

CSIS 3731 - Human-Computer Interaction

Fall 2026 Syllabus, Section 01, CRN 41518,

Credit hours: 3

Instructor

Zack While

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Public Instructor Information

Instructor Title: Assistant Professor

Instructor Professional Qualifications:

- PhD, Computer Science, *University of Massachusetts Amherst* (2025)
- MS, Computer Science, *University of Massachusetts Amherst* (2022)
- BS, Computer Science & Mathematics, *Youngstown State University* (2018)

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Course Description

3731. Human-Computer Interaction. Concepts of human-computer interaction, including human factors, performance analysis, cognitive processing, usability studies, environment, training, user and task analysis, ergonomics, and accessibility standards. Prereq.: CSIS 2605 or CSIS 2610 or INFO 2663. 3 s.h.

Course Readings

Group	Title	Author	ISBN
Required	Interaction Design: Beyond Human-Computer Interaction (6e)	Rogers, Sharp, & Preece	9781119901099

Available for free online via Maag Library and O'Reilly.

The course readings are subject to change in the event of extenuating circumstances, research developments, current events, and/or to ensure better learning.

Tentative Course Schedule

Week of	Reading(s)	Proposed Topic	Due/To Prepare for Class
8/24	Chapter 1 Chapter 2	What is Interaction Design? The Process of Interaction Design	
8/31	Chapter 3	Conceptualizing Interaction	Quiz 1 Homework 0
9/7	Chapter 4	Cognitive Aspects	Quiz 2 Homework 1
9/14	Chapter 5 Chapter 6	Social Interaction Emotional Interaction	Quiz 3
9/21	Chapter 7	Interfaces	Quiz 4 Homework 2

9/28		Exam 1 Review	Quiz 5 Exam 1
10/5	Chapter 8	Data Gathering	
10/12	Chapter 9 Chapter 10	Data Analysis, Interpretation, and Presentation Data at Scale and Ethical Concerns	Quiz 6
10/19	Chapter 11	Discovering Requirements	Quiz 7
10/26	Chapter 12	Design, Prototyping and Construction	Quiz 8 Homework 4
11/2		Exam 2 Review	Quiz 9
11/9	Chapter 13	Interaction Design in Practice	Homework 5
11/16	Chapter 14	Introducing Evaluation	Quiz 10
11/23	Chapter 15	Evaluation Studies	Quiz 11
11/30	Chapter 16	Evaluation Studies: Inspections, Analytics, and Models	Quiz 12 Homework 6
12/7			Quiz 13 Exam 3

The course schedule, policies, procedures, and assignments in this course are subject to change in the event of extenuating circumstances, by mutual agreement, and/or to ensure better learning.