CAPILANO UNIVERSITY COURSE OUTLINE							
Term:	FALL 2015	Course No.	COMP 320				
Course:	DATABASE TECHNOLOGIES AND APPLICATIONS	Credits: Section:	3.0				
INSTRUCTOR Office: Tel: 604-986-1911 (Ext.) email: @capilanou.ca							

COURSE FORMAT: Three hours of class time, plus an additional hour of

supplemental activity delivered through on-line or other activities for a 15 week semester, which includes two weeks

for final exams.

PREREQUISITES: 45 credits 100-level or higher coursework including COMP

126.

COURSE DESCRIPTION:

This course introduces fundamentals of various data management technologies and their applications in business and other aspects of society. Students will gain hands-on experience using various data management technologies, including relational database systems and other cutting edge data management paradigms. Students will also be able to explain how databases work, write programs to interact with databases, implement simple database designs, and apply their skills in other disciplines.

COURSE OBJECTIVES:

General: The main concepts covered in this course include:

Relational databases

DBMS

SQL

Data types

Student Learning Outcomes:

Upon successful completion of the course, the student will be able to:

- identify features of a database;
- demonstrate a working knowledge of a DBMS;
- describe how data is organized and accessed using various data management technologies;
- set up and administer a relational database;
- write simple programs using SQL;
- implement simple database designs; and
- apply their acquired skills in other disciplines

COURSE WEBSITE: Most of the course materials will be available on the course's

Moodle site. Follow the link from http://moodle.capilanou.ca/.

REQUIRED COURSE MATERIALS:

Textbook: Ullman, Jeffrey D. and Jennifer Widom. First Course in

Database Systems. 3rd ed. Prentice Hall, 2008.

COURSE CONTENT:

Weeks	Topics	
1	Introduction	
2	Overview of various data management models: Hierarchical, Network, Relational, Object Oriented	
2	Introduction to the architecture of relational databases	
.5	Review and Testing	
2	Implementations of relational databases	
3	Programming and interacting with different database technologies	
.5	Review and Testing	
2	Applications of different database technologies	
2	Examination Period	

COURSE ASSIGNMENTS:

Interactive class discussions and exercises are an important part of the course. Students are expected to prepare in advance and fully participate in these. To further the understanding of the material, students will participate in group projects and will have to complete quizzes and activities using online collaboration tools, such as discussion forums and wikis.

EVALUATION PROFILE:

Final grades for the course will be computed based on the following schedule:

Projects	30%		
Term Tests & Quizzes	30%		
Final Exam	35%		
Performance Evaluation	5%		
TOTAL	100%		

PERFORMANCE EVALUATION:

In the absence of exceptional circumstances, which are at the instructor's discretion, the performance evaluation component of the final grade will be pro-rated to the rest of the grade using the

profile above. The most common circumstance justifying an increased performance evaluation mark is an improved performance in the final examination relative to the tests during the term, which the instructor feels justifies an elevated grade.

SUPPLEMENTAL 4TH HOUR ACTIVITY:

Supplemental activity might be a scheduled tutorial, an on-line activity, a group meeting, or some other activity as indicated by your instructor.

GRADING PROFILE:

Letter grades will be assigned according to the following guidelines:

A+	90 - 100%	B+ 77 - 79%	C+ 67 - 69%	D	50 - 59%
Α	85 - 89%	B 73 - 76%	C 63 - 66%	F	0 - 49%
A-	80 - 84%	B- 70 - 72%	C- 60 - 62%		

Students should refer to the University Calendar for the effect of the above grades on grade point average.

OPERATIONAL DETAILS:

University Policies: Capilano University has policies on Academic Appeals

(including appeal of final grade), Student Conduct, Cheating and Plagiarism, Academic Probation and other education issues. These and other policies are available on the

University website.

Attendance: Attendance at lectures, labs and tutorials is expected. Students

are responsible for all information given in the lectures, labs and

tutorials, including the times of tests and deadlines for

assignments.

Computer Access: Drop-in access to the University computers is available during

the hours posted outside each lab, subject to computer

availability. Please respect the instructor's directions if asked to leave the lab due to a class booking. The University's Student Conduct Policy and Misuse of Computer System Policy provided

in the University calendar will be strictly enforced.

Assignment Marks: Assignments may have different weights. Late assignments will

be penalized 10% if submitted late on the due date, then 20% for each succeeding day until solutions are available, and will not be

accepted thereafter.

Missed Exams: Normally, a score of zero will be given for a missed exam, test,

quiz, lab, etc. In some exceptional situations, the student will be permitted to write a make-up test, defer the lab to a later

date or to replace the score by other marks.

The situations in which a score of zero may be avoided are those for which the student meets **all** of the following conditions:

- Circumstances clearly beyond the control of the student caused the exam, test, quiz, lab, etc. to be missed. Such circumstances include serious illness or injury, or death of close family member. They do **NOT** include forgetting about the test, lack of preparation for the test, work-related or social obligations.
- The student has notified the instructor (or the Pure and Applied Science office staff, if the instructor is not available) about the missed exam, test, quiz, lab, etc. Such notification MUST occur in advance, if possible, or at the latest, on the day of the exam, test, quiz, lab, etc.
- 3. Proof of the circumstances is provided. Proper proof of illness or injury requires a medical certificate from a doctor, who may also be consulted.
- 4. The student has been fully participating in the course up until the circumstances that prevented the writing of the exam, test, quiz, lab, etc. Fully participating means attending almost all of the classes and turning in almost all assignments in the course.

The options offered to the student who meets the four conditions are decided by the instructor. They will not necessarily meet the convenience of the student.

Final Exam Period:

Students should note that the final exam period is from (date) (includes Saturday, ??), and that they can expect to write exams at any time during this period. Individual exam times will not normally be rescheduled because of holidays, work, or other commitments. While efforts are made to spread exams throughout the exam period, an individual's particular course combination may result in exams being scheduled close together, or spread widely through the entire exam period.

Cheating/Plagiarism:

Students caught cheating on a test will normally receive a grade of "F" for the course and may be expelled from the University. Plagiarism (including the copying of any part of assignments, laboratory reports and essays) is a serious offence and is a form of cheating.

Incomplete Grades:

Incomplete grades ("I") are given only when special arrangements have been agreed upon with the instructor prior to the end of the semester. Since "I" grades are granted only in exceptional circumstances (usually health problems), their occurrence is rare.

English Usage: Students are expected to use correct standard English in their

written and oral assignments, exams, presentations and discussions. Failure to do so may result in reduced grades in any part of the Evaluation Profile. Please refer to the guidelines provided in the Capilano Guide to Writing

Assignments (available from the University bookstore).

Emergency Procedures:

Please read the emergency procedures posted on the wall of

the classroom.