

## Environmental Science: Policy and Communication Option

### Bachelor of Science (BS)

# Policy and Communication Option

Environmental quality is fundamental to our quality of life.

Environmental science seeks to preserve and improve our environment for ourselves and future generations.

Environmental science is a unique academic program at Southeast. It is an inter-departmental, interdisciplinary degree program based in the College of Science, Technology, Engineering and Mathematics. Environmental science is a diverse, hybrid field of study that is based upon strong training in the natural sciences, mathematics, law, economics and health.

The curriculum for the B.S. in Environmental Science consists of a core of approximately 60 credit hours and 20-30 additional credit hours in one of six degree option areas. All students complete internships and/or research participation. This broad-based education and training provide multiple opportunities for graduates in the growing environmental field.

#### Environmental science students will...

- Complete a science-intensive interdisciplinary curriculum providing a foundation for addressing environmental issues of today and the future.
- Study in modern classrooms and laboratories in the newly remodeled Magill Hall.
- Gain valuable professional and personal experience through internships and/or research participation.
- Be well prepared to directly enter career positions in the environmental field or to successfully pursue post-baccalaureate education programs.
- Develop the competencies to become professional and community leaders in an effort to develop a sustainable society.

#### Becoming Career Ready...

/ Faculty-mentored research and guidance will help you develop the professional skills needed for success in a competitive job market and/or advanced study in graduate and professional programs. Students will learn to integrate the art of policy analysis and governmental agenda management with environmental science.

/ The Environmental Science: Policy and Communications option program prepares graduates for multiple opportunities in the growing emergency management field. Example job titles include policy analyst, policy advisor, water district manager, environmental lawyer, and program coordinator.

/ 100% of Southeast programs offer real-world experience. Environmental Science: Policy and Communications option students earn this through completing a required internship and/or research participation with local, state or federal lawmakers, appointed policy advisors or private activist or philanthropic group.

/ The path to a successful career starts with you! You can maximize your career development by working closely with Career Services and Southeast faculty – they are here to help you connect your passions, interests and skills to jobs and opportunities in the field. Career Services provides professional career counseling and coaching, resume critiques, practice interviews, job search strategies, career events, networking opportunities and more.

#### Internship, Employment and Post-Baccalaureate Opportunities of Recent Graduates:

- U.S. Environmental Protection Agency
- Missouri Department of Conservation
- U.S. Green Building Council
- Centers for Disease Control and Prevention
- Illinois Natural History Survey
- A.T. Still University School of Osteopathic Medicine
- Science Applications International Corporation
- Missouri Department of Natural Resources
- Saint Louis University School of Law
- U.S. Fish and Wildlife Service
- Southern Illinois University - Edwardsville
- CH2M Hill Inc.
- KRCU National Public Radio
- Missouri Botanical Garden
- Emory University
- Burns & McDonnell Engineering Co. Inc.
- Illinois Environmental Protection Agency
- St. Louis County Department of Health
- U.S. Army Corps of Engineers
- Saint Louis Zoological Park

#### Special Options with Environmental Science

Southeast offers a Master of Science in Environmental Science.

#### Transfer and Dual Credit Students

If you have dual credit or transfer credit, please visit our transfer course equivalencies guide at [semo.edu/transfercredit](https://semo.edu/transfercredit).

*This program could lead to licensure or certification. However, Southeast's program either does not meet, or we cannot determine if it meets, the licensure or certification requirement in all states. Please consult our State Authorization page, Licensure tab, to determine information specific to your state:*  
<https://semo.edu/online/student-resources/stateauth.html>.

**To learn more**  
 Office of Admissions  
 (573) 651-2590  
[admissions@semo.edu](mailto:admissions@semo.edu)  
[semo.edu](http://semo.edu)

**To explore**  
 the College of Science,  
 Technology, Engineering and  
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[semo.edu/stem](http://semo.edu/stem)

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[semo.edu/advising](http://semo.edu/advising)

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This is a guide based on the 2021-2022 Undergraduate Bulletin and is subject to change. The time it takes to earn a degree will vary based on several factors such as dual enrollment, remediation, and summer enrollment. Students will meet with an academic advisor each semester and use Degree Works to monitor their individual progress.

### CURRICULUM CHECKLIST

#### Environmental Science: Policy & Communication

##### Option – 79-83 Hours

- \_\_\_ BI163 Evolution & Ecology (4)
- \_\_\_ BI332 General Ecology (3)
- \_\_\_ BS105 Environmental Biology (3)
- \_\_\_ CH184 General Chemistry I Lab (1)
- \_\_\_ CH185 General Chemistry I (3)
- \_\_\_ CH 186 General Chemistry II (3)
- \_\_\_ EC344 Environmental Economics (3)
- \_\_\_ EN190 Writing & the Environment (3)
- \_\_\_ EV201 Environmental Science Seminar I (1)
- \_\_\_ EV400 Health Physics (3)
- \_\_\_ EV401 Environmental Science Seminar II (1)
- \_\_\_ EV454 Risk Assessment Applications (3)
- \_\_\_ EV481-483 Internship (3)  
OR
- \_\_\_ EV491-493 Research (3)
- \_\_\_ EV xxx EV Course (300-500 level) (3)
- \_\_\_ GO110 Physical Geology (3)
- \_\_\_ GO365 Environmental Soil Science (3)
- \_\_\_ GO460 Environmental Hydrology (3)
- \_\_\_ MA139 Applied Calculus (3)  
OR
- \_\_\_ MA140 Analytical Geometry & Calculus I (5)
- \_\_\_ MA223 Elementary Probability & Statistics (3)
- \_\_\_ PH106 Physical Concepts (3)  
OR
- \_\_\_ PH120 Introductory Physics I (5)
- \_\_\_ UI429 Environmental Ethics (3)
- Policy & Communication Option Courses:**
- \_\_\_ IU309 Writing for Science & Technology (3)
- \_\_\_ PS230 American Public Policy (3)  
OR
- \_\_\_ PS280 Introduction to Global Issues (3)
- \_\_\_ PS418 Public Policy Analysis (3)
- \_\_\_ PS491 Topics in Political Science (3)
- \_\_\_ SC200 Advanced Public Speaking (3)
- \_\_\_ UI386 Environmental Health (3)
- \_\_\_ UI387 Environmental Law & Public Policy (3)

**General Education Requirements** – some requirements may be fulfilled by coursework in major program

- Social and Behavioral Sciences – 6 hours
- Constitution Requirement – 3 hours
- Written Communication – 6 hours
- Oral Communication – 3 hours
- Natural Sciences – 7 hours (from two disciplines, one to include a lab)
- Mathematics – 3 hours
- Humanities & Fine Arts – 9 hours (from at least two disciplines)
- Additional requirements – 5 hours (to include UI100 for native students)
- Civics examination

### SAMPLE FOUR-YEAR PLAN

	Fall Semester		Spring Semester	
	Course #	Hrs	Course #	Hrs
<b>FIRST YEAR</b>	UI100	1	BI163	4
	EN100	3	CH184/CH185	4
	BS105	3	EN190	3
	General Education	3	General Education	3
	General Education	3		
	General Education	3		
<b>Total</b>	<b>16</b>		<b>Total</b>	<b>14</b>
Milestone: maintain 2.0 cumulative GPA				
<b>SECOND YEAR</b>	CH186	3	BI332	3
	MC201	3	EC344	3
	SC200	3	EV201	1
	General Education	3	GO110/010	3
	General Education	3	UI386	3
			General Education	3
<b>Total</b>	<b>15</b>		<b>Total</b>	<b>16</b>
Milestone: maintain 2.0 cumulative GPA				
<i>(Summer courses are encouraged to avoid semesters exceeding 15 hours.)</i>				
<b>THIRD YEAR</b>	GO365	3	EV400	3
	MA139/MA140	3-5	EV454	3
	PH106/PH120	3-5	GO460	3
	PS230/PS280	3	IU309	3
	Elective	3	MA223	3
	<b>Total</b>	<b>15-19</b>		<b>Total</b>
Milestone: maintain 2.0 cumulative GPA				
<b>FOURTH YEAR</b>	PS418	3	EV401	1
	UI387	3	PS491	3
	EV Intern/Research	3	UI429	3
	Elective	3	EV elective	3
	Elective	3	Elective	4-5
	<b>Total</b>	<b>15</b>		<b>Total</b>
Milestone: maintain 2.0 cumulative GPA				

A "Milestone" signifies a significant stage for a student in the completion of a degree.

**Degree requirements for all students:** a minimum of 120 credit hours, completion of the General Education program, and completion of 39 senior division hours (300-599). Refer to the Undergraduate Bulletin or Degree Works for additional graduation requirements for your program.

A minimum 2.0 GPA in the major and overall are required to graduate with a B.S. degree.

Revised  
2/26/2021