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# Environmental Science - AS-T

## 2022-23

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

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.

See also: ( [lowercolumbia.edu/programs/stem](http://lowercolumbia.edu/programs/stem) )

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

***Please note that many course sequences only begin in fall quarter. Please check with your program advisor for more information.***

***Please review both the "By Quarter Overview" and "Detailed Class Sequence" tabs below.***

## By Quarter Overview

### First Quarter

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- COLL 101: College Success 101 (2 credits)
- CHEM& 161: General Chemistry w/ Lab I (5 credits)
- MATH& 142: Precalculus II (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)

### Second Quarter

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- CHEM& 162: General Chemistry w/ Lab II (5 credits)
- ENV5 150: Environment & Society (5 credits)
- MATH& 151: Calculus I (5 credits)

### Third Quarter

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- CHEM& 163: General Chemistry w/ Lab III (5 credits)
- MATH& 152: Calculus II (5 credits)
- ENGL& 101: English Composition I (5 credits)

### Fourth Quarter (Summer)

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- MATH& 153: Calculus III (5 credits)

### Fifth Quarter

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- BIOL& 221: Majors Ecology/Evolution w/ Lab (5 credits)
- MATH& 146: Introduction to Statistics (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)

### Sixth Quarter

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- BIOL& 222: Majors Cell/Molecular w/ Lab (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)
- Choose one:
  - 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)

### Seventh Quarter

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- BIOL& 223: Majors Organismal Phys w/ Lab (5 credits)
- ENV 215: Environmental Issues (5 credits)

- Choose one:
  - 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)

## Detailed Class Sequence

### 1. College Success

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COLL 101: College Success 101 (2 credits)

### 2. Pre-Major Requirement

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

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

### 3. Prerequisite Coursework / Elective

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MATH& 142: Precalculus II (5 credits)

- *Prerequisite: C or better in MATH& 141.*

### 4. Humanities Requirement

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Choose one of these recommended courses:

- ART& 100: Art Appreciation (5 credits)
- CMST 250: Intercultural Communication (5 credits)
  - *Fulfills [DIVR] requirement at WSU*
- HIST& 126: World Civilization I (5 credits)
  - *Fulfills [DIVR] requirement at WSU*
- HUM 104: Ethics and Cultural Values (5 credits)
- MUSC& 105: Music Appreciation (5 credits)

### 5. Pre-Major Requirement

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

- *Prerequisite: CHEM& 161*

### 6. Pre-Major Requirement

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ENVS 150: Environment and Society (5 credits)

## 7. Math Requirement

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MATH& 151: Calculus I (5 credits)

- *Prerequisite: MATH& 142 with a grade of C or better.*

## 8. Pre-Major Requirement

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

- *Prerequisite: CHEM& 162*

## 9. Math Requirement

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MATH& 152: Calculus II (5 credits)

- *Prerequisite: MATH& 151 with a grade of C or better.*

## 10. Communications Requirement

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ENGL& 101: English Comp I (5 credits)

- *Prerequisites: College level reading and writing skills or completion of ENGL 099 or TECH 105 with a grade of C or better.*

## 11. Math Requirement

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MATH& 153: Calculus III (5 credits)

- *Prerequisite: MATH& 152 with a grade of C or better.*

## 12. Pre-Major Requirement

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

## 13. Pre-Major Requirement

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MATH& 146: Introduction to Statistics (5 credits)

## 14. Social Science Requirement

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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)

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## 15. Pre-Major Requirement

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

- *Prerequisite: BIOL& 221 with 2.0 or better.*

## 16. Diversity Requirement

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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)

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## 17. Elective

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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)

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## 18. Pre-Major Requirement

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

- *Prerequisite: BIOL& 222 with 2.0 or better.*

## 19. Pre-Major Requirement

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ENVS 215: Environmental Issues and Applications (5 credits)

- *Prerequisites: ENGL& 101 or consent of instructor.*

## 20. Elective

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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)

## ( [lowercolumbia.edu/program-maps/stem](http://lowercolumbia.edu/program-maps/stem) ) Program Maps for Science, Technology, Engineering and Math (STEM) ( [lowercolumbia.edu/program-maps/stem](http://lowercolumbia.edu/program-maps/stem) )

- Bioengineering and Chemical Pre-Engineering - AS-T (Bioengineering Option) ( [lowercolumbia.edu/program-maps/stem/AST-Bioengineering-and-Chemical-Pre-Engineering-Bioengineering-Option](http://lowercolumbia.edu/program-maps/stem/AST-Bioengineering-and-Chemical-Pre-Engineering-Bioengineering-Option) )
- Bioengineering and Chemical Pre-Engineering - AS-T (Chemical Engineering Option) ( [lowercolumbia.edu/program-maps/stem/AST-Bioengineering-and-Chemical-Pre-Engineering-Chemical-Option](http://lowercolumbia.edu/program-maps/stem/AST-Bioengineering-and-Chemical-Pre-Engineering-Chemical-Option) )
- Biological Sciences - AS-T ( [lowercolumbia.edu/program-maps/stem/AST-Biological-Sciences](http://lowercolumbia.edu/program-maps/stem/AST-Biological-Sciences) )
- Biology - DTA/MRP ( [lowercolumbia.edu/program-maps/stem/DTA-MRP-Biology](http://lowercolumbia.edu/program-maps/stem/DTA-MRP-Biology) )
- Chemistry - AS-T ( [lowercolumbia.edu/program-maps/stem/AST-Chemistry](http://lowercolumbia.edu/program-maps/stem/AST-Chemistry) )
- Computer and Electrical Pre-Engineering - AS-T (2 Year Option) ( [lowercolumbia.edu/program-maps/stem/AST-Computer-and-Electrical-Pre-Engineering-2-year](http://lowercolumbia.edu/program-maps/stem/AST-Computer-and-Electrical-Pre-Engineering-2-year) )
- Computer and Electrical Pre-Engineering - AS-T (3 Year Option) ( [lowercolumbia.edu/program-maps/stem/AST-Computer-and-Electrical-Pre-Engineering-3-year](http://lowercolumbia.edu/program-maps/stem/AST-Computer-and-Electrical-Pre-Engineering-3-year) )
- Computer Science - AST ( [lowercolumbia.edu/program-maps/stem/AST-Computer-Science](http://lowercolumbia.edu/program-maps/stem/AST-Computer-Science) )
- Computer Science - AST (WSUV) ( [lowercolumbia.edu/program-maps/stem/AST-Computer-Science-WSU-V](http://lowercolumbia.edu/program-maps/stem/AST-Computer-Science-WSU-V) )
- Earth Sciences - AA-DTA ( [lowercolumbia.edu/program-maps/stem/AADTA-Earth-Sciences](http://lowercolumbia.edu/program-maps/stem/AADTA-Earth-Sciences) )
- Earth Sciences - AS-T ( [lowercolumbia.edu/program-maps/stem/AST-Earth-Sciences](http://lowercolumbia.edu/program-maps/stem/AST-Earth-Sciences) )
- Environmental Science - AS-T ( [lowercolumbia.edu/program-maps/stem/AST-Environmental-Science](http://lowercolumbia.edu/program-maps/stem/AST-Environmental-Science) )
- Mechanical, Civil, Aeronautical, Industrial, Materials Science Engineering (2 Year Option) ( [lowercolumbia.edu/program-maps/stem/AST-Mechanical-Civil-Aeronautical-Industrial-Materials-Science-Engineering-2-year](http://lowercolumbia.edu/program-maps/stem/AST-Mechanical-Civil-Aeronautical-Industrial-Materials-Science-Engineering-2-year) )
- Mechanical, Civil, Aeronautical, Industrial, Materials Science Engineering (3 Year Option) ( [lowercolumbia.edu/program-maps/stem/AST-Mechanical-Civil-Aeronautical-Industrial-Materials-Science-Engineering-3-year](http://lowercolumbia.edu/program-maps/stem/AST-Mechanical-Civil-Aeronautical-Industrial-Materials-Science-Engineering-3-year) )
- Physics - AS-T ( [lowercolumbia.edu/program-maps/stem/AST-Physics](http://lowercolumbia.edu/program-maps/stem/AST-Physics) )
- Physics - AS-T (Math Transfer Option) ( [lowercolumbia.edu/program-maps/stem/AST-Physics-Math-Transfer-Option](http://lowercolumbia.edu/program-maps/stem/AST-Physics-Math-Transfer-Option) )