## Math087 - Mathematical Modelling - AY2023-2024 spring

## George McNinch

## **Course Calendar**

Date	DOW	Desc	Seq	Week	Details
01/17	Wed	Lecture	1	1	One dimensional optimization & sensitivity analysis
01/18	Thu	Meeting	Office hours 0	1	**13:00-14:00 JCC 559
01/19	Fri	Meeting	Office hours 0	1	**13:30-14:30 JCC 559
01/19	Fri	Assignment		1	no assignment collected
01/22	Mon	Meeting	Office hours 0	2	**13:30-14:30 JCC 559
01/22	Mon	Lecture	2	2	Multi-dimensional optimization; Lagrange
01/24	Wed	Lecture	3	2	Lagrange continued; root finding via Newton's method & variants
01/24	Wed	Tufts		2	Academic Date: Last day to add a course
01/25	Thu	Meeting	Office hours 1	2	**13:00-14:00 JCC 559
01/26	Fri	Meeting	Office hours 1	2	**13:30-14:30 JCC 559
01/26	Fri	Assignment		2	PS01: Optimization
01/29	Mon	Meeting	Office hours 1	3	**13:30-14:30 JCC 559
01/29	Mon	Lecture	4	3	Types of optimization & linear programming
01/31	Wed	Lecture	5	3	Network flows
02/01	Thu	Meeting	Office hours 2	3	**13:00-14:00 JCC 559
02/02	Fri	Meeting	Office hours 2	3	**13:30-14:30 JCC 559
02/02	Fri	Assignment		3	PS02: Linear programming
02/05	Mon	Meeting	Office hours 2	4	**13:30-14:30 JCC 559
02/05	Mon	Lecture	6	4	Duality & complementary slackness
02/07	Wed	Lecture	7	4	Dual prices
02/08	Thu	Meeting	Office hours 3	4	**13:00-14:00 JCC 559
02/09	Fri	Meeting	Office hours 3	4	**13:30-14:30 JCC 559
02/09	Fri	Assignment		4	PS03: Dual linear programs
02/12	Mon	Meeting	Office hours 3	5	**13:30-14:30 JCC 559
02/12	Mon	Lecture	8	5	integer programming
02/14	Wed	Lecture	9	5	Branch & Bound algorithms
02/15	Thu	Meeting	Office hours 4	5	**13:00-14:00 JCC 559
02/16	Fri	Meeting	Office hours 4	5	**13:30-14:30 JCC 559
02/16	Fri	Assignment		5	midterm report 1 (linear programming)
02/19	Mon	Tufts		6	No classes: Presidents' Day
02/21	Wed	Lecture	10	6	Graph models
02/21	Wed	Tufts		6	Academic Date: Last day to drop a course without record
02/22	Thu	Meeting	Office hours 5	6	**13:00-14:00 JCC 559
02/22	Thu	Lecture	11	6	max flow & min cut
02/22	Thu	Tufts		6	Tufts: Monday schedule
02/23	Fri	Meeting	Office hours 5	6	**13:30-14:30 JCC 559
02/23	Fri	Assignment		6	PS04: integer programming & max flow
02/26	Mon	Meeting	Office hours 4	7	**13:30-14:30 JCC 559
02/26	Mon	Lecture	12	7	Bipartite graphs & matching
02/28	Wed	Lecture	13	7	Finite-state machines & Transition diagrams
02/29	Thu	Meeting	Office hours 6	7	**13:00-14:00 JCC 559
03/01	Fri	Meeting	Office hours 6	7	**13:30-14:30 JCC 559

1930	Date	DOW	Desc	Seq	Week	Details
1934   Mon	03/01	Fri	Assignment		7	PS05: matching and finite-state machines
0.300	03/04	Mon	Meeting	Office hours 5	8	**13:30-14:30 JCC 559
0.3070	03/04	Mon	Lecture	14	8	Iteration matrices; eigenvectors & power iterations
03/08         Fri Assignment         08 PSO6: eigenvalues & Markov processes           03/08         Fri Assignment         8 PSO6: eigenvalues & Markov processes           03/11         Mon Mecting         Office hours 6         9 **13:30-1430 DCC 559           03/13         Wed Lecture         17         9 the Central Limit Theorem           03/14         Thu Mecting         Office hours 8         9 **13:00-1430 DCC 559           03/15         Fri Mecting         Office hours 8         9 **13:00-1430 DCC 559           03/15         Fri Mecting         Office hours 8         9 **13:00-1430 DCC 559           03/15         Fri Mecting         Office hours 8         9 **13:00-1430 DCC 559           03/17         Sun Tufts         9 No classes: Spring Break           03/17         Sun Tufts         9 No classes: Spring Break           03/19         Tue Tufts         10 No classes: Spring Break           03/20         Wed Tufts         10 No classes: Spring Break           03/21         Tun         Tufts         10 No classes: Spring Break           03/22         Fri Tufts         10 No classes: Spring Break           03/22         Fri Tufts         10 No classes: Spring Break           03/23         Sat Tufts         10 No classes: Spring Break      <	03/06	Wed	Lecture	15	8	
19.00   19.0	03/07	Thu	Meeting	Office hours 7	8	**13:00-14:00 JCC 559
03/11   Mon	03/08	Fri	Meeting	Office hours 7	8	**13:30-14:30 JCC 559
03/13   Med   Lecture   16   9   statistics   16   9   statistics   17   17   18   18   18   18   18   18	03/08	Fri	Assignment			PS06: eigenvalues & Markov processes
1931   Wed     Meeting   Office hours 8   9   #*13:00-14:00 JCC 559		Mon	Meeting	Office hours 6	9	**13:30-14:30 JCC 559
03/14		Mon	Lecture			
03/15		Wed	Lecture	17		
03/16			Meeting			
03/16 Sat         Tufts         9         No classes: Spring Break           03/17 Sun         Tuths         9         No classes: Spring Break           03/18 Mon         Tufts         10         No classes: Spring Break           03/19 Tut         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)           03/23 Sat         Tufts         10         No classes: Spring Break           03/24 Sun         Tufts         10         No classes: Spring Break           03/25 Mon         Meeting         Office hours 7         11         well 3-430 JCC 559           03/25 Mon         Lecture         18         11         Monte-Carlo integration           03/27 Fri         Meeting         Office hours 9         11         well 3-30 JCC 559           03/29 Fri         Assignment         11         #13-30-14-30 JCC 559           04/01 Mon         Lecture         20         12         Binomial & Poisson distributions           04/03 Wed         Tufts         12         Final			•	Office hours 8		
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04/03         Wed Outlets         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 JCC 559           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           04/10         Wed Lecture 22         13         Linear least squares           04/10         Wed Lecture 23         13         Linear least squares           04/11         Thu Meeting Office hours 11         13         **13:30-14:30 JCC 559           04/12         Fri Meeting Office hours 11         13         **13:30-14:30 JCC 559           04/12         Fri Assignment         13         PS09: least squares & inverse problems           04/15         Mon Tufts         14         No classes: Patriots' Day           04/17         Wed Tufts         14         No classes: Makeup Day (no classes)           04/19         Fri Meeting Office hours 12         14         **13:30-14:30 JCC 559				21		
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04/26 Fri Assignment 15			_	Office hours 13		**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