

# Course Addendum

Semester**: FALL 2022** Subject Code: **DBS211** Section**:**

Subject Title: **Introduction to Database Systems**

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Office Hours**: By appointment**

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.

**Assessment Summary**

* Quizzes (10 weekly quizzes) 15%
* Labs (10 weekly labs) 30%
* One assignment and one project - 25% (Assignment 10%, Project 15%)
* Mid-term Test - 20%
* Final Test - 10%

## 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.

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**TENTATIVE WEEKLY SCHEDULE**

**FALL 2022**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Week** | **Topic or Skill** | **Reading** | **Assessment** | **Weight** |
| **Week 1**  **SEP**  **06-09** | **Introduction to Databases and Data** | **Relationships, Keys and Referential Integrity**  **READ DBS211.ca**  **week 1 & 2** | **Lab 1**  **Getting setup and started**  **Load script** | **3%** |
| **Week 2**  **SEP**  **12-16** | **Database Relational Model** | **SQL standards**  **and Basic Statements**  **READ DBS211.ca**  **Week 3** | **Lab 2 Relationships**  **Keep reading DBS211.ca each week**  **Quiz 1** | **3%**  **1.5%** |
| **Week 3**  **SEP**  **19-23** | **Intro to single table SQL (DML)**  **Select, from, where, order by, alias wildcard**  **CRUD insert update delete** | **Tupples**  **and**  **ANSI92-Joins**  **NOTE**  **Keep reading DBS211.ca each week** | **Lab 3**  **DML-1**  **Quiz 2** | **3%**  **1.5%** |
| **Week 4**  **SEP**  **26-30** | **Multi-table SQL (DML)**  **Joins and Views**  **Inner, outer, sets** | **Basic DDL Statements**  **and**  **Constraints** | **Lab 4**  **DML-2**  **Quiz 3**  **Assignment Started** | **3%**  **1.5% 10%** |
| **Week 5**  **OCT**  **03-07** | **SQL (DDL)**  **Data types, constraints**  **CREATE, ALTER** | **CREATE, or replace**  **ALTER, DROP**  **PK, FK, CK, UK, NN** | **Lab 5**  **DDL**  **Quiz 4** | **3%**  **1.5%** |
| **Week 6**  **OCT**  **11-14** | **Security and Transactions**  **And catchup if needed** | **GRANT and REVOKE**  **Transaction, COMMIT, SAVEPOINT, and ROLBACK** | **Lab 6 transaction security**  **Quiz 5**  **Assignment Due** | **3%**  **1.5%** |
| **Week 7**  **OCT**  **17-21** | **Review** |  | **Midterm Test** | **20%** |
| **Study Week – OCT 24 to OCT 28** | | | | | |
| **Week 8**  **OCT**  **31-NOV 04** | **Application Development**  **Project Started** | **Data Modelling**  **Optionality and Cardinality** | **Lab 7**  **Application Programming** | **6%** |
| **Week 9**  **NOV**  **07-11** | **Data Modelling**  **ERDs** | **Repeating Groups**  **Time Sensitive Variables**  **Multi-Value Dependencies** | **Lab 8**  **ERD**  **Project Milestone 1**  **Quiz 6** | **2%**  **3%**  **1.5%** |
| **Week 10**  **NOV**  **14-18** | **Normalization 1**  **UNF and 1NF** | **Partial and Transitive Dependencies** | **Lab 9**  **Normalization UNF and 1NF**  **Quiz 7** | **2%**  **1.5%** |
| **Week 11**  **NOV**  **21-25** | **Normalization 2 2NF and 3NF** | **Review Normalization**  **Reflection Research** | **Lab 10**  **Normalization 2NF and 3NF**  **Project Milestone 2**  **Quiz 8** | **2%**  **6%**  **1.5%** |
| **Week 12**  **NOV 27- DEC 02** | **Normalization and ERDs** | **Normalization and Data Modelling** | **Normalization**  **Quiz 9** | **1.5%** |
| **Week 13**  **DEC**  **05-09** | **Course Review** | **ERDs and Normalization** | **Group Project remainder due**  **Quiz 10** | **6%**  **1.5%** |
| **Week 14**  **DEC**  **12-14** | **FINAL** | **FINAL WEEK** | **Final Test** | **10%** |

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