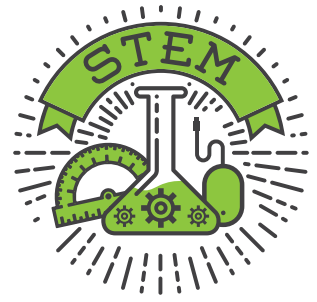


# STEM PATHWAY BRIEF

## ENVIRONMENTAL PROTECTION AND SUSTAINABILITY



### OVERVIEW

It is estimated that Louisiana lost nearly 1868 square miles of coastal land between 1932 and 2010. In the next five decades, the Louisiana coast is expected to lose another 700 square miles. The rapidly eroding coast line poses a threat to major LA industries such as oil and gas as well as fishing.

The Environmental Protection and Sustainability Pathway has been established to provide students with the knowledge and skills necessary to provide solutions to combat coastal erosion as well as to prepare them for the workforce that will be tasked with implementing these solutions. High demand jobs associated with this pathway include Environmental Engineers that can create plans for sediment diversion as well as the Environmental Technicians who would be monitoring diversion projects for compliance. The ultimate goal of this pathway is to allow students the opportunity to understand the geology and ecology that is specific to our coastline in order to prepare for the future of our state.

College Ready	Career Ready
<ul style="list-style-type: none"><li>• Animal Science</li><li>• Coastal Environmental Science</li><li>• Conservation Scientist</li><li>• Ecological Restoration</li><li>• Environmental Geology</li><li>• Environmental Engineer</li><li>• Environmental Science and Research</li><li>• Geographic Environmental Science</li><li>• Plant and Soil Systems</li><li>• Wetland Science</li><li>• Wildlife Ecology</li><li>• Wildlife Habitat Conservation</li></ul>	<ul style="list-style-type: none"><li>• Compliance Officer</li><li>• Environmental Technicians</li><li>• Surveying and Mapping Technician</li><li>• Wastewater Distribution Operator</li><li>• Wastewater Treatment Operator</li><li>• Water Distribution Operator</li><li>• Water Treatment Operator</li></ul>

### CREDENTIALS INCLUDED

Water Production Operator – LA Gov, Water Treatment Operator – LA Gov, Water Distribution Operator – LA Gov, Environmental Systems Research Institute (ESRI) User

# STEM PATHWAY

CORE COURSES:



MATH




SOCIAL STUDIES








SCIENCE

## Required Courses (4)

Course Title	Course Code	Carnegie Credits	CTE 6%	CDF 6%	5-Point Scale
Louisiana Wetlands Ecology	312090	1	✓	✓	
Intro to Maritime Careers & Opportunities	312091	1	✓	✓	
Introduction to History of Water Management	312092	1	✓	✓	
*Environmental Science: DE - CEVS 1103 	150914	1	✓	✓	✓

## Additional Courses (choose 4)

Course Title	Course Code(s)	Carnegie Credits	CTE 6%	CDF 6%	5-Point Scale
Physical Geography 	010100	1			✓
Probability and Statistics: DE - CMAT 1303 Introductory Statistics 	160356	1			✓
Elementary Surveying Measurements	010102	1			
Biology II: AP Biology 	150307	1			✓
Probability and Statistics: AP Statistics 	160352	1			✓
AP Human Geography 	220310	1			✓
GIS Entry Level 1	010103	1			
GIS Level 2	010104	1			
Water Production Operator	110500	1			
Water Treatment Operator	110501	1			
Water Distribution Operator	110502	1			
CDF-Qualifying CTE Internship I (1 CREDIT)	080202	1	✓	✓	

\*Dual Enrollment

For full Pathway information, visit the [JumpStart graduation pathway page](#).