WORKSHEET: MINOR IN HUMAN-CENTERED DESIGN: Dartmouth College, Engineering Sciences

LAST NAME _____ FIRST NAME _____

MAJOR/OTHER MINOR _____ CLASS _____

ORC: The minor in human-centered design in Engineering Sciences is an interdisciplinary program comprising a total of six courses: one from Section 1, two from Section 2, three from Section 3.

BELOW CHECK COURSES SELECTED WITH TERM TAKEN OR PLANNED

SECTION 1: Design Foundation (1 course):

Course	Title	TERM TAKEN OR PLANNED
ENGS 12	Design Thinking	

SECTION 2: Ethnographic Methods and Psychology* (select 2 courses):

Course	Title	
ENGS 15.07	Research Methods for Human-Centered Design	
ANTH 3	Introduction to Cultural Anthropology	
ANTH 18	Introduction to Research Methods in Cultural Anthropology	
GEOG 11	Qualitative Methods and the Research Process	
SOCY 11	Research Methods	
PSYC 22:	Learning	
PSYC 23	Social Psychology	
PSYC 28	Cognition	
PSYC 38	Cognitive Neuroscience	
PSYC 43	Emotion	
PSYC 50.02	Decision Making	
PSYC 51.11	Thinking	
PSYC 53.10	Social and Affective Motivations in Decision-Making	
PSYC 53.12	The Behavior of Groups	
PSYC 53.13	Social Neuroscience	

SECTION 3: Design Electives (select 3 courses):

Course	Title	
ENGS 15.01	Senior Design Challenge	
ENGS 15.02	Senior Design Challenge	
ENGS 15.09	Design Ethics	
ENGS 15.11	Design & Education	
ENGS 15.12	Design & Entrepreneurship	
ENGS 18	Systems Dynamics in Public Policy and Analysis	
ENGS 19.01	Future of Energy Systems	
ENGS 21	Introduction to Engineering	
ENGS 44	Sustainable Design	
COSC 23.01	Augmented and Virtual Reality Design	
COSC 25.01	UI/UX	
COSC 25.02	UI/UX	
COSC 27	Projects in Digital Arts	
COSC 28	Advanced Projects in Digital Arts	
COSC 29.06	Digital Tangible User Interface	
COSC 63.01	Augmented and Virtual Reality Development	
COSC 67	Introduction to Human-Computer Interaction	
COSC 89.34	Human-Centered Generative AI	
FILM 51	Game Design Studio	
PBPL 43	Social Entrepreneurship	
SART 65	Architecture I	
SART 66	Architecture II	

Notes: It is recommended to take ENGS 12 first. When possible, it is recommended to complete the course in Section 1 plus at least one course from Section 2 before taking courses in Section 3. No courses in the HCD minor may be taken under the Non-Recording Option. No course may be used for both a major and a minor (although a course may be part of one of these and prerequisite to the other, or prerequisite to both).

*One of the two courses in Section 2 must be outside of the student's major.

Students majoring in Cognitive Science, Cultural Anthropology, Neuroscience, Psychology, and Sociology may substitute an additional Section 3 course in place of their second Section 2 course.

Engineering majors: Only ENGS courses numbered below 20 may be counted toward the minor.

Requirements for Any Major Modified with Human-Centered Design

Any major may be modified with the minor in Human-Centered Design. The HCD minor portion of the modification requires a total of six (6) courses, one from Section 1, two from Section 2, three from Section 3.

Notes: Students wishing to modify their major with HCD should discuss their plans with their major advisor as well as the Faculty Advisor for the minor, Peter Robbie. Formal proposals for modification require approval of both the major department as well as Engineering Sciences Department Chair, Vicki May.

Due to the potential overlap between the HCD courses and existing majors, there is potential for creating a program of study that does not add significant value beyond a straight major. Students pursuing the modification should note that 1) there should be a strong intellectual rationale, 2) the proposed plan should be adding something new and significant that is not possible with the straight major, and 3) there should not be significant overlap in courses between the modifier and the primary field of the major.

Students majoring in Cognitive Science, Cultural Anthropology, Neuroscience, Psychology, and Sociology may substitute an additional Section 3 course in place of their second Section 2 course.

Your personal goals for pursuing the minor and rationale for courses selected:

Comments: