Fiber Science & Apparel Design  2011-2012
Option III: Fiber Science

The requirements listed below pertain to all students matriculating in August 2011 and January 2012.

I. Distribution Requirements  52-55

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
I.B.1 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. ECON 1110 Introductory Microeconomics

C. Humanities  3-4
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
DEA 4220 Ecological Literacy and Design (also ARCH 4601)
DSOC 3240 Environment and Society
FSAD 3970 Producing Environmentally Responsible Apparel* and
FSAD 3980 Redesigning Green Apparel-Design, Sourcing & Packaging* and
FSAD 3990 Sustaining Global Apparel Supply Chains*
GOVT 4971 Ethics in International Relations
ILRLR 4820 Ethics at Work
LA 4950 Green Cities: The Future of Urban Ecology (also CRP 3840)
NTRES 3320 Introduction to Ethics and the Environment
NTRES 4310 Environmental Strategies
PAM 5310 Ethics, Public Policy in American Society
PAM 5520 Health Care Services: Consumer & Ethical Perspectives
PHIL 1450 Contemporary Moral Issues
PHIL 2410 Ethics
PHIL 2450 Ethics and Health Care
*Must take all 3 FSAD 1 credit courses to fulfill this requirement

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.

I.E.1. Statistics
Choose one of the following:
AEM 2100, BTRY 3010, BTRY 6010, ILRST 2100, MATH 1710, PAM 2100, PSYCH 3500

I.E.2. Calculus
Choose one of the following sequences:
MATH 1110 – 1120
MATH 1110 – 1220
MATH 1910 – 1920

F. Additional credits  17-19
I.F.1. Choose one of the following:
COMM 2010 Oral Communication
Foreign Language
H ADM 3365 Managerial Communication II

I.F.2. Choose one of the following sequences:
CHEM 2510 – 2520 AND 1570
CHEM 3570 – 3580 AND 2510

I.F.3. 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

Choose one of the following:
- MSE 2610 Mechanical Properties of Materials (also ENGRD 2610)
- CHEME 6400 Polymeric Materials

Any three from the following FSAD courses:
- FSAD 3320 Product Quality Assessment (formerly FSAD 4320)
- FSAD 4200 History of Color and Design in Textiles
- FSAD 4360 Fiber Chemistry
- FSAD 4390 Biomedical Materials and Devices for Human Body Repair (also BME 5390)
- FSAD 4660 Textiles, Apparel, and Innovation
- FSAD 6160 Rheology of Solids: Dynamic Mechanical Analysis of Fibers and Polymers
- FSAD 6200 Physical Properties of Fiber-Forming Polymers and Fibers
- FSAD 6260 Chemistry of Textile Finishes and Dyeing
- FSAD 6390 Properties of Fibrous Systems
- FSAD 6660 Fiber Formation: Theory and Practice

III. Electives

Variable Credit

Recommended:
Choose one of the following sequences:
- CHEM 2870 – 2880 Introductory Physical Chemistry
- CHEM 3890 – 3900 Honors Physical Chemistry I and II
- CHEME 6400 Polymeric Materials
- MSE 5210 Properties of Solid Polymers
- TAM 4550 Introduction to Composite Materials (also CEE 4770, MAE 4550, and MSE 5550)

IV: Physical Education

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 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).
- 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]
  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.
  o S/Us MAY be used for the 9 credits of Human Ecology coursework outside of the major and for electives in Category III.
  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.
  o 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]
  o 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.
  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.
- Students must complete 120 credits overall, exclusive of physical education and “00” courses.
- Elective credits can be earned in Human Ecology or elsewhere.