The requirements listed below pertain to all students matriculating in August 2016 and January 2017.

### I. Distribution Requirements

#### Credits

<table>
<thead>
<tr>
<th>Distribution Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>I. Distribution Requirements</td>
<td>59-64</td>
</tr>
</tbody>
</table>

#### A. Natural Sciences

Choose **one** of the following sequences:

- CHM 1560 – 2080 General Chemistry
- CHM 2070 – 2080 General Chemistry
- CHM 2090 Engineering General Chemistry (requires written permission from the Chemistry Office of Undergraduate Studies)

#### B. Social Sciences

<table>
<thead>
<tr>
<th>Social Sciences Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>I.B.1</td>
<td>6</td>
</tr>
</tbody>
</table>

- HD 1100 Introduction to Lifespan Development **OR**
- HD 1150 Human Development: Infancy and Childhood **OR**
- HD 1170 Human Development: Adolescence and Emerging Adulthood **OR**
- PSYCH 1101 Introduction to Psychology: The Frontiers of Psychological Inquiry

AND

- I.B.2. ECON 1110 Introductory Microeconomics

#### 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.

#### D. Written Communications

<table>
<thead>
<tr>
<th>Written Communications Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>D. Written Communications</td>
<td>6</td>
</tr>
</tbody>
</table>

Must be First-Year Writing Seminars

**MUST BE COMPLETED DURING FIRST 2 SEMESTERS**

#### E. Quantitative and Analytical

<table>
<thead>
<tr>
<th>Quantitative and Analytical Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>E. Quantitative and Analytical (continued)</td>
<td>11-12</td>
</tr>
</tbody>
</table>

**I.E.1. Statistics**

Choose **one** of the following:

- AEM 2100
- BTRY 3010
- ILRST/STSCI 2100
- MATH 1710
- PAM 2100
- PSYCH 3500
- ENGRD 2700

**I.E.2. Calculus**

Choose **one** of the following sequences:

- MATH 1110 – 1120
- MATH 1110 – 1220
- MATH 1910 – 1920 (preferred)

**I.F.1. Organic Chemistry**

Choose **one** of the following sequences:

- CHEM 3570 – 3580
- CHEM 3570 – 3580 AND 2510
- MSE 2610 Mechanical Properties of Materials: From Nanodevices to Superstructures
- MSE 3010 Materials Chemistry

**I.F.2. Choose one of the following sequences:**

- PHYS 1101 – 1102
- PHYS 1112 – 2213
- PHYS 2207 – 2208

**I.F.3. Choose one of the following sequences:**

- CHEM 2870 - 2880 Introductory Physical Chemistry
- CHEM 3890 - 3900 Honors Physical Chemistry

**I.F.4. Ethics/Sustainability:** Choose **one** course from the following:

- ANTH 3470 Ethics and Nonhumans
- BEE 3299 Sustainable Development: A Web-Based Course
- BSOC 2051 Ethical Issues in Health and Medicine (also STS 2051)
- BSOC 2061 Ethics and the Environment (also STS 2061 / PHIL 2460)
- CRP 3011 Ethics, Development and Globalization
- CRP 3840 Green Cities
- DEA 1200 Art + Science
- DEA 4220 Ecological Literacy and Design (also ARCH 4601)
- DSOC 3240 Environment, Society, and Land
- FSAD 4021/6021 Apparel and Textiles in Developing Nations I/Apparel and Textiles in Developing Nations II
- GOVT 4917 Ethics in International Relations

**F. Additional credits**

<table>
<thead>
<tr>
<th>Additional Credits Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>F. Additional credits</td>
<td>25-28</td>
</tr>
</tbody>
</table>

- DEA 1500 Introduction to Environmental Psychology
- DEA 3510 Ergonomics and Anthropometrics
I.F.4. Ethics/Sustainability continued

HE 4923 Service, Prof. Practice and Leadership (Ethics and Professional Practice)
INFO 1200 Information Ethics, Law, and Policy
NTRES 3320 Introduction to Ethics and Environment
PHIL 1450 Contemporary Moral Issues
PHIL 2410 Ethics
PHIL 2450 Ethics and Health Care

II. Requirements in the Major  25-26

A. Must take the following:
   - FSAD 1350 Fibers, Fabrics, and Finishes
   - FSAD 1360 Fiber and Yarn Analysis Laboratory
   - FSAD 2370 Structural Fabric Design
   - FSAD 3320 Product Quality Assessment
   - FSAD 3350 Fiber Science
   - FSAD 4360 Fiber Chemistry
   - FSAD 4660 Textiles, Apparel, and Innovation

Choose one of the following:
   - BEE 1510 Introduction to Computer Programming
   - CS 1110 Introduction to Computing Using Python
   - CS 1112 Introduction to Computing Using MATLAB
   - CS 1300 Introductory Design and Programming for the Web (also INFO 1300)
   - FSAD 1140 Introduction to Computer-Aided Design

Choose one of the following:
   - FSAD 4390 Biomedical Materials and Devices for Human Body Repair
   - FSAD 6160 Rheology of Solids: Dynamic Mechanical Analysis of Fibers and Polymers
   - FSAD 6200 Physical Properties of Fiber – Forming Polymers and Fibers
   - FSAD 6260 The Chemistry of Textile Finishes and Dyeing
   - FSAD 6390 Properties of Fibrous Systems
   - FSAD 6660 Fiber Formation: Theory and Practice

III. Electives  Variable Credit

   Recommended:
   - Human Ecology Distribution (9 credits)
   - Foreign Language
   - COMM 2010 Oral Communication
   - HADM 3650 Managerial Communication II

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

College Requirements:

- Students must complete a minimum of 9 HUMEC credits outside of FSAD. 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).

- HE non-departmental courses at the 2000-level and below do not count toward the 43 HE credits.

- 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 the 57th calendar day of the semester, the same as the “drop” 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.