

# Course Addendum

Semester**: Fall 2022** Subject Code: **DBS311** Section**: NII**

Subject Title: **Advanced Data Services**

Professor: **Clint MacDonald**

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Office Hours**: TBA**

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.

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

* Achieve a grade of 50% or better on the final assessment
* Satisfactorily complete assignments
* Achieve a weighted average of 50% or better for the tests and final assessment
* Achieve a grade of 50% or better on the overall 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>

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**TENTATIVE WEEKLY SCHEDULE**

**FALL 2022**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Week** | **Topic or Skill** | **Reading** | **Assessment** | **Weight** |
| **Week 1**  **SEP**  **06-09** | **Intro Databases / Oracle**  **Review of SQL** | **DDL**  **DML**  **Select**  **Join** | **Oracle Installation** |  |
| **Week 2**  **SEP**  **12-16** | **Single Line Functions** | **Numeric/ Char/ Date**  **Functions** | **Lab 01**  **(Single-row Functions)** | **1.5%** |
| **Week 3**  **SEP**  **19-23** | **Single/Multi Row Functions** | **Count**  **Sum**  **AVG**  **Max**  **Min** | **Lab 02**  **(Multi-row Functions)** | **1.5%** |
| **Week 4**  **SEP**  **26-30** | **Sub-Queries** | **Nested queries** | **Lab 03**  **(Sub-queries)**  **Assignment 1**  **Given out** | **1.5%**  **20%** |
| **Week 5**  **OCT**  **03-07** | **Set Operators** | **Union**  **Union all**  **Intersect**  **Minus** | **Lab 04**  **(Set Operators)** | **1.5%** |
| **Week 6**  **OCT**  **11-14** | **Stored Procedures**  **Conditional statements** | **- PL/SQL Standalone Procedures**  **- Variable and Constraints**  **- General Comparison Functions** | **Lab 05**  **(PL/SQL – Conditional Statements)** |  |
| **Week 7**  **OCT**  **17-21** | **Review** |  | **TEST 1**  **Assignment 1 due** | **20%**  **20%** |
| **Study Week – OCT 24 to OCT 28** | | | | |
| **Week 8**  **OCT**  **31-NOV 04** | **Stored Procedures -**  **Conditional Statements** | **- PL/SQL Standalone Procedures**  **- Variable and Constraints**  **- General Comparison Functions** |  | **1.5%** |
| **Week 9**  **NOV**  **07-11** | **Stored Procedures -**  **Iteration Statements** | **Functions**  **Cursors** | **Lab 06**  **(Iterative Statements)**  **Assignment 2 given out** | **1.5%**  **30%** |
| **Week 10**  **NOV**  **14-18** | **NoSQL - MongoDB - Create/Delete Documents**  **Data Types** | * **NoSQL Overview** * **MongoDB Introduction** * **Create/Update/Delete** | **Lab 07**  **(MongoDB - Installation)** | **2%** |
| **Week 11**  **NOV**  **21-25** | **MongoDB**  **Query** | * **ad-hoc queries** * ***Range selection*** * ***Set inclusion*** * **Inequalities** | **Lab 08**  **(MongoDB Queries)** | **2%** |
| **Week 12**  **NOV 27- DEC 02** | **MongoDB**  **Update Documents** | * ***Document replacement*** * ***Update modifiers*** * ***$set*** * ***$inc*** * ***$dec*** | **Lab 09**  **(MongoDB Update)** | **2%** |
| **Week 13**  **DEC**  **05-09** | **Mongo**  **aggregation** | **Aggregation** | **Assignment 2 due** | **30%** |
| **Week 14**  **DEC**  **12-14** | **FINAL**  \*may be moved earlier to avoid conflict with other subjects |  | **FINAL**  **Test** | **15%** |

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