

Program map for Environmental Science Associate in Science - Transfer (AS-T)



2025-26

Today's environmental problems call for people who are educated in more than one discipline, highly trained in scientific and technical skills, and aware of the ecological, political, economic, and social dimensions of environmental decisions. The Associate in Science-Transfer (AS-T) degree in Environmental Science provides a foundation in basic physical, biological, and social sciences, and also addresses the human element in environmental issues. This curriculum prepares students to transfer and complete a BS or BA in an Environmental Science field for subsequent graduate study in MS, PhD, and law degree programs and careers in government agencies or the private sector.

[View this program in the LCC Catalog \(lowercolumbia.edu/publications/catalog/programs/STEM-AST-Environmental-Science\)](http://lowercolumbia.edu/publications/catalog/programs/STEM-AST-Environmental-Science)

See also

- Degree Requirements for Science, Technology, Engineering and Math (STEM) programs (lowercolumbia.edu/programs/stem)
- Course descriptions in the LCC Catalog (lowercolumbia.edu/publications/catalog/courses)
- Distribution lists in the LCC Catalog (lowercolumbia.edu/publications/catalog/distribution-lists)

Important: Many course sequences only begin in fall quarter. Check with your program advisor.

By Quarter Overview

First Quarter

- COLL 101: College Success 101 (2 credits)
- CHEM& 161: General Chemistry w/ Lab I (5 credits)
- MATH& 141: Precalculus I (5 credits)

Second Quarter

- CHEM& 162: General Chemistry w/ Lab II (5 credits)

- ENVS& 100: Survey of Environmental Science (5 credits)
- MATH& 142: Precalculus II (5 credits)

Third Quarter

- CHEM& 163: General Chemistry w/ Lab III (5 credits)
- ENGL& 101: English Composition I (5 credits)
- Choose one:
 - ART& 100: Art Appreciation (5 credits)
 - CMST 250: Intercultural Communication (5 credits)
 - HIST& 126: World Civilization I (5 credits)
 - HUM 104: Ethics and Cultural Values (5 credits)
 - MUSC& 105: Music Appreciation (5 credits)

Fourth Quarter

- BIOL& 221: Majors Ecology/Evolution w/ Lab (5 credits)
- Choose one:
 - MATH& 151: Calculus I (5 credits)
- Choose one:
 - ANTH& 204: Archaeology (5 credits)
 - CDS 101: Intro to Addictions/Chemical Dependency (5 credits)
 - ECON 105: Introduction to Economics (5 credits)
 - HIST& 128: World Civilization III (5 credits)
 - POLS& 202: American Government (5 credits)
 - PSYC& 100: General Psychology (5 credits)
 - SOC& 101: Intro to Sociology (5 credits)

Fifth Quarter

- BIOL& 222: Majors Cell/Molecular w/ Lab (5 credits)
- MATH& 152: Calculus II (5 credits)
- Choose one:
 - ANTH& 206: Cultural Anthropology (5 credits)
 - ART& 100: Art Appreciation (5 credits)
 - CMST& 250: Intercultural Communication (5 credits)
 - HIST& 128: World Civilization III (5 credits)
 - HUM 104: Ethics and Cultural Values (5 credits)
 - HUM 210: Myths and Rites (5 credits)
 - SOC& 101: Intro to Sociology (5 credits)
 - GEOG 105: Physical Geography (5 credits)
 - OCEA& 101: Intro to Oceanography (5 credits)
 - BIOL& 260: Microbiology (5 credits)
 - ANTH& 100: Survey of Anthropology (5 credits)
 - ANTH& 205: Biological Anthropology (5 credits)

Sixth Quarter

- BIOL& 223: Majors Organismal Phys w/ Lab (5 credits)
- ENVS 215: Environmental Issues (5 credits)
- Choose one:
 - MATH& 153: Calculus III (5 credits)
 - MATH& 146: Introduction to Statistics (5 credits)

Detailed Class Sequence

1. College Success

COLL 101: College Success 101 (2 credits)

2. Pre-Major Requirement

CHEM& 161: General Chemistry w/ Lab I (5 credits)

- *Prerequisites: CHEM& 100 or high school chemistry and MATH 098.*

3. Prerequisite Coursework / Elective

MATH& 141: Precalculus I (5 credits)

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4. Pre-Major Requirement

CHEM& 162: General Chemistry w/ Lab II (5 credits)

- *Prerequisite: CHEM& 161*

5. Pre-Major Requirement

ENVS& 100: Survey of Environmental Science (5 credits)

6. Math Requirement

MATH& 142: Precalculus II (5 credits)

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7. Pre-Major Requirement

CHEM& 163: General Chemistry w/ Lab III (5 credits)

- *Prerequisite: CHEM& 162*

8. Humanities Requirement

Choose one of these recommended courses:

- ART& 100: Art Appreciation (5 credits)
- CMST 250: Intercultural Communication (5 credits)
- HIST& 126: World Civilization I (5 credits)
- HUM 104: Ethics and Cultural Values (5 credits)
- MUSC& 105: Music Appreciation (5 credits)

9. Communications Requirement

ENGL& 101: English Comp I (5 credits)

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10. Math Requirement

MATH& 151: Calculus I (5 credits)

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11. Pre-Major Requirement

BIOL& 221: Majors Ecology/Evolution w/ Lab (5 credits)

12. Social Science Requirement

Choose one of these recommended courses:

- ANTH& 204: Archaeology (5 credits)
- CDS 101: Intro to Addictions/Chemical Dependency (5 credits)
- ECON 105: Introduction to Economics (5 credits)
- HIST& 128: World Civilization III (5 credits)
 - *Fulfills [ROOT] requirement at WSU*
- POLS& 202: American Government (5 credits)
- PSYC& 100: General Psychology (5 credits)
- SOC& 101: Intro to Sociology (5 credits)

13. Pre-Major Requirement

BIOL& 222: Majors Cell/Molecular w/ Lab (5 credits)

14. Math Requirement

MATH& 152: Calculus II (5 credits)

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15. Diversity Requirement

Choose one of the following recommended courses:

- ANTH& 206: Cultural Anthropology (5 credits)
 - *Fulfills [DIVR] requirement at WSU*
- ART& 100: Art Appreciation (5 credits)
- CMST& 250: Intercultural Communication (5 credits)
 - *Fulfills [DIVR] requirement at WSU*
- HIST& 128: World Civilization III (5 credits)
 - *Fulfills [ROOT] requirement at WSU*
- HUM 104: Ethics and Cultural Values (5 credits)
- HUM 210: Myths and Rites (5 credits)
- SOC& 101: Intro to Sociology (5 credits)

16. Elective

Choose one:

- GEOG 105: Physical Geography (5 credits)
- OCEA& 101: Intro to Oceanography (5 credits)
- BIOL& 260: Microbiology (5 credits)
 - *Prerequisites: BIOL& 160 or BIOL& 222 with a grade of C or better or instructor permission.*
- ANTH& 100: Survey of Anthropology (5 credits)
- ANTH& 205: Biological Anthropology (5 credits)

17. Pre-Major Requirement

BIOL& 223: Majors Organismal Phys w/ Lab (5 credits)

18. Pre-Major Requirement

ENVS 215: Environmental Issues and Applications (5 credits)

19. Elective

Choose one:

- MATH& 146: Introduction to Statistics (5 credits)
- MATH& 153: Calculus III (5 credits)