

Course Outline

This outline provides an overview of the course and assignments by week. **Please remember to check the calendar for specific due dates.**

Each course module runs for a period of seven (7) days, i.e., one week. Due dates for readings and other assignments are referred to by the day of the module week in which they are due. For example, if a reading assignment is to be completed by Day 3 and the module started on Monday, then the reading assignment should be completed by Wednesday or the 3rd day of the module.

Module	Dates	Topics	Assignments
Module 1	1/28-2/3	State Space Search	Russell, S. & Norvig, Chapter 3 <ul style="list-style-type: none">• Self-Check 1• Programming Assignment 1• Assessment 1
Module 2	2/4-2/10	Adversarial Search	Russell, S. & Norvig, Chapters 5 & 17.5 <ul style="list-style-type: none">• Self-Check 2• Programming Assignment 2• Assessment 2• Group Discussion 1
Module 3	2/11-2/17	Constraint Satisfaction Problems	Russell, S. & Norvig, Chapter 6 <ul style="list-style-type: none">• Self-Check 3• Programming Assignment 3• Assessment 3• Group Discussion 1 (con't)
Module 4	2/18-2/24	Reinforcement Learning	Russell & Norvig, Chapters 17 & 21 Barto & Sutton, Sections 4.4, 6.4, & 6.5 <ul style="list-style-type: none">• Self-Check 4• Programming Assignment 4• Assessment 4• Group Discussion 2
Module 5	2/25-3/3	Local Search	Russell, S. & Norvig, Chapter 4 <ul style="list-style-type: none">• Self-Check 5• Programming Assignment 5• Assessment 5• Group Discussion 2 (con't)
Module 6	3/4-3/10	Logic and Reasoning	Russell, S. & Norvig. Chapters 7-9. <ul style="list-style-type: none">• Self-Check 6• Programming Assignment 6• Assessment 6• Group Discussion 3

Module	Dates	Topics	Assignments
Module 7	3/11-3/17	Planning	Russell, S. & Norvig, Chapter 10 <ul style="list-style-type: none"> • Self-Check 7 • Programming Assignment 7 • Assessment 7 • Group Discussion 3 (con't)
	3/18-3/24	Spring Break	
Module 8	3/25-3/31	Regression and SVMs	Russell, S. & Norvig, Chapter 18.1-18.6 (skip .3) <ul style="list-style-type: none"> • Self-Check 8 • Programming Assignment 8 • Assessment 8 • Group Discussion 4
Module 9	4/1-4/7	Model Evaluation	<ul style="list-style-type: none"> • Self-Check 9 • Programming Assignment 9 • Assessment 9 • Group Discussion 4 (con't)
Module 10	4/8-4/14	Artificial Neural Networks	Russell, S. & Norvig, Chapter 18.7 ScienceDaily Article, 'Brain' In A Dish Acts As Autopilot, Living Computer <ul style="list-style-type: none"> • Self-Check 10 • Programming Assignment 10 • Assessment 10 • Group Discussion 5
Module 11	4/15-4/21	Rules	Russell, S. & Norvig, Chapters 18.3, 18.10 <ul style="list-style-type: none"> • Self-Check 11 • Programming Assignment 11 • Assessment 11 • Group Discussion 5 (con't)
Module 12	4/22-4/28	Bayesian Networks	Russell, S. & Norvig, Chapters 18.3, 18.10 NY Times Book Review, "The Mathematics of Changing Your Mind" <ul style="list-style-type: none"> • Self-Check 12 • Programming Assignment 12 • Assessment 12 • Group Discussion 6
Module 13	4/29-5/5	Example Based Learning	Russell, S. & Norvig, Chapters 18.8.1 <ul style="list-style-type: none"> • Self-Check 13 • Programming Assignment 13 • Assessment 13 • Group Discussion 6 (con't)
Module 14	5/6-5/12	Review	Russell, S. & Norvig, Chapters 26, 27 <ul style="list-style-type: none"> • Assessment Review • Programming Assignment 14