

## DSC441: Fundamentals of Data Science Spring Quarter AY: 2024 – 2024 - Tentative Schedule

**Textbook:**

Data Mining: Concepts and Techniques, by Han and Kamber and Pei, Morgan Kaufman Publishers, Third Edition

Date	Agenda	Homework/Quizzes Due (start of week)
Modules 0 & 1 Week 1 04/01/2024	<input type="checkbox"/> Syllabus, Goals & Overview of the course topics <input type="checkbox"/> Introduction <input type="checkbox"/> Data Part I (Storage & Variables)	Module #0 and #1 quizzes are assigned.
Module 2 Week 2 04/08/2024	<input type="checkbox"/> Data Part II	Module #1 Quiz is due. Module #2/3 Quiz is assigned. <b>Homework # 1 is assigned.</b>
Module 3 Week 3 04/15/2024	<input type="checkbox"/> Data Part III	Module #3 Discussion: Binning is assigned.
Sunday, 04/21/2024      HOMEWORK #1 DUE BY 11:59 PM		
Module 4 Week 4 04/22/2024	<input type="checkbox"/> Supervised Learning – Classification Using SVM <input type="checkbox"/> Basic Evaluations	Module #3 Discussion is due. Module #2/3 Quiz is due. <b>HW #2 is assigned.</b> Module Quiz #4 is assigned.
Sunday 04/28/2024      HOMEWORK #2 DUE BY 11:59 PM		
Module 5 Week 5 04/29/2024	<input type="checkbox"/> Supervised Learning – Classification Using Decision Trees (Part I)	Module #4 Quiz is due. <b>HW #3 is assigned.</b> Module #5 Quiz is assigned. Module #5 Discussion: Tree 1 is assigned.
Module 6 Week 6 05/06/2024	<input type="checkbox"/> Supervised Learning – Classification Using Decision Trees (Part II)	Module #5 Quiz is due. Module #5 Discussion is due. Module #6 Quiz is assigned. Module #6 Discussion: Tree 2 is assigned.
Sunday, 05/12/2024      HOMEWORK #3 DUE BY 11:59 PM		
Module 7 Week 7 05/13/2024	<input type="checkbox"/> Supervised Learning – Classification Using KNN <input type="checkbox"/> Supervised Learning Methods Comparison	Module #6 Quiz is due. Module #6 Discussion is due. <b>HW #4 is assigned.</b> Module #7 Quiz is assigned. Module #7 Discussion: KNN is assigned.
Module 8 Week 8 05/20/2024	<input type="checkbox"/> Unsupervised Learning – Hierarchical Clustering <input type="checkbox"/> Unsupervised Learning – K-Means Clustering	Module #7 Quiz is due. Module #7 Discussion is due. Module #8 Quiz is assigned. Module #8 Discussion: HAC is assigned.
Sunday, 05/26/2024      HOMEWORK #4 DUE BY 11:59 PM		
Module 9 Week 9 05/27/2024	<input type="checkbox"/> Advanced Evaluation + <b>Review</b>	Module #8 Quiz is due. Module #8 Discussion is due. <b>HW #5 is assigned.</b> Module #9 Quiz is assigned.
Module 10 Week 10 06/03/2024 <b>Memorial Day – No Class</b>	<input type="checkbox"/> Ethics in ML ( <b>Watch Video</b> )	Module #9 Quiz is due. Module #10 Discussion: Ethics is assigned. Module #10 Quiz assigned
Sunday, 06/09/2024      HOMEWORK #5 DUE BY 11:59 PM		
Module 11 Week 11 06/10/2024	<b>Final Exam</b>	Module #10 Discussion is due. Module #10 Quiz is due.

This syllabus is subject to change as necessary to better meet the needs of the students. Significant changes are unlikely and if a change occurs, it will be thoroughly addressed during class and posted under Announcements in D2L.