Math136 - Real Analysis II - AY2025-2026 spring

George McNinch

Lectures

Date	DOW	Desc	Seq	Week	Details
01/14	Wed	Lecture	1	1	13.1: Limits; 13.2: partial derivatives
01/19	Mon	Tufts		2	**No classes:** *MLK Day*
01/21	Wed	Lecture	2	2	13.3: The Mean Value Theorem and directional derivatives
01/21	Wed	Tufts		2	**Academic Date:** *Last day to add a course*
01/21	Wed	Tufts		2	**Tufts:** *Monday schedule*
01/26	Mon	Lecture	3	3	14.1: First order approximation, 14.2: quadratics, Hessian and 2nd derivs
01/28	Wed	Lecture	4	3	14.3: Second order approximation
02/02	Mon	Lecture	5	4	15.1: Linear maps and matrices; 15.2: derivative matrix, differential
02/04	Wed	Lecture	6	4	15.3: The chain rule
02/09	Mon	Lecture	7	5	16.1: Functions of a single variable and maps in the plane
02/11	Wed	Lecture	8	5	16.2: Stability of non-linear maps
02/16	Mon	Tufts		6	**No classes:** *Presidents' Day*
02/18	Wed	Lecture	9	6	midterm 1
02/18	Wed	Exam		6	**midterm 1**
02/18	Wed	Tufts		6	**Academic Date:** *Last day to drop a course without record*
02/23	Mon	Lecture	10	7	16.3: Minimization principle and the general inverse function theorem
02/25	Wed	Lecture	11	7	17.1: Dini's Theorem
03/02	Mon	Lecture	12	8	17.2: The general implicit function theorem
03/04	Wed	Lecture	13	8	17.3: Equations of surfaces and paths in space
03/09	Mon	Lecture	14	9	17.4: Constrained extrema problems
03/11	Wed	Lecture	15	9	6.1: Darboux sums; upper and lower integrals
03/14	Sat	Tufts		9	**No classes:** *Spring Break*
03/15	Sun	Tufts		9	**No classes:** *Spring Break*
03/16	Mon	Tufts		10	**No classes:** *Spring Break*
03/17	Tue	Tufts		10	**No classes:** *Spring Break*
03/18	Wed	Tufts		10	**No classes:** *Spring Break*
03/19	Thu	Tufts		10	**No classes:** *Spring Break*
03/20	Fri	Tufts		10	**No classes:** *Spring Break*
03/21	Sat	Tufts		10	**No classes:** *Spring Break*
03/22	Sun	Tufts		10	**No classes:** *Spring Break*
03/23	Mon	Lecture	16	11	midterm 2
03/25	Wed	Lecture	17	11	6.2: Archimedes Riemann Theorem
03/30	Mon	Lecture	18	12	6.3: additivity, monotonicity, linearity
03/31	Tue	Exam		12	**midterm 2**
04/01	Wed	Lecture	19	12	6.4: continuity and integrabilty
04/01	Wed	Tufts		12	**Academic Date:** *Last day to withdraw from a course with W*
04/01	Wed	Tufts		12	**Academic Date:** *Last day to select Pass/Fail Option*
04/06	Mon	Lecture	20	13	6.5: First fundamental theorem: integrating derivatives
04/08	Wed	Lecture	21	13	6.6: Second fundamental theorem: differentiating integrals
04/13	Mon	Lecture	22	14	Fourier Series 1
04/15	Wed	Lecture	23	14	Fourier Series 2
04/20	Mon	Tufts		15	**No classes:** *Patriots' Day*

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04/22	Wed	Lecture	24	15	Fourier Series 3
04/27	Mon	Lecture	25	16	Fourier Series 4
04/28	Tue	Tufts		16	**Academic Date:** *Reading Period*
04/29	Wed	Tufts		16	**Academic Date:** *Reading Period*
04/30	Thu	Tufts		16	**Academic Date:** *Reading Period*
05/01	Fri	Exam		16	**final exam**
05/01	Fri	Tufts		16	**Academic Date:** *Reading Period*
05/01	Fri	Tufts		16	**Academic Date:** *Final Exam Period*
05/02	Sat	Tufts		16	**Academic Date:** *Reading Period*
05/02	Sat	Tufts		16	**Academic Date:** *Final Exam Period*
05/03	Sun	Tufts		16	**Academic Date:** *Reading Period*
05/03	Sun	Tufts		16	**Academic Date:** *Final Exam Period*
05/04	Mon	Tufts		17	**Academic Date:** *Reading Period*
05/04	Mon	Tufts		17	**Academic Date:** *Final Exam Period*
05/05	Tue	Tufts		17	**Academic Date:** *Reading Period*
05/05	Tue	Tufts		17	**Academic Date:** *Final Exam Period*
05/06	Wed	Tufts		17	**Academic Date:** *Reading Period*
05/06	Wed	Tufts		17	**Academic Date:** *Final Exam Period*
05/07	Thu	Tufts		17	**Academic Date:** *Reading Period*
05/07	Thu	Tufts		17	**Academic Date:** *Final Exam Period*
05/08	Fri	Tufts		17	**Academic Date:** *Reading Period*
05/08	Fri	Tufts		17	**Academic Date:** *Final Exam Period*