

**CLASS of 2012 [entered 2008]  
Suggested Schedule for Sub-Plan III  
HUMAN FACTORS / ERGONOMICS**

<b>FALL 2008</b>		<b>SPRING 2009</b>	
<b>DEA 1010</b> Interior Design Studio I	3	<b>DEA 1500</b> Intro. to Human Environment Relations	3
<b>DEA 1110</b> Making a Difference: By Design	3	<b>HE Elective</b>	3
<b>Natural Science</b> (Lab Science)	3 – 4	<b>Natural Science Statistics**</b> (PAM 2100, AEM 2100, ILRST 2100, or ILRST 2120)	3 – 4
<b>HD 1150** or Psych 1101</b>	3	<b>Freshman Seminar</b>	3
<b>Freshman Seminar</b>	3	<b>PE</b>	1
<b>PE</b>	1		
	16 – 17		16 – 17
<b>FALL 2009</b>		<b>SPRING 2010</b>	
<b>DEA 2150</b> Digital Imaging (7 weeks)	1	<b>DEA 2030</b> Digital Communications	2
<b>DEA 3250</b> Human Factors Ergonomics/Anthropometrics	3	<b>DEA 2040</b> Intro to Building Technology	2
<b>DEA 4550</b> Research Methods in HER	3	<b>HE Elective</b>	3
<b>ECON 1110 or 1120</b>	3	<b>COMM 2010</b> Oral Communication	3
<b>Humanities</b>	3	<b>Additional*</b> (Psych. 2800 – Intro to Soc. Psych rec.)	3 – 4
		Elective (H ADM 2255 Hosp. Devel. & Planning rec.)	3
	13		16 – 17
<b>FALL 2010</b>		<b>SPRING 2011</b>	
<b>DEA 2500</b> Environment & Social Behavior	3	<b>DEA 3500</b> Human Factors-Ambient Environment	3
<b>DEA 3030</b> Interior Materials & Sustainable Elements	3	<b>NTRES 2010 or BEE 3299 or DEA 4220</b>	3
<b>DEA 4590</b> Programming Methods in Design	3	<b>HE Elective</b>	3
<b>ILROB 1220</b> Intro. to Organizational Behavior	3	Elective (AEM 2200 BSNS Mgmt. rec.)	3
Elective (HE 3010 Collaborative Leadership rec.)	4	Elective (DEA 2410 CAD rec.)	1
		Elective	3
		(Best semester for Study Abroad or Urban Semester)	
	16		16
<b>FALL 2011</b>		<b>SPRING 2012</b>	
<b>DEA 2510</b> History & Theory of the Interior	3	<b>DEA 4100</b> Facility Plan. & Design in Diverse Society	3
<b>DEA 4530</b> Planning and Managing the Workplace	3	<b>DEA 4700</b> Applied Ergonomic Methods	3
Elective (DEA 6480 Virtual Design, Analysis, Rep rec.)	3	<b>DEA 4720</b> Environments for Elders	3
Elective	3	Elective (DEA 4150 Strategic Facility Planning for Social Institutions)	3
Elective	3	Elective (DEA 4300 Furniture as a Social Art rec.)	3
	15		15
		<b>TOTAL CREDITS:</b>	123 – 126

**NOTES:**

\*See Human Ecology Graduation Requirements Section I-F

\*\*See Hum 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.

**All requirements are shown in boldface type. Courses shown in (parentheses) are recommended for students wishing to strengthen their professional education beyond the option requirements. Electives can be taken anywhere in the University.**

**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  
COM 3010 Business & Professional Presentation  
DEA 4510 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  
M&AE 4660 Biomedical Engineering Analysis of Metabolic and Structural Systems  
PSYCH 1200 Introduction, Cognitive Science

PSYCH 2050 Perception  
PSYCH 2140 Cognitive Psychology

## 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, Humanscale; Facility Planning and Management students have worked with companies such as IBM, Toyota Motor Sales, Proctor and Gamble, Goldman Sachs, Gensler, HLW, and Nelson Associates.

The department also has the advantage of a 4+1 program which allows undergraduates to get a Master's degree in an additional year—a real plus as this is the professional level degree that is most sought after. The Human Factors and Ergonomics program usually has four to five graduate students in the Master's program each year. All three options prepare students for careers in professional practice and/or further graduate study.

#### Faculty

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#### Academic Advising

The Director of Undergraduate Studies assigns all DEA majors a faculty advisor. Consultation with faculty advisors about future goals, department requirements, sequences of courses, and electives inside or outside their college helps students develop their programs.

For further information, contact:

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or

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