz 3 - Canvas (Extra Credit) 14.5, 14.6 and 14.7 On Canvas (Extra Credit)
	Friday	2/18	Achieve Homework 4: Sections 14.4 and 14.5
	Friday	2/18	Worksheets 6 (Attend Labs & Upload to Canvas)

Week 6:

Lecture #	Day	Date	Section
Lecture 15	Monday	2/21	14.7: Optimization in Several Variables
Lecture 16	Wednesday	2/23	14.8: Lagrange Multipliers
Lecture 17	Friday	2/25	15.1: Integration in Two Variables
Lab #	Day	Date	Section(s)
Lab 11	Wednesday or Tuesday	2/23 or 2/22	Mon.: Week 6 - Lab 1: Worksheet: 7: Section 14.6 Tues: Week 5 - Lab 2 Worksheet 6 and Week 6 - Lab 1: Worksheet: 7
Lab 12	Monday or Thursday	2/21 or 2/24	Wed: Week 6 - Lab 2: Worksheet 8: Section 14.7 Thur: Week 6 - Lab 1: Worksheet 7 and Lab 2: 8
Due Dates	Day	Date	Assignments
	Tuesday	2/22	Worksheet 6 and Achieve 4 (Attend Labs & Upload to Canvas)
	Friday	2/25	Achieve Homework 5: Section 14.6
	Friday	2/25	Worksheet 7 and 8 (Attend Labs & Upload to Canvas)

Week 7:

Lecture #	Day	Date	Section(s)
Lecture 18	Monday	2/28	Midterm 1 Review
Midterm 1	Tuesday	March 1 st	Sections: 12.6, 12.7, 14.1-14.7 5:50-7:50 PM Room: Budig 130
Lecture 19	Wednesday	3/2	Catch Up 15.2: Double Integrals over General Regions
Lecture 20	Friday	3/4	15.2: Double Integrals over General Regions
Lab #	Day	Date	Section(s)
Lab 13	Monday or Tuesday	3/28 or 3/1	Practice Exam
Lab 14	Wednesday or Thursday	3/2 or 3/3	Week 7 - Lab 2: Worksheet 9 Section 14.8
Due Dates	Day	Date	Assignments
	Friday Friday	3/4 3/4	Achieve Homework 6: Sections 14.7 and 14.8 Worksheet 9 (Attend Labs & Upload to Canvas)
Optional	Day	Date	Time and Place
Review	Saturday	2/26	1 PM - 3 PM, Wescoe 3140
Practice Exam	Sunday	2/27	LEEP 2, 7-9 pm

Week 8:

Lecture #	Day	Date	Section
Lecture 21	Monday	3/7	15.2: Double Integrals and 15.3: Triple Integrals
Lecture 22	Wednesday	3/9	15.3: Triple Integrals
Lecture 23	Friday	3/11	15.3: Triple Integrals
Lab #	Day	Date	Section(s)
Lab 15	Monday or Tuesday	3/7 or 3/8	Week 8 - Lab 1: Worksheet 10 Section 15.1
Lab 16	Wednesday or Thursday	3/9 or 3/10	Week 8 -Lab 2: Worksheet 11 Section 15.2
Due Dates	Day	Date	Assignments
	Tuesday Friday Friday Friday	3/11 3/11 3/11 3/11	Last week's extended assignments Diagnostic Quiz 4-Canvas (Extra Credit) Section 15.1, 15.2 and 15.3 Achieve Homework 7: Sections 15.1 and 15.2 Worksheet 10 and 11 (Attend Labs & Upload to Canvas)

Spring Break: March 14th-March 20th

Week 9:

Lecture #	Day	Date	Section(s)
Lecture 24	Monday	3/21	15.6: Change of Variables
Lecture 25	Wednesday	3/23	15.6: Change of Variables
Lecture 26	Friday	3/25	15.4: Integration in Polar, Cylindrical, Spherical
Lab #	Day	Date	Section(s)
Lab 17	Monday	3/21	Week 9 - Lab 1: Worksheet 12
	or Tuesday	or 3/22	Section 15.2
Lab 18	Wednesday	3/23	Week 8 - Lab 2: Worksheet 12
	or Thursday	or 3/24	In-class Quiz 3: Sections 15.2 and 15.3
Due Dates	Day	Date	Assignments
	Friday	3/25	Achieve Homework 8: Section 15.3
	Friday	3/25	Worksheet 12 (Attend Labs & Upload to Canvas)

Week 10:

Lecture #	Day	Date	Section
Lecture 27	Monday	3/28	15.5: Applications of Multiple Integrals
Lecture 28	Wednesday	3/30	13.1: Vector-Valued Functions and 13.2: Calculus of Vector-Valued Functions
Lecture 29	Friday	4/1	13.2: Calculus of Vector-Valued Functions
Lab #	Day	Date	Section(s)
Lab 19	Monday	3/28	Week 10 - Lab 1: Worksheet 13
	or Tuesday	or 3/29	Section 15.6
Lab 20	Wednesday	3/30	Week 10 - Lab 2: Worksheet 14
	or Thursday	or 3/31	Section 15.4
Due Dates	Day	Date	Assignments
	Friday	4/1	Diagnostic Quiz 5 Canvas (Extra Credit) Sections 15.6, 15.4, 15.5
	Friday	4/1	Achieve Homework 9: Sections 15.6
	Friday	4/1	Worksheet 13 and 14 (Attend Labs & Upload to Canvas)

Week 11:

Lecture #	Day	Date	Section
Lecture 30	Monday	4/4	13.3: Arc Length and Speed
Lecture 31	Wednesday	4/6	16.1: Vector Fields
Lecture 32	Friday	4/8	16.1: Vector Fields and 16.2: Line Integrals (If possible)
Lab #	Day	Date	Section(s)
Lab 21	Wednesday or Tuesday	4/6 or 4/5	Week 11 - Lab 1: Worksheet 15 Sections 13.1-13.2
Lab 22	Monday or Thursday	4/4 or 4/7	Week 11 - Lab 2: Worksheet 16 Sections 13.3 and 16.1
Due Dates	Day	Date	Assignments
	Friday	4/8	Achieve Homework 10: Sections 15.4 and 15.5
	Friday	4/8	Worksheet 15 and 16 (Attend Labs & Upload to Canvas)

Week 12:

Lecture #	Day	Date	Section(s)
Lecture 33	Monday	4/11	Midterm 2 Review
Midterm 2	Tuesday	April 12 th	Sections: 14.7, 14.8, 15.1-15.6, 13.1-13.3, 16.1 (Emphasis is on the material after Midterm 1.) 5:50-7:50 PM Room: Budig 130
Lecture 34	Wednesday	4/13	16.2: Line Integrals
Lecture 35	Friday	4/15	16.2: Line Integrals & 16.3: Conservative Vector Fields
Lab #	Day	Date	Section(s)
Lab 23	Monday or Tuesday	4/11 or 4/12	Practice Exam
Lab 24	Wednesday or Thursday	4/13 or 4/14	Week 12 - Lab 2: Worksheet 17 Section 16.1
Due Dates	Day	Date	Assignments
	Friday	4/15	Achieve Homework 11: Section 13.1-13.3
	Friday	4/15	Worksheet 17 (Attend Labs & Upload to Canvas)
Optional	Day	Date	Time and Place
Review	Saturday	4/9	1 PM - 3:00 PM, Room: Wescoe 3140
Practice Exam	Sunday	4/10	LEEP 2, Room 2415 at 7:00PM

Week 13: (Last day to withdraw: Monday April 18th)

Lecture #	Day	Date	Section(s)
Lecture 36	Monday	4/18	16.3: Conservative Vector Fields and 17.1: Green's Theorem
Lecture 37	Wednesday	4/20	17.1: Green's Theorem
Lecture 38	Friday	4/22	16.4: Parametrized Surfaces and Surface Integrals
Lab #	Day	Date	Section(s)
Lab 25	Monday or Tuesday	4/18 or 4/19	Week 13 - Lab 1: Worksheet 18 Section 16.2
Lab 26	Wednesday or Thursday	4/20 or 4/21	Week 13 - Lab 2: Worksheet 19 Section 16.3
Due Dates	Day	Date	Assignments
	Friday	4/22	Achieve 12: Sections 16.1 and 16.2
	Friday	4/22	Worksheet 18 and 19

Week 14:

Lecture #	Day	Date	Section(s)
Lecture 38	Monday	4/25	16.4:Parameterized Surfaces and Surface Integrals 16.5: Surface Integrals of Vector Fields
Lecture 39	Wednesday	4/27	16.5: Surface Integrals of Vector Fields
Lecture 40	Friday	4/29	16.5: Surface Integrals of Vector Fields 17.2: Stokes' Theorem
Lab #	Day	Date	Section(s)
Lab 26	Monday or Tuesday	4/25 or 4/26	Week 15 - Lab 1: Worksheet 20 Section 17.1
Lab 27	Wednesday or Thursday	4/27 or 4/28	Week 15 - Lab 2: Worksheet 20 In-class Quiz 4: Sections 16.1, 16.2, 16.3,17.1 Study Worksheet 18, 19, 20 and Achieve 12, 13, 14
Due Dates	Day	Date	Assignments
	Friday	4/29	Achieve 13: Sections 16.2, 16.3 and 17.1
	Friday	4/29	Worksheet 20 (Attend Labs & Upload to Canvas)
	Friday	4/29	Diagnostic Quiz 5, - On Canvas (Extra Credit) Sections 13.1-13.3, 16.1, 16.2, 16.3 and 17.1

Week 15:

Lecture #	Day	Date	Section
Lecture 41	Monday	5/2	17.2: Stokes' Theorem and 17.3: Divergence Theorem
Lecture 42	Wednesday	5/4	Chapters 16 and 17 Review
Stop Day	Friday	5/6	Stop day Review
Lab #	Day	Date	Section(s)
Lab 28	Monday or Tuesday	5/2 or 5/3	Week 16 - Lab 1: Worksheet 21 Sections 16.4 and 16.5
Lab 29	Wednesday or Thursday	5/4 or 5/5	Week 16 - Lab 2: Worksheet 22 Sections 17.2 and 17.3
Due Dates	Day	Date	Assignments
	Thursday	5/5	Diagnostic Quiz 6 Canvas (Extra Credit) Sections 16.4, 16.5, 17.2, 17.3
	Thursday	5/5	Achieve 14: Sections 16.5, 17.2 and 17.3
	Thursday	5/5	Worksheet 21 and 22 (Attend Labs & Upload to Canvas)
Optional	Day	Date	Time and Place
Stop Day Review Help room	Friday	5/6	1-3 PM Budig 130 Closes on Friday 5/6, but We reopen on Monday 12/13 10AM- a little past 3PM

Final Exams Week :

Final Exam	Tuesday, May 10 th	4:30 - 7 PM	Location depends on your lab instructor (TBA)
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