

# FACILITIES MANAGEMENT (FMGT) GRADUATE ONLY

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## **FMGT7000** PROJECT MANAGEMENT APPLICATIONS

This course covers project management responsibilities from concept phase through completion. Developing project cost estimates will include budgeting and cost estimating, the delivery process, programming, team selection, managing construction, project closure, and oversight. Techniques for cost analysis, scheduling and procedures for contracting, construction coordination, and the control of change orders are reviewed. Methods for project control using scheduling and cost analysis techniques will be reviewed. Change order and claim management will be presented. Students will have the opportunity to work in virtual teams. (3 credits)

## **FMGT7100** CONTEMPORARY ISSUES IN MANAGING TECHNOLOGY

For many firms, IT is the largest capital investment of the capital expenditure in an organization. It is critical that executives of every function understand key components of technology in order to be successful in organizations. This course examines the impact of telecommunications technology on facility planning and management. Topics include the design and implementation of voice and data communication networks, client service applications, and business communications systems for enhancing collaborative work. Included is a study of the availability, capabilities, analysis, selection, justification, acquisition, installation, operation, and maintenance of computerized systems designed to enhance facilities management. (3 credits) summer

## **FMGT7200** ENERGY & SUSTAINABILITY

Students examine how facilities, building operations, and maintenance organizations are managed to understand energy creation, delivery, and consumption. Topics include sources, forms, and methods used to assess and manage energy use in buildings. This course also provides a solid understanding of the fundamental concepts in sustainable practices. Students will apply concepts needed to successfully organize, monitor, communicate and develop a good sustainability program. (3 credits) spring

## **FMGT7300** FACILITY OPERATIONS

This course provides a comprehensive study of operations management of environmental, communications, life/safety, and security systems in building. Areas of study include advanced mechanical and electrical systems, energy conservation, upgrading systems with tenants in place, preventive maintenance, and the implications of maintenance and operations for planning and design. Students will learn how computerized control systems are designed to work in buildings. Smart building automation topics are included in this course. (3 credits) fall

## **FMGT7800** GRADUATE SPECIAL TOPICS IN FACILITIES MANAGEMENT

Presents topics that are not covered by existing courses and are likely to change from semester to semester. Refer to the Class Schedule for a specific semester for details of offerings for the semester. (4 credits)

## **FMGT8000** FACILITY MANAGEMENT CAPSTONE

This course is designed to integrate the learning from various MSFM courses and provide "hands-on experience" in problem solving and dealing with realistic facility management issues. As a capstone requirement of the program, students demonstrate fulfillment of an approved scope of work showing the analytical capacities and creative skills expected of a professional in this field. The demonstration can involve original research, a work-related project, or an extension of course-related work. The practical knowledge gained will directly apply to work situations and will also provide a source of knowledge for your own strengths and growth potential areas. A team project will be the focus of the course. (3 credits) spring

## **FMGT8900** FACILITY MANAGEMENT THESIS

The thesis is intended for students who contemplate further study or college level teaching, or otherwise desire to produce a more focused product than can be completed in the capstone course. The thesis is undertaken individually by the student in collaboration with the graduate program director and a faculty advisor, and may be research- or project-based. Students conducting a research-based thesis will define the research question, devise and implement appropriate research methods, gather and analyze data, and report on the research and conclusions. The research thesis reflects the student's knowledge in the field and understanding of prior and current work in areas related to the thesis topic. A project-based thesis includes problem definition, conceptualization of alternative solutions, analysis, selection of best alternative, synthesis, execution, test and evaluation, and documentation. It will integrate all of the skill areas encompassed by the program. Where possible, the thesis will be associated with the student's career path, and contribute value to the student's employer. (6 credits)