# 

# Course Addendum

Semester**: Winter 2023** Subject Code: **DBS311** Section**: NPP**

Subject Title: **Advanced Data Services**

Professor: **Fernando Ferrer**

E-mail: fernando.ferrer@senecacollege.ca

Created by:

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.

[DBS311 Fall - 2023, Seneca Subject Outline - School of Information and Communications Technology (senecacollege.ca)](https://apps.senecacollege.ca/ssos/print/dbs311/20231/)

Please also visit [ict.senecacollege.ca](https://seneca-my.sharepoint.com/personal/laura_ojanen_senecacollege_ca/Documents/Course%20Materials/ict.senecacollege.ca) for key information on courses, graduation requirements, transfer credit, and more from the School of Software Design and Data Science.

Please note that during the Fall semester for your hybrid course, the lecture meeting is online and the lab meeting is in-person.

**Assessment Summary**

* Labs (minimum 9) - 15%
* Assignments (minimum 2) - 50%: (A1 20%, A2 30%)
* Test (minimum 1) - 20%
* Final Assessment - 15%

## Course Policies

* must have an average of 50% or higher for the test and final exam,
* must successfully complete all assignments,
* must have a passing average for the course.
* Grading Policy: <http://www.senecacollege.ca/about/policies/grading-policy.html>)

Labs are not mandatory. It means to pass the course you do not have to complete and submit the labs. If you miss a lab, there will not be a makeup.

Students may not receive a mark for late assignment submissions or resubmissions, but they need to complete the assignment successfully to pass the course.

**Academic Policies:**

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

**WEEKLY SCHEDULE**

**Winter 2023**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Week** | **Topic or Skill** | **Reading** | **Assessment due** | **Weight** |
| **Week 1**  **Jan 09** | **Intro Databases / Oracle**  **Review of SQL** | **DDL**  **DML**  **Select**  **Join** | **Oracle Installation** |  |
| **Week 2**  **Jan 16** | **Single Line Functions** | **Numeric/ Char/ Date**  **Functions** | **Lab 01** | **1.5%** |
| **Week 3**  **Jan 23** | **Single/Multi Row Functions** | **Count Sum AVG Max Min** | **Lab 02** | **1.5%** |
| **Week 4**  **Jan 30** | **Sub-Queries** | **Nested queries** | **Lab 03**  **Assignment 1 Given out** | **1.5%**  **20%** |
| **Week 5**  **Feb 6** | **Set Operators** | **Union**  **Union all**  **Intersect**  **Minus** | **Lab4** | **1.5%** |
| **Week 6**  **Feb 13** | **Stored Procedures**  **Conditional statements** | **- PL/SQL Standalone   Procedures**  **- Variable and   Constraints**  **- General Comparison   Functions** | **Lab5**  **Work assignment 1** | **1.5%** |
| **Week 7**  **Feb 20** | **Review** |  | **TEST**  **In-person**  **Assignment 1 due Oct 21,2022** | **20%**  **20%** |
| **STUDY WEEK**  **Feb 27** | | | | | |
| **Week 8**  **March 6** | **Stored Procedures -**  **Conditional Statements**  **Iteration Statements** | **Functions**  **Cursors** | **Lab 06** | **1.5%** |
| **Week 9**  **March 13** | **NoSQL - MongoDB - Create/Delete Documents**  **Data Types** | * **NoSQL Overview** * **MongoDB Introduction** * **Create/Update/Delete** | **Lab 07**  **MongoDB - Installation**  **Assignment 2 given out** | **2%**  **30%** |
| **Week 10**  **March 20** | **MongoDB**  **Query** | * **ad-hoc queries** * ***Range selection*** * ***Set inclusion*** * **Inequalities** | **Lab 08** | **2%** |
| **Week 11**  **March 27** | **MongoDB**  **Update Documents** | * ***Document replacement*** * ***Update modifiers*** | **Lab 09** | **2%** |
| **Week 12**  **April 3** | **Mongo**  **aggregation** | * **Aggregation** | **Assignment 2 due**  **and Presentation**  **In-person** | **30%** |
| **Week 13**  **April 10** | **Final Review/** |  | **Final Test**  **Thursday Dec 8,2022 In-person** | **15%** |
| **Week 14**  **April 17** |  |  |  |  |