Math 127 - Calculus III
Fall 2022 Schedule

Week 1:

Lecture #	Day	Date	Section(s)	
Lecture 1	Monday	8/22	Introduction and Vector Review	
Lecture 2	Wednesday	8/24	Vector Review and Start of 12.6	
Lecture 3	Friday	8/26	12.6: A Survey of Quadric Surfaces	
Lab #	**Day**	**Date**	**Section(s)**	
Lab 1	Monday or Tuesday	8/22 or 8/23	Week 1: Lab 1: Worksheet 1 Vector Review	
Lab 2	Wednesday or Thursday	8/24 or 8/25	Week 1: Lab 2: Worksheet 2 Vector Review	
Due Dates	**Day**	**Date**	**Assignments**	
	Friday Friday Friday	8/26 8/26 8/26	Diagnostic Quiz 1- Vector Review Canvas (Extra Credit) Achieve Homework 0: Vector Review Worksheets 1 and 2 (Attend Labs & Upload to Canvas)	

Week 2:

Lecture #	Day	Date	Section(s)	
Lecture 4	Monday	8/29	14.1: Functions of Two or More Variables	
Lecture 5	Wednesday	8/31	11.3: Polar Coordinates 12.7: Cylindrical and Spherical Coordinates	
Lecture 6	Friday	9/2	Catch up 14.2: Limits and Continuity in Several Variables	
Lab #	**Day**	**Date**	**Section(s)**	
Lab 3	Monday or Tuesday	8/29 or 8/30	Week 2: Lab 1: Worksheet 3 Sections 12.6 and start of 14.1	
Lab 4	Wednesday or Thursday	8/31 or 9/1	Week 2: Worksheet 3 In-class Review Quiz 1: Equation of Lines and Planes, and Integration Techniques	
Due Dates	**Day**	**Date**	**Assignments**	
	Friday Friday	9/2 9/2	Achieve Homework 1: Section 12.6 Worksheet 3 (Attend Labs & Upload to Canvas)	

Week 3:

Lecture #	Day	Date	Section(s)
	Monday	9/5	Labor Day (No School)
Lecture 7	Wednesday	9/7	14.2: Limits and Continuity in Several Variables
Lecture 8	Friday	9/9	14.3: Partial Derivatives
Lab #	**Day**	**Date**	**Section(s)**
Lab 5	Tuesday	9/6	Week 3: Lab 1: Worksheet 4 Sections 12.7 and 14.2
Lab 6	Wednesday or Thursday	9/7 or 9/8	Week 3: Lab 1 or 2: Worksheet 4 Sections 12.7 and 14.2
Due Dates	**Day**	**Date**	**Assignments**
	Friday Friday	9/9 9/9	Achieve Homework 2: Sections 12.7 and 14.1 Worksheet 4(Attend Labs & Upload to Canvas)

Week 4:

Lecture #	Day	Date	Section
Lecture 9	Monday	9/12	14.4: Differentiability and Tangent Lines
Lecture 10	Wednesday	9/14	Catch Up 14.5: The Gradient and Directional Derivatives
Lecture 11	Friday	9/16	14.5: The Gradient and Directional Derivatives
Lab #	**Day**	**Date**	**Section(s)**
Lab 7	Monday or Tuesday	9/12 or 9/13	Week 4: Lab 1: Worksheet 5 Sections 14.2 and 14.3
Lab 8	Wednesday or Thursday	9/14 or 9/15	Work 4: Lab 1 or 2: Worksheet 5 In-class Quiz 2: Sections 14.2 and 14.3
Due Dates	**Day**	**Date**	**Assignments**
	Friday Friday Friday	9/16 9/16 9/16	Diagnostic Quiz 2 - On Canvas (Extra Credit) Sections 12.6, 12.7, 14.1, 14.2, 14.3 Achieve Homework 3: Sections 14.2 and 14.3 Worksheets 5 (Attend Labs & Upload to Canvas)

Week 5:

Lecture #	Day	Date	Section(s)
Lecture 12	Monday	9/19	14.6: The Chain Rule
Lecture 13	Wednesday	9/21	14.6: The Chain Rule
Lecture 14	Friday	9/23	14.7: Optimization in Several Variables
Lab #	**Day**	**Date**	**Section(s)**
Lab 9	Monday or Tuesday	9/19 or 9/20	Week 5: lab 1: Worksheet 6 Sections 14.3 and 14.4
Lab 10	Wednesday or Thursday	9/21 or 9/22	Week 5: Lab 2: Worksheet 7 Sections 14.4 and 14.5
Due Dates	**Day**	**Date**	**Assignments**
	Friday Friday	9/23 9/23	Achieve Homework 4: Sections 14.4 and 14.5 Worksheets 6 and 7 (Attend Labs & Upload to Canvas)

Week 6:

Lecture #	Day	Date	Section
Lecture 15	Monday	9/26	14.7: Optimization in Several Variables
Lecture 16	Wednesday	9/28	Midterm 1 Review
Midterm 1	Wednesday	9/28	5:50-7:50 PM Room: Tentatively Budig 120 Sections: 12.6, 12.7, 14.1-14.7
Lecture 17	Friday	9/30	14.8: Lagrange Multipliers
Lab #	**Day**	**Date**	**Section(s)**
Lab 11	Wednesday or Tuesday	9/28 or 9/27	Practice Exam
Lab 12	Monday or Thursday	9/26 or 9/29	Week 6: Lab 1 or 2: Worksheet 8 Section 14.6 and 14.7
Due Dates	**Day**	**Date**	**Assignments**
	Friday Friday Friday	9/30 9/30 9/30	Diagnostic Quiz 3 - Canvas (Extra Credit) 14.5, 14.6 and 14.7 On Canvas (Extra Credit) Achieve Homework 5: Section 14.6 Worksheet 8 (Attend Labs & Upload to Canvas)
Optional	**Day**	**Date**	**Time and Place**
Review Practice Exam	Saturday Sunday	9/24 LEEP 2	1:00 – 3:00 PM, Wescoe 3139 Time 4-6 pm

Week 7:

Lecture #	Day	Date	Section(s)	
Lecture 18	Monday	10/3	15.1: Integration in Two Variables	
Lecture 19	Wednesday	10/5	Catch Up 15.2: Double Integrals over General Regions	
Lecture 20	Friday	10/7	15.2: Double Integrals over General Regions	
Lab #	**Day**	**Date**	**Section(s)**	
Lab 13	Monday or Tuesday	10/3 or 10/4	Week 7: Lab 1: Worksheet 9 Section 14.7	
Lab 14	Wednesday or Thursday	10/5 or 10/6	Week 7: Lab 2: Worksheet 10 Section 14.8	
Due Dates	**Day**	**Date**	**Assignments**	
	Friday Friday	10/7 10/7	Achieve Homework 6: Sections 14.7 and 14.8 Worksheet 9 and 10 (Attend Labs & Upload to Canvas)	

Week 8:

Lecture #	Day	Date	Section	
Fall Break	Monday	10/10		
Lecture 22	Wednesday	10/12	15.2: Double Integrals and 15.3: Triple Integrals	
Lecture 23	Friday	10/14	15.3: Triple Integrals	
Lab #	**Day**	**Date**	**Section(s)**	
Fall Break	Monday or Tuesday	10/10 or 10/11		
Lab 15	Wednesday or Thursday	10/12 or 10/13	Week 8: Lab 2: Worksheet 11 Sections 15.2	
Due Dates	**Day**	**Date**	**Assignments**	
	Friday Friday Friday	10/14 10/14 10/14	Diagnostic Quiz 4 -Canvas (Extra Credit) Section 15.1, 15.2 and 15.3 on Canvas (Extra Credit) Achieve Homework 7: Sections 15.1 and 15.2 Worksheet 11 (Attend Labs & Upload to Canvas)	

Week 9:

Lecture #	Day	Date	Section(s)
Lecture 24	Monday	10/17	15.3: Triple Integrals
Lecture 25	Wednesday	10/19	15.6: Change of Variables
Lecture 26	Friday	10/21	15.6: Change of Variables
Lab #	**Day**	**Date**	**Section(s)**
Lab 16	Monday or Tuesday	10/17 or 10/18	Week 9: Lab 1: Worksheet 12 Section 15.3
Lab 17	Wednesday or Thursday	10/19 or 10/20	Worksheet 12 In-class Quiz 3: Sections 15.2 and 15.3
Due Dates	**Day**	**Date**	**Assignments**
	Friday Friday	10/21 10/21	Achieve Homework 8: Section 15.3 Worksheet 12 (Attend Labs & Upload to Canvas)

Week 10:

Lecture #	Day	Date	Section
Lecture 27	Monday	10/24	15.4: Integration in Polar, Cylindrical, Spherical
Lecture 28	Wednesday	10/26	15.5: Applications of Multiple Integrals
Lecture 29	Friday	10/28	13.1: Vector-Valued Functions and 13.2: Calculus of Vector-Valued Functions
Lab #	**Day**	**Date**	**Section(s)**
Lab 18	Monday or Tuesday	10/24 or 10/25	Week 10: Lab 1: Worksheet 13 Section 15.3
Lab 19	Wednesday or Thursday	10/26 or 10/27	Week 10: Lab 2: Worksheet 14 Section 15.6
Due Dates	**Day**	**Date**	**Assignments**
	Friday Friday Friday	10/28 10/28 10/28	Diagnostic Quiz 5 Canvas (Extra Credit) Sections 15.6, 15.4, 15.5 Achieve Homework 9: Sections 15.6 Worksheet 13 and 14 (Attend Labs & Upload to Canvas)

Week 11:

Lecture #	Day	Date	Section
Lecture 30	Monday	10/31	13.2: Calculus of Vector-Valued Functions
Lecture 31	Wednesday	11/2	Midterm 2 Review
Midterm 2	Wednesday	11/2	5:50-7:50 PM, Room: Tentatively Budig 120 Sections: 14.7, 14.8, 15.1-15.6, 13.1-13.3 (Emphasis is on the material after Midterm 1.)
Lecture 32	Friday	11/4	13.3: Arc Length and Speed
Lab #	**Day**	**Date**	**Section(s)**
Lab 20	Wednesday or Tuesday	11/2 or 11/1	Practice Exam
Lab 21	Monday or Thursday	10/31 or 11/3	Week 11: Lab 1 or 2: Worksheet 15 Sections 15.4 and 15.5
Due Dates	**Day**	**Date**	**Assignments**
	Friday Friday	11/4 11/4	Achieve Homework 10: Sections 15.4 and 15.5 Worksheet 15 (Attend Labs & Upload to Canvas)
Optional	**Day**	**Date**	**Time and Place**
Review Practice Exam	Saturday Sunday	10/29 LEEP 2	1:00 – 3:00 PM, Wescoe 3139 Time TBA

Week 12:

Lecture #	Day	Date	Section(s)
Lecture 33	Monday	11/7	16.1: Vector Fields
Lecture 34	Wednesday	11/9	16.1: Vector Fields and 16.2: Line Integrals
Lecture 35	Friday	11/11	16.2: Line Integrals
Lab #	**Day**	**Date**	**Section(s)**
Lab 22	Monday or Tuesday	11/7 or 11/8	Week 12: Lab 1: Worksheet 16 Sections 13.1-13.3
Lab 23	Wednesday or Thursday	11/9 or 11/10	Week 12: Lab 2: Worksheet 17 Section 16.1
Due Dates	**Day**	**Date**	**Assignments**
	Friday Friday	11/11 11/11	Achieve Homework 11: Section 13.1-13.3 Worksheet 16 and 17 (Attend Labs & Upload to Canvas)

Week 13:

Lecture #	Day	Date	Section(s)
Lecture 36	Monday	11/14	16.2: Line Integrals and 16.3: Conservative Vector Fields 17.1: Green's Theorem
Lecture 37	Wednesday	11/16	16.3: Conservative Vector Fields and 17.1: Green's Theorem (*Last day to withdraw*)
Lecture 38	Friday	11/18	17.1: Green's Theorem
Lab #	**Day**	**Date**	**Section(s)**
Lab 24	Monday or Tuesday	11/14 or 11/15	Week 13: Lab 1: Worksheet 18 Section 16.2
Lab 25	Wednesday or Thursday	11/16 or 11/17	Week 13: Lab 2: Worksheet 19 Section 16.3
Due Dates	**Day**	**Date**	**Assignments**
	Friday Friday	11/18 11/18	Achieve 12: Sections 16.1 and 16.2 Worksheet 18 and 19

Week 14:

Lecture #	Day	Date	Section
Lecture 39	Monday	11/21	17.1: Green's Theorem and 16.4: Parametrized Surfaces and Surface Integrals
Thanksgiving	Wednesday	11/23	
Thanksgiving	Friday	11/25	
Lab #	**Day**	**Date**	**Section(s)**
Lab 26	Monday or Tuesday	11/21 or 11/22	Week 14: Lab 1: Worksheet 20 Section 16.4
Thanksgiving	Wednesday or Thursday	11/23 or 11/24	
Due Dates	**Day**	**Date**	**Assignments**
	Friday Friday	11/29 11/25	Diagnostic Quiz 6 - Canvas (Extra Credit) Sections 13.1-13.3, 16.1, 16.2, 16.3 and 17.1 Worksheet 20 (Attend Labs & Upload to Canvas)

Week 15:

Lecture #	Day	Date	Section(s)
Lecture 40	Monday	11/28	16.4:Parameterized Surfaces and Surface Integrals and Catch up
Lecture 41	Wednesday	11/30	16.5: Surface Integrals of Vector Fields
Lecture 42	Friday	12/2	16.5: Surface Integrals of Vector Fields 17.2: Stokes' Theorem
Lab #	**Day**	**Date**	**Section(s)**
Lab 27	Monday or Tuesday	11/28 or 11/29	Week 15: Lab 1: Worksheet 21 Section 16.5
Lab 28	Wednesday or Thursday	11/30 or 12/1	Week 15: Lab 1 or 2: Worksheet 21 In-class Quiz 4: Sections 16.1, 16.2, 16.3 Study Worksheet 19, 20, 21 and Achieve 12, 13, 14
Due Dates	**Day**	**Date**	**Assignments**
	Thursday Friday	12/1 12/2	Achieve 13: Sections 16.3 and 17.1 Worksheet 21 (Attend Labs & Upload to Canvas)

Week 16:

Lecture #	Day	Date	Section
Lecture 43	Monday	12/5	17.2: Stokes' Theorem and 17.3: Divergence Theorem
Lecture 44	Wednesday	12/7	Chapters 16 and 17 Review
Stop Day	Friday	12/9	Stop day Review
Lab #	**Day**	**Date**	**Section(s)**
Lab 29	Monday or Tuesday	12/5 or 12/6	Week 16: Lab 1: Worksheet 22 Sections 17.2
Lab 30	Wednesday or Thursday	12/7 or 12/8	Week 16: Lab 2: Worksheet 23 Section 17.3
Due Dates	**Day**	**Date**	**Assignments**
	Thursday Thursday Thursday	12/8 12/8 12/8	Diagnostic Quiz 7Canvas (Extra Credit) Sections 16.4, 16.5, 17.2, 17.3 Achieve 14: Sections 16.5, 17.2 and 17.3 Worksheet 22 and 23 (Attend Labs & Upload to Canvas)
Optional	**Day**	**Date**	**Time and Place**
Stop Day Review Help room	Friday	12/9	1:00 - 3:00 PM Budig 110 Closes on Friday 12/9, but We reopen on Monday 12/12 for limited hours.

Final Exams Week :

Final Exam	**Wednesday**	**December 14^{th} 4:30 - 7 PM**	**Final Exam Room Depends on Your Lab Instructor (TBA)**