**ISYE 4200 Spring 2024**

**Dr. Gregory L. Wiles, PE**

**Course Schedule**

|  |  |  |  |
| --- | --- | --- | --- |
| **Week** | **Lecture #** | **Topic** | **HW due** |
| Week 1 | M 1/8 | Introduction slides, go over expectations |  |
|  |  W 1/10 | Chapter 14: Metaheuristics – Lecture #1 |  |
| Week 2 |  M 1/15 | Holiday – No Class |  |
|  | W 1/17 | Chapter 14: Metaheuristics – Lecture #2Chapter 14: Metaheuristics – Lecture #3 |  |
| Week 3 | M 1/22 | Chapter 15: Game Theory – Lecture #4 | HW#1 |
|  | W 1/24 | Chapter 15: Game Theory – Lecture #5 |  |
| Week 4 | M 1/29 | Chapter 15: Game Theory – Lecture #6 |  |
|  | W 1/31 | Chapter 16: Decision Analysis – Lecture #7 | HW#2 |
| Week 5 | M 2/5 | Chapter 16: Decision Analysis – Lecture #8 |  |
|  | W 2/7 | Chapter 16: Decision Analysis – Lecture #9 |  |
| Week 6 | M 2/12 | Review | HW#3 |
|  | **W 2/14** | **Exam #1** |  |
| Week 7 | M 2/19 | Chapter 17: Queuing Theory – Lecture #10 |  |
|  | W 2/21 | Chapter 17: Queuing Theory – Lecture #11 |  |
| Week 8 | M 2/26 | Chapter 17: Queueing Theory – Lecture #12 | HW#4 |
|  | W 2/28 | Chapter 17: Queueing Theory – Lecture #13 |  |
| Week 9 | M 3/4 | Chapter 17: Queueing Theory – Lecture #14 |  |
|  | W 3/6 | Chapter 17: Queueing Theory – Lecture #15 |  |
|  | **3/11 – 3/15** | **Spring Break – no classes** |  |
| Week 10 | M 3/18 | Chapter 18: Inventory Theory – Lecture #16 |  |
|  | W 3/20 | Chapter 18: Inventory Theory – Lecture #17 | HW#5 |
| Week 11 | M 3/25 | Chapter 18: Inventory Theory – Lecture #18 |  |
|  | W 3/27 | Chapter 18: Inventory Theory – Lecture #19, Pt1&2 | HW#6 |
| Week 12 | M 4/1 | Review |  |
|  | **W 4/3** | **Exam #2** |  |
| Week 13 | M 4/8 | Chapter 19: Markov Chains – Lecture #20 |  |
|  | W 4/10 | Chapter 19: Markov Chains – Continued |  |
| Week 14 | M 4/15 | Chapter 19: Markov Chains – Lecture #21 |  |
|  | W 4/17 | Chapter 19: Markov Chains - Continued |  |
| Week 15 | M 4/22 | Chapter 19 Markov Chains Review - Continued **Group Project due** |  |
|  | W 4/24 | Review | HW#7 |
|  | **Tuesday 4/30 Time likely** **1-3pm TBD** | **Final Exam (covers Queuing, Inventory, & Markov only) During Assigned Time** |  |