



UNIVERSITY LABORATORY & CLASSROOM RENOVATION

PROJECT LOCATION: University of Miami – Coral Gables, Florida

EXPERIENCE OF: Mitchell Gullledge Engineering, Inc.

ROLE IN PROJECT: Prime Professional – MEPF Design

CONSTRUCTION COST/METHOD

\$1,850,000
Hard Bid

COMPLETION DATE

Summer 2021

PROJECT STAFFING

Project Manager:

Craig Gullledge, PE, CxA

Mechanical Lead:

Craig Gullledge, PE, CxA

Mechanical Designer:

Ark Szczurowski, PE, CxA

Plumbing/Fire Protection Lead:

Andrew Mitchell, PE, CxA

Electrical Lead:

Peter Rizov, PE

PROJECT OWNER

University of Miami

David Shewairy, Assoc. AIA

1535 Levante Avenue

Coral Gables, FL 33146

PROJECT ARCHITECT

Tekton Architecture

Todd Whitehead

10 SW 1st Avenue

Gainesville, FL 32601

PROJECT ENGINEER

Mitchell Gullledge Engineering, Inc.

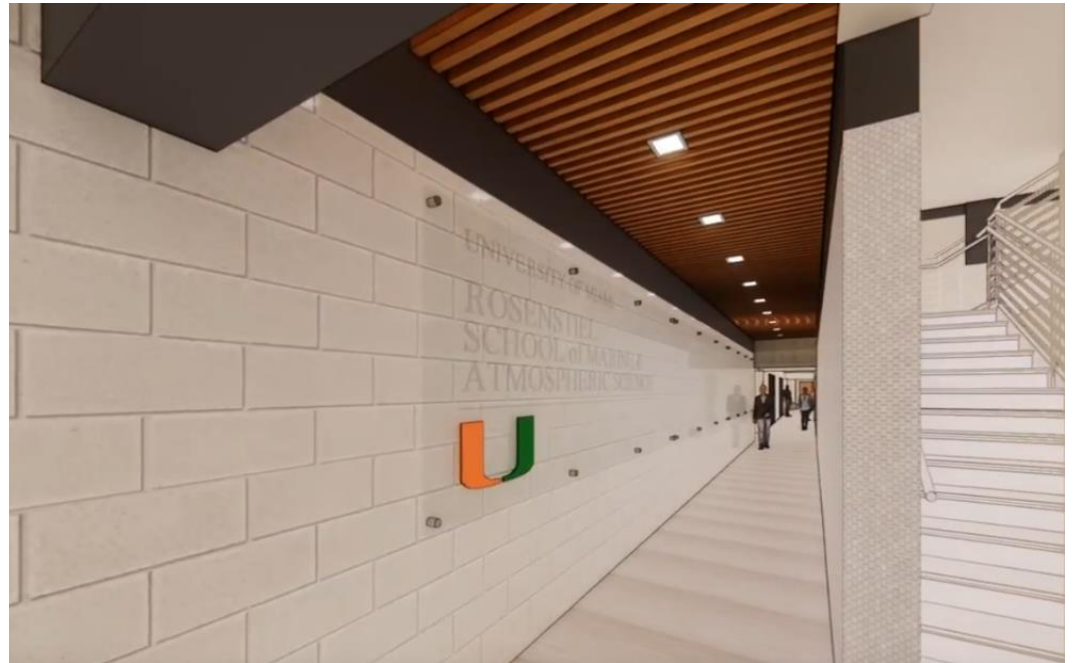
Craig Gullledge, PE, CxA

210 SW 4th Ave

Gainesville, FL 32601

352.745.3991

cgullledge@mitchellgullledge.com



PROJECT SUMMARY:

This project consisted of renovating the existing 7,800 SF Geology and physical science laboratory suite located in the basement of the University of Miami’s Rosenstiel School of Marine & Atmospheric Science (RSMAS) Cox Science Center in Coral Gables, Florida. The Geology Suite consisted of dry laboratories, wet laboratories, classrooms, offices, breakroom, and other auxiliary support areas. A 2,000 SF laboratory on the first floor was also included in this renovation effort. This renovation project included architectural design services for new space programming and upgrades to the existing interior finishes to match the existing Cox Science Center interior aesthetic. Additionally, the existing HVAC, plumbing, fire protection, and electrical utilities were upgraded in order to facilitate these renovation efforts while maximizing the reuse of the existing building system infrastructure. Due to tight existing building constraints, extensive field survey work was completed to ensure the accuracy of the as-built documentation and the feasibility of the proposed design. Due to a very tight design schedule and as the prime professional, Mitchell Gullledge Engineering coordinated this field survey effort with Tekton Architecture to maximize the team’s resources and overall project efficiencies. The renovation allowed staff to make more efficient use of the workspace, with specific areas devoted to laboratory, classroom, or office needs. Mitchell Gullledge Engineering was able to provide the professional design services for complex and critical HVAC, plumbing, and electrical systems to meet the University of Miami’s needs while adhering to their rigorous design and construction standards on an accelerated design timetable.

This project showcases Mitchell Gullledge Engineering’s ability to successfully coordinate a complex, multi-disciplinary project for an out-of-town institutional client with no interruption to the design schedule. Additionally, due to limited and unreliable as-built documentation, Mitchell Gullledge Engineering was able to coordinate and execute the necessary and extensive field survey efforts over a weekend. This meticulous and proactive effort ensured the design schedule remained on track while minimizing change orders during construction. The UM RSMAS Cox Science Center Renovation project also showcases our team’s ability to design complex laboratory systems and think unconventionally in order to maximize the reuse of the existing utility infrastructure while complying to the existing constraints of the building’s structure.

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Architectural Renderings of UM RSMAS Cox Science Center Renovation