School of Computer Science
University of Guelph

CIS*6030
Information Systems

Fall 2019

Instructor

Fangju Wang, REYN3304, X52939, fjwang@uoguelph.ca

Lecture Hours and Room

Monday and Wednesday: 10:00am–11:20am, REYN1101

Advisory Hours

Wednesday: 02:30pm–03:30pm, Friday: 12:30pm–01:30pm.

Course Objectives and Topics

This course is aimed at providing knowledge and skills of conventional and advanced (mainly big data) information systems. Three major topics are

- Physical data storage and indexing,
- Conceptual design and querying of relational and object-relational databases, and
- Techniques for big data storage, retrieval and analytics.

Recommended Textbooks:

- R. Elmasri and S. Navathe, *Fundamentals of Database Systems (Seventh Edition)*, Pearson Education Inc, 2019.
- T. Erl, W. Khattak, and P. Buhler, *Big Data Fundamentals*, Prentice Hall, 2016.
- Hector Garcia-Molina, Jeffery D. Ullman and Jennifer Widom, *Database Systems The Complete Book (second Edition)*, Prentice Hall, 2009.

Course Web:

http://moodle.cis.uoguelph.ca

Assignments, Term Project, and Participation

1. Three assignments: $(20 + 20 + 20)\%$.
2. Term project: 25%.

3. Participation: 15%.

Assignment and Project Dates

- Assignments (due in):
  - Assignment 1: the week of October 14, 2019
  - Assignment 2: the week of October 28, 2019
  - Assignment 3: the week of November 18, 2019
- Term project (due on):
  - December 2, 2019

Note:

- Each assignment and project must be completed **individually**.
- For a programming assignment, use of any code from the Internet or other sources are not allowed.
- All cases of **academic misconduct** are handled by the Dean, in conjunction with the School Director. For details please see related pages in the *University of Guelph Graduate Calendar 2019-2020*.
- To appeal a mark of an assignment you must do so within two weeks after it is returned.
- Any email regarding the course work should be sent from your *uoguelph.ca* account, and should include "CIS*6030" in the subject.