CARLETON UNIVERSITY
School of Industrial Design
IDES 5101 Interdisciplinary Design Development Seminar FALL 2017

COURSE OUTLINE

Instructor Çağla Doğan, PhD
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Office Hours by appointment
Course Time and Location Tuesday 14:35 - 17:25, AP 430 MDES Studio

Course Description

Investigation of disciplines involved in design development, with experts in Business, Engineering, Sociology/Anthropology, Architecture, Psychology, Human Factors, Industrial Design, and others. Includes a critical examination of methods used to integrate different approaches, and roles that personality, leadership, negotiation, conflict management, and teambuilding play in collaboration. Introduction to graduate academic writing.

Students participate individually and in small groups to research, formulate and draw conclusions regarding a chosen focal topic through a series of explorations and discussions, presentations, and individual papers which will lead to final publications.

Rationale

This course introduces the practical concepts upon which the MDs program is based. The first is the investigation of issues related to interdisciplinary design cultures, which will be achieved primarily through discussions of the course readings. The second is to learn about the nature of team interactions, which will be accomplished through course activities, readings, and guest visits. Finally this course places strong emphasis on acquiring critical thinking, presentation, and writing skills appropriate to scholarly publications and events, especially conference papers and presentations. This will be developed through facilitating and participating in weekly discussions and in individual writing assignments.

Learning Outcomes

By the end of this course students will be able to:
* Discuss theoretical issues arising in the general discourse about interdisciplinarity & design,
* Critically assess issues that are discussed in the design literature,
* Facilitate the use of logic and argument in discussions about interdisciplinary design issues,
* Engage others in activities that explore interdisciplinary design concepts and theories,
* Identify unique aspects of disciplinary collaboration in interdisciplinary design activities,
* Produce well developed written and presentation material, and
* Prepare final work for publication in the form of a conference presentation & publication
<table>
<thead>
<tr>
<th>DATE</th>
<th>THEME</th>
<th>READINGS (read prior to class on date noted)</th>
<th>ACTIVITIES</th>
<th>DELIVERABLES</th>
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</thead>
<tbody>
<tr>
<td>1 Sept. 12</td>
<td>INTRODUCTION</td>
<td>General Intro&lt;br&gt;Discuss portfolio of readings &amp; reading sessions&lt;br&gt;PhD in Design List</td>
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<td>Intro #1: Portfolio Intro #2: Readings &amp; Facilitation Sessions</td>
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<td>2 Sept. 19</td>
<td>ACADEMIC WRITING</td>
<td>Torracco&lt;br&gt;Webster and Watson (2)&lt;br&gt;Intro #3: Paper</td>
<td>Literature Review&lt;br&gt;Publishing at scholarly journals&lt;br&gt;Structure/format of Academic Papers&lt;br&gt;Discuss paper assignment and potential topics&lt;br&gt;Library visit with Kristof Avramsson, MacOdrum Library</td>
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<td>3 Sept. 26</td>
<td>DESIGN AND INTERDISCIPLINARITY</td>
<td>Buchanan&lt;br&gt;Boradkar&lt;br&gt;Dykes et al. (3)</td>
<td>In-class discussions and activities</td>
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<td>4 Oct. 3</td>
<td>DESIGN AND SUSTAINABILITY</td>
<td>Doğan et al.&lt;br&gt;Walker (2)&lt;br&gt;Reading Session # 1&lt;br&gt;In-class discussion and activities&lt;br&gt;In-class writing exercise</td>
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<td>5 Oct. 10</td>
<td>SOCIAL RESPONSIBILITY</td>
<td>Hallgrimsson et al. Manzini (2)&lt;br&gt;Reading Session #2&lt;br&gt;In-class discussion and activities</td>
<td>Assignment 3: 1 PAGE PAPER ABSTRACT with PAPER OUTLINE DUE</td>
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<td>6 Oct. 17</td>
<td>INTERDISCIPLINARY: ACROSS FIELDS</td>
<td>Chung&lt;br&gt;Richardson (2)&lt;br&gt;Reading Session #3&lt;br&gt;In-class discussion and activities</td>
<td>Assignment 1: 1st portfolio due</td>
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<td>Oct. 24</td>
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<td>7 Oct. 31</td>
<td>INTERDISCIPLINARY: CROSS-CULTURAL</td>
<td>Taito-Matamua et al. Sarma (2) &lt;br&gt;Reading Session #4&lt;br&gt;In-class discussion and activities</td>
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Nov. 7
INTERDISCIPLINARY: TEAM PROCESS
Bussiери and Palmer
Kaygın and Aydınoğlu (2)
Reading Session #5
Team assessments & Self- assessments
Assignment 3: PAPER DRAFT DUE

9
Nov. 14
PARTICIPATORY AND GENERATIVE
Frankel and Hrinivich
Sanders and Stappers (2)
Reading Session #6
In-class discussion and activities
Assignment 1: 2nd portfolio due

10
Nov. 21
PRESENTATION PREPARATIONS
Craib and Frankel
Identifying main themes, conclusions and insights from the reading sessions
Visual communications, Paper presentation & examples

11
Nov. 28
FINAL PRESENTATIONS
Review of final presentations
Assignment 3:
PAPER PRESENTATION DUE

12
Dec. 5
FINAL PAPERS
Assignment 3:
FINAL PAPER DUE

Course Completion and Evaluation Information
The general topic of interdisciplinary design development will be explored primarily from the perspective of “Interdisciplinary Challenges”. Students will determine individual areas of interdisciplinary design that relates to their proposed thesis direction.

Course Completion Requirements:

I. Individual students are expected to prepare for weekly classes by reading the papers for each class. For classes with readings students must complete the assigned reading portfolio exercises and come to class prepared to critically discuss the readings.

II. Students will facilitate and/or participate in-class discussions on designated weeks through dialogue, exercises, debates, and examination of the highlights of the week’s themes.

III. Reading sessions will be led individually and collaboratively by the weekly presenters who will be responsible for organizing and leading the week’s 45-60 minute session. The session should be designed to engage class peers in:
   • Critically assessing issues that are discussed in the literature,
   • Using logic and argument to discuss interdisciplinary design issues in relation to the interdisciplinary design development theme of the week and the “Interdisciplinary Challenges” theme of the course,
   • Identifying unique aspects of disciplinary collaboration in interdisciplinary design activities.

IV. Students will have individual and group writing and discussion exercises in preparation for working on their individual paper assignments & thesis direction. These exercises will be presented/discussed/developed in-class and contribute to the weekly participation grade.
Course Evaluation Information

**Assignment 1**: Individual Critical Reading Review Portfolio (1st submission 40%; 2nd submission 60% of the value of this assignment)  

**Assignment 2**: Reading Session Leadership (Session Organization and Resource materials 5%; Overall Effectiveness of Exercise/Discussion 15%; Final Comparative & Thematic Summary –includes reflections from peers 10%)  

**Assignment 3**: Individual paper (initial abstract proposal 5%; draft paper 15%; paper presentation 10%; final paper & executive summary 15%)  

Weekly participation & professionalism (contributing to discussions & class activities; and punctually attending classes)  

Specific requirements regarding content and format (papers, presentations, and final documentation), and process activities and expected results (organization and conducting activities) will be discussed and/or announced at appropriate points in the semester. These will constitute the criteria for evaluation.
**CuLearn**
To access your courses on cuLearn go to [http://carleton.ca/culearn](http://carleton.ca/culearn). For help and support, go to [http://carleton.ca/culearn/students](http://carleton.ca/culearn/students). Any unresolved questions can be directed to Computing and Communication Services (CCS) by phone at 613-520-3700 or via email at ccs_service_desk@carleton.ca.

**Individual/Group Work**
Courses may include various combinations of individual and group work. **Students must demonstrate individual aptitude.** It is important where collaborative work is undertaken that students be able to clearly demonstrate that individual contribution has been made. Where the evaluation for individual work is below a passing grade, that grade will be awarded for the course.

**Review Attendance**
Attendance at scheduled SID reviews is mandatory. These are equivalent to exams in IDES courses when indicated in the course outline. Failure to attend will result in a grade of F. If you are not able to attend a review, you are required to call the General Office (613-520-5672) and/or send an email to id@carleton.ca to leave a message in advance. A comprehensive medical certificate or other documentation to substantiate the absence must be submitted as soon as possible after the review. The documentation must state the date of illness onset, the expected date of recovery, and the extent to which the student is incapacitated. The student is also required to set up a meeting with the instructor as soon as he or she is well enough to discuss and schedule an alternative date.

Any student in the review should submit materials for presentation and present as scheduled. In addition, a student who does not remain for the complete review session, who does not present as scheduled, or who arrives late for the review, without approval from the instructor, will receive a 10% grade reduction for that review.

**Late Submission of Deliverables**
Course Deliverables for reviews and other due dates
All deliverables submitted late will accrue a 10% per day deduction from the determined grade, to a maximum of 3 days, from the original deadline time and date. Failure to submit within 3 days, without approval from the instructor, will result in a grade of F.

**Participation and Professionalism**
Active participation and professional conduct are particularly important in studio courses and will be evaluated. At the same time, when the student’s work is reviewed at the end of the course, an evaluation will be made based on one or more of the following: in class discussion; consultations with instructors; and work ethic. However, none of these evaluations will be used to raise an overall failing grade, to a passing one, based on the quality of the work.

**Student Access to Final Reports**
This is for evaluation purposes only and will not be returned to the student.

**STUDENT CONSIDERATIONS AND RESPONSIBILITIES**

**Academic Accommodation** (Equity Services)
You may need special arrangements to meet your academic obligations during the term. For an accommodation request the processes are as follows:

**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: [http://carleton.ca/equity/wp-content/uploads/Student-Guide-to-Academic-Accommodation.pdf](http://carleton.ca/equity/wp-content/uploads/Student-Guide-to-Academic-Accommodation.pdf)
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: http://carleton.ca/equity/wp-content/uploads/Student-Guide-to-Academic-Accommodation.pdf

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). Requests made within two weeks will be reviewed on a case-by-case basis. After requesting accommodation from PMC, meet with me to ensure accommodation arrangements are made. Please consult the PMC website (www.carleton.ca/pmc) for the deadline to request accommodations for the formally-scheduled exam (if applicable).

Instructional Offenses / Plagiarism
The regulations of the university require that we bring to your attention regulations on Instructional Offenses, descriptions of which can be found in the current Academic Integrity Policy available on the Student Affairs website. The policy governs the academic behavior of students. At the same time it seems that students do not always understand the meaning of plagiarism and how to avoid it.

Student Responsibility
The student is responsible for knowing the content of this course outline, the schedule of classes, assignments, and examinations; and material covered during any absence from scheduled classes.

Changes to the Course Outline
The course outline may be subject to change in the event of extenuating circumstance.
Week 1 (Sept 12) INTRODUCTION

Week 2 (Sept. 19) ACADEMIC WRITING


Week 3 (Sept 26) DESIGN AND INTERDISCIPLINARITY


**READING SESSION LIST PER WEEK**

**Week 4 (Oct. 3) DESIGN AND SUSTAINABILITY**


**Week 5. (Oct. 10) SOCIAL RESPONSIBILITY**


**Week 6. (Oct. 17) ACROSS FIELDS**


*(OCT. 24 FALL BREAK)*
**Week 7. (Oct. 31) CROSS-CULTURAL**


**Week 8. (Nov. 07) TEAM PROCESS**


**Week 09. (Nov. 14) PARTICIPATORY AND GENERATIVE**


**Week 10-12. (Nov. 21-28, Dec. 5) CONCLUSIONS, INSIGHTS, AND FINAL PRESENTATIONS AND PAPERS**

**Other References:**


Grigoriev, Michael, Garvey, Thomas and Lois Frankel (2013). When Designers Don’t Know: Collective Intelligence in Participatory Design Development. In *Proceedings of International


Hanington, B. (2007). Generative research in design education. International Association of Societies of Design Research Conference, November 12-15, the Hong Kong Polytechnic University, Hong Kong, China.


The Design Research Society Newsletter (note you can also subscribe to this newsletter) at http://www.jiscmail.ac.uk/lists/design-research.html

The PhD in Design list (note you can subscribe to this list) at https://www.jiscmail.ac.uk/cgi-bin/webadmin?A0=phd-design