

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				
Total Semester Credit Hours	16				

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	
Total Semester Credit Hours	15				

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				
Total Semester Credit Hours	15				

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				
Total Semester Credit Hours	15				
Total Degree Credit Hours	61				

 Graduation Requirements: 25% or more of Total Program 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	