

Masters of Science in HUMAN ENVIRONMENT RELATIONS

Two-Year Graduate Program

CONCENTRATION: Human Factors and Ergonomics

This concentration focuses on the application of Human Factors and Ergonomics to improve the ergonomic design and usability of hardware, software, and workplaces to enhance people's comfort, performance, and health. The program builds on the work of the Human Factors and Ergonomics Laboratory. Recent projects have focused on the effects of physical design on users' behavior, performance, and attitudes, including studies on the effects of workstation adjustability on user satisfaction; the ergonomic design of seating; new computer technologies and the impact of indoor environmental factors, such as indoor air quality, lighting and noise on the health and productivity of computer workers. Instruction includes team project work with real clients.

CAREERS

Excellent career opportunities in human factors and ergonomics are available in the private sector, in government, and in educational institutions.

M.S. REQUIREMENTS

Required DEA field course audits:		
DEA 1110	Making a Difference: By Design	3 credits
DEA 1500	Intro to Human Environment Relations	3 credits

Required courses:		
DEA 6510	Human Factors: Ergonomics, Anthropometrics And Biomechanics	4 credits
DEA 6520	Human Factors: The Ambient Environment	4 credits
DEA 6530	Planning and Managing the Workplace	4 credits
DEA 6600	The Environment and Social Behavior	4 credits
DEA 6700	Environmental Analysis I: Applied Ergonomics Methods	4 credits

And at least ONE of the following courses:		
DEA 6000	Directed Readings in Human Factors	4 credits
DEA 6010	Empirical Research in Human Factors	4 credits
DEA 6020	Supervised Fieldwork in Human Factors	4 credits
DEA 6560	Research Methods in Human Environ Relations	4 credits

At least ONE of the following COMBINATIONS of courses in statistics:		
ILRST 5100	Statistical Methods for the Social Sciences I	4 credits
ILRST 5110	Statistical Methods for the Social Sciences II	4 credits
OR		
BTRY 6010	Statistical Methods I	4 credits
BTRY 6020	Statistical Methods II	4 credits
OR		
PSYCH 3500	Statistics and Research Design	4 credits
PSYCH 4720	Multiple Regression	2 credits
PSYCH 4730	General Linear Model	2 credits

Required course (8-12 credits):		
DEA 8990	Master Thesis	8-12 credits

Summary of Curriculum	Number of Courses	Total Credits
Required DEA field course audits	2	[6] audit
Research Methods & Thesis	2-3	8-12
Required M.S. courses	9-10	34-36
Courses in minor	1-3	3-12
		Total: 51-66

NOTE: Effective as of Fall 2007, a minimum grade of B- is required for courses taken within the major.