University of Waterloo Stratford Campus

GBDA 401: Cross-Cultural Digital Business 1

Fall 2017

Section 001 Morning	Section 2 Afternoon
Mon 9-11:50AM, DMS 3022	Mon 1-3:50PM, DMS 3022
Tue 9-11:50AM, DMS 3129	Tue 1-3:50PM, DMS 3129
Wed 9-11:50AM, DMS 3022	Wed 1-3:50, DMS 3022
Thu 9-11:50AM, DMS 3022	Thu 1-3:50PM, DMS 3022

Instructor Information

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Instructor UX Design: Leah Zhang Office: DMS [3126] (Stratford) Office Phone: (Stratford x23003) Office Hours: by appointment Email: Izhangke@uwaterloo.ca Contact via email preferred.

Instructor **UX Research**: Karin Schmidlin

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Course Coordinator: Karin Schmidlin

"I'm your first point of contact for anything related to this course."

Course Description

In this course students will engage in advanced study of how to adapt digital products and services to suit specific cultures or communities. You will develop proofs of concept; design prototypes; usability tests, and a business case while working with global businesses, consultants, and a community partner. Our community partner for Fall 2017 is the **Royal Society of Arts (RSA) Student Design Awards**, a competition that challenges emerging designers to tackle real-world social, economic, and environmental issues. As part of the NatWest awards for the best design project and best business case, students will design and develop a product, system, service or business model *for a way to promote greater wellbeing when people are at work*.

More about the RSA competition: https://www.thersa.org

This course consists of 3 equal parts: Business, UX Design, and UX Research and is being taught by 3 instructors that have expertise in these areas. The term is organized around 6 design sprints of two weeks each. The sprint themes are:

Understand – Define – Diverge – Decide – Prototype – Validate.

At the end of each sprint, every two weeks, teams present their findings and receive feedback from the three instructors.

Course Goals and Learning Outcomes

Upon completion of this course, students should be able to:

- A. Conceptualize a generative design by
 - Addressing user needs
 - Conducting relevant, credible market and user research
 - Communicating in writing and oral presentation the values, meaning and social implications of a design
 - Differentiating a design from pre-existing models
- B. Prototype effectively by
 - Adapting to variable platforms (low -, and high-fidelity)
 - Creating prototypes that effectively address user needs
- C. Iterate designs effectively by
 - Seeking and actively listening to user feedback
 - Conducting and reporting relevant, credible usability testing
 - Pivoting on and integrating feedback in meaningful prototype revisions
 - Rapidly responding to critique in a professional manner
 - Providing effective and actionable feedback on designs
- D. Manage a project effectively by
 - Effectively scaling and scoping projects
 - Facilitating positive and productive team communication
 - Coordinating human resources to achieve productivity
 - Making the most efficient use of limited material resources
 - Consistently meeting hard stop deadlines
- E. Plan a viable business strategy by
 - Conducting relevant market research
 - Accurately assessing resource needs
- F. Execute a business strategy by
 - Creating creative briefs and prototypes that effectively communicate a design concept
 - Communicating a confident, polished, convincing pitch in an oral presentation, accompanied by visual media
 - Provide polished supporting documents and prototypes to stakeholders
- G. Develop team assessment, self-assessment and reflexivity skills by
 - Evaluating own performance and set structured and measurable goals for improvement

- Assessing the strengths of one's team members and provide actionable feedback for improvement
- Scoping, committing to, and delivering on one's individualized commitments to the project
- Applying skills learned in previous GBDA courses to novel contexts
- Acquiring new skills via self-directed learning
- Learning and habitually apply project management and team communication tool

Course Requirements and Assessment

For this course, students will predominantly be assessed on the technical quality of the content they produce, its growth and iteration along the way, the consideration of cultural and contextual suitability, and the creative and critical thinking skills each team employs. Many smaller assignments are structured to set deadlines, provide early feedback, pinpoint any problem areas and keep things on schedule.

Deliverables & Assessment

What	Details	Specs	Due Date	%
RSA Submission				50%
	Hero Image: A singular 'poster image' that conveys the essence of your project, plus 1 sentence strapline or description	A3 PDF image	Nov 2	5%
	Big Idea Summary: A single A3 PDF page describing your 'Big Idea' in less than 250 words. This should clearly explain what your solution is, the specific area of need it addresses, and how you arrived at the solution.	A3 PDF	Nov 2	10%
	Your Proposal: 4 pages describing your proposal and demonstrating that you have met the 6 judging criteria	4x A3 PDF boards. Each board should include a heading. Number each board in the top right hand corner, in the order they should be viewed by the judges	Nov 30	10%
	Supporting Material: Up to 10 pages of additional material illustrating your development process	10x A3 PDFs. This could include scanned pages of your sketchbook or computer modeling/sketches	Nov 30	5%
	Business Case: 1-2 pages of a business case. This should not	1-2 page A3 PDF	Nov 30	20%

	exceed two pages and may include diagrams and/or charts as appropriate			
Prototype				30%
	A fully functioning and		Dec 4	
	interactive prototype of	InVision, 3D printing,		
	your project	website etc		
Presentations				10%
	Bi-weekly Sprint		Sept 21, Oct	1% (x5)
	presentations		5, Oct 19,	Total: 5%
			Nov 2, Nov	
			16	
Final Presentation			Dec 4	5%
Reviews				10%
	360 Reviews	(see below)	Sept 21, Oct	1% (x5)
		,	5, Oct 19,	Total: 5%
			Nov 2, Nov	
			16	
	Post Mortem	(see below)	Dec 11	5%

For group assignments, students will receive a group mark. The individual grade is heavily derived from the 360 peer-evaluations and Post Mortem, so working well with a team and carrying the weight of the project equally (and avoiding either under-contributing or over-contributing) is essential if students want to do well in the course.

RSA SDA Submission

The submission to the RSA Student Design Award will be checked against a checklist of submission requirements (see table above). Before the submission, it is important to be aware of the judging criteria of the award, which are: (1) Social and environmental benefit – how does your design benefit society and the environment? (2) Research and insights – how did you investigate this issue? What were your key insights? (3) Design thinking – how did your research and insights inform your solution? How did you develop, test, iterate and refine your concept? Demonstrate the journey you've been through to the end result. (4) Commercial awareness – does your journey make sense from a financial point of view? What is the competitive environment your solution would sit within? (5) Execution – we are looking for a design that is pleasing and looks and feels well resolved. (6) Magic – we are looking for a bit of 'magic' – a surprising or lateral design solution that delights. *More can be found on LEARN*.

360 Review and Post Mortem

At the end of each design sprint, every two weeks, students will complete a **360 review**. This is a peer review assessment form, where students review their teammates during the sprint.

The **Post Mortem** is a final meeting, where the students and an instructor meet as a group and review the successes and failures of the project in order to determine areas for personal improvement.

Course Outline

The class is taught in six 2-week design sprints. Instructors will teach topics that they have the most expertise in with each one covering one day a week. In addition, Thursdays will serve as presentation days with the instructor team. Below is a temporary timeline. The final delivery of the lectures and time below may change due to class ability, interest and progress.

Sprint		Date	Topic	Faculty
	Intro	Sept 7	Intro	All
1	UNDERSTAND	Sept 11	What are the important business questions to	<mark>Vivian Yang</mark>
			ask about new ideas	
		Sept 12	User Centered Design and Design thinking	Karin Schmidlin
		Sept 13	Understanding design	Leah Zhang
		Sept 14	Check-ins/workshop/guest speakers	All
		Sept 18	Business Models	<mark>Vivian Yang</mark>
		Sept 19	Research 1: The User	Karin Schmidlin
			Interviews, surveys & questions	
		Sept 20	Conceptualizing User Interaction	Leah Zhang
		Sept 21	Sprint 1: Presentations & Feedback	All
2	DEFINE	Sept 25	Commercial Awareness: A Financial Point of View 1	Vivian Yang
		Sept 26	Research 2: The Market	Karin Schmidlin
			Market and Competitor Research	
		Sept 27	Information Architecture & Service Blueprint	Leah Zhang
		Sept 28	Check-ins/workshop/guest speakers	All
		Oct 2	Commercial Awareness: A Financial Point of	Vivian Yangs
			View 2	
		Oct 3	Branding	Leah Zhang
		Oct 4	Personas & Stakeholder Users	Karin Schmidlin
		Oct 5	Sprint 2: Presentations & Feedback	All
	NO CLASS	Oct 9	THANKSGIVING	
	NO CLASS	Oct 10	STUDY BREAK	
	NO CLASS	Oct 11	STUDY BREAK	
3	DIVERGE	Oct 12 (Makeu p Oct 9)	Ideation and Storytelling	Karin Schmidlin
		Oct 13 (Makeu p Oct 10)	Emotional Interaction	Leah Zhang
		Oct 16	Commercial Awareness: Competitive Environment Analysis of your solution 1	Vivian Yang
		Oct 17	Mental Models & Human Behaviour	Karin Schmidlin

		Oct 18	Inclusive Design & Accessibility	Leah Zhang
		Oct 19	Sprint 3: Presentations & Feedback	All
4	DECIDE	Oct 23	Commercial Awareness: Competitive Environment Analysis of your solution 2	Vivian Yang
		Oct 24	Analyzing Data	Karin Schmidlin
		Oct 25	Visual Design – Composition and Design Principles	Leah Zhang
		Oct 26	Check-ins/workshop/guest speakers	All
		Oct 30	Marketing and Sales for Startups (Guest Spearker)	Vivian Yang
		Oct 31	Experience Maps	Karin Schmidlin
		Nov 1	Visual Design – Colour and Typography	Leah Zhang
		Nov 2	Sprint 4: Presentations & Feedback	All
5	PROTOTYPE	Nov 6	Business Plan/Case	Vivian Yang
		Nov 7	User scenarios, stories and task flows	Karin Schmidlin
		Nov 8	Low/Mid-Fidelity Prototype	Leah Zhang
		Nov 9	Check-ins/workshop/guest speakers	All
		Nov 13	Critique on Business Case	Vivian Yang
		Nov 14	InVision lab (adding interactivity)	Karin Schmidlin
		Nov 15	Interaction Design and Hi-Fidelity Prototype	Leah Zhang
		Nov 16	Sprint 5: Presentations & Feedback	All
6	VALIDATE	Nov 20	Business Pitch (Guest Speaker)	Vivian Yang
		Nov 21	Usability Testing 1: In the lab	Karin Schmidlin
		Nov 22	Cognitive Processes	Leah Zhang
		Nov 23	Check-ins/workshop/guest speakers	All
		Nov 27	Work Session on preparing business case document and final presentation	Vivian Yang
		Nov 28	Usability Testing 2: In the wild	Karin Schmidlin
		Nov 29	Work Session	Leah Zhang
		Nov 30	Work Session	All
		Dec 4	Final Presentations	All
		(Makeu		
		p Oct		
		11)		

Course Readings

All readings will be available on LEARN prior to the classes. Please refer to LEARN for the corresponding dates.

Course Disclaimer

Final course grades may be adjusted to conform to program or Faculty grade distribution profiles. This course outline documents our intentions for this course. If over the period of the academic year, it becomes apparent that modifications are necessary, the following strategy will be pursued: Any necessary modifications that may influence student success or the marking scheme will only be made after in-depth, frank discussion with the students.

Course Communication and Materials

Lecture slides, grades, and other course materials will be posted on to LEARN.

A Slack (https://slack.com/) account has been set up for this course. Each team will receive access to their unique #channel that should be uses as the main team communications tool. All three instructors have access to all channels and can easily be reached for quick questions.

All official announcements will be posted on SLACK by the course coordinator.

Work Submission Policy

With the exception of physical prototypes, all work must but be submitted to the designated Dropbox on LEARN by the posted deadline. Submissions MUST be in the appropriate file format (often PDF). At the end of each sprint, you must submit and leave all physical prototypes for evaluation.

Late Work

Assignments submitted late without approved extensions will be subject to late penalties. 5% will be deducted for projects that are handed in within 24hrs after the deadline and an additional 5% per day thereafter (including weekends) up to a maximum of 50%. After that time a grade of 0% will be assigned for the late work. Late penalties are not recoverable.

Deadlines

Assignments are due by the date given in the schedule at the time of day specified. Extensions to assignment deadlines will be granted only in cases of illness or emergency. Extensions are granted based on the discretion of the instructors. Students should contact the instructor as soon as possible to make their requests and provide credible documentation (such as a doctor's note or a Verification of Illness Form).

Information on Plagiarism Detection

Students and faculty at the University of Waterloo share an important responsibility to maintain the integrity of the teaching and learning relationship. This relationship is characterized by honesty, fairness, and mutual respect for the aim and principles of the pursuit of education. Academic misconduct impedes the activities of the university community and is punishable by appropriate disciplinary action.

We reserve the right to use electronic means to detect and help prevent plagiarism. Students agree that by taking this course all assignments are subject to submission for textual similarity review by software (e.g., Turnitin.com or Grammarly). Assignments submitted to Turnitin.com will be included as source documents in Turnitin.com's restricted access database solely for the purpose of detecting plagiarism in such documents for five academic years. The instructors may require students to submit their assignments electronically to Turnitin.com or the instructor may submit questionable text on behalf of a student.

Attendance

Students are expected to attend all classes. The instructor or course coordinator should be notified of any anticipated absences well in advance.

A note on copyright free and Creative Commons:

Resources are available in the public domain that are identified as copyright free or that fall under licenses from Creative Commons. Public domain is a term used for works that are not protected by copyright law. If an image is in the public domain then you are allowed to use it—to copy it, to manipulate it and to distribute it. Works identified as Creative Commons allow varying degrees of use. In this case, the authors decide how you can use their images.

Helpful Links:

- CARFAC (Canadian Artists Representation / Le front des artists canadiens) (CARFAC website)
- Wikimedia Commons and Flickr have databases of digital files that are available for use. You
 need to check the conditions of use as they vary: (Wikimedia Commons website; Flickr Commons
 link)
- The Copyright Act in Canada was recently amended to reflect the current digital landscape. To find out more about the "Copyright Modernization Act", check out: (Canadian Copyright Act link)
- The following is a conversation that occurred on the US-based site, Copyright Advisory Network.
 It answers some of the basics related to US Copyright, images and fair use:
 (http://librarycopyright.net/forum/view/1456)
- The following document defines works in the public domain for United States as of January 1, 2013: (http://copyright.cornell.edu/resources/docs/copyrightterm.pdf)

Institutional-required statements for undergraduate course outlines approved by Senate Undergraduate Council, April 14, 2009

Academic Integrity

Grievance

A student who believes that a decision affecting some aspect of his/her university life has been unfair or unreasonable may have grounds for initiating a grievance. Read <u>Policy 70, Student Petitions and Grievances, Section 4</u> (https://uwaterloo.ca/secretariat/policies-procedures-guidelines/policy-70). When in doubt please be certain to contact the department's administrative assistant who will provide further assistance.

Discipline

A student is expected to know what constitutes academic integrity to avoid committing academic offenses and to take responsibility for his/her actions. A student who is unsure whether an action constitutes an offense, or who needs help in learning how to avoid offenses (e.g., plagiarism, cheating) or about "rules" for group work/collaboration should seek guidance from the course professor, academic advisor, or the

undergraduate associate dean. For information on categories of offenses and types of penalties, students should refer to Policy 71, Student Discipline (http://www.adm.uwaterloo.ca/infosec/Policies/policy71.htm). For typical penalties check Guidelines for the Assessment of Penalties (http://www.adm.uwaterloo.ca/infosec/guidelines/penaltyguidelines.htm).

Appeals

A decision made or penalty imposed under Policy 70, Student Petitions and Grievances (other than a petition) or Policy 71, Student Discipline may be appealed if there is a ground. A student who believes he/she has a ground for an appeal should refer to Policy 72, Student Appeals (http://www.adm.uwaterloo.ca/infosec/Policies/policy72.htm).

Note for Students with Disabilities

The Office for Persons with Disabilities (OPD), located in Needles Hall, Room 1132, collaborates with all academic departments to arrange appropriate accommodations for students with disabilities without compromising the academic integrity of the curriculum. If you require academic accommodations to lessen the impact of your disability, please register with the OPD at the beginning of each academic term.