**CAMOSUN COLLEGE**
*School of Trades and Technology*
*Computer Science Department*

*ICS 122 – Database Concepts 2*
*Winter 2019*

# COURSE OUTLINE

**The calendar description is available on the Camosun web site at**

http://camosun.ca/learn/calendar/current/web/ics.html

Ω *Please note: This outline will not be kept indefinitely. It is recommended students keep this outline for their records, especially to assist in transfer credit to post-secondary institutions.*

## 1. Instructor Information

| | | |
|---|---|---|
| **(a)** | **Instructor** | Doug Greening |
| **(b)** | **Office hours** | By Appointment, Tues 11:30-2:00, Weds & Thurs 10:00-2:00 |
| **(c)** | **Location** | TECH 269 |
| **(d)** | **Phone** | Please e-mail |
| **(e)** | **E-mail** | greeningd@camosun.bc.ca |
| **(f)** | **Website** | D2L |

## 2. Intended Learning Outcomes

This course following on the material introduced in its pre-requisite, ICS-112, covers the following topics:

* database normalization,

* the database normal forms from first, second, third and BCNF,

* Oracle 11g DDL including creating, modifying, and removing of tables,

* Oracle 11g creation of primary keys

* Oracle 11g database table management and constraints

* Oracle 11g database synonyms, views, sequences, and indices
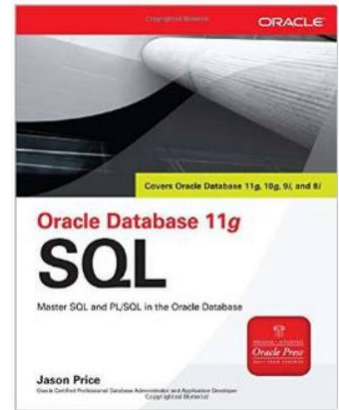
## 2. Course Content

- Database Normalization
- Database normal forms from first, second, third and BCNF
- DDL including creating, modifying and removing tables
- Creation of primary keys
- Database table management and constraints
- Database synonyms, views, sequence and indices

## 3. Materials

(a) Course notes will be provided in the form of pdfs on the D2L site.

(b) Recommended Text
Jason Price, Oracle Database 11g SQL, Master SQL and PL/SQL in the Oracle Database

## 4. Course Schedule

| | Doug Greening - ICS 212 | | | | |
|---|---|---|---|---|---|
| | **Monday** | **Tuesday** | **Wednesday** | **Thursday** | **Friday** |
| 8:00 | | | | | |
| 9:00 | | | | | |
| 10:00 | | ICS 122 147/148 X02A/X02B | ICS 122 147/148 X01A/X01B | ICS 122 147/148 X02A/X02B | |
| 11:00 | | | | | |
| 12:00 | | Office Hours | Office Hours | Office Hours | |
| 13:00 | | | | | ICS 122 Lab 147 X01B |
| 14:00 | ICS 122 147/148 X01A/X01B | ICS 122 Lab 147 X02A | ICS 122 Lab 148 X01A | ICS 122 Lab 147 X02B | |
| 15:00 | | | | | |
| 16:00 | | | | | |

| Week | Dates | Lecture | Section 01 | Section 02 |
|---|---|---|---|---|
| 1 | Jan 07 - 11 | L00 - Overview (13) | | |
| | | L01 - Intro to DBMS (29) | | |
| | | L02 - Create Tables (36 - 14A) | | |
| 2 | Jan 14 - 18 | L03 - Constraints (32 - 9A) | | |
| | | L04 - Views (36 - 19) | | |
| | | | | |
| 3 | Jan 21 - 25 | L05 - Sequence Indexes Synonyms (30 - 9A) | | |
| | | L06 - Security (26 + 4A) | | |
| | | L07 - Worksheet Review | | |
| 4 | Jan 28 - Feb 01 | L07 - Worksheet Review (44 questions) | | |
| | | L08 - Intro to Data Modelling (35) | | |
| | | L09 - Normalization (65) | | |
| 5 | Feb 04 - 08 | N01 - Client Property | | |
| | | N02 - Patient | | |
| | | N03 - Student | | |
| 6 | Feb 11 - 15 | N04 - Construction | | |
| | | N05- Lab 05 | | |
| | | N06 - Rating | | |
| 7 | Feb 18 - 22 | READING BREAK | | |
| | | | | |
| 8 | Feb 25 - 29 | EXAM | | |

## 5. Basis of Student Assessment (Weighting)

(a) Assignments
Lab 60%
**Must complete ALL labs and pass to pass the course**

(b) Exams (Written and Practical) 40%
**Must pass the exam portion to pass the course**


Late work will **not** be accepted, except by the instructor's prior written permission or in the presence of a dire and documented short-term medical or family emergency. Mark appeals must be made **within 7 days** of the mark being posted.

## 6. Grading System

| X | Standard Grading System (GPA) |
|---|---|

| | Competency Based Grading System |
|---|---|


## 7. Recommended Materials or Services to Assist Students to Succeed Throughout the Course

# LEARNING SUPPORT AND SERVICES FOR STUDENTS

There are a variety of services available for students to assist them throughout their learning.  This information is available in the College Calendar, Student Services or the College web site at http://www.camosun.bc.ca

# STUDENT CONDUCT POLICY

There is a Student Conduct Policy.  It is the student's responsibility to become familiar with the content of this policy.  The policy is available in each School Administration Office, Registration, and on the College web site in the Policy Section.
http://www.camosun.bc.ca/policies/policies.html

## A. GRADING SYSTEMS *http://www.camosun.bc.ca/policies/policies.php*

**The following two grading systems are used at Camosun College:**

1.  **Standard Grading System (GPA)**

| Percentage | Grade | Description | Grade Point Equivalency |
|---|---|---|---|
| 90-100 | A+ | | 9 |
| 85-89 | A | | 8 |
| 80-84 | A- | | 7 |
| 77-79 | B+ | | 6 |
| 73-76 | B | | 5 |
| 70-72 | B- | | 4 |
| 65-69 | C+ | | 3 |
| 60-64 | C | | 2 |
| 50-59 | D | | 1 |
| 0-49 | F | Minimum level has not been achieved. | 0 |

2.  **Competency Based Grading System (Non GPA)**

This grading system is based on satisfactory acquisition of defined skills or successful completion of the course learning outcomes

| Grade | Description |
|---|---|
| COM | The student has met the goals, criteria, or competencies established for this course, practicum or field placement. |

| | |
|---|---|
| DST | The student has met and exceeded, above and beyond expectation, the goals, criteria, or competencies established for this course, practicum or field placement. |
| NC | The student has not met the goals, criteria or competencies established for this course, practicum or field placement. |

## B. Temporary Grades

Temporary grades are assigned for specific circumstances and will convert to a final grade according to the grading scheme being used in the course. See Grading Policy at http://www.camosun.bc.ca/policies/E-1.5.pdf  for information on conversion to final grades, and for additional information on student record and transcript notations.

| Temporary Grade | Description |
|---|---|
| I | *Incomplete*:  A temporary grade assigned when the requirements of a course have not yet been completed due to hardship or extenuating circumstances, such as illness or death in the family. |
| IP | *In progress*:  A temporary grade assigned for courses that are designed to have an anticipated enrollment that extends beyond one term. No more than two IP grades will be assigned for the same course. |
| CW | *Compulsory Withdrawal*:  A temporary grade assigned by a Dean when an instructor, after documenting the prescriptive strategies applied and consulting with peers, deems that a student is unsafe to self or others and must be removed from the lab, practicum, worksite, or field placement. |