## Course Syllabus

Course	CISC 7404 Spring 2025
Time	19:00-22:00, Thursdays
Location	E12-G005
Description	This course introduces decision making
Instructor	Steven Morad <smorad at="" um.edu.mo=""></smorad>
Office Hours	10:00-12:00 Thursdays
Grading	Assignments: 30%
	• Quizzes: 30%
	• Final Project: 30%
	Participation: 10%
Late Work Policy	• –15% 0-1 days late
	• -30% 1-2 days late
	• -50% 2-3 days late
	• -100% 3+ days late
Late Quiz Policy	Lowest Quiz Grade Dropped
Prerequisites	Linear Algebra
	Multivariable Calculus
	Programming in Python
	Introduction to Deep Learning
Preliminary Schedules, Subject to Change	
Lecture	Week 1 (01.09): Introduction
	• Week 2 (01.16): Bandits (S&B 2)
	• Week 3 (02.06): Decision Processes (S&B 3)
	• Week 4 (02.13): Quiz 1 and Coding
	• Week 5 (02.20): Trajectory Optimization (S&B 5)
	• Week 6 (02.27): Q Learning (S&B 6)
	• Week 7 (03.06): Deep Q Learning (S&B 6)
	• Week 8 (03.13): Policy Gradient (S&B 13)
	• Week 9 (03.20): Actor Critic (S&B 13)
	• Week 10 (03.27): Model-Based RL
	<ul> <li>Week 11 (04.03): Offline RL</li> <li>Week 12 (04.10): Memory and POMDPs</li> </ul>
	Week 13 (04.10). Memory and FOMDES     Week 13 (04.17): Imitation Learning
	• Week 14 (04.24): LLMs
Assignment	Due Week 8 (03.19): Linear Q Learning
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	• Due Week 15 (04.30): Final Project
Quiz	• Week 4 (02.13): Bandits and MDPs
	• Week 8 (03.13): Classical RL
	• Week 11 (04.03): Modern RL
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