

SYLLABUS

CPSC 3220

Fall, 2013

COURSE: CPSC 3220 Section 0 CBN: 42528

TITLE: File and Database Processing

CLASS SCHEDULE: 11:00-11:50, MWF,

CLASS LOCATION: EMCS 301 (and EMCS 312 for special lab work)

CREDIT: 3

FACULTY: Jack Thompson

OFFICE LOCATION: EMCS 313B

OFFICE PHONE: 425-4329

OFFICE HOURS: MW 12:00-2:00 and TT 1:00-4:00 or by appointment

E-mail: jack-thompson@utc.edu

ADA STATEMENT: Attention: If you are a student with a disability (e.g. physical, learning, psychiatric, vision, hearing, etc.) and think that you might need special assistance or a special accommodation in this class or any other class, call the Disability Resource Center (DRC) at 425-4006 or come by the office, 102 Frist Hall <http://www.utc.edu/disability-resource-center/>.

If you find that personal problems, career indecision, study and time management difficulties, etc. are adversely affecting your successful progress at UTC, please contact the Counseling and Career Planning Center at 425-4438 or <http://www.utc.edu/Administration/CounselingAndCareerPlanning/>

COURSE DESCRIPTION: Processing of sequential, direct, indexed and hashed files. File sorting and searching techniques. Database concepts using the relational model, relational algebra and relational calculus. Database design with E-R modeling techniques, SQL programming. Prerequisite: CPSC 2100 with a minimum grade of C or department head approval. Differential course fee will be assessed.

COURSE OUTCOMES: After completing this course students should be able to:

1. Implement file reading and writing programs using PHP.
2. Identify file access schemes, including sequential, direct and indexed sequential file access.
3. Describe file-sorting and file-searching techniques.
4. Describe data compression and encryption techniques.
5. Design a relational database using E-R modeling techniques.
6. Build a relational database.
7. Write database queries using SQL.
8. Implement a web-based relational database using MySQL.

ATTENDANCE POLICY: You are expected to attend all lectures and lab meetings. If you must miss a test, for any reason, you are responsible for notifying me *before* the test is given.

MAKE-UP POLICY: In general, there will be no make-up for assignments, quizzes or tests. If you must miss a scheduled test, you should arrange to take it in advance. All assignments are to be turned in on or before the assigned due date. A 10% penalty will be made for each day an assignment is late.

EVALUATION: You will be asked to complete several lab assignments and quizzes, take two one-hour exams and a final exam. Your course grade will then be determined as:

Grade = average of exam grades

Letter grades will be taken from the following table:

Grade	Letter
90 or above	A
80 thru 89	B
70 thru 79	C
60 thru 69	D
Below 60	F

TEXTBOOK: (Required) Murach, Joel and Ray Harris. *Murach's PHP and MySQL*. Murach, ISBN-13 978-1-890774-56-1

(Required) Rockoff, Larry. *Language of SQL*. Cengage, ISBN 978-1-435457-51-5