

Associate of Applied Science: Coastal Studies and GIS Technology

Postsecondary Partner: [Nunez Community College](#)

Overview

The Coastal Studies and GIS Technology program prepares students for coastal focused careers with a focus on GIS technology skills and instruction in coastal and environmental science. The program blends instruction in technical skills, regulatory information and science to produce completers who have valuable skills to apply to the sector and have a thorough understanding of the complicated problems of the environment to be informed advocates for coastal stewardship and be a part of innovative solutions.

Capstone Credentials

Regional (emerging)	Basic	Advanced	Fast Forward Advanced Plus
-Career and Technical Certificate: Wastewater Plant Operator -Career and Technical Certificate: Water Plant Operator	-Certificate of Technical Studies: Coastal Geospatial Information Science - Water Distribution Operator I Basic - Water Production Operator I Basic - Water Treatment Operator I	-Technical Diploma in Coastal Studies and GIS Technology - Water Production Operator I - Water Treatment Operator I - Water Distribution Operator I	-Associate of Applied Science: Coastal Studies and GIS Technology

*Core Academic Course

**Jump Start CTE Course

Grade 9	
Semester 1	Semester 2
LDOE Course/Code	LDOE Course/Code
*English I 120331	*English II 120332
*Algebra I 160321	*Geometry 160323
*Civics 220501/220504	*Core Academic Art
*Physical Education I 190105	*½ Physical Education II 190106 ½ Health Education 190500

Grade 10	
Semester 1	Semester 2
LDOE Course/Code	LDOE Course/Code
*English III 120333	*Algebra II 160322
*Biology 150301	*U.S. History 220403
*World History 220401	*Chemistry 150401
*Foreign Language I	*Foreign Language II

Additional and/or equivalent TOPS core aligned courses can be found in Bulletin 741.

Grade 11			
Semester 1		Semester 2	
Postsecondary Course	LDOE Course/Code	Postsecondary Course	LDOE Course/Code
*English Comp I ENGL 1010	*English IV: DE - CENL 1013 English Composition I 120606	*College Algebra MATH 1300	**Algebra III: DE - CMAT 1213 College Algebra 160500
**Survey of Microcomputer Apps BUSN 1150	**DE Business Computer Applications 040400	*General Biology/Lab BIOL 1100/1110	*Biology II: DE - C BIO 1013 General Biology I 150323
Louisiana History HIST 2100	DE Social Studies Elective 220099	Coastal Science CSTL 1013	DE Geotechnical and Geoenvironmental Engineering 140802
Louisiana Wetlands Ecology BIOL 2200	DE Louisiana Wetlands Ecology 312090	**Computer Graphs & Maps CSTL 1114	**DE Modeling and Simulation 060200
*World Regional Geography GEOG 1200	*World Geography: DE CGRG 2113 World Regional Geography 220312	**Water Treatment I CSTL 1213	**DE Water Treatment Operator 110501



Grade 12			
Semester 1		Semester 2	
Postsecondary Course	LDOE Course/Code	Postsecondary Course	LDOE Course/Code
Statistics MATH 2000	Probability and Statistics : DE - CMAT 1303 Introductory Stat 160356	Sociology SOCI 1100	DE Sociology 220601
**Fundamentals of Mapping and GIS Tech. CSTL 1123	**DE GIS Entry Level 1 010103	*Environmental Science BIOL 2210 or ENVN 2210	*Environmental Science: DE - CEVS 1103 Environmental Science 150914
**Surveying Lab CSTL 1311	**DE Elementary Surveying Measurements 010102	Environmental Law ENVN 1030	DE Law Studies 220506
**Remote Sensing CSTL 2133	**DE Remote Sensing 891300	**GIS Theories and Concepts CSTL 2143	**DE GIS Entry Level 2 010104
**Water Production CSTL 1223	**DE Water Production Operator 110500	**Water Distribution CSTL 1233	**DE Water Distribution Operator 110502

This pathway framework is an outline of how the approved courses can be implemented. Schools may opt to rearrange the order of course sequencing in order to meet local scheduling requirements. Additionally, Fast Forward pathways are dynamic and the Jump Start Review panel will consider course equivalents on an as needed basis.