Math087 - Mathematical Modelling - AY2023-2024 spring

George McNinch

Course Calendar

Online	Date	DOW	Desc	Seq	Week	Details
01/19	01/17	Wed	Lecture	1	1	One dimensional optimization & sensitivity analysis
01/19 Fri Assignment 1 no assignment collected 01/22 Mon Mecting Office hours 0 2 **13:30-14:30 JCC 559 01/24 Wed Lecture 3 2 Lagrange continue; root finding via Newton's method & variants 01/24 Wed Tufts 2 Lagrange continue; root finding via Newton's method & variants 01/25 Thu Meeting Office hours 1 2 **13:300-14:00 Zoom 01/26 Fri Meeting Office hours 1 2 **13:300-14:30 JCC 559 01/26 Fri Assignment 2 PS01: Optimization 01/29 Mon Meeting Office hours 2 3 Types of optimization & linear programming 01/20 Mon Lecture 4 3 Types of optimization & linear programming 01/31 Wed Lecture 4 3 Network flows & linear programming 01/20 Fri Meeting Office hours 2 3 **13:300-14:30 JCC 559 02/02 Fri Assignment	01/18	Thu	Meeting	Office hours 0	1	**13:00-14:00 Zoom
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	03/01		_	Office hours 6	7	**13:30-14:30 JCC 559

Date	DOW	Desc	Seq	Week	Details
03/01	Fri	Assignment		7	PS05: matching and finite-state machines
03/04	Mon	Meeting	Office hours 5	8	**13:30-14:30 JCC 559
03/04	Mon	Lecture	14	8	statistics & the Central Limit Theorem
03/06	Wed	Lecture	15	8	Monte-Carlo integration
03/07	Thu	Meeting	Office hours 7	8	**13:00-14:00 Zoom
03/08	Fri	Meeting	Office hours 7	8	**13:30-14:30 JCC 559
03/08	Fri	Assignment		8	PS06: eigenvalues & Markov processes
03/11	Mon	Meeting	Office hours 6	9	**13:30-14:30 JCC 559
03/11	Mon	Lecture	16	9	Monte-Carlo simulation
03/13	Wed	Lecture	17	9	Binomial & Poisson distributions
03/14	Thu	Meeting	Office hours 8	9	**13:00-14:00 Zoom
03/15	Fri	Meeting	Office hours 8	9	**13:30-14:30 JCC 559
03/15	Fri	Assignment		9	midterm report 2 (page-rank)
03/16	Sat	Tufts		9	No classes: Spring Break
03/17	Sun	Tufts		9	No classes: Spring Break
03/18	Mon	Tufts		10	No classes: Spring Break
03/19	Tue	Tufts		10	No classes: Spring Break
03/20	Wed	Tufts		10	No classes: Spring Break
03/21	Thu	Tufts		10	No classes: Spring Break
03/22	Fri	Assignment		10	(no homework – spring break)
03/22	Fri	Tufts		10	No classes: Spring Break
03/23	Sat	Tufts		10	No classes: Spring Break
03/24	Sun	Tufts		10	No classes: Spring Break
03/25	Mon	Meeting	Office hours 7	11	**13:30-14:30 JCC 559
03/25	Mon	Lecture	18	11	Recurrence relations & generating functions
03/27	Wed	Lecture	19	11	Linear least squares
03/28	Thu	Meeting	Office hours 9	11	**13:00-14:00 Zoom
03/29	Fri	Meeting	Office hours 9	11	**13:30-14:30 JCC 559
03/29	Fri	Assignment		11	PS07: Monte-Carlo methods
04/01	Mon	Meeting	Office hours 8	12	**13:30-14:30 JCC 559
04/01	Mon	Lecture	20	12	
04/03	Wed	Lecture	21	12	
04/03	Wed	Assignment		12	Final project proposals due
04/03	Wed	Tufts		12	Academic Date: Last day to withdraw from a course with W
04/03	Wed	Tufts		12	Academic Date: Last day to select Pass/Fail Option
04/04	Thu	Meeting	Office hours 10	12	**13:00-14:00 Zoom
04/05	Fri	Meeting	Office hours 10	12	**13:30-14:30 JCC 559
04/05	Fri	Assignment		12	PS08: binomial & poisson distributions
04/08	Mon	Meeting	Office hours 9	13	**13:30-14:30 JCC 559
04/08	Mon	Lecture	22	13	
04/10	Wed	Lecture	23	13	
04/11	Thu	Meeting	Office hours 11	13	**13:00-14:00 Zoom
04/12	Fri	Meeting	Office hours 11	13	**13:30-14:30 JCC 559
04/12	Fri	Assignment		13	PS09: recurrence & generating functions
04/15	Mon	Tufts		14	No classes: Patriots' Day
04/17	Wed	Tufts		14	No classes: Makeup Day (no classes)
04/18	Thu	Meeting	Office hours 12	14	**13:00-14:00 Zoom
04/19	Fri	Meeting	Office hours 12	14	**13:30-14:30 JCC 559
04/19	Fri	Assignment		14	PS10: least squares & inverse problems
04/22	Mon	Meeting	Office hours 10	15	**13:30-14:30 JCC 559
04/22	Mon	Lecture	24	15	
04/24	Wed	Lecture	25	15	
04/25	Thu	Meeting	Office hours 13	15	**13:00-14:00 Zoom
04/26	Fri	Meeting	Office hours 13	15	**13:30-14:30 JCC 559
04/26	Fri	Assignment		15	

Date	DOW	Desc	Seq	Week	Details
04/29	Mon	Meeting	Office hours 11	16	**13:30-14:30 JCC 559
04/29	Mon	Lecture	26	16	
04/30	Tue	Tufts		16	Academic Date: Reading Period
05/01	Wed	Tufts		16	Academic Date: Reading Period
05/02	Thu	Tufts		16	Academic Date: Reading Period
05/03	Fri	Assignment		16	Final Project Due
05/03	Fri	Tufts		16	Academic Date: Final Exam Period
05/04	Sat	Tufts		16	Academic Date: Final Exam Period
05/05	Sun	Tufts		16	Academic Date: Final Exam Period
05/06	Mon	Tufts		17	Academic Date: Final Exam Period
05/07	Tue	Tufts		17	Academic Date: Final Exam Period
05/08	Wed	Tufts		17	Academic Date: Final Exam Period
05/09	Thu	Tufts		17	Academic Date: Final Exam Period
05/10	Fri	Tufts		17	Academic Date: Final Exam Period