

**Program Coordinator:** Jean Watts

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**Program Website:** <https://bluegrass.kctcs.edu/education-training/program-finder/environmental-science-technology.aspx>

**Student Name:**

**Student ID:**

*Students must meet college readiness benchmarks as identified by the Council on Postsecondary Education or remedy the identified skill deficiencies.*

First Semester	Credit Hours	Term	Grade	Prerequisites	Notes
ENG 101 Writing I*	3				
EST 150 Introductory Ecology*	4				
MAT 150 College Algebra*	3				Must earn C or better in MAT 150 to take CHE 170
BIO 112 Introduction to Biology*	3				
Digital Literacy	3				
<b>Total Semester Credit Hours</b>	<b>16</b>				

Second Semester	Credits	Term	Grade	Prerequisites	Notes
ENG 102 Writing II*	3				
COM 181 Basic Public Speaking OR COM 252 Introduction to Interpersonal Communications*	3				
CHE 170 General College Chemistry I*	4			C or better in MAT 150	
CHE 175 General College Chemistry Laboratory I*	1			Coreq: CHE 170	
EST 160 Hydrologic Geology*	3				
EST 161 Hydrologic Geology Lab*	1			Pre/Coreq: EST 160	
<b>Total Semester Credit Hours</b>	<b>15</b>				

Third Semester	Credits	Term	Grade	Prerequisites	Notes
Heritage or Humanities course*	3				
EST 220 Pollution of Aquatic Ecosystems	3				
EST 230 Aquatic Chemistry Lab	2			EST 150, EST 160, CHE 170 and CHE 175	
EST 240 Sources and Effects of Air Pollution	4			EST 150	
Social and Behavioral Sciences course*	3				
<b>Total Semester Credit Hours</b>	<b>15</b>				

Fourth Semester	Credits	Term	Grade	Prerequisites	Notes
EST 170 Environmental Sampling Laboratory	2			EST 150	
EST 250 Solid and Hazardous Waste Management	3			EST 150 and EST 160	
EST 260 Environmental Analysis Laboratory	2			CHE 170 and CHE 175	
EST 270 Environmental Law and Regulation	3			Pre/Coreq: EST 220, EST 240, EST 250	
EST 290 Applied Projects in Environmental Science Technology	2			Consent of program coordinator	
Technical Elective	3				
<b>Total Semester Credit Hours</b>	<b>15</b>				
<b>Total Degree Credit Hours</b>	<b>61</b>				

**Graduation Requirements:** ☐ 25% or more of Total Degree Credit Hours must be earned at BCTC

**Advisor Name** ☐ Cumulative GPA must be 2.0 or higher

**Advisor Contact** \_\_\_\_\_

### Additional Information

\* This course satisfies a General Education requirement for the Associate in Science degree.

All EST courses, except EST 160, are only taught once per year. See the Course Rotation Schedule below.

### EST Course Rotation Schedule

	Fall	Spring
EST 150 Introductory Ecology	X	
EST 160 Hydrologic Geology	X	X
EST 161 Hydrologic Geology Lab		X
EST 170 Environmental Sampling Laboratory		X
EST 220 Pollution of Aquatic Ecosystems	X	
EST 230 Aquatic Chemistry Laboratory	X	
EST 240 Sources and Effects of Air Pollution	X	
EST 250 Solid and Hazardous Waste Management		X
EST 260 Environmental Analysis Laboratory		X
EST 270 Environmental Law and Regulation		X
EST 290 Applied Projects in Environmental Science Technology		X

### Technical Electives

Course	Cr. Hrs.	Prerequisite
ACH 195 Computer Aided Drafting I	3	
BTN 101 Introduction to Biotechnology	1	
BTN 201 Biotechnology Techniques I	4	A semester of college biology or chemistry with lab
BTN 202 Biotechnology Techniques II	4	BTN 201
CAD 100 Intro to Computer Aided Design	3	Satisfies Digital Literacy requirement
CHE 180 General College Chemistry II*	4	CHE 170 with C or better, MAT 150 with C or better
CHE 185 General College Chemistry Lab II*	1	CHE 175 with C or better, Coreq: CHE 180
CIT 234 Advanced Productivity Software	3	CIT 130
COE 199 Cooperative Education (Internship) .	1 – 3	
ECO 201 Principles of Microeconomics* ..	3	
ENG 203 Business Writing	3	ENG 101 and ENG 102
ENG 204 Technical Writing	3	ENG 101 and ENG 102
EST 299 Selected Topics in EST ..	1 – 3	Instructor Consent Required
GLY 101 Physical Geology*	3	Coreq: GLY 111
GLY 111 Physical Geology Laboratory*	1	Coreq: GLY 101
PHY 151 Introductory Physics I*	3	
STA 210 Making Sense of Uncertainty: An Introduction to Statistical Reasoning*	3	
Other courses approved by the Environmental Science Technology Program Coordinator	1 – 3	