Global & Public Health Sciences  2015-2016
The requirements listed below pertain to all students matriculating in August 2015 and January 2016.

I.  Distribution Requirements  

A. Natural Sciences: Introductory Biology Lecture and Lab  

Choose two out of three from the following lecture options:
(a) BIOG 1350 Cell and Development (F/S, 3 cr) 
(b) BIOG 1440 Comparative Physiology (F/S, 3 cr) OR* 
   BIOG 1445 Comparative Physiology (autotutorial) (F/S, 4cr) 
(c) BIOEE 1610 Ecology and the Environment (F/S, 3cr) OR* 
   BIOEE 1780 Evolution and Diversity (F/S, 3cr) 

*Cannot take both to fulfill this requirement

B. Social Sciences  

An introductory course in two different social sciences.  Choose one course in any two of the following four areas:

Anthropology  
ANTHR 1400 Introduction to Anthropology: The Comparison of Cultures

Economics  
ECON 1110 Introductory Microeconomics OR  
ECON 1120 Introductory Macroeconomics

Sociology  
DSOC 1101 Introduction to Sociology OR  
SOC 1101 Introduction to Sociology

Psychology  
HD 1110 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

C. Humanities  

Language credit may not be counted here.

II. Requirements in the Major  

A. Introductory Chemistry:  

CHEM 2070 General Chemistry I

B. Organic Chemistry Lecture:  

CHEM 1570 Introduction to Organic and Biological Chemistry OR  
CHEM 3530 Principles of Organic Chemistry OR  
CHEM 3570-3580 Organic Chemistry for the Life Sciences (must take both)

C. Physiology: One of following  

BIOG 1440 or 1445 Comparative Physiology (if not used for I. A)  
NS 1150 Nutrition, Health, and Society  
NS 3410 Human Anatomy and Physiology  
BIOAP 3110 Principles of Animal Physiology

D. Written Communications  

Must be First-Year Writing Seminars.  
FWS: MUST BE COMPLETED DURING FIRST 2 SEMESTERS

E. Quantitative and Analytical  

Statistics (must be taken at Cornell, AP statistics is not accepted)  
STSCI 2150 Introductory Statistics for Biology

F. Additional credits  

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

Students interested in premed or graduate study in biological/medical/exercise sciences should take:
CHEM 2080: General Chemistry II  
CHEM 3570 and 3580: Organic Chemistry (full year sequence)  
CHEM 2510: Organic Chemistry Lab  
PHYS 1101 and 1102 General Physics (auto-tutorial) OR  
PHYS 2207 and 2208 Fundamentals of Physics

Credits

I.  Distribution Requirements  

A. Natural Sciences: Introductory Biology Lecture and Lab  

BIOG 1500 Investigative Lab (F/S, 2 cr) AND

Choose two out of three from the following lecture options:
(a) BIOG 1350 Cell and Development (F/S, 3 cr) 
(b) BIOG 1440 Comparative Physiology (F/S, 3 cr) OR* 
   BIOG 1445 Comparative Physiology (autotutorial) (F/S, 4 cr) 
(c) BIOEE 1610 Ecology and the Environment (F/S, 3 cr) OR* 
   BIOEE 1780 Evolution and Diversity (F/S, 3 cr) 

*Cannot take both to fulfill this requirement

B. Social Sciences  

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Sociology  
DSOC 1101 Introduction to Sociology OR  
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Psychology  
HD 1110 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

C. Humanities  

Language credit may not be counted here.

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.

Credits

37-39
D. Biochemistry: One of following

Choose one of the following:
- NS 3200 Introduction to Human Biochemistry (F, 4 cr)
- BIOMG 3300 Principles of Biochemistry (auto-tutorial) (F/S, 4 cr)
- BIOMG 3310 (F, 3 cr) and BIOMG 3320 (S, 2 cr) Principles of Biochemistry
- BIOMG 3310 Principles of Biochemistry (F, 3 cr) and BIOMI 2900 General Microbiology (F/S, 3 cr)
- BIOMG 3330 Principles of Biochemistry (Su, 4 cr)
- BIOMG 3350 Principles of Biochemistry (S, 4 cr)

E. Global & Public Health Core Courses

NS 1600 Introduction to Public Health
NS 2600 Introduction to Global Health
NS 3600 Epidemiology
NS 4600 Explorations in Global and Public Health

F. Supervised Experiential Learning in Public Health

Must be largely completed by the end of Fall semester of senior year. Pre-approval required. This experience may be obtained through one of several options including:
- Urban semester
- International or domestic field experience
- Cornell in Washington
- Capital Semester
- Research

G. Specialized Selectives:

Four courses, one from each of the following four categories

II.G.1. Social & Behavioral Health
- NS 2450 Social Science Perspectives on Food and Nutrition
- HD 3570 /SOC3670 Social Inequalities in Physical and Mental Health
- PAM 3280 Fundamentals of Population Health
- PAM 4280 Economics of Risky Health Behaviors
- ANTHR 2468 Medicine, Culture, and Society

II.G.2. Biological Aspects of Public Health
- NS 3060 Nutrition and Global Health
- NS 3150 Obesity and the Regulation of Body Weigh
- NS 4310 Mineral Nutrition and Disease
- NS 4315 Nutrient Requirements and Recommendations: Biological Aspects
- NS 4410 Nutrition and Disease
- BIOMG 4870 Human Genomics
- BIONB 4270 Darwinian Medicine
- BIOMI 3210 Normal Microbes of the Human Body in Health and Disease

II.G.3. Environmental Health
- FDSC 3960 Food Safety Assurance
- DSOC 3400 Agriculture, Food Systems and Society
- ENTR 3070 Plagues and People
- ENTR 3070 /TOX 3070 Pesticides and the Environment
- CEE 5970 / TOX 5970 Risk Analysis and Management
- ILRRC 3342 Workplace Health and Safety as a Human Right
- COMM 2850 Communication, Environment, Science and Health
- BIOMI 2500 Public Health Microbiology
- BIOMI 4310 Medical Parasitology
- ENTOM 3520 Medical and Veterinary Entomology

II.G.4. Health Policy & Management
- NS 4500 Public Health Nutrition
- NS 4570 / ECON 4740 Health, Poverty and Inequality
- PAM 2350 The US Health Care System
- PAM 3110 Pharmaceutical Management and Policy
- PAM 4050 Reproductive Health Policy
- PAM 4370 Economics of Health Care Markets
- PAM 4380 Economics of Public Health

III. Electives

Variable

IV. Physical Education

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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 NS. 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 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 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.