UNIVERSITY OF GUELPH
School of Computer Science
COURSE OUTLINE

| **Course Code:** CIS*2250 | **Course Title:** Software Design II | **Date of Offering:** Winter 2017 |
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| **Instructor:** Dr. Deborah Stacey | **Office:** *None – email for an appointment*<br>**Email:** dastacey@uoguelph.ca |
| **Teaching Assistant:** *See Course Site* | **Hours:** *See Course Site* |

**Calendar Description:**
This course focuses on the process of software design. Best practices for code development and review will be the examined. The software development process and tools to support this will be studied along with methods for project management. The course has an applied focus and will involve software design and development experiences in teams, a literacy component, and the use of software development tools.
Prerequisite(s): CIS*1500, CIS*1250

**Topics:**
- Software Design Methodology
  - Agile Design
- Team Skills in SW Development
  - Project Management, Team Building, Reviews
- Individual Skills in SW Development
  - Problem Solving, Code Reading, Debugging
- Underlying Principles and Skills Needed for SW Design and Development
  - Communications, Ethics and Social Impact

| **Class Information: Lectures** | **Class Information: Labs** |
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| M/W/F 09:30-10:20, RICH 2529 | L01: M 19:00-21:20, THRN 2420<br>L02: M 11:30-13:20, THRN 2420<br>L03: W 12:30-14:20, THRN 2420<br>L04: F 15:30-17:20, THRN 2420 |
| **Course Site:** *CourseLink* | |

**Required Texts:**
- *Change by Design*, Tim Brown and Barry Katz, Harper Collins, 2009. ISBN 0-061-76608-9
- *Dataclysm: Who We Are (When We Think No One's Looking),* Christian Rudder, Crown, 2014, ISBN-10:0385347375

**Method of Evaluation:**

| **Course Elements** | **Date** | **Weight** |
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| ***1. Examinations*** | | **40%** |
| • Quizzes | • Weeks 2-5, 7, 9, 11 (Fridays) | • 10% |
| • Midterm Exam | • Friday, February 17, 2017 | • 15% |
| • Final Exam | • Wednesday, April 12, 2017 | • 15% |
| ***2. Assignments*** | ***Details on course site*** | **30%** |
| • *Lab* | • Weeks 2-6 (during lab times) | • 10% |
| • *Individual* | • Week 8 (Fri, Mar 10, 2017) | • 10% |
| • *Team* | • Week 5 (Fri, Feb 10, 2017) | • 10% |
| ***3. Team Project*** | Milestones due: Weeks 8, 9, 11 (Friday's)<br>*Milestone descriptions on course site.* | **30%** |
| Final Exam | Wednesday, April 12, 2017 (14:30-16:30) | Location: *TBA* |

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| **Grading Policies** | The student must attempt all course elements (3) and achieve a passing grade in each element (*i.e.* exams, assignments, project). If you pass all elements your final grade will be the weighted average of all your grades (see weights above). Otherwise, it will be the lesser of the weighted average and the grade(s) in the failing element(s). |

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## ACADEMIC INTEGRITY

The University of Guelph is committed to the highest standards of academic integrity and honesty. Students are expected to be familiar with these standards, and must abide by the applicable policies (see Section VIII of the Undergraduate Calendar on "Academic Misconduct" found on **https://www.uoguelph.ca/registrar/calendars/undergraduate/2016-2017/c08/c08-amisconduct.shtml**)

For educational purposes, instructors impose conditions on assignments that may limit students' permission to collaborate with others or to utilize external sources (including, but not limited to, software, data, images, text, etc.). Any permitted utilization must be done with proper references. Instructors may use automated tools to detect possible cases of plagiarism. Work that shows significant unnatural similarity, or that appears to be copied from unacknowledged sources, will be investigated as potential academic misconduct. "Aiding and abetting" is also a punishable offence, and students must be careful not to help others commit offences by giving out their files or allowing others to access their computer accounts. ***Consider yourself warned.***

## ACCEPTABLE USE POLICY

Please read the complete University of Guelph policy found on **https://www.uoguelph.ca/ccs/infosec/aup**.

## E-MAIL POLICY

Students should include their **name** and **course number** in every email, *e.g.* Joe Smith: CIS*2250, since instructors are often involved in teaching more than one course per term. To comply with university privacy policy, all emails should be sent from your ***mail.uoguelph.ca*** account (not from hotmail.com or any other non-UoG host). All students are responsible for reading their ***uoguelph*** email and therefore should maintain their accounts, *i.e.* disk quotes should be monitored so that email is not rejected due to lack of space. On the subject line of your email please include the course number, e.g. "*Subject*: CIS*2250 – Question about the midterm".