

User Experience Design (IS 247-004)

Spring 2019

Required Textbook

A. Cooper. About Face 3: The Essentials of Interaction Design. ISBN: 0470084111
(Available on Moodle) (transitioning to About Face 4)

References

J. Preece, Y. Roger, & H. Sharp (2011). Interaction Design: Beyond Human-Computer Interaction (Available on Moodle)

Donald Norman, (2013), The Design of Everyday Things

Alberto Cairo , (2012) The Functional Art: An Introduction to Information Graphics and Visualization

Course Description

This course covers the fundamental concepts involving interaction design, information design, and focuses on data-driven design problems.

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

Concepts and Methods Covered

Understanding User Requirements, Basics of Design Research, Interaction Design, Information Design, Scenario-based Design, Personas, Problem/Activity/Key-path Scenarios, Wireframing/Prototyping

Evaluation

Weekly attendance and Class participation	~20%
Two in-class quizzes	~20%
Homework (reading and writing assignments)	~25%
Course Project	~35%

Attendance Policy

If you miss more than 3 classes, you run the risk of getting a letter grade deducted. My expectation is that you will let me know in advance about the reason for your absence.

Web Resources

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

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
 3. Log a Help Desk Service Request online - <https://ist.njit.edu/support/contactus.php>.
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Course Outline (Subject to Change)

UX Design in the information age:

- Who are the users?
- What exactly is “user experience”?
- Design: why, what, and how?
- Importance of design thinking
- Importance of user interaction
- Importance of visual displays
- Can AI and UX design co-exist?

Information Design

- Visual Interface Design Principles
- Visual Information Design Principles

Interaction Design

- Interface Paradigms
- Types of Interaction
- Affordance
- Flow and Transparency
- Human-Machine Trust

Scenario-based Design

- Problem Scenario
- Activity Scenario
- Key-Path Scenario

Design Prototyping

- Storyboards
- Wireframing
- Data-driven Storytelling

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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.**