The requirements listed below pertain to all students matriculating in August 2024 and January 2025. All of the following sections are required to be completed to graduate.

Courses in areas 1-17 must be taken for a Letter Grade.

Overall Credits (REQUIRED)		
Total: 120 credits	Human Ecology: 45 credits	Human Ecology, outside the major: 11 credits
	(courses from DEA, FSAD, HD, NS, PUBPOL at any	(from DEA, FSAD, HD, PUBPOL any level, or HE above 1500
	level or HE at the 3000/4000 level)	level). Special Studies courses (4000, 4010, 4020) do not
		count.

1. Global & Public Health Core Courses (14 credits)

NS 1600 Introduction to Public Health (3 cr)

NS 2060 Preparation for Engaged Learning (2 cr)

NS 2600 Introduction to Global Health (3 cr)

NS 3600 Epidemiology (3 cr)

NS 4600 Explorations in Global and Public Health (3 cr)

2. Supervised Experiential Learning in Global & Public Health (variable credits)

Approval required. May be completed anytime from spring semester sophomore year onward.

Must be completed before the fall semester of senior year.

This experience may be obtained through one of several options, including (but not limited to):

- Cornell Cooperative Extension Tompkins County and others (NS 4060)
- Cornell in Washington (NS 4997)
- Global Health Summer Programs
- Public Health Research or Internship (NS 4060)
- Study abroad programs with a public health focus/internship (NS 4060)
- Weill Cornell Clinical & Translational Science Center (NS 4060)

3. Social & Behavioral Health Selective (3-4 credits)

Course should cover some aspect of public health (including nutrition) from a social and/or behavioral health perspective. More than half of the course content must be devoted to consideration of issues of public health from a social science perspective (e.g. sociology, anthropology, psychology, economics, communication, and other social science disciplines). Courses used to fulfill this requirement must be at the 2000-level or above. See the Requirements for GPHS majors in CHE for regular updates to course options and information; new options are available to all class years.

Choose from the following options, must take a minimum of 3 credits:

NS 2450 Social Science Perspectives on Food and Nutrition (3 cr)

ANTHR 2468 Medicine, Culture, and Society (3 cr)

COMM 2850 Communication, Environment, Science, and Health (3 cr)

COMM 4760 Population Health Communication (3 cr)

GDEV / LSP 2200 Sociology of Health and Ethnic Minorities (3 cr)

GDEV 3020 Political Ecologies of Health (3 cr)

HD 3325 Theory and Practice of Contemporary Clinical Psychology (3 cr)

HD 4600 Professional Development in Geriatric and Palliative Research (1.5 cr)

PUBPOL / SOC 3180 Health Disparities (3 cr) (PUBPOL formerly PAM)

PUBPOL 3280 / GDEV 3280 Fundamentals of Population Health (3 cr) (PUBPOL formerly PAM)

PUBPOL 4280 / ECON 3710 The Economics of Risky Health Behaviors (3 cr) (PUBPOL formerly PAM)

SOC 4120 Health and Social Context (4 cr)

4. Biological Aspects of Public Health Selective (3-4 credits)

Courses should cover some aspect of public health (including nutrition) from a biological perspective. More than half of the course content must be devoted to consideration of issues of public health from a biological perspective (e.g. biochemistry, molecular biology, physiology, neuroscience, and other biological sciences disciplines). Courses used to fulfill this requirement must be at the 2000-level or above. See the Requirements for GPHS majors in CHE for regular updates to course options and information; new options are available to all class years

Choose from the following options, must take a minimum of 3 credits:

NS 3060 Nutrition and Global Health (3 cr)

NS 3150 Obesity and the Regulation of Body Weight (3 cr)

NS 4200 Diet and the Microbiome (3 cr)

NS 4300 Proteins, Transcripts, and Metabolism: Big Data in Molecular Nutrition (3 cr)

NS 4410 Nutrition and Disease (4 cr)

BIOMG 4390 Molecular Basis of Disease (3 cr)

BIOMG 4870 Human Genomics (3 cr)

BIOMI 2600 Microbiology of Human Contagious Diseases (3 cr)

BIOMI 2950 Biology of Infectious Disease: From Molecules to Ecosystems (3 cr)

BIOMI 3210 Human Microbes and Health (3 cr)

BIOMI 4040 Pathogenic Bacteriology (2-3 cr)

BIONB 3920 Drugs and the Brain (3 cr)

ENTOM 4000 Ecology and Evolution of Infectious Diseases (4 cr)

PLBIO 2100 Medical Ethnobotany (3 cr)

5. Environmental Health Selective (3-4 credits)

Courses should cover some aspect of public health (including nutrition) from an environmental perspective. More than half of the course content must be devoted to consideration of issues of public health from an environmental perspective (e.g. entomology, design and environmental analysis, microbiology, and other related disciplines). Courses used to fulfill this requirement must be at the 2000-level or above. See the Requirements for GPHS majors in CHE for regular updates to course options and information; new options are available to all class years.

Choose from the following options, must take a minimum of 3 credits:

DEA 2700 Healthy Places: Design, Planning and Public Health (3 cr)

GDEV 3020 Political Ecologies of Health (3 cr) (GDEV formerly DSOC)

GDEV 3400 Agriculture, Food Systems and Society (3 cr) (GDEV formerly DSOC)

BIOMI 2500 Public Health Microbiology (3 cr)

BIOMI 2950 Biology of Infectious Disease: From Molecules to Ecosystems (3 cr)

BIOMI 4310 / BIOMS 4310 Medical Parasitology (2 cr)

COMM 2850 / STS 2851 Communication, Environment, Science and Health (3 cr)

ENTOM 2100 / BSOC 2101 Plagues and People (2-3 cr)

ENTOM 3520 Medical and Veterinary Entomology (3 cr)

FDSC 3960 Food Safety Assurance (2 cr)

PLBIO 2100 Medical Ethnobotany (3 cr)

PLBIO 2400 Green World, Blue Planet (3 cr)

6. Health Policy & Practice Selective (3-4 credits)

Courses should cover some aspect of public health (including nutrition) from a health policy and/or practice perspective. More than half of the course content must be devoted to consideration of issues of public health from a health policy and/or practice perspective (e.g. policy analysis and management, developmental sociology, economics, government, nutritional sciences, and other public policy and practice disciplines). Courses used to fulfill this requirement must be at the 2000-level or above. See the Requirements for GPHS majors in CHE for regular updates to course options and information; new options are available to all class years.

Choose from the following options, must take a minimum of 3 credits:

NS 4450 / 6450 Toward a Sustainable Global Food System: Food Policy for Developing Countries (3 cr)

NS 4500 Public Health Nutrition (3 cr)

NS 4570 / ECON 3910 Health, Poverty and Inequality (3 cr)

AMST / GOVT 2225, GDEV / ILROB / PUBPOL / SOC 2220, PHIL 1950 Controversies about Inequality (4 cr) (PUBPOL formerly PAM)

ANTHR / EDUC / FGSS 4458 Women, Girls and Gender in Education (4 cr)

CRP 3430 Affordable Housing Policy and Programs (3 cr)

GDEV 2050 International Development (3-4 cr)

GDEV 2090 / PUBPOL / SOC 2208 Social Inequality (4 cr) (PUBPOL formerly PAM)

GDEV 3020 Political Ecologies of Health (3 cr)

GDEV 3700 / SOC 3710 Comparative Social Inequalities (3 cr)

GDEV 4230 Gender and Health: Concepts, Data, Theories and Evidence (3 cr)

GOVT 3032 Politics of Public Policy in the U.S. (4 cr)

HD 4600 Professional Development in Geriatric and Palliative Research (1.5 cr)

PUBPOL 2030 Population and Public Policy (3-4 cr) (PUBPOL formerly PAM)

PUBPOL 2350 The US Health Care System (3 cr) (PUBPOL formerly PAM)

PUBPOL 3110 Pharmaceutical Management and Policy (3 cr) (PUBPOL formerly PAM)

PUBPOL 3780 Sick Around the World? Comparing Health Care Systems Around the World (3 cr) (PUBPOL formerly PAM)

PUBPOL 3870 / 5870 Economic Evaluations in Health Care (3 cr) (PUBPOL formerly PAM)

7. Introductory Chemistry (4+ credits)

Choose **one** of the following:

- (a) CHEM 2070 General Chemistry I (4 cr)^{1,2} AND CHEM 2080 General Chemistry II (4 cr) (two-course sequence required for pre-health)
- (b) **CHEM 2070** General Chemistry I (4 cr)^{1,2} (single course not adequate for pre-health)
- (c) **CHEM 1560** Introduction to General Chemistry ¹ (4 cr) (not for pre-health)
- (d) **CHEM 2150** Honors General and Inorganic Chemistry ^{2, 3} (4 cr) (not for pre-health)
 - ¹ Students may use an AP Chemistry score of 5 to place out of CHEM 2070. However, GPHS students must take at least one semester of general chemistry at Cornell—i.e., students who use AP credit toward their general chemistry requirement must take an additional chemistry course (i.e., CHEM 2080, CHEM 2150, or other, but not CHEM 1560). Students interested in the pre-health track should take two semesters of general chemistry at Cornell.
 - ² Students who take CHEM 2070 forfeit AP credit. Students who take CHEM 2150 may keep AP credit.
 - ³ Students should only select option (d) if they are very strong in chemistry and are not considering a pre-health (e.g. pre-med) track.

8. Introductory Biology (8 credits)

Choose one of the following labs:

- (a) BIOG 1500 Investigative Lab (2 cr) OR
- (b) BIOSM 1500 Investigative Marine Biology Lab (3 cr)

AND choose two out of the three lecture options1:

- (a) BIOMG 1350 Cell and Development (3 cr)
- (b) BIOG 1440 Comparative Physiology (3 cr) OR²
 - BIOG 1445 Comparative Physiology (autotutorial) (4cr)
- (c) BIOEE 1610 Ecology and the Environment (3cr) OR2

BIOEE 1780 Evolution and Diversity (3 cr)

- ¹Students may use an AP Biology score of 5 or IB HL Biology score of 7 to place out of one introductory biology lecture. Pre-health (e.g. pre-med) students should not use AP scores to fulfill biology requirements.
- ² Cannot take both courses within one category to fulfill this requirement

9. Organic Chemistry Lecture (3+ credits)

Choose one of the following:

- (a) CHEM 1570 Elementary Organic Chemistry (S only, 3 cr, not for pre-health) OR
- (b) CHEM 3530 Principles of Organic Chemistry (F only, 4 cr) OR
- (c) CHEM 3570 Organic Chemistry for the Life Sciences I (3 cr) AND CHEM 3580 Organic Chemistry for the Life Sciences II (3 cr) OR¹
- (d) **CHEM 3570** Organic Chemistry for the Life Sciences I (3 cr)¹ (single course not adequate for pre-health)
- (e) CHEM 3590 Honors Organic Chemistry I (4 cr) AND CHEM 3600 Honors Organic Chemistry II (4 cr)²
 - ¹ Students interested in pre-health tracks should take a two-course sequence of organic chemistry lectures (option c or e above).
 - ² Students who select option e above must take both courses in sequence; one course alone will not fulfill requirement.

10. Physiology (3-4 credits)

Choose **one** of the following:

- (a) NS 3410 Human Anatomy and Physiology (4 cr) OR1
- (b) [BIOG 1440 Comparative Physiology (3 cr) OR
 - BIOG 1445 Comparative Physiology (autotutorial) (4 cr)]² OR
- (c) NS 1150 Nutrition, Health, and Society (3 cr)
- (d) NS 1220 Nutrition and the Life Cycle (3 cr)
 - ¹ Pre-health students might also consider taking NS 3420 Human Anatomy and Physiology Lab (S, 2 cr).
 - ² Can only be used to fulfill physiology requirement if not used to fulfill introductory biology requirement.

11. Biochemistry (4-6 credits)

Choose **one** of the following*:

- (a) NS 3200 Introduction to Human Biochemistry (4 cr)
- (b) **BIOMG 3300** Principles of Biochemistry (4 cr)
- (c) **BIOMG 3310** Principles of Biochemistry: Proteins and Metabolism (3 cr) AND **BIOMG 3320** Principles of Biochemistry: Molecular Biology (2 cr)
- (d) BIOMG 3310 Principles of Biochemistry: Proteins and Metabolism (3 cr) AND BIOMI 2900 General Microbiology (3 cr)
- (e) BIOMG 3330 Principles of Biochemistry: Proteins, Metabolism, and Molecular Biology (4 cr)
- (f) BIOMG 3350 Principles of Biochemistry: Proteins, Metabolism, and Molecular Biology (4 cr)
 - * Students who take only one semester of introductory chemistry should talk with faculty advisors and biochemistry instructors as early as possible to determine which biochemistry course is best for them and how they may access resources for the best chance of success.

12. CHE Core Curriculum (5 credits)

Students must complete all three courses in their first three semesters:

HE 1800 Blazing Your Trail in Human Ecology (1 cr)

HE 1850 Introduction to Human Ecology (2 cr)

HE 2000 Human Ecology Pathways to Racial and Social Justice (2 cr)

13. First Year Writing Seminars (6 credits)

Two first year writing seminar classes

Note: These two classes must be completed during the first two semesters at Cornell.

14. Social Sciences (6 credits)

Choose **one** course in any **two** of the follow four areas:

Anthropology

ANTHR 1400 The Comparison of Cultures (3 cr)

Economics

ECON 1110 Introductory Microeconomics (3 cr)

ECON 1120 Introductory Macroeconomics (3 cr)

Psychology

HD 1130 Introduction to Human Development (3 cr)

PSYCH 1101 Introduction to Psychology (3 cr)

Sociology

SOC 1101 Introduction to Sociology (3 cr)

15. Humanities (3 credits)

Choose any course with the Course Distribution Historical Analysis (HA or HST-AS), Literature and the Arts (LA or ALC-AS), or Cultural Analysis (CA).

16. Statistics (4 credits)

Choose one* of the following:

STSCI 2150 Introductory Statistics for Biology (4 cr) (recommended)

BTRY 3010 Biological Statistics I (4 cr)

Note: Other Statistics courses with a forbidden overlap may not be used to fulfill this requirement.

17. Additional Distribution Coursework (10-12 credits)

Any course with the Course Distribution ALC-AS, ETM-AS, HST-AS, SCD-AS, SSC-AS, SDS-AS, SMR-AS, PBS, SBA, KCM, MQR, LA, CA, or HA. Language courses may count here.

For example, students interested in pre-health tracks or graduate study in pre-physical therapy/exercise sciences could fulfill this requirement by taking:

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 I and II (auto-tutorial) OR

PHYS 2207 and 2208 Fundamentals of Physics I and II

18. Electives (Variable)

Any courses that are not taken in Areas 1-17 above, count as Electives.

19. Physical Education Requirement (2 courses)

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.

20. Swim Test Requirement

A successful swim test must be completed in order to graduate.

^{*} Must be taken at Cornell; AP Statistics is not accepted.

College Policies:

• 120 Overall Credits

- Students must complete 120 credits toward graduation.
- o A maximum of 15 credits of AP credit and in absentia credit can count towards the 120 total credits.
- o 15 credits of Study Abroad/Exchange, Cornell-In-Washington or 12 credits of Capital semester can count towards total electives.

• 45 HE Credits

- o Students must complete a minimum of 45 HE credits.
- o HE non-departmental courses at the 1500-level and below do not count toward the 45 HE credits.
- o Students must enroll in a minimum of one 3-credit course each semester in HE for their first four semesters, excluding winter and summer sessions).

• 11 HE Credits outside the major

- o Students must complete a minimum of 11 HE credits outside of NS.
- FWS, HE non-departmental courses below the 1500 level, Statistics and Research Methods courses (PUBPOL 2100, PUBPOL 3120, DEA 3550, or HD 2830), Special Studies (4000, 4010, 4020), and teaching assistantships (4030) do not count toward this requirement.
- o These can be taken S/U only if course is NOT used to fulfill a curriculum requirement [Areas 1-17].

• Pass/Fail Courses [S/U]

- o S/U grading option may NOT be used for any required course [Areas 1-17] unless it is the only grade option offered for those courses.
- o S/Us MAY be used for the 11 HE Credits outside the major and for electives in Area 18.
- 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 the 57th calendar day of the semester, the same as the "drop" deadline.

Special Study Courses [4000, 4010, 4020, 4030]

- A maximum of 12 credits of special study course work from Human Ecology or other colleges will count towards the 120 overall
 credits (e.g. DNS special studies course work includes NS 4000, 4010, 4020, and 4030). Courses will be indicated on the class roster
 with a Component of either IND or RSC. [Additional credits can be taken but will not be applied.]
- o A maximum of 12 credits of 4000-4030 may count toward the 45 HE credit requirement.
- o Credits from 4000, 4010, 4020, and 4030 cannot count towards the 11 HE credits outside the major requirement.
- 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.