User Experience Design (IS 247-005)  Fall 2017

Instructor:      Yu Xu
Day and Time:   Mondays, 1:00 PM – 3:55 PM
Location:       Faculty Memorial Hall 205
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Office hours & Location: GITC 5601 by appointment

Prerequisites    Credit
None       Three

Required Textbooks

(Available on Moodle)

Interaction (Available on Moodle)

Course Description

This course covers the fundamental concepts of interaction design and focuses on
methods of doing scenario-based design.

It teaches students how they can apply these concepts by asking them to design
prototypes and evaluate their designs. Learning by doing and teams work are two main
components of this course.

Concepts and Methods to be Covered

Interaction Design, Scenario-based Design, Claims Analysis, Personas,
Problem/Activity/Key-path Scenarios, Wireframing (Axure)

Evaluation

Weekly attendance, participation, and presentation grades   ~40%
Final report: Team grade       ~40%
Final report: Individual grade       ~20%

**Attendance Policy**

If you miss 3 class sessions, you will automatically be deducted a letter grade. If you miss 5 class sessions, you will automatically fail the course.

**Required Software/Hardware**

Axure (http://www.axure.com/)

**Web Resources**

Moodle (http://moodle.njit.edu)

**Outcomes expected upon completion of course:**

Claims Analysis for design (using commercial applications, academic papers, and patents)

Persona construction

Problem scenario construction

Activity scenario construction

Key path scenario construction

Incorporation of iOS and/or Android design patterns

Wireframing and proficiency with wireframing tool Axure

Holistic understanding of interaction design through the development of an Interaction Design framework

**Getting Technical Help**

The IST Helpdesk is the central hub for all information related to computing technologies at NJIT. This includes being the first point of contact for those with computing questions or problems.
There are three ways to contact the Helpdesk:
1. Call 973-596-2900. Monday - Friday 8 am - 7 pm.
2. Go to Student Mall Room 48. Monday - Friday 8 am - 7 pm

**Course Outline** (Subject to Change)

**Week 1:** Introduction to UX Design

**Week 2:** Design thinking

*Readings:* Interaction Design Ch. 1 / About Face Ch. 1 / Wicked Problems

*Homework Due:* Individual - install Axure and set up AFS directory

**Week 3:** Stakeholders and personas (Round 1)

*Readings:* About Face Ch. 5

*Homework Due:* Group presentation - stakeholder list, target demographics, and 1 persona per group member

**Week 4:** Stakeholders and personas (Round 2)

*Readings:* How do professionals use personas? (CHI’12) / (Sentence highlighting not required:) Foundation of Great UX / Closer look at personas / Measuring UX-personas / Usability.gov-personas

*Homework Due:* Group presentation - stakeholder list and personas, Group work - interactive Axure prototype

**Week 5:** Problem scenarios and storyboards (Round 1)

*Readings:* About Face Ch. 6 / Help a knight. Scenario-based Design (Rosson & Carroll) / About Face Ch. 3 and 4

*Homework Due:* Group presentation - one Problem scenario and storyboard, Individual work - mockup of Fitbit pages

**Week 6:** Problem scenarios (Round 2) and Claims Analysis of Problem Scenarios

*Readings:* Interaction Design Ch. 10 / Up on the wall
**Homework Due:** Group presentation - Problem scenarios for all personas

**Week 7:** Audit of Technology Solutions and Claims Analysis (Round 1)

*Readings:* About Face Ch. 2 / Claims Analysis examples

**Homework Due:** Group presentation: claims analysis of three reputation systems

**Week 8:** No Class Spring Break

**Week 9:** Activity scenarios and storyboards (Round 1)

*Readings:* Interaction Design Ch. 9

**Homework Due:** Group presentation - one Activity scenario and storyboard

**Week 10:** Activity scenarios (Round 2)

*Readings:* About Face Ch. 7

**Homework Due:** Group presentation - Activity scenarios for all personas

**Week 11:** Activity Scenario (Round 3) and Audit of Technology Solutions and Claims Analysis (Round 2)

Homework Due: Group presentation - Activity scenarios for all personas, Revised Audit, and Claims Analysis for Activity Scenarios, Individual work - interactive mockup of Fitbit pages

**Week 12:** Key-path Scenario (Round 1)

*Readings:* Interaction Design Ch. 11

**Homework Due:** Group presentation - key path scenario in Axure

**Week 13:** Key-path Scenario (Round 2)

*Readings:* About Face Ch. 8

**Homework Due:** Group presentation - key path scenario in Axure

**Week 14:** Key-path Scenario (Round 3)

*Readings:* About Face Ch. 12 and 13

**Homework Due:** Group presentation - key path scenario showing adherence to design patterns
**Week 15: Final Report Preparation**

*Homework Due:* Group presentation - key path scenario showing adherence to design patterns

**Plagiarism and Academic Integrity**

The approved “University Code on Academic Integrity” is currently in effect for all courses. Should a student fail a course due to a violation of academic integrity, they will be assigned the grade of “XF” rather than the “F” and this designation will remain permanently on their transcript.

All students are encouraged to look over the University Code on Academic Integrity and understand this document. Students are expected to uphold the integrity of this institution by reporting any violation of academic integrity to the Office of the Dean of Students. The identity of the student filing the report will be kept anonymous.

NJIT will continue to educate top tier students that are academically sound and are self-disciplined to uphold expected standards of professional integrity. **Academic dishonesty will not be tolerated at this institution.**