



CONSTRUCTION MANAGEMENT Graduate Programs

DEGREES OFFERED

Online Post-Baccalaureate Certificate in Construction Management

This 18-hour program can be completed in six to 12 months and will prepare individuals—including graduate students in areas of architecture and business or qualified military personnel—for a career change into construction management. Students who complete the requirements will acquire a perspective and the necessary skills of a construction manager, as well as a path to construction management certification. The program helps to prepare individuals for the American Institute of Constructors (AIC) Associate Constructor Level I Exam and provides the basic learning courses required for most U.S. construction management/science graduate programs in the country.

Master of Science in Construction Management (MSCM)

The MSCM is designed to blend engineering, business, and construction management concepts together to produce a professional graduate who can manage construction processes effectively and efficiently. It also provides career paths for those interested in research and/or academics. Students receive in-depth education in state-of-the-art construction specializations, including advanced materials and sustainability, building science for disaster-resistant communities, built environment informatics, and capital facility management.

The program is offered in three paths:

- Professional (non-thesis master with 36 credit hours of courses) – Several projects are integrated throughout the course requirements; however, there is no specific program thesis, project course, or comprehensive examination required. Offered to LSU Online students.
- Executive (non-thesis master with project; 33 credit hours of courses and a 3-credit-hours project course for a total of 36 credit hours) – Offered only to traditional campus students.
- Research (thesis master with 24 credit hours of courses and a 6-credit-hours thesis for a total of 30 credit hours) – Offered only to traditional campus students.

PhD in Engineering Science With a Concentration in Construction Management

The College of Engineering has an interdisciplinary PhD program with a concentration in construction management that allows students to pursue graduate study and research across multiple disciplines, multiple departments, or program areas not associated with an existing department. The Bert S. Turner Department of Construction Management utilizes this program for students wishing to develop their research skills in construction-related topics while pursuing a PhD. Qualified students must possess a bachelor's or master's degree in engineering, construction management, or other related applied sciences.

FACULTY RESEARCH AREAS

Gabriel Andres Arce Amador

garcea1@lsu.edu — Concrete materials, cementitious composites, geopolymer composites, infrastructure materials, pavement engineering

Charles Berryman

cberryman@lsumail.net — sustainability, material science, soil stabilization, construction education, decision support systems.

Carol Friedland

friedland@lsu.edu — hazard-resistant construction and mitigation, natural hazard vulnerability/risk assessment, community resilience, hazard mitigation planning, industrial construction

Marwa Hassan

marwa@lsu.edu — sustainable construction, life cycle assessment, infrastructure sustainability, highway construction, advanced sustainable materials, including nanomaterials, productivity analysis of construction operations

Amirhosein Jafari

ajafari1@lsu.edu — sustainability in construction, smart buildings and communities, decision support systems in construction, project management systems

Yongcheol Lee

yclee@lsu.edu — building/city information modeling, construction informatics, sensing, disaster recovery, construction safety and health

Charles F. Pecquet

cpecquet@lsu.edu — construction safety, workforce training and development, visual communication

Husam Sadek

hsadek1@lsu.edu — pavement engineering, advanced materials characterization, accelerated pavement testing, infrastructure sustainability

Donald Schneider

dschne22@lsu.edu — Law, project management, contracts, leadership

Jonathan Shi

jshi@lsu.edu — construction productivity, construction quality, construction mass customization, lean construction and lean healthcare

Chao Wang

chaowang@lsu.edu — automation and robotics in construction, information technology in construction, building information modeling, pavement quality control and assurance

Kimberly Williams

kimwilliams@lsu.edu — online learning, leadership, project management, workforce training and development

Yimin Zhu

yiminzhu@lsu.edu — computer applications in construction management, sustainable construction

GRADUATE ADVISOR

Carol Friedland, PhD

friedland@lsu.edu

225-578-1155