

## Western University – School of Graduate and Professional Studies

### GS 9101 –Design-Driven Innovation Course Outline – Fall 2016

#### **Objectives:**

The Design-Driven Innovation course will develop graduate students' skills in design thinking, innovation and team work. You will participate in seminars and two group projects that will highlight and enhance your research capabilities to address practical and current real-world problems. The course is open to all disciplines and you will work in teams with students from different programs. By the end of this course, you will have a strong understanding of how your academic, research and life experiences can be applied to solving multidisciplinary problems.

For more information about Design Thinking, please check out the following online resources:

- \* [https://en.wikipedia.org/wiki/Design\\_thinking](https://en.wikipedia.org/wiki/Design_thinking)
- \* <http://www.fastcompany.com/919258/design-thinking-what>
- \* <http://stanford.io/1XCKEj7>

#### **Topics:**

The basic topics in the course will apply the Design Thinking methodology to problem solving. At a high level these steps are:

- **Defining a problem**
- **Observing and assessing the current situation**
- **Creating options**
- **Building prototypes**
- **Selection, development and promotion of preferred alternative**

The course will be conducted using collaborative teams.

#### **Timetable:**

The basic timetable of the course will be:

Session	Topic
1	Introduction to Design Thinking
2	Working in Diverse Teams
3	Step 1: Empathize
4	Step 2: Define

5	Step 3: Ideate
6	Step 4: Prototype
7	Step 5: Test
8	Project 1 Presentations
9	Working Session
10	Change Management
11	Powerful Presentations
12	Interim Presentations
13	Final Presentations

Class begins: September 13, 2016

**Prerequisite:**

SGPS Regulations - Section 9:[http://grad.uwo.ca/current\\_students/regulations/9.html](http://grad.uwo.ca/current_students/regulations/9.html)

Graduate students are encouraged to participate in professional development and career-related courses, workshops, talks and events. Graduate students do NOT need the approval of their supervisors or their programs to participate in these faculty, program and university-wide events.

Student participation in this course is expected to occur outside of TA duties, time-critical research duties, and shall not interfere with required current Graduate program courses, meetings and responsibilities.

No additional prerequisites are required.

**Corequisite:**

None

**Antirequisite:**

None

**Instructor:**

Dr Darren Meister, [dmeister@uwo.ca](mailto:dmeister@uwo.ca)

**Contact Hours:**

Tuesdays from 3:30-6:30 Fall Term, Class in UCC 63

**Course Materials:**

Material will be available on OWL.

## **Evaluation:**

The final course mark will be determined as a Pass/Fail. There will be three elements to the course and a pass in each area is required in order to gain a Pass. Students will be provided individual graded feedback by the instructor on each component.

### Contribution (25%)

You are expected to be present for each class and to arrive on time and not depart early. Most weeks there will be an expectation of 1-2 hours of preparation for each class. Disruptive or disrespectful behaviour in class will not be tolerated. In general, this means that electronic devices should not be consulted during class time.

Missing all or part of more than 3 classes will result in a Fail in this section.

### Initial Project (25%)

In an assigned group, students will develop a solution to a small, focussed problem using the design thinking methodology. The groups and problems will be assigned in Week 2 and presentations will be made to the class in Week 8.

### Final Project (50%)

In an assigned group, students will develop a solution to a challenging, ambiguous and perhaps not solvable problem using the design thinking methodology. The groups will be assigned in Week 8 as will the problems. Practice presentations presenting the prototype will be made during week 12 with the Final Presentation being due during Week 13. This presentation may occur outside of normal class time and will include outside guests.

## **Scholastic Offences:**

Scholastic offences are taken seriously and students are directed to read the appropriate policy, specifically, the definition of what constitutes a Scholastic Offence, at the following Web site: [http://www.uwo.ca/univsec/handbook/appeals/scholastic\\_discipline\\_grad.pdf](http://www.uwo.ca/univsec/handbook/appeals/scholastic_discipline_grad.pdf).

## **Plagiarism:**

University policy states that plagiarism, defined as the “act or an instance of copying or stealing another’s words or ideas and attributing them as one’s own.” (Excerpted from Black’s Law Dictionary, West Group, 1999, 7th ed., p. 1170) is a scholastic offence. In submitting any written work as part of the coursework requirements for this course students must ensure that this work is written in their own words. Whenever students take an idea or a passage of text from another

author, they must acknowledge their debt both by using quotation marks where appropriate and by proper referencing such as footnotes or citations.

All required papers may be subject to submission for textual similarity review to the commercial plagiarism-detection software under license to the University for the detection of plagiarism. All papers submitted for such checking will be included as source documents in the reference database for the purpose of detecting plagiarism of papers subsequently submitted to the system. Use of the service is subject to the licensing agreement, currently between The University of Western Ontario and Turnitin.com (<http://www.turnitin.com>).

A student who is found guilty of plagiarism in respect of any written work submitted as part of the coursework requirements for this course will be given a grade of zero for the submitted work. Repeated acts of plagiarism, either in this course or any other course subsequent to a first offence, will result in the student being given a failing grade for the course in which the subsequent offence occurs, and may also incur further penalties such as requiring the student to withdraw from the program in which they are enrolled in.

**Attendance:**

Any student who, in the opinion of the instructor, is absent too frequently from class, laboratory, or tutorial periods will be reported to the Dean (after due warning has been given). On the recommendation of the Department concerned, and with the permission of the Dean, the student will be debarred from taking the regular final examination in the course.

**Accessibility:**

Please contact the course instructor if you require material in an alternate format or if any other arrangements can make this course more accessible to you. You may also wish to contact Services for Students with Disabilities (SSD) at 661-2111 x 82147 for any specific question regarding an accommodation.

**Conduct:**

Students are expected to arrive at lectures on time, and to conduct themselves during class in a professional and respectful manner that is not disruptive to others. Late comers may be asked to wait outside the classroom until being invited in by the Instructor. Please turn off your cell phone before coming to a class, tutorial, quiz or exam.

On the premises of the University or at a University-sponsored program, students must abide by the Student Code of Conduct: <http://www.uwo.ca/univsec/board/code.pdf>.

**Sickness and Other Problems:**

Students should immediately consult with the Instructor or Department Chair if they have any problems that could affect their performance in the course. Where appropriate, the problems should be documented (see attached). The student should seek advice from the Instructor or Department Chair regarding how best to deal with the problem. Failure to notify the Instructor or Department Chair immediately (or as soon as possible thereafter) will have a negative effect on any appeal.

For more information concerning medical accommodations, please see:  
[http://www.uwo.ca/univsec/handbook/appeals/accommodation\\_medical.pdf](http://www.uwo.ca/univsec/handbook/appeals/accommodation_medical.pdf).

**Notice:**

Students are responsible for regularly checking their email, and the course OWL site for new notices related to the course.