

Zachry Department of CIVIL ENGINEERING

Enrollment Fall 2009

Undergraduate Students	1,126	Graduate Students	432
Average SAT Score	1239	Ph.D.	128
		Master's	304

Quality Indicators

Total Faculty	70	U.S. News & World Report Rankings	Endowed Chair Holders	7
Professors	26	Rankings Among Public Institutions	Endowed Professorship Holders	12
Associate Professors	21	8 Undergraduate	National Academy of Engineering Members	2
Assistant Professors	20	8 Graduate		
Non-tenured/Non-tenure Track	3			

Centers & Laboratories

Association of American Railroads Affiliated Laboratory (TTI)
 Center for Dredging Studies (TEES)
 Center for Infrastructure Engineering (TEES)
 Center for Ports & Waterways (TTI)
 Center for Sustainable Water Systems (TEES)
 Center for Transportation Safety (TTI)
 Center on Tolling Research (TTI)
 Haynes Coastal Engineering Laboratory (TEES)
 International Center for Aggregates Research (TTI)
 National Geotechnical Experimentation Site
 Offshore Technology Research Center (TEES)
 Southwest Region University Transportation Center (TTI)
 TransLink™ Research Center & Laboratory (TTI)
 University Transportation Center for Mobility (TTI)

Geotechnical Research Laboratory
 Geotechnical Undergraduate Laboratory
 High-Bay Structural & Materials Testing Laboratory
Environmental & Water Resources Engineering Laboratories
 Biological Processes Laboratory
 Chemical Processes Laboratory
 Environmental Laboratory
 Natural Systems Laboratory
 Water Resources Laboratory

Coastal & Ocean Engineering Laboratories

Dredging Laboratory
 Hydrodynamics Laboratory
 Ocean Engineering Laboratory

Materials & Pavement Laboratories

Advanced Characterization of Infrastructure Materials Laboratory
 Highway Materials Laboratory (TTI)
 Materials of Construction Laboratory
 Materials Science Laboratory

Construction, Geotechnical & Structural Engineering Laboratories

Construction Materials Laboratory
 Electrochemistry Laboratory
 Geotechnical Graduate Laboratory

Research Areas

Coastal Engineering

- Beach Nourishment
- Coastal Processes
- Coastal Structures
- Dredging
- Environmental Fluid Dynamics
- Storm Surges & Risks

Construction Engineering & Management

- Construction Materials
- Construction Planning & Field Operations
- Process Modeling
- Project Development & Financing
- Project Management
- Risk Management & Decision Analysis
- Stochastic Simulation

Environmental Engineering

- Air Pollution Contaminant Transport
- Environmental Management
- Hazardous Wastes/Remediation
- Natural Environmental Systems
- Risk Assessment
- Water/Wastewater

Geotechnical Engineering

- Constitutive Modeling
- Earthquake Susceptible Soils
- Expansive Soils
- Instrumentation, Health Monitoring & Assessment
- Scour

- Soil Mechanics
- Soil-Structure Interaction

Infrastructure Management & Security

- Condition Assessment
- Infrastructure Security
- Infrastructure & Transportation Asset Management
- Pavement Management
- Performance Modeling & Prediction

Materials Engineering

- Asphaltic & Concrete Pavements
- Construction Materials
- Corrosion Within Structures
- Fracture & Damage Mechanics
- Mechanical Properties & Transport in Concrete Materials
- Micromechanics & Microstructure Characterization
- Nondestructive Testing
- Pavement Evaluation
- Recycled Materials

Ocean Engineering

- Computational Fluid Dynamics
- Dynamics of Offshore Structures
- Fluid-Structure Interaction
- Mooring Systems
- Multiphase Flow
- Naval Architecture
- Nonlinear Hydrodynamics
- Ocean Wave Dynamics

Structural Engineering

- Building, Transportation & Offshore Structures
- Damage Detection
- Engineering Risk Analysis
- Fatigue & Fracture
- Preservation of Historic Structures
- Seismic & Wind Performance
- Smart Materials & Structures
- Structural Reliability
- Vibrations, Sensing & Control

Transportation Engineering

- Geometric Design
- Intelligent Transportation Systems
- Planning
- Scheduling Algorithms
- Traffic Control Devices
- Transit Systems
- Transportation Economics
- Transportation Operations
- Transportation Safety
- Transportation Systems Modeling

Water Resources Engineering

- Hydraulics
- Hydrology
- Remote Sensing
- Sustainability
- Systems Analysis
- Water Resources Planning & Management