Seneca | SCHOOL OF SOFTWARE DESIGN & DATA SCIENCE

Course Code	BDM500	Course Section	NAA	Course Title	Predictive Analytics
Term	Fall 2023 (2237)	Course Outline Link	Course Outline Link	Instructional Mode	In Person
Scheduled Weekday for Lecture	Select Day Class is Scheduled	Scheduled Class Start Time (in Eastern Time)	12:35 PM	Scheduled Class End Time (in Eastern Time)	2:20 PM
Scheduled Weekday for Lab	Select Day Class is Scheduled	Scheduled Class Start Time (in Eastern Time)	2:25 PM	Scheduled Class End Time (in Eastern Time)	3:15 PM
Professor's Name	Tamanna Eini	Professor's Email Address	Tamanna.Eini-Keleshteri@senecacollege.ca	Professor's Telephone Number	N/A

* Additional rows for second professor's information are available for semesters when two professors will facilitate course. If needed, highlight rows 8 to 12, right click, and select "Unhide". Upon completion of the addendum - highlight, right click and HIDE THIS LINE.

Assessment Summary

Test (Midterm)	20%
Final (Project Based)	30%
Assignments (3)	30%
Labs (7)	20%

The semester starts on Sept 5th

Week	Class type	Topics/Activities	Instruction Mode	Class Location	Assessment (Type and weight)
Week 1	Lecture and Lab	Introduction to the course Introduction to Predictive analytics **Reading: Introduction to predictive analytics**	In-Person (Attend on campus)	A3513	Lab0 environment software setup (Python on Jupyter Notebook)- **2%**
Week 2	Lecture and Lab	Single Linear regression models **Reading:Single Linear regression Lecture notes**	In-Person (Attend on campus)	A3513	Lab1- Linear regression Project release **Weight- 3%**
Week 3	Lecture and Lab	Multiple Linear regression models **Reading- Multiple Linear regression Lecture notes**	In-Person (Attend on campus)	A3513	Lab2 – Multiple Linear regression Assignment 1 (Regression: linear, non-linear) Student Project Proposals evaluation **Weight- 3%**
Week 4	Lecture and Lab	Non and polynomial regression models **Reading-Non-Linear and polynomial régression Lecture notes**	In-Person (Attend on campus)	A3513	Assignment 1 due. **Weight 10%**
Week 5	Lecture and Lab	Non-and polynomial regression models **Reading: Non-Linear and polynomial régression Lecture notes**	In-Person (Attend on campus)	A3513	Lab 3- Non-linear regression- 3% Project report 1- 2.5%

Week 6	Lecture and Lab	Logistic regression **Readings:Logistic regression** **Lecture notes**	In-Person (Attend on campus)	A3513	Start working on Lab 4-Logistic regression **Weight- 4%**
Week 7	Lecture and Lab	**MIDTERM TEST**	In-Person (Attend on campus)	TBA	Weight - 20% Complete Lab 4-Logistic regression **Weight- 4%** Project report 2- Weight 2.5%
Study week is from Oct 23 to Oct 27					
Week 8 (Oct 30 to Nov 3rd)	Lecture and Lab	Classification and regression Trees **Reading:Classification and regression Trees (CART)** **Lecture notes**	In-Person (Attend on campus)	A3513	Lab 5-(Logistic regression)- **Weight 3%** Assignment 2 release (CART)
Week 9 (Nov 6 to Nov 10)	Lecture and Lab	Classification and regression Trees **Reading: Classification and regression Trees (CART)** **Lecture notes**	In-Person (Attend on campus)	A3513	Assignment 2 due- **Weight 10%**
Week 10 (Nov 13 to Nov 17)	Lecture and Lab	Time series models **Reading: Time series models Lecture notes**	In-Person (Attend on campus)	A3513	Assignment 3 release (Time series)- **Weight 3%** Project report 3- **Weight 2.5%**
Week 11 (Nov 20 to Nov 24)	Lecture and Lab	Time series models **Reading:Time series models Lecture notes**	In-Person (Attend on campus)	A3513	Assignment 3 due
Week 12 (Nov 27 to Dec 1st)	Lecture and Lab	Evaluation Methodologies **Reading: Evaluation Methodologies Lecture notes**	In-Person (Attend on campus)	A3513	Lab 6 Release (model evaluation)- **Weight 3%** Project report 4- **Weight 2.5%**
Week 13 (Dec 4 to Dec 8)	Lecture and Lab	Evaluation Methodologies **Reading:Evaluation Methodologies Lecture notes**	In-Person (Attend on campus)	A3513	Project draft discussion
Week 14 (Dec 11 to Dec 13)	Lecture and Lab	Project Presentations and evaluation **Reading:All Lecture notes**	In-Person (Attend on campus)	A3513	Project final report: model- **Weight 10%** presentation- **Weight 5%** Final report- **Weight 5%**
The semester ends Dec 13th					

* If you are teaching a compressed (7-week) course, highlight rows 33 to 40, right click , and select 'Hide'.
* Additional rows are available for courses that have two teaching blocks per week. For weeks 1 - 7, highlight lines 22 to 32, right click, and select 'Unhide'. For weeks 9 - 15, highlight lines 39 to 49, right click, and select 'Unhide'. For further instruction, please see the instruction tabs to identify how to alter the Addendum to showcase the full details of the course. Upon completion of the addendum - highlight row 51 and 52, right click and HIDE THESE LINES.

Other Important Semester Dates

IMPORTANT INFO

Primary addendum 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 Welcome | School of Software Design and Data Science (senecacollege.ca) for key information on courses, graduation requirements, transfer credit, and more from the School of Software Design and Data Science.

Course Policies

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

- Average of 50% or better for the two tests.
- 50% or better on the overall course.

A+	90% to 100%
A	80% to 89%
B+	75% to 79%
B	70% to 74%
C+	65% to 69%
C	60% to 64%
D+	55% to 59%
D	50% to 54%
F	0% to 49% (Not a Pass)

Academic Policies

http://www.senecacollege.ca/about/policies/academics-and-student-services.html
For further information, see a copy of the Academic Policy, available online (http://www.senecacollege.ca/about/policies/academics-and-student-services.html) or at Seneca's Registrar's Offices.

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