

Course Addendum

Semester: Fall 2023 Subject Code: BDA500 Section: NAA
Subject Title: wacnine Learning
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Approved by:

Kathy Dumanski, Chair, School of Software Design and Data Science

Please read this addendum to the general course outline carefully. It is your guide to the course requirements and activities.

Please refer to the course outline for learning outcomes, course description and text and materials.

Please also visit <u>sdds.senecacollege.ca</u> for key information on courses, graduation requirements, transfer credit, and more from the School of Software Design and Data Science.

Assessment Summary

Labs	20%
Test(s)	25%
Assignment(s)	25%
Final exam	30%
Total	======= 100%
Total:	10070

Course Policies

To obtain a credit in this subject, a student must:

- Achieve a grade of 50% or better on the weighted average of the tests and final assessment.
- Grading Policy: http://www.senecacollege.ca/about/policies/grading-policy.html)

Academic Policies:

http://www.senecacollege.ca/about/policies/academics-and-student-services.html

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TENTATIVE WEEKLY SCHEDULE Semester: Fall 2022

Week	Topic or Skill	Reading	Assessment	Weight
Week 1 September 6-9	Course Overview Introduction to Machine Learning	Textbook Chapter 1 Lecture Notes (PPT)	Lab 1	2%
Week 2 September 12-16	Steps in a typical Machine Learning project	Textbook Chapter 2 Lecture Notes (PPT) Example code	Lab 2	3%
Week 3 September 19-23	 Steps in a typical Machine Learning project Continued 	 Textbook Chapter 2 Lecture Notes (PPT) Example code 	Lab 3	3%
Week 4 September 26 – 30	Classification	Textbook Chapter 3Lecture Notes (PPT)Example code	Lab 4	7%
Week 5 October 3 - 7	Training Models	Textbook Chapter 4Lecture Notes (PPT)Example code	Assignment 1	3%
Week 6 October 10-14	More Training Models	 Textbook Chapter 4 Lecture Notes (PPT) Example code 	Lab 5	3%
Week 7 October 17-21	Support Vector machines (SVM)	Textbook Chapter 5Lecture Notes (PPT)Example code	Assignment 2	9%
		Study Week October 24 - 28	Mid-term Test	25%
Week 8 October 31 - November 4	Decision Tree	Textbook Chapter 6Lecture Notes (PPT)Example code	Lab 6	3%

Week 9 November 7-11	Ensemble Learning & Random Forests	 Textbook Chapter 7 Lecture Notes (PPT) Example code 	Lab 7	3%
Week 10 November 14-18	Dimensionality Reduction	Textbook Chapter 8Lecture Notes (PPT)Example code	Assign3	9%
Week 11 November 21-25	Unsupervised Learning Techniques	Textbook Chapter 9Lecture Notes (PPT)Example code		
Week 12 November 28 – December 2	More Unsupervised Learning Techniques	Textbook Chapter 9Lecture Notes (PPT)Example code		
Week 13 December 5-9	 Introduction to Advanced Topics Course review 	Textbook Chapter10Lecture Notes (PPT)	Q & A	
Week 14 December 12-16	Final Assessment		Final Assessment	30%

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