



DEA Option III Human Factors and Ergonomics

CLASS of
2013
[entered 2009]

FALL 2009		SPRING 2010	
DEA 1101 Interior Design Studio I	3	DEA 1500 Intro. to Human-Environment Relations	3
DEA 1110 Making a Difference: By Design	3	HE Elective	3
Natural Science (Lab Science)	3-4	Natural Science	3-4
HD 1150 ¹ or Psych 1101	3	Statistics ¹ (PAM 2100, AEM 2100, or ILRST 2100)	3
Freshman Seminar	3	Freshman Seminar	3
PE	1	PE	1
	16-17		16-17
FALL 2010		SPRING 2011	
DEA 2150 Digital Graphics (7 weeks)	1	DEA 2030 Digital Communications	2
DEA 3250 Human Factors: Ergonomics-Anthropometrics	3	DEA 2040 Intro. to Building Technology	2
DEA 4550 Research Methods in HER	3	HE Elective	3
ECON 1110 or 1120	3	COMM 2010 Oral Communication	3
Humanities	3	Additional ² (PSYCH 2800 Intro. to Soc. Psych.)	3-4
		Elective (HADM 2255 Hosp. Dev. & Planning)	3
	13		16-17
FALL 2011		SPRING 2012	
DEA 2500 The Environment & Social Behavior	3	DEA 3500 Human Factors: The Ambient Environment	3
DEA 3030 Interior Materials & Sustainable Elements	3	NTRES 2010 OR BEE 3299 OR DEA 4220	3
DEA 4590 Programming Methods in Design	3	HE Elective	3
ILROB 1220 Intro. to Organizational Behavior	3	Elective (AEM 1200 Intro. to Business Mgmt.)	3
Elective	4	Elective (DEA 2410 Computer-Aided Design)	1
		Elective	3
		(Best semester for Study Abroad or Urban Semester)	
	16		16
FALL 2012		SPRING 2013	
DEA 2510 History & Theory of the Interior	3	DEA 4100 Facility Planning & Design in a Diverse Society	3
DEA 4530 Planning & Managing the Workplace	3	DEA 4700 Applied Ergonomic Methods	3
Elective (DEA 6480 Virtual Design, Analysis & Rep.)	3	DEA 4720 Environments for Elders: Housing & Design for an Aging Population	3
Elective	3	Elective (DEA 4150 Strategic Facility Planning for Social Institutions)	3
Elective	3	Elective (DEA 4300 Furniture as a Social Art)	3
	15		15
		TOTAL CREDITS	123-126

The recommended courses shown in (parentheses) and additional recommended electives listed below are for students to strengthen their professional education.

ADDITIONAL RECOMMENDED ELECTIVES: Check current Courses of Study for availability of these classes.

ARCH 2602 Building Technology, Materials, and Methods
 ARCH 3601 Environmental Systems II—Thermal Env Systems
 COMM 3010 Speech Communication in Context
 DEA 2550 Seminar, Facility Planning & Management
 DEA 6480 Virtual Design, Analysis & Representation

HD 2200 Human Brain & Mind: Biological Issues in Human Dev.
 ILROB 1750 Behavior, Values, and Performance
 ILROB 4720 Applied Organizational Behavior
 ILRST 3100 Statistical Sampling

MAE 4660 Biomedical Engineering Analysis of Metabolic & Structural Systems
 PSYCH 1102 Intro. to Cognitive Science
 PSYCH 2050 Perception
 PSYCH 2140 Cognitive Psychology

¹See Human Ecology Graduation Requirements, Section IIB: If Human Ecology courses are used for Statistics and Psychology requirements in Section 1 & 2, they can be used to fulfill Human Ecology outside of department requirements.

²See Human Ecology Graduation Requirements Section I-F

This recommended schedule is for planning purposes. The official record of the requirements for the major is the Major Curriculum Sheet available in the College of Human Ecology Registrar's Office or online at: http://www.human.cornell.edu/che/Academics/Undergraduate/Student_Services/Registrar/Degree_Progress/Curriculum-Sheets.cfm

Option III Human Factors and Ergonomics Suggested Schedule

The Department of Design & Environmental Analysis

The built environment in which we live much of our lives has a substantial and far-reaching effect on our quality of life and on spatial experience, health, safety, well-being and performance of individuals, groups, and organizations. Through their teaching, research, and outreach activities DEA's faculty, leaders in their fields, work to improve the planning, design, and management of offices, retail stores, restaurants, hotels, schools, day care settings, hospitals, and other settings. DEA's multi-disciplinary approach to problem-solving, grounded in the fields of interior and industrial design, design history, architecture and planning, environmental psychology, and human factors/ergonomics places it at the cutting-edge of colleges and universities both nationally and internationally. Being part of a world-class university provides students and faculty alike access to quality library and computing resources, as well as the opportunity to interact with the diverse and talented group of people who comprise the Cornell community.

DEA 4+1 Masters Degree Program

Outstanding students who complete their four year undergraduate degree in DEA are eligible to complete a Master of Science/M.S. (Human Environment Relations) degree in one additional year of graduate study.

Through careful planning many of the courses required in the M.S. program can be taken during the undergraduate years, creating an opportunity to focus the fifth year of study on completing course and thesis requirements. As early as the freshman year, students can plan their curriculum toward completing a fifth year masters. Typically, this means students will take 4 to 5 courses in their fall term as a graduate student, and 2 to 3 courses plus their thesis research in the spring term. Students should expect to complete their thesis by the end of the summer term of their fifth year.

Admission to the 4+1 Masters program is not automatic. Students must meet with their advisers early in their undergraduate programs to plan carefully for this possibility. In the fall of the senior year, interested students must submit an online application to the Graduate School. The GRE exam is not required for admission. In addition to the online application, 4+1 applicants must complete a DEA 4+1 Study Proposal (see 4+1 Application Information sheet for details). Students who have compiled a strong undergraduate record in the department are usually good candidates for admission into the graduate program in Design and Environmental Analysis. Students interested in this program should meet with their DEA adviser as early as possible to discuss and plan for application to this program.

Human Factors and Ergonomics

Cornell University's Department of Design & Environmental Analysis offers a Human Factors and Ergonomics program that focuses on ways to improve comfort, performance, and health through the ergonomic design of products and environments.

Integrating course and field work, often with local firms and organizations, students explore the ways in which the results of systematic analysis and research can be combined with imagination to guide the creation of more effective and healthy

offices, hospitals, schools, and residential communities. Employment opportunities in this field are excellent.

Recent research focuses on the role of the design of work tools and various settings to improve human well-being and performance. Human environment processes of interest also include stress, psychological distress, learning and motivation, interpersonal relationships, mastery and control, emotional affect, including preference and satisfaction, and human development over the lifespan.

Employment opportunities for good undergraduates in Human Factors and Ergonomics are excellent. Human Factors/Ergonomics graduates have worked for companies such as Microsoft, Motorola, Palm, Yahoo, IBM, IDEO, and Humanscale.

Faculty Advisors for Option III (HFE)

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Academic Advising

The Director of Undergraduate Studies assigns all DEA majors a faculty advisor. Consultation with your faculty advisor or any DEA faculty member about future goals, department requirements, sequences of courses, and electives inside or outside the college will help you to develop your program.

For further information, contact:

Director of Undergraduate Studies

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