



## OVERVIEW

The Del E. Webb School of Construction (DEWSC) Masters of Science in Construction with a concentration in Facility Management is a 30 hour program. The curriculum for the program entails 24 hours of coursework and 6 hours of oriented Thesis research. For the research effort the graduate student is required to select a faculty advisor from the list of FM program faculty (Dr. Kashiwagi, Dr. Sullivan, and Dr. Badger).

The program requirements are differentiated based on the FM student's years of industry experience prior to program admittance. The list of requirements is presented later in the document.

## GETTING STARTED AT ASU (APPLICATION PROCEDURES)

A completed application includes the following:

1. Application is strictly on-line (steps below).
  - a) <http://www.asu.edu/graduate/>
  - b) Proceed by clicking on "Prospective Students"
  - c) After viewing links, continue by selecting "Admissions"
  - d) Select "Domestic Degree Applicants"
  - e) Read important information on applying
  - f) To continue proceed to "Graduate Degree Application"
2. \$50 Application Fee for each application submitted (non-refundable) must be paid on-line or by check.
3. Official Transcripts (sealed documents) from all universities attended (community colleges are not required). If ASU graduate, no need to send transcripts.
4. 3 Letters of recommendation.
5. Letter of intent (written by you).
6. Current resume.
7. Official GRE Scores taken within 5 yrs (more info below).
8. Official TOEFL Scores (International applicants only).  
(Score should be competitive with other applicants - ASU minimum is 550/213).

**Please mail all documents to:** *Graduate College  
Arizona State University  
P.O.Box 871003  
Tempe, AZ 85287-1003*

\*\* Allow 6 weeks for processing during peak times. To help speed processing put your document references number and/or your ASU ID# on all information sent to ASU.

## ADMISSION CONTACTS

Admissions for the Master's degree program are maintained in the Graduate College at ASU. If you have questions on documents received or a problem with the on-line application. To contact the Graduate College: [asugrad@asu.edu](mailto:asugrad@asu.edu) or (480) 965-6113.

The DEWSC graduate academic councilor is Christine Baum, who can be reached by:  
Office phone: (480) 965 - 9272 **OR** Email: [Christine.baum@asu.edu](mailto:Christine.baum@asu.edu)

Performance Based Studies Research Group (PBSRG)  
P.O. Box 870204 Tempe, AZ 85287-0204      Ph: (480) 965-4273      Fax: (480) 965-4371



## **TUITION & FEES**

2005-2006 Academic Calendar  
Resident Graduate: \$882 (3hrs)  
Non-resident Graduate: \$1,989 (3hrs)

## **GRE TESTING**

Graduate Record Examinations (GRE)  
The GRE information can be located at: <http://www.gre.org/>  
To find a GRE Test Center near you: [http://etsis4.ets.org/tcenter/cbt\\_dm.cfm](http://etsis4.ets.org/tcenter/cbt_dm.cfm)  
ASU has a prep course at: [http://www.vpsa.asu.edu/cc/tss\\_reg/student\\_testingsupport.asp](http://www.vpsa.asu.edu/cc/tss_reg/student_testingsupport.asp)

## **PROOF OF MEASLES IMMUNIZATION**

ASU requires Immunization Verification for more information please visit Student Health at [www.asu.edu/health/measles.html](http://www.asu.edu/health/measles.html)

## **FM PROGRAM REQUIREMENTS**

### 10+ Years of Experience:

The FM with ten or more years of provable industry experience the program requirements entail the completion of the program curriculum and a thesis. A minimum of a "B" (grade) or better must be achieved in all courses to receive full credit.

The thesis topics should be taken from the students (FM) own work background or from a company in the local metropolitan area. The topic should be a real problem, observed by the student (FM) in which the student (FM) can improve or solve using the ideas and methodologies of the FM program.

### Less than 10 Years of Experience:

The FM with less than ten years of industry experience must complete the deficiency courses to establish a baseline of knowledge. A grade of "B" or higher is required in each deficiency course to receive credit. Once the deficiency course work is complete the FM graduate student is required to complete FM program of study and all thesis requirements

## **FM PROGRAM COURSES (30 HRS)**

1. Facilities Management Fundamentals
2. Performance Based Systems I
3. Performance Based Systems II
4. Advanced Procurement Systems
5. Advanced Research Methods and Tools
6. Legal Aspects of Construction Procurement
7. Leadership and Management Skills
8. Independent Studies of Risk Assessment, Measurement, and Minimization
9. Facilities Management Thesis
10. Facilities Management Thesis



## **FM PROGRAM COURSE DISCRIPTIONS**

### Facilities Management Fundamentals:

The FM Fundamentals course focuses on several key aspects of the FM trade and seeks to introduce the student to concepts and techniques that will increase their value as a facility manager. There are three core areas: Strategic Elements, Operations/Maintenance, and Project Efficiency.

**The Strategic Elements:** The goal is to build the capability to set strategic, long term objectives for the life-cycle of their facility. The area instructs the student on strategic planning, outsourcing and in house competitiveness, asset management and budgeting, and space planning.

**The Operations and Maintenance** narrows the focus to the day-to-day aspects of FM and covers methods to improve the performance of building systems, preventative maintenance methodologies, computerization of facility operations, and environmental evaluation of existing buildings. It should be noted that the O&M portion of the course is not a technical evaluation of various building systems but instead primarily centers on performance and efficiency.

**Project Efficiency** concentrates on the project level responsibilities (project management, cost estimating, change orders, and productivity) of an FM. Additionally the course strives to integrate the student's current workplace problems and inefficiencies into the course curriculum and assignments. This allows the immediate application of the concepts and techniques taught in the course and further reinforce the learning process.

### Performance Based Systems I

The course will introduce Information Measurement Theory that measures construction performance to predict future outcomes of projects and Performance Information Procurement System (PIPS), a Six Sigma application that leads to increased construction performance, stabilized industry structure, minimized management and need for minimum standards, and increases the efficiency for the entire construction or vendor services delivery system.

### Performance Based Systems II

This course is an application of the tools taught in Performance Based Systems I course. Students are given a "mock" project to run. This includes collecting, inputting, and analyzing past performance information. Each student will learn to interpret and evaluate risk assessment plans. Be responsible for creating and using the Displaced Ideal Model (DIM). Learn interview rating techniques of project personnel in the selection process.

### Advanced Procurement Systems

Curriculum description not available at this time.



Advanced Research Methods and Tools:

Data collection methodologies, applied parametric and non-parametric statistics, data analysis techniques, technical writing and data presentation.

Legal Aspects of Construction Procurement

Curriculum description not available at this time.

Leadership and Management Skills:

The course will cover the principles of leadership as distinct from management. Understanding of individual and professional personality and its application to leadership, group behavior and organizational dynamics as related to construction operations, team building in relation to construction practice, and development of a "personal leadership style" for application upon graduation. And finally cover development of communication skills with oral presentations and writing projects and role of professionalism and ethics in relation to construction leadership.