

UNIVERSITY OF SOUTH FLORIDA

GRADUATE  
CERTIFICATE

SYSTEMS ENGINEERING

FULLY ONLINE

The University of South Florida's Industrial and Management Systems Engineering department offers a fully online Graduate Certificate in Systems Engineering for individuals with technical backgrounds. This certificate program offers both quantitative and qualitative approaches to strengthen systems engineering credentials. The required and elective certificate courses assist engineers and professionals in strengthening their knowledge to improve and support the performance of their organizations in the design, development and management of complex systems.

The curriculum includes coursework that covers systems integration, project management, computer simulation, risk and decision analysis, linear programming and network optimization, and reliability analysis.

Courses are offered on the Tampa campus and online. Students may pursue the graduate certifi-



cate only or may apply up to 12 credit hours to a graduate degree with departmental approval.

[www.gradcerts.usf.edu](http://www.gradcerts.usf.edu)

**USF** UNIVERSITY OF  
SOUTH FLORIDA

Graduate Certificates 2010

## Course Requirements (12 Credit Hours)

This fully online graduate certificate consists of two core courses, and two elective courses for a total of 12 credit hours. Students pursuing a graduate certificate will be required to meet the same academic requirements as those defined for degree-seeking students to remain in good standing.

### Required courses (6 credit hours)

- EIN 6935 - Systems Integration (3)
- EIN 6145 - Project Management (3)

### Elective courses (6 credit hours)

Choose two from the following:

- ESI 5306 - Operations Research for Eng. Managers (3)
- EIN 5510 - Manufacturing Systems Analysis (3)
- ESI 5522 - Computer Simulation (3)
- ESI 5236 - Reliability Engineering (3)
- ESI 6213 - Stochastic Decision Models I (3)
- ESI 6247 - Statistical Design Models (3)
- ESI 6491 - Linear Prgmng. & Network Optimization (3)
- ESI 6324 - Engineering the Supply Chain (3)
- EIN 6935 - Risk and Decision Analysis (3)

## Admission/Application Requirements

Applicants must hold a bachelor's degree in engineering or a related discipline from a regionally accredited institution. Please visit: [www.gradcerts.usf.edu/admissions.asp](http://www.gradcerts.usf.edu/admissions.asp) to download an application. In addition to the application forms please submit:

- Official transcripts
- A resume
- A 250-word letter of interest stating your objectives in pursuing this course of study

## Standardized Test Requirements

Standardized tests are not required.

## Tuition & Fees

Please view the information sheet for this certificate at the Graduate Certificate Web site for current information: [www.gradcerts.usf.edu](http://www.gradcerts.usf.edu).

## Registration Process

First, consult with the certificate program advisor and obtain an electronic course permit if necessary. Then, go to: <http://usfonline.admin.usf.edu>, the link to OASIS, USF's online registration system. Follow the directions given online.

## Time Limit

Courses must be completed within three years.

## Financial Aid

Non-degree seeking students are not eligible for financial aid. However, private student loans may be available. To inquire, please go to: <http://www.gradcerts.usf.edu/certinfo.asp?ccode=XSX>

## Application Process

For information on this or other Graduate Certificates or to receive application materials, please visit: [www.gradcerts.usf.edu/admissions.asp](http://www.gradcerts.usf.edu/admissions.asp) or contact:

Office of Graduate Certificates  
University of South Florida  
4202 E. Fowler Ave., SVC1072  
Tampa, FL 33620-9951

Phone: (813) 974-2442  
Fax: (813) 974-7061

E-mail: [gradcerts@admin.usf.edu](mailto:gradcerts@admin.usf.edu)  
Web site: [www.gradcerts.usf.edu](http://www.gradcerts.usf.edu)

For more information about the College of Engineering certificates and degrees, follow the links on the Web at: [www.eng.usf.edu](http://www.eng.usf.edu).

For more details about master's or PhD programs or to view the graduate catalog visit: [www.grad.usf.edu](http://www.grad.usf.edu) or call (813) 974-2846.

## Department Contact

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All students who wish to pursue approved graduate certificates must be admitted to a corresponding area of study before a second graduate certificate course is completed.

These graduate certificate courses may be applied to a Master of Science in Engineering Management degree contingent upon departmental approval. The department also offers graduate certificates in Technology Management, Total Quality Management, and Regulatory Affairs: Medical Devices.



### STATEMENT OF ACCREDITATION AND NON-DISCRIMINATION

*The University of South Florida is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools (SACS) to award degrees at the baccalaureate, master's, specialist, and doctoral levels, including the Doctor of Medicine.*

*Events, activities, programs and facilities of the University of South Florida are available to all without regard to race, color, marital status, sex, religion, national origin, disability, age, Vietnam or disabled veteran status as provided by law and in accordance with the university's respect for personal dignity.*