

COURSE PLAN - ENVIRONMENTAL HEALTH SCIENCE MAJOR

(Advanced Science and Pre-Med Intent)

This route prepares students for graduate level work in the field of environmental health science or professional school. It includes all pre-medical and pre-dental preparatory science classes. EHS students also gain knowledge and skills through the required field internship experience.

Freshman and Sophomore years (61 hours)

Courses that meet the General Education Curriculum Areas I through V may be found at: <http://bulletin.uga.edu>.

Area I : Foundation Courses (9 hours)

- ENGL 1101 (3)
- ENGL 1102 (3)
- MATH
 - MATH 1113 recommended (3)

Area II : Sciences (8 hours)

- Physical Sciences (3-4)
 - CHEM 1211/L/D recommended (4)
- Life Sciences (3-4)
 - BIOL 1107/L recommended (4)

Area III : Quantitative Reasoning (4 hours)

- BIOS 2010 or STAT 2000 recommended (4)

Area IV : World Languages and Culture (9); Humanities and the Arts (3)

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- Humanities and the Arts (3)
 - COMM 1110 recommended

Area V : Social Sciences (9 hours)

- HIST 2111 or 2112 recommended (3)
- POLS 1101 recommended (3)
- PSYC 1101 recommended (3)

Area VI : Environmental Health (19 hours)

All must be completed with a C or better

- BIOL 1108/L - Principles of Biology II (4)
- CHEM 1212/L/D - Freshman Chemistry II (4)
- CHEM 2211/L - Modern Organic Chemistry I (4)
- EHSC 2100 - Environmental Physiology (3) *spring only*
 - or (pre-med/dent)VPHY 3100 - Elements of Physiology (3)
- PHYS 1111/L - Introductory Physics I (4)

Other Requirements

- 120 total credit hours are required for graduation; additional general electives may be needed.
- PEDB of your choice
- FYOS 1001 (1 hour)

The first two years are spent taking basic and advanced courses in biology, chemistry, physics, math, and microbiology. During the junior and senior years, EHS students take applied environmental health science courses and complete an internship relevant to their interests in the environmental health science field. Students also have the opportunity to earn course credit by participating in research projects with EHS faculty.

LEARN MORE HERE:



Junior and Senior years (60 hours)

A grade of C or better is required for all major required and major elective courses.

Major Requirements (36-37 hours)

CPH Core (9 hours)

- EPID 4070 - Foundations of Epidemiology (3)
- HPAM 3600 - Introduction to Health Policy (3)
- HPRB 3010 - Health Promotion in Public Health (3)

EHS Core (19 hours)

- EHSC 2020 - Discovering Environmental Health (1)
- EHSC 3060 - Intro to Environmental Health (3)
- EHSC 3910 - Internship in EHS (3)
- EHSC 4080 - Environmental Air Quality (3) *Spring only*
- EHSC 4150 - Solid & Hazardous Waste Mgmt (3) *Fall only*
- EHSC 4490 - Environmental Toxicology (3) *Fall only*
- EHSC 4910 - Environ Health Seminar (1)

Science Core (12 hours)

- CHEM 2212/L - Modern Organic Chemistry II (4)
- MIBO 3500/L - Microbiology & Lab (4)
- PHYS 1112/L - Introductory Physics II (4)

EHS Major Electives (18 hours)

Major electives should be chosen in consultation with your academic advisor.

Eighteen total hours are required in this category.

Six hours must come from the EHSC list below.

The remaining twelve hours may come from a combination of the EHSC courses listed and from the list of approved non-EHSC major electives(found on page 2).

EHS options (6 hour minimum)

Pick 2 classes from the list below for a total of at least 6 hours

1. _____
2. _____

EHSC options

- EHSC 3950 - Training/Hazard Waste Workers (2) *Summer only*
- EHSC 4090 - Bioremediation (3) *Spring, even years*
- EHSC 4100/L - Industrial Hygiene (3) *Fall only*
- EHSC 4200 - Climate Change & Public Health (3)
- EHSC 4310/L - Environ. Microbiology (4) *Spring only*
- EHSC 4350/L - Environ. Chemistry (3)
- EHSC 4400 - Environ. Issues in Devel. World (3) *Spring, Summer*
- EHSC 4610 - Water Pollution & Human Health (3) *Fall, odd years*
- EHSC 4700 - Genetic Applications in EHS (3) *Spring, odd years*
- EHSC/FDST 4320/L - Food Safety Control Programs (3) *Fall only*

Non-EHSC options (12 hours)

Pick 3-4 classes from either list for a total of at least 12 hours(full list on page 2)

- _____ (pre-med/dent) BCMB 3100 - Intro Biochemistry (4)
- _____ (pre-med/dent) GENE 3200/D - Genetics (4)
- _____ (pre-med/dent) MATH 2250 - Calculus (4)
- _____

Non-EHSC Major Electives:

Major electives should be chosen in consultation with your academic advisor.

Earning over 3 credit hours in EHSC 3910 may count towards non-EHSC electives, with department approval.

Research and study abroad courses require departmental approval to count as major electives.

Pick 3-4 classes from this list for a total of at least 12 hours

- AAEC(FDST) 4051E/6051E – Food Law and Regulation
- AAEC 4720 – Food Security, Econ. Development & Environ
- (pre-med/dent) BCMB 3100 – Intro to Biochemistry
- BCMB 4030L – Bioprocess Technology
- BCMC 4200 – Biotechnology
- BIOL 3110L – Basic Skills in the Laboratory
- BIOS 3000 – Intermediate Biostat. For Public Health
- BUSN 3300 – The Sustainable Business
- CBIO 3000/L – Vertebrate Anatomy
- CBIO 3200L – Medical Anatomy
- CBIO 3400 – Cell Biology
- CBIO/MIBO/IDIS 4100 – Immunology
- CHEM 2300/2300L – Quant. Analysis Chemistry
- CHEM 3300 – Modern Instrumental Methods
- COMM 3320 – Environmental Communication
- COMM/HPRB 4610 – Health Communication
- CRSS(ECOL) 4930 – Agroecol Tropical America
- CRSS(ECOL) 4931 – Agroecol Tropical America Fld Trp
- DMAN 3100 – Disasters and Society
- ECOL(BIOL)3500/3500L – Ecology
- ECOL(BIOL)3510 – Ecology Laboratory
- ECOL 3530/3530D – Conservation Ecology
- ECOL 4150L – Population Biology of Infectious Diseases
- ECOL 4310/4310L – Freshwater Ecosystems
- EETH 4020 – Readings in Environmental Ethics
- EETH 4200 – Environmental Concepts
- ENTO 4250/4250L – Pesticides/Transgenic Crops
- ENVE 4480 – Instrumentation for Environmental Quality
- ENVE 4730 – Environmental Justice: Evidence and Impact
- ENVM 3060/E – Principles of Resource Economics
- ENVM 4380 – Environmental Management and Sustainable Business Prac.
- ENVM 4800 – Water Resource Economics
- EPID 3100 – Health Data Fluency and Management for Public Health
- EPID 4200 – Epidemiological Aspects of Global Health
- FANR 3800/3800L – Spatial Analysis of Natural Resources
- FISH 4500 – Fish Physiology
- (pre-med/dent) GENE 3200/D – Genetics
- GEOG 4370/4370L – Geog Info Sci (GIS)
- GEOG 4470 – Analysis in GIS
- GEOL 4220 – Hydrogeology
- *GLOB 3100 – Introduction to Global Health
- *GLOB 3200 – Global Health and the Links among Food Culture and Dis.
 - * Only one of these courses can be taken to fulfill this requirement.
- HPAM 4100 – The Age of Human and Social Capital
- IDIS 3100(H) – People, Parasites, Plagues
- MARS 3000 – Coastal Zone and Marine Law
- MARS 3450/3450L – Marine Biology
- MATH 2200 – Analytic Geometry/Calculus
- (pre-med/dent) MATH 2250 – Calculus
- PBIO 3010 – Fungi: Friends and Foes
- POPH 3300 – Wildlife Health
- WASR(FORS) 4110 – Forest Hydrology
- WASR 4500 – Quantitative Methods in Hydrology
- WASR 4400/4400L – Introduction to Wetlands

EHSC 3910 – Internship in EHS (field experience)

- The field experience will be completed *no earlier than the student's junior or senior year.*
- The student will arrange for the field experience to be completed during one semester for a minimum of 3 credit hours.
 - An additional 3 hours, once approved, may count towards non-EHSC electives.
 - Students may earn up to 9 hours of EHSC 3910, but only 6 hours may count towards the degree.
- *Students must be registered for the class and complete the internship in the same semester.*

Review the internship process below:

1. Students review their individual eligibility via the EHS website.
2. Students work with the EHS Field Experience Coordinator to identify a position that meets their personal interests and timetable. Required forms and process are available on the EHS website.
3. Once the internship forms are approved, students are granted permission to register for the course by the coordinator.
4. Students engage in internship activities, then submit all forms required to finish internship.

LEARN MORE HERE:



Additional Information:

-Many courses require prerequisites, please consult the the UGA Bulletin at <https://bulletin.uga.edu/> .

-**Important:** Additional undergraduate classes may be needed for students pursuing pre-professional pathways (i.e. pre-med, pre-PA, pre-dental, pre-law, etc.). It is important that students review the admission criteria of their intended graduate professional program well in advance. Students are advised to meet with their intended graduate pre-professional advisor to ensure they are meeting all graduate application requirements, as well as reviewing their graduate application strategy and timeline.

Learn more about the Pre-Professional Advising Office at <https://ppao.uga.edu/> .

-Research for Credit

Research at UGA is a student-driven process. Students are responsible for identifying their preferences and working independently with faculty during this process. Consult with your academic advisor to learn about where credit may fall in your degree plan.

Learn more on the CURO site here: <https://curo.uga.edu/> .

EHSC 3700/4960R – Research

- Enrolling in a research course requires approval and registration clearance from the student's faculty mentor.
- Up to 6 credit hours of research may be used as non-EHSC major electives.

-Double Dawgs students

Once accepted to the Double Dawgs pathway, students may enroll in Double Dawg graduate level courses.

Work with the Double Dawg Advisor for your individualized plan.