

Bachelor of Science in Environmental Science

Howard University

College of Arts & Sciences

Catalog: Fall 2025 – Present

Quick Summary - What You Need to Graduate

Total Credits 120	Minimum GPA 2.0	Major Credits 42	Last 30 Credits At Howard
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Your Degree Breakdown:

- Major Requirements: 42 Environmental Science/Studies credits (approximately 10-11 courses)
- General Education: 30+ credits (approximately 15 courses)
- Chemistry: 4 credits (1 courses)
- Physics: 3-5 credits (1 course)
- Math Requirements: 4 credits (1 courses)
- Free Electives: Remaining credits to reach 120 (varies by track)
- Complete all 7 ELOs (can overlap with courses)
- COAS Experiential (1 course) & COAS Innovative Learning (1 course)
- Undergraduate Comprehensive Exam

Important: Double-Dipping Made Simple!

One course can fulfill BOTH a General Education requirement AND an Essential Learning Outcome (ELO) at the same time. You don't need separate courses for each! This helps you graduate efficiently without taking extra classes.

Major credits **cannot** be double dipped with minor credits. While students are not required to declare a minor, those who choose to do so must complete **15–18 credits that are not applied toward their major requirements**. Minor coursework must remain distinct and separate from major coursework.

University-Wide Requirements

- **Minimum GPA:** 2.0 for all undergraduate coursework
- **Residency:** Complete last 30 credits at Howard University
- **Exit Requirement:** Undergraduate Comprehensive Exam
- **Total Credits:** 120 credits required

General Education Requirements (30+ Credits / ~15 Courses)

Essential Learning Outcomes (ELOs)

Students must complete courses covering all seven outcome areas. Remember, these can overlap with other requirements!

- **ELO 1:** U.S. and Global African Diasporic Developments
- **ELO 2:** Human Cultures and Creative Expression
- **ELO 3:** The Physical and Natural World
- **ELO 4:** Intellectual and Practical Skills
- **ELO 5:** Social Responsibility and Political Institutions
- **ELO 6:** Leadership and Applied Learning
- **ELO 7:** Comprehensive Wellness Practices

Note: ELO courses are tagged in Bison Hub under the course description

Freshman Experience (1 Credit / 1 Course)

- **FRSM 001** - Freshman Seminar (1 credit)

Core Writing & Communication (12 Credits / 4 Courses)

4 courses needed (each 3 credits)

- **ENGW 101, 102, or 104** - First-Year English Writing I (3 credits)
- **ENGW 103 or 105** - First-Year English Writing II (3 credits)
- **Third Writing Course** - Upper-level writing (3 credits)
- **Principles of Speech** - (3 credits)

Health & Wellness (2 Credits / 1-2 Courses)

1-2 courses needed

- **One/Two Credit HHPL Courses** - Health, Human Performance, and Leisure (1 credit each)

Cultural and Global Awareness (12 Credits / 4 Courses)

- **African American Cluster Course** - 1 course (3 credits)
- **Foreign Language** - 3 courses (9 credits total, same language)
(3 credits can be an intercultural knowledge)

Humanities & Social Sciences (12 Credits / 4 Courses)

- **Two Humanities Courses** - 2 courses (6 credits). *Must be from 2 different departments.*
- **Two Social Science Courses** - 2 courses (3 credits each). *Must be from 2 different departments.*

Mathematics Requirements (4 Credits / 1 Courses)

Required Course (1 course):

- **MATH 007** - Pre-Calculus (4 credits)

Science Requirements (8 Credits / 2 Course)

- CHEM 003** - General Chemistry I (4 credits)
- BIOL 101**- General Biology I (4 credits)

COAS Special Requirements

Experiential Learning (1 course required)

Examples of COAS Experiential Learning Course but are not limited to:

- Any 890 course
- EEED 470
- Internships
- Study abroad

Innovative Learning Requirement (1 course required)

- Complete at least one course marked as 'innovative'

Quantitative Reasoning (1 course required)

- Math 009
- BIOL 430
- Math 012
- Math 014
- EEED 320

Note: COAS Special Requirements courses are tagged in Bison Hub under the course description

Total Environmental Science Major Requirements (41-43 Credits / 12-13 Courses)

Foundation Courses (19-21 Credits / 6 Courses)

- **BIOL 102** - General Biology II (4 credits)
- **PHYS 001 / PHYS 013** – PHYS 001 (5 credits) OR PHYS 013 (3 credits) (Recommended)
- **EEED 101** – Intro to Environmental Studies
- **EEED 180** – Global Climate Change
- **EEED 204** – Science & Public Policy
- **EEED 199** – Environmental Inequality

Additional Requirements and Electives (22 Credits / ~6-7 Courses)

- **Environmental Science Electives** – 16 Credits
- **Environmental Studies Electives** – 6 Credits

Free Electives

Remaining credits to reach 120 total (varies based on math track and elective choices)

Sample Degree Progress Checklist

Always consult with your academic advisor for personalized guidance

Freshman Year (31 Credits)

Fall Semester (14 Credits)

- FRSM 001 - Freshman Seminar (1 credit)
- ENGW 101/102/104 - First-Year Writing I (3 credits)
- BIOL 101 - General Biology I (4 credits)
- EEED 101 – Environmental Studies (3 credits)
- Social Science (3 credits)

Spring Semester (17 Credits)

- ENGW 103/105 - First-Year Writing II (3 credits)
- BIOL 102 - General Biology II (4 credits)
- CHEM 003 - General Chemistry I (4 credits)
- EEED 199 – Environmental Inequality (3 credits)
- Social Science (3 credits)

Sophomore Year (30 Credits)

Fall Semester (14 Credits)

- Math 007 – Pre-Calculus (4 credits)
- EEED 180 – Global Climate Change (4 credits)
- Foreign Language I (3 credits)
- Humanities Course (3 credits)

Spring Semester (16 Credits)

- EEED 204 Science & Public Policy (3 credits)
- Third Writing- (any 700-level or Technical Writing course) (3 credits)
- Math 009 or BIOL 430 (4 credits) *Quantitative Skills*
- Foreign Language II (3 credits)
- Free Elective (3 credits)**

Junior Year (31-32 Credits)

Fall Semester (17-18 Credits)

- PHYS 001 / PHYS 013 - Physics I (3-5 credits)
- Experiential Learning Elective (3 Credits)
- Foreign Language III (3 credits)
- Environmental Studies Elective (3 credits)
- Humanities Course (3 credits)

Spring Semester (14 Credits)

- Environmental Science Elective (6-8 credits) 2 Courses
- Oral Communications (3 credits)
- African Diasporic Cluster (3 credits)
- HHPL Activity Course (1 or 2 credits)

Senior Year (27-28 Credits)

Fall Semester

- Environmental Science Elective (6-8 credits) 2 Courses
- Environmental Studies Elective (3 credits)
- COAS Innovative Learning (if not completed)
- Free Electives as needed to reach 120 credits
- Take Undergraduate Comprehensive Exam

Spring Semester

- Remaining Environmental Science electives to reach 16 credit hours
- Free Electives as needed to reach 120 credits
- Apply for graduation

Key Requirements Summary

- **Minimum Overall GPA:** 2.0
- **Credits in Environmental Science:** 36 minimum
- **Residency:** Last 30 credits at Howard University
- **Laboratory Science:** Extensive lab requirements in Chemistry

Important Notes for Success

- **Experiential Learning:** Can often be satisfied through 890 courses, internships, etc. Please speak with your advisor for all options.
- **ELO Requirements:** Many built in general electives will automatically satisfy ELO requirements.
- **Advisor Consultation:** Consult with your academic advisor each semester for course planning.

- **Scholarship Requirements:** Students are required to successfully pass a minimum of 15 credits each semester. There is an exception for students in their final term to take less than 15 credits and still be awarded their scholarship.
- **Freshman** 0-29 completed credits
- **Sophomore:** 30-59 completed credits
- **Junior:** 60-89 completed credits
- **Senior:** 90 or more completed credits

Resources & Support

- **Academic Advisor:** Contact Office of Undergraduate Studies for assignment
- **Department Office:** Earth, Environment, and Equity Department, College of Arts & Sciences
- **Pre-Health Advising:** Available for students interested in medical/dental/veterinary school.
- **Research Opportunities:** Speak with faculty about laboratory research positions

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Earth, Environment and Equity Department | Catalog: Fall 2025 - Present

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