HUMAN CENTERED DESIGN

College of Human Ecology

Graduate Study in Design + Environmental Analysis

Master of Science in HUMAN ENVIRONMENT RELATIONS

Two-Year Graduate Program

CONCENTRATION: Emerging Technology for Design

The MS in Emerging Technology for Design (ETD) introduces students to innovative emerging technologies as tools for creativity and research. Some examples of faculty research topics in ETD include: design computing and cognition, architectural robotics, design process and design visualization using Virtual Reality (VR) and Augmented Reality (AR), advanced visualization technologies for environment-behavior simulation, generative and parametric design and fabrication, Building Information Modeling (BIM) and simulation, and human-computer interaction as related to emerging technology for design.

CAREERS

Students who complete the ETD concentration within the MS in HER will be well positioned for careers in industry, research institutes, and academic settings employing virtual reality, augmented reality and other technologies for UX research and design.

M.S. REQUIREMENTS/SUGGESTED COURSEWORK

A. Required Core DEA Field Courses:

DEA 6100	Studies in Design Thinking	3 credits
DEA 6200	Studies in Human-Environment Relations	3 credits
DEA 7100	DEA Graduate Pro Seminar (1 credit / semester x 4 semesters)	4 credits

B. Required Foundational Courses for Concentration:

DEA 5210	Interaction Design Studio	4 credits
DEA 5520	Virtual Experience of Designed Environments	3 credits

C. Research Methods:

DEA 6560	Research Methods in Social Sciences	4 credits

D. Statistics: ONE (1) 3-4 credit (5000-level or higher) course

Various	Statistics [i]	3-4 credits

E. DEA Breadth: Choose THREE (3) of the following courses

DEA 6040	Future Body Craft	3 credits
DEA 6210	Architectural Robotics	3 credits
DEA 6500	Problem-Seeking through Programming	3 credits
DEA 6510	Human Factors and Inclusive Design	3 credits
DEA 6520	The Ambient Environment	3 credits
DEA 6610	Environments and Health	3 credits
DEA 6650	Poverty, Children and the Environment	3 credits
DEA 6700	Applied Ergonomic Methods	3 credits

F. Thesis Courses:

DEA 8990	Master's Thesis [ii]	8-12 credits

G. Minor Courses:

Various	Courses for minor varies: typically 2 or 3, 3-or 4-credit courses	6-12 credits

Summary of Curriculum	Number of Courses	Course Credits
A. Required DEA Field Courses	3[iii]	10
B. Required Foundational Courses for Concentration	2	7
C. Research Methods	1	4
D. Statistics	1	3-4
E. DEA Breadth	3	9
F. Thesis Courses [ii]	1-2	8-12
G. Minor Field Courses	3	6-12
	Total Courses: 14-15	**Total Course Credits: 47-58**

[i] e.g: BTRY 6010, BTRY 7180, ILRST 5100, ILRST 6100, PSYCH 6750, HD 6750.

[ii] Thesis credits determined at the discretion of thesis committee; the number of courses and credits listed merely indicate typical range.

[iii] Includes DEA 7100 as 1 course (but is required to be taken 4 times (1 credit each))

NOTE: A minimum grade of B- will be required for courses taken within the major. If a grade lower than a B- is received on a course taken within the major, the student will be required to retake the course.

Course offerings may change year to year. Consult the Courses of Study for current offerings.