

## Math 127 - Calculus III - Spring 2023 Schedule

### Week 1:

Lecture #	Day	Date	Section(s)
	Monday	1/16	Dr. Martin Luther King Day (No School)
Lecture 1	Wednesday	1/18	Introduction and Vector Review
Lecture 2	Friday	1/20	Vector Review
Lab #	Day	Date	Section(s)
	Monday	1/16	Dr. Martin Luther King Day (No School)
Lab 1	or Tuesday	or 1/17	Section(s): Vector Review (Week1-Lab1-Worksheet1)
Lab 2	Wednesday or Thursday	1/18 or 1/19	Week 1-Lab 2-Worksheet 1  Section(s): Vector Review
Due Dates	Day	Date	Assignments
	Friday	1/20	Individual Worksheet 1 (Attend Labs & Upload to Canvas)
	Friday	1/20	Achieve Homework 0 - Section(s) Vector Review
		1/20	Diagnostic Quiz 1 (Extra credit)

### Week 2:

Lecture #	Day	Date	Section(s)
Lecture 3	Monday	1/23	12.6: A Survey of Quadric Surfaces
Lecture 4	Wednesday	1/25	14.1: Functions of Two or More Variables
Lecture 5	Friday	1/27	11.3: Polar Coordinates and 12.7: Cylindrical and Spherical Coordinates
Lab #	Day	Date	Section(s)
Lab 3	Monday or Tuesday	1/23 or 1/24	Week 2-Lab 1-Worksheet 2  Section(s): Review
Lab 4	Wednesday or Thursday	1/25 or 1/26	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	1/27	Individual Worksheet 2 (Attend Labs & Upload to Canvas)
	Friday	1/27	Achieve Homework 1 - Section(s) 12.6
			Diagnostic Quiz (No Assignment)

### Week 3:

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

Last Day to withdraw without a W: Monday February 6<sup>th</sup>, 2023

### Week 4:

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

## Week 5:

Lecture #	Day	Date	Section(s)
Lecture 12	Monday	2/13	14.6: The Chain Rule
Lecture 13	Wednesday	2/15	14.6: The Chain Rule
Lecture 14	Friday	2/17	14.7: Optimization in Several Variables
Lab #	Day	Date	Section(s)
Lab 9	Monday	2/13	Week 5-Lab 1-Worksheet 7
	or Tuesday	or 2/14	Section(s): 14.4 & 14.5
Lab 10	Wednesday	2/15	Week 5-Lab 2-Worksheet 7
	or Thursday	or 2/16	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	2/17	Individual Worksheet 7 <i>(Attend Labs &amp; Upload to Canvas)</i>
	Friday	2/17	Achieve Homework 4 - Section(s) 14.4, 14.5
		2/17	Diagnostic Quiz 2 <i>(Extra credit)</i>

## Week 6:

Lecture #	Day	Date	Section(s)
Lecture 15	Monday	2/20	14.7: Optimization in Several Variables
Lecture 16	Wednesday	2/22	14.8: Lagrange Multipliers
Lecture 17	Friday	2/24	Catch Up & 15.1: Integration in Two Variables
Lab #	Day	Date	Section(s)
Lab 11	Monday	2/20	Week 6-Lab 1-Worksheet 8
	or Tuesday	or 2/21	Section(s): 14.6
Lab 12	Wednesday	2/22	Week 6-Lab 2-Worksheet 9
	or Thursday	or 2/23	Section(s): 14.7
Due Dates	Day	Date	Assignments
	Friday	2/24	Individual Worksheet 8 and 9 <i>(Attend Labs &amp; Upload to Canvas)</i>
	Friday	2/24	Achieve Homework 5 - Section(s) 14.6
		2/24	Diagnostic Quiz 3 <i>(Extra credit)</i>

Optional-Review	Day	Date	Time and Place
Exam Review	Saturday	2/25	1:15 – 3:30 PM, Wescoe 3139
Practice-Exam	Sunday	2/26	Time TBA, Place: LEEP 2

### Week 7:

Lecture #	Day	Date	Section(s)
Lecture 18	Monday	2/27	Exam Review
<b>Midterm 1</b>	Tuesday	2/28	<b>5:50-7:50 PM Room: Tentatively Budig 130</b> <b>Sections: 12.6, 12.7, 14.1-14.8</b>
Lecture 19	Wednesday	3/1	15.1 & 15.2: Double Integrals over General Regions
Lecture 20	Friday	3/3	15.2: Double Integrals over General Regions
Lab #	Day	Date	Section(s)
Lab 13	Monday or Tuesday	2/27 or 2/28	Practice Exam  Section(s): Exam Review
Lab 14	Wednesday or Thursday	3/1 or 3/2	Week 7-Lab 2-Worksheet 10  Section(s): 14.8
Due Dates	Day	Date	Assignments
	Friday Friday	3/3 3/3	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	3/6	15.2: Double Integrals over General Regions
Lecture 22	Wednesday	3/8	15.3: Triple Integrals
Lecture 23	Friday	3/10	15.3: Triple Integrals
Lab #	Day	Date	Section(s)
Lab 15	Monday or Tuesday	3/6 or 3/7	Week 8-Lab 1-Worksheet 11  Section(s): 15.1
Lab 16	Wednesday or Thursday	3/8 or 3/9	Week 8-Lab 2-Worksheet 12  Section(s): 15.2
Due Dates	Day	Date	Assignments
	Friday Friday	3/10 3/10	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)

### Week 9:

Lecture #	Day	Date	Section(s)
Lecture 24	Monday	3/20	15.6: Change of Variables
Lecture 25	Wednesday	3/22	15.6: Change of Variables
Lecture 26	Friday	3/24	15.4: Integration in Polar, Cylindrical, Spherical
Lab #	Day	Date	Section(s)
Lab 17	Monday	3/20	Week 9-Lab 1-Worksheet 13
	or Tuesday	or 3/21	Section(s): 15.2
Lab 18	Wednesday	3/22	Week 9-Lab 2-Worksheet 13
	or Thursday	or 3/23	Section(s): 15.3  <b>In-Class Quiz 3: 15.2 and 15.3</b>
Due Dates	Day	Date	Assignments
	Friday	3/24	Individual Worksheet 13 <small>(Attend Labs &amp; Upload to Canvas)</small>
	Friday	3/24	Achieve Homework 8 - Section(s) 15.3
		3/24	Diagnostic Quiz 4 <small>(Extra credit)</small>

### Week 10:

Lecture #	Day	Date	Section(s)
Lecture 27	Monday	3/27	15.4 & 15.5: Applications of Multiple Integrals
Lecture 28	Wednesday	3/29	13.1: Vector-Valued Functions
Lecture 29	Friday	3/31	13.2: Calculus of Vector-Valued Functions
Lab #	Day	Date	Section(s)
Lab 19	Monday	3/27	Week 10-Lab 1-Worksheet 14
	or Tuesday	or 3/28	Section(s): 15.6
Lab 20	Wednesday	3/29	Week 10-Lab 2-Worksheet 15
	or Thursday	or 3/30	Section(s): 15.4
Due Dates	Day	Date	Assignments
	Friday	3/31	Individual Worksheet 14 and 15 <small>(Attend Labs &amp; Upload to Canvas)</small>
	Friday	3/31	Achieve Homework 9 - Section(s) 15.6
			Diagnostic Quiz (No Assignment)

## Week 11:

Lecture #	Day	Date	Section(s)
Lecture 30	Monday	4/3	13.3: Arc Length and Speed
Lecture 31	Wednesday	4/5	16.1: Vector Fields
Lecture 32	Friday	4/7	16.1: Vector Fields
Lab #	Day	Date	Section(s)
Lab 21	Monday	4/3	Week 11-Lab 1-Worksheet 16
	or Tuesday	4/4	Section(s): 13.1, 13.2
Lab 22	Wednesday	4/5	Week 11-Lab 2-Worksheet 17
	or Thursday	4/6	Section(s): 13.3, 16.1
Due Dates	Day	Date	Assignments
	Friday	4/7	Individual Worksheet 16 (Attend Labs & Upload to Canvas)
	Friday	4/7	Achieve Homework 10 - Section(s) 13.1-13.3
		4/7	Diagnostic Quiz 5 (Extra credit)

Optional-Review	Day	Date	Time and Place
Exam Review	Saturday	4/8	1:15 – 3:30 PM, Wescoe 3139
Practice-Exam	Sunday	4/9	Time TBA, Place: LEEP 2

## Week 12:

Lecture #	Day	Date	Section(s)
Lecture 33	Monday	4/10	Exam Review
Midterm 2	Tuesday	4/11	5:50-7:50 PM Room: Tentatively Budig 130 Sections: 14.8, 15.1-15.6, 13.1-13.3, 16.1
Lecture 34	Wednesday	4/12	16.2: Line Integrals
Lecture 35	Friday	4/14	16.2: Line Integrals
Lab #	Day	Date	Section(s)
Lab 23	Monday	4/10	Practice Exam
	or Tuesday	4/11	Section(s): 16.1,16.2
Lab 24	Wednesday	4/12	Week 12-Lab 2-Worksheet 18
	or Thursday	4/13	Section(s): 16.2
Due Dates	Day	Date	Assignments
	Friday	4/14	Individual Worksheet 17 and 18 (Attend Labs & Upload to Canvas)
	Friday	4/14	Achieve Homework 11 - Section(s) 16.1, 16.2
			Diagnostic Quiz (No Assignment)

Last Day to withdraw: Monday April 17<sup>th</sup>, 2023

### Week 13:

Lecture #	Day	Date	Section(s)
Lecture 36	Monday	4/17	16.3: Conservative Vector Fields
Lecture 37	Wednesday	4/19	17.1: Green's Theorem
Lecture 38	Friday	4/21	17.1: Green's Theorem
Lab #	Day	Date	Section(s)
Lab 25	Monday or Tuesday	4/17 or 4/18	Week 13-Lab 1-Worksheet 19 Section(s): 16.3
Lab 26	Wednesday or Thursday	4/19 or 4/20	Week 13-Lab 2-Worksheet 20 Section(s): 17.1
Due Dates	Day	Date	Assignments
	Friday Friday	4/21 4/21	Individual Worksheet 19 and 20 (Attend Labs & Upload to Canvas) Achieve Homework 12 - Section(s) 16.3, 17.1 Diagnostic Quiz (No Assignment)

### Week 14:

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

## Week 15:

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

Optional-Review	Day	Date	Time and Place
Exam Review	Friday	5/5	12:30 - 2:50 PM, Wescoe 3139

<b>Final Exam</b>	Thursday	May 11 <sup>th</sup>	4:30 - 7 PM	Final Exam Room Depends on Your Lab Instructor (TBA)
-------------------	----------	----------------------	-------------	--