

What can I do with a degree in...

ENVIRONMENTAL SCIENCE?

What is ENVIRONMENTAL SCIENCE?

Environmental problems do not come neatly packaged according to academic discipline. Solving them requires thinking across those categories, integrating perspectives from biology, chemistry, public health, policy and more. Majoring in environmental science prepares the student to explore the relationships between humans and their environment in a proactive manner. The student employs problem-solving methods, data-search strategies, analysis, evaluation, and prediction in the study of complex environmental issues.

WCU's Environmental Science Program gives you the opportunity to develop expertise in evaluating human effects on the environment and in promoting and implementing sustainable restoration of land and water ecosystems. Many environmental science students enter the program knowing the aspect of the environment they wish to pursue while others discover their primary interests after being exposed to the different disciplines that contribute to the major, the Bachelor of Science (B.S.) in Environmental Sciences. Many students choose biology, geology, or natural resource management as a minor.

What are the DEGREE OPTIONS?

Bachelor of Science (B.S.) in Environmental Science

What is the ADMISSION PROCESS?

Students declare a major in Environmental Science with the Advising Center, located in Killian Annex. Please make an appointment with your advisor via your MyWCU.



What JOBS ARE AVAILABLE?

Depending on the concentration and other qualifications, our graduates are prepared to become a variety of professionals including educators, climatologists, entomologists, environmental regulation compliance officers, environmental monitors and conservationists, environmental consultants, energy auditors and planners, geographers, green program developers, hydrologists, mineralists, sustainability planners, wildlife biologists, environmental policy makers, and environmental lobbyists. **NOTE:** Advanced degrees may be required for some of the listed professions. Please see a career counselor or Environmental Science advisor for more information.

Who employs ENVIRONMENTAL SCIENCE graduates?

Many of our graduates often work with the Environmental Protection Agency (EPA), environmental consulting firms, manufacturing businesses, conservation and energy organizations, watershed associations, state and federal land management agencies, and other government agencies.

MAJOR MAP

How to use this map: Review the four categories and suggestions of activities and when you should consider engaging in them. Remember, these are just suggestions! There is a fillable space for you to add in any other ideas you have to set yourself up for success in life after college.

1st YEAR

2nd YEAR

EXCEL IN ACADEMICS

Many first-year students in the Environmental Science major will focus on the liberal studies requirements as well as introductory environmental science courses. [Check out the 8-semester plan](#) and make an appointment with your advisor.

Students in their second year will likely continue with liberal studies electives as well as interdisciplinary studies. [Check out the 8-semester plan](#) and make an appointment with your advisor.

GET HANDS-ON EXPERIENCE

Check out [WCU's DegreePlus program](#) and choose which events in any of the four categories you want to attend. Categories include: Professionalism, Teamwork, Leadership, or Cultural Responsiveness.

See what on-campus employment opportunities are available by logging in to JobCat via your MyWCU.

Get involved with the E.C.O. Cats or the Sustainable Energy Initiative student committee at WCU.

If you are thinking about attending a graduate school, start engaging in hands-on experiences required in graduate school admissions.

Engage deeper with [DegreePlus](#); choose an additional competency to complete

BE PART OF THE COMMUNITY

Connect with the [Center for Service Learning](#) and ask about the [Lily Award](#), a program aimed to encourage students to be connected with their community.

Job shadow with professionals in the career area you wish to pursue.

Volunteer with area non-profits or organizations which interest you.

Consider the [study abroad programs related to environmental science](#) Talk with a study abroad advisor about targeted experience for your concentration.

PREPARE FOR LIFE AFTER COLLEGE

Further explore your career options or career interests using the [Center for Career and Professional Development's](#) online resources, [Focus 2](#), and [Onet Online](#).

Connect with a career counselor early on to explore opportunities and experiences you can do while in college to further develop your professional resume.

Check out [CCPD's list of career-building activities](#) and participate in an activity this year, such as attending Career Fair Plus.

Start a spreadsheet of graduate schools you wish to apply to in a few years with their admission requirements so that you are aware of the expectations.

Looking for a minor? Consider these options:

Anthropology
Biology
Chemistry

Environmental Health
Geography
Geology

Natural Resource Conservation

3rd YEAR

Third level courses focus on upper-level environmental science and special topics relating to your specific career path or your chosen minor. [Check out the 8-semester plan](#) and make an appointment with your advisor.

Consider internship experiences that will give you practical and hands-on experience to put on a resume.

Consider networking with professionals in your field at national or regional professional conferences such as the [North American Association for Environmental Education annual conference](#).

Develop deeper relationships with the organizations for which you volunteer. Ask for special projects or responsibilities that you can highlight on a resume.

Connect with alumni in your field through [LinkedIn](#)

Visit the CCPD to hone your professional resume and cover letter. Apply for internships. Utilize the [Writing and Learning Commons](#) for MCAT, GRE, and other professional exam preparation sessions. Use [Big Interview](#) to learn more about professional interviews.

Schedule a visit to tour medical/ graduate schools of your choice, if applicable.

4th YEAR

Courses in your final year will complete the environmental health and concentration courses, as well as your chosen general electives. Be sure to [check out the 8-semester plan](#) make an appointment with your advisor, complete your degree audit, and [apply for graduation!](#)

Investigate requirements for full-time jobs. Assess what skills or experiences you're lacking and invest time in seeking additional opportunities such as certification programs, classes, or professional development workshops during your last year to fill that gap. Connect with your faculty advisor or career counselor.

Join professional Environmental Science organizations such as the [North American Association for Environmental Education](#) or the [Ecological Society of America](#).

Network with employers and non-profits at the annual Career Fair Plus event, held each October and February.

Apply to graduate schools, if applicable.

Look for and [apply for jobs](#) between 4 and 6 months before graduation.

Polish your resume, cover letter, and interview skills by using the [CCPD](#).

Internships are still the number-one educational experience employers look for in a recent college graduate resume. (Chronicle of Higher Education's study on 59,000 employers)

DID YOU KNOW?

MORE INFORMATION

INTERNSHIP Information

At Western Carolina University there are numerous internship opportunities for students. In some cases internships are established through a faculty member in the student's major. Oftentimes students find part-time jobs in an area related to their field of study. When this happens, students should discuss with their academic advisor the possibility of receiving college credit. Generally, three hours of general elective credit can be earned for a minimum of 200 hours of experience.

SKILLS LEARNED in the classroom

The core competencies will center on developing skills, knowledge, and attitudes such as:

- independent thinking
- information handling
- critical thinking and evaluation
- problem solving
- observation
- data collection
- written and oral communication
- professional teamwork
- analytical reasoning and interpretation
- curiosity and creativity
- statistical analysis and awareness
- research skills

KNOWLEDGE Base

This program will prepare students to:

- learn, understand and interpret information and apply knowledge to new situations
- set priorities, meet deadlines and effectively plan/manage time, data and resources
- Problem-solve and make well-reasoned decisions, think creatively and search for, identify and consider all sides of an issue
- analyze and interpret a wide range of statistics and data to discuss support and/or reject ideas, opinions, reports, theories and proposals

Professional **RESOURCES**

- Ecological Society of America: www.esa.org
- Environmental Protection Agency: www.epa.gov
- North American Association for Environmental Education: naaee.org
- Student Conservation Association: www.thesca.org
- Wildlife Society: wildlife.org

QUESTIONS?

For questions, please call the Environmental Science program at 828-227-2939 or visit environmentalscience.wcu.edu.

To schedule an appointment with a career counselor, contact the Center for Career and Professional Development, 828-227-7133 or careerservices@wcu.edu.