Nutritional Sciences 2008-2009

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

Credits

I. Distribution Requirements 31–39

A. Natural Sciences: Introductory Chemistry 8
Choose one of the following sequences:
CHEM 1560 and 2080 Introduction to General Chemistry
CHEM 2070 and 2080 General Chemistry
CHEM 2150 and 2160 General and Inorganic Chemistry

B. Social Sciences 6
An introductory course in two different social sciences. Choose one course in any two of the following areas:

Anthropology
ANTHR 1400 Introduction to Anthropology: The Comparison of Cultures

Economics
ECON 1110 Introductory Microeconomics OR
ECON 1120 Introductory Macroeconomics

Sociology
HD 2500 Families and Life Course OR
DSOC 1101 Introduction to Sociology

Psychology
HD 1150 Human Development OR
PSYCH 1101 Introduction to Psychology

C. Humanities 3
Language credit may not be counted here (See: III.).
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 6
Must be First-Year Writing Seminars.
MUST BE COMPLETED DURING FIRST 2 SEMESTERS

E. Quantitative and Analytical 7-8
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. Calculus/Advanced Math
Choose one of the following:
BTRY 1150, MATH 1105, MATH 1106, MATH 1110, MATH 1120
*Calculus or higher level math is generally needed for premed or grad study.

2. Statistics
Choose one of the following:
AEM 2100, BTRY 3010, ILRST 2100, ILRST 2120, MATH 1710, PAM 2100, PSYCH 3500

F. Additional credits 5-12

Organic Chemistry Lecture (6-credit minimum for premeds)
Choose one of the following:
CHEM 1570 Elementary Organic Chemistry (not for premeds)
CHEM 3570 and 3580 Introductory Organic Chemistry
CHEM 3590 and 3600 Organic Chemistry

Organic Chemistry Lab
Choose one of the following:
CHEM 2510 Introduction to Experimental Organic Chemistry
CHEM 3010 Experimental Chemistry

Students interested in premed or graduate study in biological/medical/exercise sciences should take:
PHYS 1101 and 1102 General Physics (auto-tutorial) OR
PHYS 2207 and 2208 Fundamentals of Physics

II. Requirements in the Major 39-43

Introductory Biology Lecture and Lab 6-8
Choose one of the following sequences:
BIOG 1101 thru 1104 Biological Sciences Lectures and Labs
BIOG 1105 and 1106 Introductory Biology
BIOG 1109 and 1110 Biological Principles (not for premeds)

Nutritional Sciences Core Courses 16
NS 1150 Nutrition, Health and Society
NS 2450 Social Science Perspectives on Food and Nutrition
NS 3310 Physiological and Biochemical Bases of Nutrition
NS 3320 Methods in Nutritional Sciences
NS 3450 Introduction to Physicochemical and Biological Aspects of Food
Physiology
BioAP 3110 Animal Physiology OR
NS 3410 Human Anatomy and Physiology

Biochemistry
Choose one of the following:
NS 3200 Introduction to Human Biochemistry
BIOBM 3300 Principles of Biochemistry (auto-tutorial)
BIOBM 3310 and 3320 Principles of Biochemistry
BIOBM 3310 Principles of Biochemistry and BIOMI 2900 General Microbiology
BIOBM 3330 Principles of Biochemistry

Advanced Electives in Nutrition
1. 9 credits of NS courses at 3000 level or above.
2. May include NS 3410 if BIOAP 3110 is used to fulfill the physiology requirement.
3. May include no more than a total of 3 credits from NS 4000–4020 and NS 4990.
4. May not include NS 3200.

Economic Influences on Human Nutrition
NS 3060 Nutritional Problems of Developing Nations
NS 4450 Food Policy for Developing Nations (also AEM 4450)
NS 4570 Economics of Hunger & Malnutrition

Epidemiology and Public Health
NS 4500 Public Health Nutrition

Food Quality and Food Service Management
NS 4880 Applied Dietetics in Foodservice Systems

Human Health and Nutrition
NS 3150 Obesity and the Regulation of Body Weight (also PSYCH 3150)
NS 4210 Nutrition and Exercise
NS 4410 Nutrition and Disease
NS 4420 Implementation of Nutrition Care
NS 6140 Topics in Maternal and Child Nutrition

Nutritional Biochemistry
NS 4310 Mineral Nutrition and Chronic Disease
NS 4750 Mechanisms Underlying Mammalian Developmental Defects
NS 6310 Micronutrients: Function, Homeostasis and Assessment
NS 6320 Regulation of Macronutrient Metabolism

Psychological and Social Influences on Human Nutrition
NS 3470 Human Growth and Development: Biological and Behavioral Interactions (also HD 3470 and BSOC 3471)
NS 3610 Biology of Normal and Abnormal Behavior
NS 4250 Nutrition Communications and Counseling

Other
NS 3980 Research in Human Nutrition and Health

III. Electives

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 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).

- 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.