Design and Environmental Analysis  
Option III: Human Factors & Ergonomics

The requirements listed below pertain to all students matriculating in August 2013 and January 2014.

I. Distribution Requirements

A. Natural Sciences  6-8
A.1. Natural Science lecture (lab not required)
   a. Score of 5 on AP Biology, AP Chemistry or AP Physics OR
   b. Must choose from the following list (must be taken at Cornell):
      BIOG 1140*   CHEM 1560 or CHEM 2070
      BIOMG 1350*  CHEM 2080
      BIOG 1440*/BIOG 1445*   PHYS 1101 or PHYS 2207
      BIOEE 1610*   PHYS 1102 or PHYS 2208
   *one semester of BIOG 1500 Investigative Lab can also be taken but is not required
A.2. Natural Science (lab not required, must be taken at Cornell, no AP credit)
   a. Choose a course from the above list in A.1. OR
   b. Choose from the Human Ecology Natural Science Approved Course list:
      http://www.human.cornell.edu/registrar/requirements-and-policies.cfm

B. Social Sciences  6
I.B.1. Choose one of the following courses:
   HD 1150 Human Development: Infancy and Childhood OR
   HD 1170 Human Development: Adolescence and Emerging Adulthood OR
   PSYCH 1101 Introduction to Psychology

I.B.2. Choose one of the following courses:
   ECON 1110 Introduction to Microeconomics
   ECON 1120 Introduction to Macroeconomics

C. Humanities  3
   Language credit may not be used in this area. (See: I.F.2.)

   Includes literature, history (including art and design history), philosophy, religion, and archaeology. Critical, historical, and theoretical studies of the arts and design are considered humanities. Languages and creative or performing arts such as the writing of fiction or poetry, painting, sculpting, designing, composing or performing music, acting, directing, and dance are not considered humanities.

D. Written Communications  6
   Must be First-Year Writing Seminars.
   MUST BE COMPLETED DURING FIRST 2 SEMESTERS

E. Quantitative and Analytical  4
   Statistics (must be taken at Cornell, AP Statistics is not accepted)
      PAM 2100 Introduction to Statistics OR
      AEM 2100 Introductory Statistics OR
      ILRST/STSCI 2100 Introductory Statistics OR
      PSYCH 3500 Statistics and Research Design

F. Additional credits  12
I.F.1. Take each of the following courses (6):
   DEA 1500 Introduction to Human-Environment Relations (3)
   ILROB 1220 Introduction to Organizational Behavior (3)
I.F.2. Choose one of the following courses (3):
   BEE 3299 Sustainable Development
   DEA 4220 Ecological Literacy and Sustainable Design
   NTRES 2010 Environmental Conservation
I.F.3. Courses from any natural science, social science, humanities, language, or mathematics courses can be counted here for remaining 3 credits.

II. Requirements in the Major  47
A. Must take the following:
   DEA 1101 Interior Design Studio I
   DEA 1110 Making a Difference: By Design
   DEA 2030 Digital Communications
   DEA 2040 Introduction to Building Technology
   DEA 2150 Digital Graphics
   DEA 2500 Environment and Social Behavior
   DEA 3030 Interior Materials and Sustainable Elements
   DEA 3250 Human Factors: Ergonomics-Anthropometrics
   DEA 3500 Human Factors: The Ambient Environment
   DEA 3520 Inside-Out Ergonomics I: Anatomy for Design
   DEA 4100 Facility Planning & Design in a Diverse Society
   DEA 4520 Inside-Out Ergonomics II: Biomechanics and the Built Environment
   DEA 4530 Planning and Managing the Workplace
   DEA 4550 Research Methods in HER
   DEA 4590 Programming Methods in Design
   DEA 4700 Applied Ergonomic Methods
III. Electives

**Recommended Courses:**
- AEM 1200
- ARCH 2602, 3601
- BIONB 4210
- DEA 2410, 2550, 4300, 6250, 6610, 6760
- HD 2200
- HADM 2550, 4033
- MAE 4660
- PAM 5500, 5760
- PSYCH 1102, 2050, 2140, 2800, 3050, 4310

**Category IV: Physical Education** 2

Physical Education must be completed in order to graduate. However, physical education does not count toward college and university minimum credit requirements for full-time status, nor does it count towards the 120 credits required for graduation.

**Total Credits (exclusive of PE) 120**

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**College Requirements:**

- **Students must complete a minimum of 9 HUMEC credits outside of DEA.** These credits are given for any Human Ecology course outside your major from Category I, II, or III. These can be taken S/U only if course is NOT used to fulfill a curriculum requirement.

- **Students must complete a minimum of 43 HUMEC credits.** Hum Ec credits are given in Category I (distribution), Category II (in your major) and Category III (electives).

- **Biology & Society (BSOC) courses do not count** as Human Ecology credit or towards the 9 HE credits outside the major.

- **Pass/Fail Courses [S/U]**
  - S/U grading option may NOT be used for any required course [i.e., distribution requirements in Category I or major courses in Category II] unless it is the only grade option offered for those courses.
  - S/Us MAY be used for the 9 credits of Human Ecology coursework outside of the major and for electives in Category III.
  - Students may apply no more than 12 credits of S/U towards graduation requirements. If a required course is only offered S/U, it will not count towards this limit. Students may take more S/Us if they choose, but the additional credit will not be applied towards graduation.
  - The **deadline for changing grade options is 7 weeks** after the start of classes, the same as the “drop” deadline.

- **Special Study Courses [4000, 4010, 4020, 4030]**
  - A total of 12 credits of special study coursework from Human Ecology or other colleges will count towards the 120 graduation credit requirement. [Additional credits can be taken but will not be applied.]
  - A maximum of three credits of 4000-4020 (not including 4030) may count towards the “credit outside the major” category as long as the special study is in a department outside the student’s major.
  - Students cannot TA (4030) the same course for credit more than once or take and TA the same course simultaneously. 4030 does not fulfill any requirements towards the major. Registration for 4030 may not exceed 5 credit hours per semester.

- **Students must complete 120 credits overall, exclusive of physical education and “00” courses.**

- Elective credits can be earned in Human Ecology or elsewhere.