Math087 - Mathematical Modelling - AY2024-2025 spring

George McNinch

Course Calendar

01/29 Wed Decture 4 3 **13:30-14:30 JCC 559 01/29 Wed Lecture 4 3 Types of optimization & linear programming 01/30 Thu Meeting Office hours 2 3 **14:30-15:30 JCC 559 01/31 Fri Assignment 3 PS02: Linear programming 02/03 Mon Lecture 5 4 Network flows 02/05 Wed Meeting Office hours 3 4 **13:30-14:30 JCC 559 02/05 Wed Lecture 6 4 Duality & complementary slackness 02/06 Thu Meeting Office hours 3 4 **14:30-15:30 JCC 559 02/07 Fri Assignment 4 PS03: Dual linear programs 02/10 Mon Lecture 7 5 Dual prices 02/12 Wed Meeting Office hours 4 5 **13:30-14:30 JCC 559 02/12 Wed Lecture 8 5 integer programming 02/13 Thu Meeting Office hours 5 <th>Date</th> <th>DOW</th> <th>Desc</th> <th>Seq</th> <th>Week</th> <th>Details</th>	Date	DOW	Desc	Seq	Week	Details
01/16 Thu Meeting Office hours 0 1 **14:30-15:30 JCC 559 01/17 Fri Assignment 1 no assignment collected 01/20 Mon Tufts 2 No classes: MLK Day 01/22 Wed Meeting Office hours 1 2 **13:30-14:30 JCC 559 01/22 Wed Tufts 2 Academic Date: Last day to add a course 01/23 Thu Meeting Office hours 1 2 **14:30-15:30 JCC 559 01/24 Fri Assignment 2 PS01: Optimization 2 01/29 Wed Lecture 3 Lagrange continued; root finding via Newton's method 01/29 Wed Lecture 4 3 Types of optimization 01/29 Wed Lecture 4 3 Types of optimization & linear programming 01/31 Fri Assignment 3 PS02: Linear programming 02/03 Mon Lecture 5 4 Network flows 02/05 Wed	01/15	Wed	Meeting	Office hours 0	1	**13:30-14:30 JCC 559
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03/05 Wed Meeting Office hours 7 8 **13:30-14:30 JCC 559						•
03/05 Wed Recting Office hours / 8 Iteration matrices; eigenvectors & power iterations						

Date	DOW	Desc	Seq	Week	Details
03/06	Thu	Meeting	Office hours 7	8	**14:30-15:30 JCC 559
03/07	Fri	Assignment		8	PS06: eigenvalues & Markov processes
03/10	Mon	Lecture	15	9	Markov chains
03/12	Wed	Meeting	Office hours 8	9	**13:30-14:30 JCC 559
03/12	Wed	Lecture	16	9	statistics
03/13	Thu	Meeting	Office hours 8	9	**14:30-15:30 JCC 559
03/14	Fri	Assignment		9	midterm report 2 (page-rank)
03/15	Sat	Tufts		9	No classes: Spring Break
03/16	Sun	Tufts		9	No classes: Spring Break
03/17	Mon	Tufts		10	No classes: Spring Break
03/18	Tue	Tufts		10	No classes: Spring Break
03/19	Wed	Tufts		10	No classes: Spring Break
03/20	Thu	Tufts		10	No classes: Spring Break
03/21	Fri	Assignment		10	(no homework – spring break)
03/21	Fri	Tufts		10	No classes: Spring Break
03/22	Sat	Tufts		10	No classes: Spring Break
03/23	Sun	Tufts		10	No classes: Spring Break
03/24	Mon	Lecture	17	11	the Central Limit Theorem
03/26	Wed	Meeting	Office hours 9	11	**13:30-14:30 JCC 559
03/26	Wed	Lecture	18	11	Monte-Carlo integration
03/27	Thu	Meeting	Office hours 9	11	**14:30-15:30 JCC 559
03/28	Fri	Assignment		11	PS07: Monte-Carlo methods
03/31	Mon	Lecture	19	12	Monte-Carlo simulation
04/02	Wed	Meeting	Office hours 10	12	**13:30-14:30 JCC 559
04/02	Wed	Lecture	20	12	Binomial & Poisson distributions
04/02	Wed	Exam	20	12	in-class quizzes (~20-30 minute)
04/02	Wed	Tufts		12	Academic Date: Last day to withdraw from a course with W
04/02	Wed	Tufts		12	Academic Date: Last day to select Pass/Fail Option
04/03	Thu	Meeting	Office hours 10	12	**14:30-15:30 JCC 559
04/04	Fri	Assignment	Onice nours 10	12	PS08: binomial & poisson distributions
04/04	Fri	Assignment		12	Final project proposals due
04/07	Mon	Lecture	21	13	Binomial & Poisson distributions
04/09	Wed	Meeting	Office hours 11	13	**13:30-14:30 JCC 559
04/09	Wed	Lecture	22	13	Linear least squares
04/10	Thu	Meeting	Office hours 11	13	**14:30-15:30 JCC 559
04/11	Fri	Assignment	Office floats 11	13	PS09: least squares & inverse problems
04/14	Mon	Lecture	23	14	Linear least squares
04/16	Wed	Meeting	Office hours 12	14	**13:30-14:30 JCC 559
04/16	Wed	Lecture	24	14	13.30 14.30 300 337
04/17	Thu	Meeting	Office hours 12	14	**14:30-15:30 JCC 559
04/18	Fri	Assignment	Office flours 12	14	14.50 15.50 300 500
04/21	Mon	Tufts		15	No classes: Patriots' Day
04/23	Wed	Meeting	Office hours 13	15	**13:30-14:30 JCC 559
04/23	Wed	Lecture	25	15	10.00 11.00 000 007
04/24	Thu	Meeting	Office hours 13	15	**14:30-15:30 JCC 559
04/25	Fri	Assignment	Office flours 13	15	11.50 15.50 100 557
04/28	Mon	Lecture	26	16	
04/29	Tue	Tufts	20	16	No classes: Makeup Day (no classes)
04/29	Tue	Tufts		16	Academic Date: Reading Period
04/29	Wed	Tufts		16	Academic Date: Reading Period Academic Date: Reading Period
05/01	Thu	Tufts		16	Academic Date: Reading Period Academic Date: Reading Period
05/01	Fri	Tufts		16	Academic Date: Reading Feriod Academic Date: Final Exam Period
05/02	Sat			16	
05/03	Sat Sat	Assignment Tufts		16	Final Project Due Academic Date: Final Exam Period
	Sat Sun	Tufts		16	Academic Date: Final Exam Period Academic Date: Final Exam Period
05/04		1 111118		10	ALADEUNC DAIE: FINALEXAM PPNOA

Date	DOW	Desc	Seq	Week	Details
05/05	Mon	Tufts		17	Academic Date: Final Exam Period
05/06	Tue	Tufts		17	Academic Date: Final Exam Period
05/07	Wed	Tufts		17	Academic Date: Final Exam Period
05/08	Thu	Tufts		17	Academic Date: Final Exam Period
05/09	Fri	Tufts		17	Academic Date: Final Exam Period