

# Math 127 - Calculus III - Spring 2024 Schedule

## Week 1:

Lecture #	Day	Date	Section(s)
	Monday	1/15	Dr. Martin Luther King Day (No School)
Lecture 1	Wednesday	1/17	Introduction and Vector Review
Lecture 2	Friday	1/19	Vector Review
Lab #	Day	Date	Section(s)
	Monday	1/15	Dr. Martin Luther King Day (No School)
Lab 1	or Tuesday	or 1/16	Section(s): Vector Review (Week1-Lab1-Worksheet1)
Lab 2	Wednesday or Thursday	1/17 or 1/18	Week 1-Lab 2-Worksheet 1 Section(s): Vector Review
Due Dates	Day	Date	Assignments
	Friday	1/19	Individual Worksheet 1 (Attend Labs & Upload to Canvas)
	Friday	1/19	Achieve Homework 0 - Section(s) Vector Review
		1/19	Diagnostic Quiz 1 (Extra credit)

## Week 2:

Lecture #	Day	Date	Section(s)
Lecture 3	Monday	1/22	12.6: A Survey of Quadric Surfaces
Lecture 4	Wednesday	1/24	14.1: Functions of Two or More Variables
Lecture 5	Friday	1/26	11.3: Polar Coordinates and 12.7: Cylindrical and Spherical Coordinates
Lab #	Day	Date	Section(s)
Lab 3	Monday or Tuesday	1/22 or 1/23	Week 2-Lab 1-Worksheet 2 Section(s): Review
Lab 4	Wednesday or Thursday	1/24 or 1/25	Week 2-Lab 2-Worksheet 2 Section(s): Review  <b>In-Class Quiz 1: Vector review, Equations of lines and Planes, Integration Techniques and Parametrization</b>
Due Dates	Day	Date	Assignments
	Friday	1/26	Individual Worksheet 2 (Attend Labs & Upload to Canvas)
	Friday	1/26	Achieve Homework 1 - Section(s) 12.6
			Diagnostic Quiz (No Assignment)

### Week 3:

Lecture #	Day	Date	Section(s)
Lecture 6	Monday	1/29	Catch Up & 14.2: Limits and Continuity in Several Variables
Lecture 7	Wednesday	1/31	14.2: Limits and Continuity in Several Variables
Lecture 8	Friday	2/2	14.3: Partial Derivatives
Lab #	Day	Date	Section(s)
Lab 5	Monday or Tuesday	1/29 or 1/30	Week 3-Lab 1-Worksheet 3  Section(s): 12.6 & 14.1
Lab 6	Wednesday or Thursday	1/31 or 2/1	Week 3-Lab 2-Worksheet 4  Section(s): 12.7
Due Dates	Day	Date	Assignments
	Friday Friday	2/2 2/2	Individual Worksheet 3 and 4 (Attend Labs & Upload to Canvas) Achieve Homework 2 - Section(s) 14.1, 12.7 Diagnostic Quiz (No Assignment)

Last Day to withdraw without a W: Monday February 5<sup>th</sup>, 2024

### Week 4:

Lecture #	Day	Date	Section(s)
Lecture 9	Monday	2/5	14.4: Differentiability and Tangent Lines
Lecture 10	Wednesday	2/7	14.4: Differentiability and Tangent Lines & Catch Up
Lecture 11	Friday	2/9	14.5: The Gradient and Directional Derivatives
Lab #	Day	Date	Section(s)
Lab 7	Monday or Tuesday	2/5 or 2/6	Week 4-Lab 1-Worksheet 5  Section(s): 14.2
Lab 8	Wednesday or Thursday	2/7 or 2/8	Week 4-Lab 2-Worksheet 6  Section(s): 14.3
Due Dates	Day	Date	Assignments
	Friday Friday	2/9 2/9	Individual Worksheet 5 and 6 (Attend Labs & Upload to Canvas) Achieve Homework 3 - Section(s) 14.2, 14.3 Diagnostic Quiz (No Assignment)

## Week 5:

Lecture #	Day	Date	Section(s)
Lecture 12	Monday	2/12	14.6: The Chain Rule
Lecture 13	Wednesday	2/14	14.6: The Chain Rule
Lecture 14	Friday	2/16	14.7: Optimization in Several Variables
Lab #	Day	Date	Section(s)
Lab 9	Monday or Tuesday	2/12 or 2/13	Week 5-Lab 1-Worksheet 7  Section(s): 14.4 & 14.5
Lab 10	Wednesday or Thursday	2/14 or 2/15	Week 5-Lab 2-Worksheet 7  Section(s): 14.4 & 14.5  <b>In-Class Quiz 2: 14.2, 14.3 and 14.4</b>
Due Dates	Day	Date	Assignments
	Friday	2/16	Individual Worksheet 7 <small>(Attend Labs &amp; Upload to Canvas)</small>
	Friday	2/16	Achieve Homework 4 - Section(s) 14.4, 14.5
		2/16	Diagnostic Quiz 2 <small>(Extra credit)</small>

## Week 6:

Lecture #	Day	Date	Section(s)
Lecture 15	Monday	2/19	14.7: Optimization in Several Variables
Lecture 16	Wednesday	2/21	14.8: Lagrange Multipliers
Lecture 17	Friday	2/23	Catch Up & 15.1: Integration in Two Variables
Lab #	Day	Date	Section(s)
Lab 11	Monday or Tuesday	2/19 or 2/20	Week 6-Lab 1-Worksheet 8  Section(s): 14.6
Lab 12	Wednesday or Thursday	2/21 or 2/22	Week 6-Lab 2-Worksheet 9  Section(s): 14.7
Due Dates	Day	Date	Assignments
	Friday	2/23	Individual Worksheet 8 and 9 <small>(Attend Labs &amp; Upload to Canvas)</small>
	Friday	2/23	Achieve Homework 5 - Section(s) 14.6
		2/23	Diagnostic Quiz 3 <small>(Extra credit)</small>

Optional-Review	Day	Date	Time and Place
Exam Review	Friday	2/23	5:00 – 7:00 PM, Wescoe 3139
Practice-Exam	Sunday	2/25	Time TBA, Place: LEEP 2

## Week 7:

Lecture #	Day	Date	Section(s)
Lecture 18	Monday	2/26	Exam Review
<b>Midterm 1</b>	Tuesday	2/27	<b>5:50-7:50 PM Room: TBA</b> <b>Sections: 12.6, 12.7, 14.1-14.8</b>
Lecture 19	Wednesday	2/28	15.1 & 15.2: Double Integrals over General Regions
Lecture 20	Friday	3/1	15.2: Double Integrals over General Regions
Lab #	Day	Date	Section(s)
Lab 13	Monday or Tuesday	2/26 or 2/27	Practice Exam  Section(s): Exam Review
Lab 14	Wednesday or Thursday	2/28 or 2/29	Week 7-Lab 2-Worksheet 10  Section(s): 14.8
Due Dates	Day	Date	Assignments
	Friday Friday	3/1 3/1	Individual Worksheet 10 <small>(Attend Labs &amp; Upload to Canvas)</small> Achieve Homework 6 - Section(s) 14.7, 14.8 Diagnostic Quiz (No Assignment)

## Week 8:

Lecture #	Day	Date	Section(s)
Lecture 21	Monday	3/4	15.2: Double Integrals over General Regions
Lecture 22	Wednesday	3/6	15.3: Triple Integrals
Lecture 23	Friday	3/8	15.3: Triple Integrals
Lab #	Day	Date	Section(s)
Lab 15	Monday or Tuesday	3/4 or 3/5	Week 8-Lab 1-Worksheet 11  Section(s): 15.1
Lab 16	Wednesday or Thursday	3/6 or 3/7	Week 8-Lab 2-Worksheet 12  Section(s): 15.2
Due Dates	Day	Date	Assignments
	Friday Friday	3/8 3/8	Individual Worksheet 11 and 12 <small>(Attend Labs &amp; Upload to Canvas)</small> Achieve Homework 7 - Section(s) 15.1, 15.2 Diagnostic Quiz (No Assignment)

Spring Break: Monday, March 11, 2024- Sunday, March 17, 2024

### Week 9:

Lecture #	Day	Date	Section(s)
Lecture 24	Monday	3/18	15.6: Change of Variables
Lecture 25	Wednesday	3/20	15.6: Change of Variables
Lecture 26	Friday	3/22	15.4: Integration in Polar, Cylindrical, Spherical
Lab #	Day	Date	Section(s)
Lab 17	Monday or Tuesday	3/18 or 3/19	Week 9-Lab 1-Worksheet 13  Section(s): 15.2
Lab 18	Wednesday or Thursday	3/20 or 3/21	Week 9-Lab 2-Worksheet 13  Section(s): 15.3  <b>In-Class Quiz 3: 15.2 and 15.3</b>
Due Dates	Day	Date	Assignments
	Friday Friday	3/22 3/22 3/22	Individual Worksheet 13 <small>(Attend Labs &amp; Upload to Canvas)</small> Achieve Homework 8 - Section(s) 15.3 Diagnostic Quiz 4 <small>(Extra credit)</small>

### Week 10:

Lecture #	Day	Date	Section(s)
Lecture 27	Monday	3/25	15.4 & 15.5: Applications of Multiple Integrals
Lecture 28	Wednesday	3/27	13.1: Vector-Valued Functions
Lecture 29	Friday	3/29	13.2: Calculus of Vector-Valued Functions
Lab #	Day	Date	Section(s)
Lab 19	Monday or Tuesday	3/25 or 3/26	Week 10-Lab 1-Worksheet 14  Section(s): 15.6
Lab 20	Wednesday or Thursday	3/27 or 3/28	Week 10-Lab 2-Worksheet 15  Section(s): 15.4
Due Dates	Day	Date	Assignments
	Friday Friday	3/29 3/29	Individual Worksheet 14 and 15 <small>(Attend Labs &amp; Upload to Canvas)</small> Achieve Homework 9 - Section(s) 15.6 Diagnostic Quiz (No Assignment)

## Week 11:

Lecture #	Day	Date	Section(s)
Lecture 30	Monday	4/1	13.3: Arc Length and Speed
Lecture 31	Wednesday	4/3	16.1: Vector Fields
Lecture 32	Friday	4/5	16.1: Vector Fields
Lab #	Day	Date	Section(s)
Lab 21	Monday	4/1	Week 11-Lab 1-Worksheet 16
	or Tuesday	4/2	Section(s): 13.1, 13.2
Lab 22	Wednesday	4/3	Week 11-Lab 2-Worksheet 17
	or Thursday	4/4	Section(s): 13.3, 16.1
Due Dates	Day	Date	Assignments
	Friday	4/5	Individual Worksheet 16 and 17 <small>(Attend Labs &amp; Upload to Canvas)</small>
	Friday	4/5	Achieve Homework 10 - Section(s) 13.1-13.3
Optional-Review	Day	Date	Time and Place
Exam Review	Friday	4/5	5:00 – 7:00 PM, Wescoe 3139
Practice-Exam	Sunday	4/7	Time TBA, Place: LEEP 2

## Week 12:

Lecture #	Day	Date	Section(s)
Lecture 33	Monday	4/8	Exam Review
<b>Midterm 2</b>	Tuesday	4/9	<b>5:50-7:50 PM Room: TBA</b> <b>Sections: 14.8, 15.1-15.6, 13.1-13.3, 16.1</b>
Lecture 34	Wednesday	4/10	16.2: Line Integrals
Lecture 35	Friday	4/12	16.2: Line Integrals
Lab #	Day	Date	Section(s)
Lab 23	Monday	4/8	Practice Exam
	or Tuesday	4/9	Section(s): 16.1,16.2
Lab 24	Wednesday	4/10	Week 12-Lab 2-Worksheet 18
	or Thursday	4/11	Section(s): 16.2
Due Dates	Day	Date	Assignments
	Friday	4/12	Individual Worksheet 18 <small>(Attend Labs &amp; Upload to Canvas)</small>
	Friday	4/12	Achieve Homework 11 - Section(s) 16.1, 16.2 Diagnostic Quiz (No Assignment)

Last Day to withdraw: Monday April 15<sup>th</sup>, 2024

### Week 13:

Lecture #	Day	Date	Section(s)
Lecture 36	Monday	4/15	16.3: Conservative Vector Fields
Lecture 37	Wednesday	4/17	17.1: Green's Theorem
Lecture 38	Friday	4/19	17.1: Green's Theorem
Lab #	Day	Date	Section(s)
Lab 25	Monday or Tuesday	4/15 or 4/16	Week 13-Lab 1-Worksheet 19 Section(s): 16.3
Lab 26	Wednesday or Thursday	4/17 or 4/18	Week 13-Lab 2-Worksheet 20 Section(s): 17.1
Due Dates	Day	Date	Assignments
	Friday	4/19	Individual Worksheet 19 and 20 (Attend Labs & Upload to Canvas)
	Friday	4/19	Achieve Homework 12 - Section(s) 16.3, 17.1 Diagnostic Quiz (No Assignment)

### Week 14:

Lecture #	Day	Date	Section(s)
Lecture 39	Monday	4/22	16.4: Parametrized Surfaces and Surface Integrals
Lecture 40	Wednesday	4/24	16.4 & 16.5: Surface Integrals of Vector Fields
Lecture 41	Friday	4/26	16.5: Surface Integrals of Vector Fields
Lab #	Day	Date	Section(s)
Lab 27	Monday or Tuesday	4/22 or 4/23	Week 14-Lab 1-Worksheet 21 Section(s): 16.4 <b>In-Class Quiz 4: 16.2, 16.3, 17.1</b>
Lab 28	Wednesday or Thursday	4/24 or 4/25	Week 14-Lab 2-Worksheet 21 Section(s): 16.4
Due Dates	Day	Date	Assignments
	Friday	4/26	Individual Worksheet 21 (Attend Labs & Upload to Canvas)
	Friday	4/26	Achieve Homework 13 - Section(s) 16.4, 16.5 Diagnostic Quiz 6 (Extra credit)

## Week 15:

Lecture #	Day	Date	Section(s)
Lecture 42	Monday	4/29	17.2: Stokes' Theorem 17.3: Divergence Theorem
Lecture 43	Wednesday	5/1	Catch Up& Chapter 16, 17 Review
	Friday	5/3	Stop Day (No School)
Lab #	Day	Date	Section(s)
Lab 29	Monday or Tuesday	4/29 or 4/30	Week 15-Lab 1-Worksheet 22 Section(s): 16.5
Lab 30	Wednesday or Thursday	5/1 or 5/2	Week 15-Lab 2-Worksheet 23 Section(s): 17.1, 17.2
Due Dates	Day	Date	Assignments
	Thursday	5/2	Individual Worksheet 22 and 23 (Attend Labs & Upload to Canvas)
	Thursday	5/2	Achieve Homework 14 - Section(s) 16.4, 16.5
		5/2	Diagnostic Quiz 7 (Extra credit)

Optional-Review	Day	Date	Time and Place
Exam Review	Friday	5/3	1:00 - 3:00 PM, Wescoe 3139

<b>Final Exam</b>	Monday	May 6 <sup>th</sup>	4:30 - 7 PM	TBA
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