
Option III: Fiber Science

The requirements listed below pertain to all students matriculating in August 2008 and January 2009.

I. Distribution Requirements 48-55

A. Natural Sciences 8

Choose ONE of the following sequences:
- CHEM 1560 – 2080 General Chemistry
- CHEM 2070 – 2080 General Chemistry
- CHEM 2150 – 2160 General and Inorganic Chemistry

B. Social Sciences 6

HD 1150 Human Development OR
PSYCH 1101 Introduction to Psychology
AND
ECON 1110 Introductory Microeconomics

C. Humanities 3-4

Ethics/Sustainability: Choose ONE course from:
- AEM 4550 Sustainability, Business and the Environment
- BEE 3299 Sustainable Development: A Web-Based Course
- B&SOC 2051 Ethical Issues in Health and Medicine (also S&TS 2051)
- B&SOC 2061 Ethics and the Environment (also S&TS 2061, PHIL 2460)
- DEA 3030 Interior Materials and Sustainable Elements
- DEA 4220 Ecological Literacy and Design (also ARCH 4601)
- DSOC 3240 Environment and Society
- ILRCB 4820 Ethics at Work
- LA 4950 Green Cities: The Future of Urban Ecology (also CRP 3840)
- LAW 4081 Law, Science, and Sustainability
- NTRES 4310 Environmental Strategies
- PAM 5520 Health Care Services: Consumer & Ethical Perspectives
- PAM 6310 Ethics, Public Policy in American Society
- PHIL 1450 Contemporary Moral Issues
- PHIL 2410 Ethics
- PHIL 2450 Ethics and Health Care
- PHIL 2470 Ethics and Public Life
- SOC 3210 Environmental Sociology

D. Written Communications 6

Must be First-Year Writing Seminars

MUST BE COMPLETED DURING FIRST 2 SEMESTERS

E. Quantitative and Analytical 12

a. Either Statistics or Calculus must be taken at Cornell unless you have earned a score of 3 or higher on AP Calculus BC.
b. Once the above requirement is met other AP credit from Calculus AB (a score of 3 or higher) or Statistics (a score of 4 or 5) may be applied to the Quantitative and Analytical requirement if the content is not overlapping.

1. Statistics

Choose ONE of the following:
- AEM 2100, BTRY 3010, BTRY 6010, ILRST 2100, ILRST 2120, MATH 1710, PAM 2100, PSYCH 3500

2. Calculus

Choose ONE of the following sequences:
- MATH 1110 – 1120
- MATH 1110 – 1220
- MATH 1910 – 1920

F. Additional credits 17-19

Choose ONE of the following:
- COMM 2010 Oral Communication
- Foreign Language
- H ADM 3365 Managerial Communication II

Choose ONE of the following sequences:
- CHEM 2510 – 2520 AND 1570
- CHEM 3570 – 3580 AND 2510

Choose ONE of the following sequences:
- PHYS 1101 – 1102
- PHYS 1112 – 2213
- PHYS 2207 – 2208

II. Requirements in the Major 25-26

A. Must take the following: 10

- FSAD 1350 Fibers, Fabrics, and Finishes
- FSAD 1360 Fiber and Yarn Analysis Laboratory
- FSAD 2370 Structural Fabric Design
- FSAD 3350 Fiber Science

Choose ONE of the following:
- BEE 1510 Introduction to Computer Programming
- FSAD 1140 Introduction to Computer-Aided Design

Credits
<table>
<thead>
<tr>
<th>Credits</th>
<th>College Requirements:</th>
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<tr>
<td><strong>Choose ONE of the following:</strong></td>
<td>• 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.</td>
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<tr>
<td>MS&amp;E 2610 Mechanical Properties of Materials (also ENGRD 2610)</td>
<td>• 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).</td>
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<td>CHEME 6400 Polymeric Materials</td>
<td>• Pass/Fail Courses [S/U]</td>
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<td><strong>Any THREE from the following FSAD courses:</strong></td>
<td>o 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.</td>
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<td>FSAD 4200 (previously 370) History of Color and Design in Textiles</td>
<td>o S/Us MAY be used for the 9 credits of Human Ecology coursework outside of the major and for electives in Category III.</td>
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<td>FSAD 4320 Product Quality Assessment</td>
<td>o 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.</td>
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<td>FSAD 4360 Fiber Chemistry</td>
<td>o The deadline for changing grade options is 3 weeks after the start of classes, the same as the “add” deadline.</td>
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<td>FSAD 4390 Biomedical Materials and Devices for Human Body Repair (also BME 5390)</td>
<td>• Special Study Courses [4000, 4010, 4020, 4030]</td>
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<td>FSAD 4660 Textiles, Apparel, and Innovation</td>
<td>o 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.]</td>
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<td>FSAD 6160 Rheology of Solids: Dynamic Mechanical Analysis of Fibers and Polymers</td>
<td>o 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.</td>
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<td>FSAD 6200 Physical Properties of Fiber-Forming Polymers and Fibers</td>
<td>o 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.</td>
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<td>FSAD 6260 Chemistry of Textile Finishes and Dyeing</td>
<td>• Students must complete 120 credits overall, exclusive of physical education and “00” courses.</td>
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<td>FSAD 6390 Mechanics of Fibrous Assemblies</td>
<td>• Elective credits can be earned in Human Ecology or elsewhere.</td>
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<td>FSAD 6660 Fiber Formation: Theory and Practice</td>
<td><strong>IV: Physical Education</strong></td>
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<td><strong>III. Electives</strong></td>
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<td><strong>Variable Credit</strong></td>
<td>Physical education does not count toward college and university minimum credit requirements for full-time status.</td>
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<td><strong>Recommended:</strong></td>
<td><strong>Total Credits (exclusive of PE)</strong> 120</td>
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<td>Choose ONE of the following sequences:</td>
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<td>CHEM 2870 – 2880 Introductory Physical Chemistry</td>
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<td>CHEM 3890 – 3900 Honors Physical Chemistry I and II</td>
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<td>CHEME 6400 Polymeric Materials</td>
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<td>MS&amp;E 5210 Properties of Solid Polymers</td>
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<td>T&amp;AM 4550 Introduction to Composite Materials</td>
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<td>(also CEE 4770, M&amp;AE 4550, and MS&amp;E 5550)</td>
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