Carleton University
School of Computer Science
COMP 3005 A
Database Management Systems
Fall 2020

Instructor: Mengchi Liu  mengchi@scs.carleton.ca
Lectures: Tuesday and Thursday: 10:05 AM - 11:25 AM
Synchronous online course via BigBlueButtonBN on culearn
Office Hours: Online Thursday 11:30AM - 12:30PM

Teaching Assistants:
1. Cheng Liu  changliu8@cmail.carleton.ca
2. Davoud Saljoughi Badlou  davoudsaljoughibadlo@cmail.carleton.ca
3. Jiahe Geng  jiahegeng@cmail.carleton.ca
4. Sharjeel Ali  sharjeelali@cmail.carleton.ca
5. Simon Krol  simonkrol@cmail.carleton.ca

Textbook:

Software:
Oracle Virtual Machine

Prerequisites:
COMP 1805 with C- minimum plus any two of COMP 2401, 2402 and 2406

Course Information:
culearn is used to host the information about the course such as announcements, lectures, question and answer forums, posting and submitting assignments and grading.

Course Description:
Introduces students to concepts of database management systems, data models, database languages, database design and physical data organization. Materials:
- Overview of Databases
- Relational Model
- Query Languages
- Relational Database Design
- ER/EER Model and Normalization
- Physical Storage Systems and Storage Structure
- Indexing
- Query Processing and Query Optimization
- Transactions and Concurrency Control
- Recovery

Marking Scheme:

<table>
<thead>
<tr>
<th>Assignments (6)</th>
<th>25%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Midterm (Oct. 22 in)</td>
<td>25%</td>
</tr>
<tr>
<td>Final (Centrally Scheduled)</td>
<td>50%</td>
</tr>
</tbody>
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Note:
1. Assignments must be typed, completed on an individual basis, and submitted to culearn before the due date and time in order to be marked. Assignments are allowed to be submitted one day late with 10% penalty. After that, no submission will be accepted. Never email any assignment to the instructor or TAs!
2. Assignments may have different weights.
3. Midterm covers everything learned in class up to and including the last lecture prior to it.
4. Any issues regarding assignment and midterm marks should be brought to the attention of the TA who marked it (only if the TA does not address the problem to your satisfaction should you bring the matter to the instructor). However, this has be done no later than two weeks after the marks of this assignment/midterm are posted. After this time, no remarking will be done.
5. Final covers everything learned in class.
6. Students must have at least 45% for the final to pass the course.
7. For the midterm and final examinations, the Carleton University e-Proctoring system will be used in your assessments, and requires the use of webcams, microphones, and smart phones.

University Policy on Plagiarism and Cheating
Plagiarism - As defined by Senate, "plagiarism is presenting, whether intentional or not, the ideas or work of others as one's own".

Unauthorized Co-operation or Collaboration- Senate policy states that "to ensure fairness and equity in assessment of term work, students shall not co-operate or collaborate in the completion of an academic assignment, in whole or in part, when the instructor has indicated that the assignment is to be completed on an individual basis". Please refer to the course outline statement or the instructor concerning this issue.

Student Academic Integrity
The following are some examples of things you can or cannot do:
- You are not allowed to copy or edit any portion of another student's work such as code, diagram etc, nor from any websites, but you may use those from the course notes.
• You are not allowed to give your solution (or portions of it) to another student.
• You are not allowed to work on your assignment with other students, with friends, with parents, with relatives, etc.
• You are not allowed to post full or partial assignment solutions on discussion boards or websites such as facebook, etc.

You must work on every assignment on your own without collaboration with other students. If you need help, see a TA or the instructor. Your assignment will be compared with others in the course and if you are believed to be involved in a plagiarism case in any way, the offence will be sent to the office of the Dean. The minimum penalties for plagiarism have become very serious. If this is your first time in any course so far, you automatically receive an F in the course! If it is your second time, you receive a one-year suspension from the program. If it is your third time, you get expulsion from the University.

Penalties for offences can be found on the ODS webpage:
https://science.carleton.ca/academic-integrity/

Undergraduate Academic Advisor
The Undergraduate Advisor for the School of Computer Science is available in Room 5302C HP, by telephone at 520-2600, ext. 4364 or by email at undergraduate_advisor@scs.carleton.ca. The undergraduate advisor can assist with information about prerequisites and preclusions, course substitutions or equivalencies, understanding your academic audit and the remaining requirements for graduation. The undergraduate advisor will also refer students to appropriate resources such as the Science Student Success Centre, Learning Support Services and the Writing Tutorial Services.

Academic Accommodations for Students with Disabilities.
The Paul Menton Centre for Students with Disabilities (PMC) provides services to students with Learning Disabilities (LD), psychiatric/mental health disabilities, Attention Deficit Hyperactivity Disorder (ADHD), Autism Spectrum Disorders (ASD), chronic medical conditions, and impairments in mobility, hearing, and vision. If you have a disability requiring academic accommodations in this course, please contact PMC at 613-520-6608 or pmc@carleton.ca for a formal evaluation. If you are already registered with the PMC, contact your PMC coordinator to send me your Letter of Accommodation at the beginning of the term, and no later than two weeks before the first in-class scheduled test or exam requiring accommodation (if applicable). After requesting accommodation from PMC, meet with me to ensure accommodation arrangements are made. Please consult the PMC website for the deadline to request accommodations for the formally-scheduled exam (if applicable) at http://www2.carleton.ca PMC new and current students/dates-and-deadlines

Religious Obligation.
Write to me with any requests for academic accommodation during the first two weeks of class, or as soon as possible after the need for accommodation is known to exist. For more details visit the Equity Services website: http://www2.carleton.ca/equity/
**Pregnancy Obligation.**
Write to me with any requests for academic accommodation during the first two weeks of class, or as soon as possible after the need for accommodation is known to exist. For more details visit the Equity Services website: [http://www2.carleton.ca/equity/](http://www2.carleton.ca/equity/)

**Medical Certificate.**
The following is a link to the official medical certificate accepted by Carleton University for the deferral of final examinations or assignments in undergraduate courses. To access the form, please go to [http://www.carleton.ca/registrar/form](http://www.carleton.ca/registrar/form)