Construction Management and Technology, MS

ESCONSTMS

Program Description

Degree Awarded: MS Construction Management and Technology
The faculty of the Del E. Webb School of Construction offer a graduate program leading to the MS in construction management and technology. The transdisciplinary nature of the program allows a candidate's plan of study to reflect individual interests and career goals.

The primary objective of the program is to allow students with a bachelor's degree in construction or a related field such as architecture, business or engineering to broaden and improve their professional capabilities in construction. The program is designed to meet the growing need for professionals with advanced technical, management and applied research skills in the construction industry.

The facilities management specialty area supports the needs of the student desiring a career in the maintenance, operation, renovation or decommissioning of existing facilities. The construction management specialty area allows students seeking upper-level management positions in various sectors of the construction industry to improve their competency in project, program and company management areas.

At a Glance

- **College/School:** Ira A. Fulton Schools of Engineering
- **Location:** Tempe campus or online

Accelerated Program Options
This program allows students to obtain both a bachelor's and master's degree in as little as five years. It is offered as an accelerated bachelor's and master's degree with:

Construction Management and Technology, BS

Acceptance to the graduate program requires a separate application. During their junior year, eligible students are advised by their academic departments to apply.

Degree Requirements

30 credit hours and a thesis, or
30 credit hours and a written comprehensive exam, or
30 credit hours and an applied project (CON 593)

Required Core (6 credit hours)

Project Management and Controls Core Area (3 credit hours)
CON 502 Front-End Planning (3)
CON 530 Facilities Operations and Maintenance (3)
CON 532 Facilities Project Management (3)
CON 540 Construction Productivity (3)
CON 541 Public Works Capital Construction (3)
CON 545 Construction Project Management (3)
CON 548 Sustainable Construction (3)
CON 551 Alternative Project Delivery Methods (3)
CON 557 Principles of Leadership for Project Managers (3)
CON 567 Advanced Procurement Systems (3)
CON 589 Construction Company Financial Control (3)

Construction Technology Core Area (3 credit hours)
CON 531 Facility Management: Building Energy Management (3)
CON 554 Trenchless Construction Methods (3)
CON 570 Introduction to Advanced Technology Facilities (3)
CON 571 Construction of Advanced Technology Facilities (3)
CON 575 Information Technology in Construction (3)

Electives or Research (18-24 credit hours)

Culminating Experience (0-6 credit hours)
CON 593 Applied Project (3)
CON 599 Thesis (6)
written comprehensive exam (0)

Additional Curriculum Information

Students chose one three-credit hour course from each of the core areas listed above for a total of nine credit hours. If a course is chosen as a core area course, it cannot be used as an elective course simultaneously.
The number of electives and research is adjusted depending on the culminating experience chosen by the student.

Admission Requirements

Applicants must fulfill the requirements of both the Graduate College and the Ira A. Fulton Schools of Engineering.

Applicants are eligible to apply to the program if they have earned a bachelor's or master's degree from a regionally accredited institution.

Applicants must have a minimum cumulative GPA of 3.00 (scale is 4.00 = "A") in the last 60 hours of their first bachelor's degree program, or applicants must have a minimum cumulative GPA of 3.00 (scale is 4.00 = "A") in an applicable master's degree program.

All applicants must submit:

1. graduate admission application and application fee
2. official transcripts
3. GRE scores
4. current resume
5. an evaluation of the student's academic and professional background
6. personal statement
7. proof of English proficiency

Additional Application Information

An applicant whose native language is not English must provide proof of English proficiency by meeting the Graduate College English proficiency requirements regardless of current residency.

Applicants required to demonstrate English proficiency and seeking a teaching assistantship must demonstrate proficiency in spoken English, and a score of 55 or better on the Speaking Proficiency English Assessment Kit or a score of 26 on the speaking portion of the TOEFL is required.

Applicants are expected to be competent in basic construction topics.

Attend Online

ASU offers this program in an online format with multiple enrollment sessions throughout the year. Applicants may view the program description and request more information here.

Application Deadlines
Career Opportunities

The construction management and technology program provides a foundation for students who wish to pursue careers as project managers, project engineers, estimators or schedulers and eventually become principals of firms engaged in the construction of industrial, commercial or residential projects.

The heavy construction emphasis area prepares students for careers related to public works such as highways, airports, bridges, utility systems and water or waste treatment facilities.

The commercial and residential emphasis areas prepare students for careers in real estate development, home production systems, commercial construction, health care and special industrial building projects. Students are also prepared to enter the sustainable or green construction market.

The specialty construction emphasis prepares students to organize, lead and manage the building process at the subcontractor level and prepares students for careers as contractors working with mechanical and electrical systems. It also prepares students for careers in management at specialty contracting firms, such as control systems, electrical distribution or heating, ventilation and air conditioning systems for large and complex facilities such as data centers, health care organizations and semiconductor manufacturing plants as well as commercial facilities.

Contact Information

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