Human Development 2009-2010

The requirements listed below pertain to all students matriculating in August 2009 and January 2010.

Credits

I. Distribution Requirements

A. Natural Sciences:  

You must take two from the following and all sciences MUST have a LAB component. **HD requires that one be a biology course** but recommends that students take two biology courses.

<table>
<thead>
<tr>
<th>Course Options</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BIO G 1101-1103* or BIO G 1105 or BIO G 1110</td>
<td>CHEM 1560 or CHEM 2070</td>
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<tr>
<td>BIO G 1102-1110* or BIO G 1106 or BIO G 1109</td>
<td>CHEM 2080</td>
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<tr>
<td>PHYS 1101 or PHYS 2207 or PHYS 1112</td>
<td>CHEM 2150</td>
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<tr>
<td>PHYS 1102 or PHYS 2208 or PHYS 2213</td>
<td>CHEM 2160</td>
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*The combinations BIO G 1101-1103 and BIO G 1102-1104 each count as a single course.

B. Social Sciences  

Any two courses chosen from the following departments: Psychology, Sociology, Development Sociology, Anthropology, Economics or Government.

**Note:** 1) Courses cross-listed with Human Development cannot be used to fulfill this requirement. 2.) You cannot receive credit for both DSOC 1101 and SOC 1101.

C. Humanities**  

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.

**HD strongly recommends that students who plan to complete the HD Honors Program requirements** (see III.B. below) take a course in health and medical ethics (e.g. BSOC/STS 2051) to fulfill this requirement.

D. Written Communications  

Must be First-Year Writing Seminars

MUST BE COMPLETED DURING FIRST 2 SEMESTERS

E. Quantitative and Analytical

Statistics** (must be taken at Cornell, AP Statistics is not accepted)  

Choose one of the following: AEM 2100, BTRY 3010, ILRST 2100, MATH 1710, PAM 2100, PSYCH 3500 (PAM 2100 can fulfill the statistics requirement and count toward the 9 credits required outside the major and will count toward the 43 total credits required in Human Ecology.)

**HD strongly recommends that students who plan to complete the HD Honors Program requirements** (see III.B. below) take either PSYCH 3500 or PAM 2100 to fulfill this requirement. The HD Honors Program also requires a second semester of more advanced statistics.

F. Additional requirements  

Any natural science, social science, humanities, language, or mathematics course can be counted here.

II. Requirements in the Major

A. Structural Principles  

1. Must complete 30 credits of Human Development didactic courses, letter grade only (HD 4000, 4010, 4020, 4030, 4400, 4980, and 4990 are not didactic courses and do not fulfill any requirements for the major). Only one course designated as LAB may count towards the 30 required credits in Human Development.

2. HD 1150 and HD 1170 are required.

3. Students must take a total of two 2000-level courses in Human Development. The courses must come from two different areas. The three areas and the courses from which students may choose are listed below. A 2000-level course introduces material necessary for completing more advanced courses in that area. Ideally, 2000-level courses must be completed by the end of the sophomore year.

   **Cognitive:** HD 2200, HD 2300 and HD 2380

   **Social & Personality:** HD 2600 and HD 2610

   **Aging & Health:** HD 2180 and HD 2510

4. Must complete at least 15 credits in Human Development didactic courses at the 3000- and 4000-level; 3 of these credits must be at the 4000-level.

5. Must complete a concentration in one of five areas of Human Development (listed below):

   - A concentration consists of a minimum of three classes at the 3000- or 4000-level.
   - The required 4000-level course must be taken in the chosen concentration.
   - Additional concentrations may be completed. However, to complete a second (or third) concentration students must take two unique courses that are not included in another HD concentration that they have already completed.
Students are strongly encouraged to take more than three courses in their chosen concentration. Students must contact the CHE Assistant Registrar by junior year to declare a concentration.

Students should note that some courses in Human Developmental Behavioral Neuroscience may require pre-requisite courses taught in Psychology or Neurobiology & Behavior.

6. Must complete at least one course outside the first declared concentration, other than a 2000-level course.

B. Areas of Concentration

**Cognitive Development**
- HD 3110 Educational Psychology
- HD 3190 Memory and the Law
- HD 3200 Human Developmental Neuropsychology
- HD 3330 Children and the Law
- HD 3340 Growth of the Mind
- HD 3360 Connecting Social, Cognitive, and Emotional Development
- HD 3370 Language Development
- HD 4200 Risk and Rational Decision Making
- HD 4250 LAB: Translational Research on Decision Making
- HD 4260 LAB: Translational Research on Memory and Neuroscience
- HD 4320 Cognitive, Social, and Developmental Aspects of Scientific Reasoning
- HD 4330 Developmental Cognitive Neuroscience
- HD 4340 Current Topics in Cognitive Development
- HD 4370 Practicum in Language Development
- HD 4440 Internship in Educational Settings for Children
- HD 4490 Children’s Learning in Social Context
- HD 4740 Autism and the Development of Social Cognition

**Human Developmental Behavioral Neuroscience**
- HD 3200 Human Developmental Neuropsychology
- HD 3440 Infant Behavior and Development
- HD 3470 Human Growth and Development: Biological and Behavioral Interactions
- HD 3660 Emotional Functions of the Brain
- HD 4330 Developmental Cognitive Neuroscience
- HD 4660 Psychobiology of Temperament and Personality
- HD 4740 Autism and the Development of Social Cognition
- HD 4780 Attention Deficit/Hyperactivity Disorder in Children

**Law, Psychology and HD**
- HD 3190 Memory and the Law
- HD 3330 Children and the Law
- HD 4140 Social and Psychological Aspects of the Death Penalty
- HD 4200 Risk and Rational Decision Making
- HD 4250 LAB: Translational Research on Decision Making
- HD 4260 LAB: Translational Research on Memory and Neuroscience

**Social & Personality Development**
- HD 3360 Connecting Social, Cognitive, and Emotional Development
- HD 3420 Participation with Groups of Young Children
- HD 3430 Social Worlds of Childhood
- HD 3460 Role and Meaning of Play
- HD 3490 Positive Psychology
- HD 3510 Racial and Ethnic Identity Development
- HD 3530 Risk and Opportunity Factors in Childhood and Adolescence

**HD courses may be used to fulfill concentrations**
### III. Electives

#### A. Suggested Human Ecology electives related to HD (will also fulfill HE credit outside the major)
- DEA 1500 Introduction to Human Environment Relations
- NS 1150 Nutrition, Health, and Society
- NS 3150 Obesity and the Regulation of Body Weight
- PAM 3360 Evolving Families: Challenges to Family Policy
- PAM 3370 Racial and Ethnic Differentiation
- PAM 3500 Contemporary Issues in Women’s Health
- PAM 3800 Human Sexuality

#### B. Human Development Honors Program
Honors in Human Development is a two-year program. The application for the honors program should be submitted in the fall of the junior year, by October 15. Applicants must be HD majors and have a GPA of 3.5 or higher. Applicants must complete the first statistics class before applying to the program.

**REQUIRED COURSE WORK**
- HD 4010 research with a faculty mentor (begun no later than the fall semester of the junior year)

**Sophomore year:**
- One basic Cornell Statistics course (PSYCH 3500 or PAM 2100 are strongly recommended as choices)

**Junior year:**
- One advanced Cornell Statistics course (e.g., PAM 3100, BTRY 3020)
- One basic Research Methods course (e.g., HD 3820, PSYCH 4910)

**Senior year:**
- HD 4980 Honors in Human Development AND HD 4990 Honors Seminar plus completion of the honors thesis
- Also Recommended for the Honors Program
  - One course in ethical issues in research (e.g., BSOC/STS 2051, PHIL 2450)
  - Two 3000 and/or 4000 level classes relating to the topic of the honors thesis

### IV. Physical Education
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Physical education does not count toward college and university minimum credit requirements for full-time status.

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

### College Requirements:
- Students must complete a minimum of 9 HUMEC credits outside of HD. 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).
- **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 3 weeks after the start of classes, the same as the “add” deadline.
- **Special Study Courses [4000, 4010, 4020, 4030]**
  - A total of 12 credits of special study course work 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.