Nunez Community College Coastal Restoration Workforce Development

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LCTCS Statewide Academic and Workforce Programs
Coastal Program Mission:

Train students in areas of coastal science and geospatial technology with the goal of providing a trained workforce to public and private sector employers in the greater New Orleans area and beyond.
Coastal Program Student Learning Outcomes:

1. Demonstrate knowledge of Louisiana’s coastal zone, its resources, ecosystems, biodiversity, sustainability and stewardship.

2. Demonstrate knowledge of coastal-focused applications of geospatial technology and data analysis techniques.

3. Demonstrate the ability to manage geospatial data.
Coastal Studies Timeline

- **2018**
  - Martin Mantz, First program manager established
  - Coastal Studies Curriculum development

- **2019**
  - Board of Regents Program Approval

- **2020**
  - Dr. Mahtab Lodhi, second program manager
  - Advisory board recommended curriculum changes

- **2021**
  - First coastal cohort graduated – 5 students

- **2022**
  - Jacqueline Richard, third program manager
Coastal Program’s Structure

The coastal program is offered at three levels:

1. Certificate of Technical Studies
   • GIS Technology
   • Coastal Surveying Skills

2. Technical Diploma
   • Coastal Studies & GIS Technology

3. Associate of Applied Science
   • Coastal Studies & GIS Technology

“As a result of graduating and having a good understanding of the GIS software, I was offered a job using my newly acquired skills before I even got my graduation gown off.” – Max Haines, 2022 graduate
Coastal Core Courses

- BIOL 2200 – Louisiana Wetlands Ecology (3)
- BIOL 2210 – Environmental Science (3)
- CSTL 1013 – Coastal Science (3)
- ENVN 1030 – Environmental Law (3)

- CSTL 1114 – Computer Graphs and Maps (3)
- CSTL 1123 – Fundamental of Mapping and GIS (3)
- CSTL 2133 – Remote Sensing I (3)
- CSTL 2143 – GIS Theories and Concepts (3)
- CSTL 2153 – Remote Sensing II (3)

Coastal Environment Focus

Techniques Focus

“I chose the coastal program at Nunez to help preserve our natural resources and give back to the community” – Dorian
Coastal Program’s Resources

The Coastal Studies computer lab is equipped with:

- Dual-screen desktop computers running geospatial technology software suites
  - ESRI’s ArcGIS
  - ERDAS HEXAGON
  - Trimble Navigation

- Drones
Developing the Workforce

Drone Course
• Prepares students for the Part 107 FAA license Exam
• Course is taught by Coastal Studies graduate, Max Haines

DRONE CLASSES at NUNEZ

Two chances at NUNEZ.EDU/STEAM

Aug. 16 - Oct. 4
Tuesdays 5:30pm-8:30pm
Kane Technology Building
Room A158
CRN 10461

Aug. 20 - Oct. 8
Saturdays 9am-12pm
Kane Technology Building
Room A140
CRN 10460

Students will prepare for the FAA Part 107 license exam and learn to fly two different types of drones.
Developing the Workforce

Welding
1. Career and Technical Certificate
   • Shielded Metal Arc Welding
   • Intermediate Welding
2. Technical Diploma
   • Combo Welder

NCCER Certified levels 1-4

Artificial Oyster Reef Project
Developing the Workforce

- Electrical Construction
  1. Certificate of Technical Studies
     - Electrical Construction
     - Electrical Construction – Advanced
  2. Associates of Applied Science
     - Pending Board of Regents Approval
- Commercial Drivers License
  - 4-week program
  - Class A CDL
- Heavy Equipment
  - NCCER CORE 1-2
  - NCCER Heavy Construction 1-2
  - CDL Class A
  - OSHA 10
Developing the Workforce

Will to Skill

• Construction Site Safety
  • OSHA 30
  • Field Safety
  • Safety Technology
  • Construction Site Safety Supervisor
  • Construction Site Safety Technician

• Electrical
  • NCCER Core Construction
  • Electrical 1
  • OSHA 10
  • HAZMAT/HAZWOPER

• CDL
  • Class A
Developing the Workforce

Industry Based Credentials:

- Bulldozer
- Carpentry
- CNC router
- Commercial Driver’s License (CDL)
- EPA Section 608 HVAC Excellence Certification – Types I-III
- EPA Section 608 HVAC Excellence Certification – Universal
- Construction Site Safety Technician
- Forklift Certification (J. J. Keller)
- HazWoper (OSHA)
- Laser Cutter
- Machinist
- NCCCO Mobile Crane Operator
- NCCER Construction Site Safety Technician
- NCCER Core Curriculum
- NCCER Electrical Levels 1-4
- NCCER Instrumentation Levels 1-4
- NCCER Welding Levels 1-4
- OSHA 10 Construction
- OSHA 10 General Industry
- SMAW (Shielded Metal Arc Welding)