



MASTER OF SCIENCE IN ENGINEERING MANAGEMENT- JAMAICA

Systems Engineering Track

Program Overview

The goal of this program is to prepare individuals for leadership, managerial and entrepreneurial positions in almost any technical industry. The vigorous curriculum integrating engineering, business, and law courses consists of 30 credits (10 courses).

- 30 credit hours of coursework – 10 courses of 3 credit hours each
- Each module requires five weekends with a break on the third weekend. There is also a scheduled break for one weekend at the end of each module
- Classes will be held on Saturday evenings and Sundays
- Program duration is 12 months.
- Each course includes a minimum of 37.5 hours of classroom and laboratory instruction by FIU faculty
- The location for the program will be at the *University of the Commonwealth Caribbean in Kingston, Jamaica.*

Student Learning Outcomes

- The ability to apply engineering project management skills to manage an engineering project.
- The ability to apply TQM concepts, techniques, skills and tools necessary to an industrial application.
- The ability to identify a legal problem or opportunity, render a sound legal judgment and formulate it into a business proposal.
- The ability to lead and manage business operations in an engineering and technology environment.
- In-depth competency in a technical/engineering field.

Program Tuition

Tuition for the MSEM program in Jamaica is **US\$19,000* for 30 credit hours**. It includes:

- Assistance and guidance during the admissions process
- Course registration
- Course software
- Advising for successful progression of courses
- Access to FIU's Online Library
- Technology resources from the Engineering Information Center

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General Application Checklist*

Individuals interested in applying for admission to the MSEM program must do the following:

- ☐ **MSEM – Jamaica program application for admission.**
Go to <http://gradschool.fiu.edu/admissions.shtml> and click on “Masters Programs Application.” On the right hand side of the page, you will see “User Login.” If you do not have a PIN, please click “[Create Account](#).” Please note your PIN and password for future use. After created, use your account (ID and PIN) to enter the system to complete the application. It takes approximately 15 minutes to complete the application. ***You may complete the online application without submitting your statement of purpose and recommendation letters. These documents may be submitted later via mail.***
- ☐ **Application fee US\$30.**
- ☐ **A 4-year Bachelor’s degree from an accredited university with a minimum of “B” average in the upper-level (the last 60 credit hours).**
- ☐ **Official transcript of each previously attended university (undergraduate and graduate) in an envelope sealed by the degree granting institution.** If an official transcript is not in English, the applicant must obtain two sets of transcripts, one to be submitted to FIU in the original language and the other to be translated by an official translation agency (or certified translator). ***Unsealed or opened copies submitted directly by applicants will not be accepted. Photocopied or notarized copies of transcripts are not acceptable.***
- ☐ **Official proof of degree.** Certification must be authorized by a Justice of the Peace, Minister of Religion, or Attorney-at-law; ***all certified documents must bear the official stamp/seal of the certifier.*** The degree must be a bachelor’s degree in engineering or a closely related field from an accredited institution with a minimum of a “B” average in upper level work (a minimum GPA of 3.0 on a scale of 4.00) OR a graduate degree from an accredited institution. (Please see Note No. 4).
- ☐ **Official TOEFL (minimum score 550 paper-based, or 213 computer-based, or 80 internet-based) or IELTS (minimum 6.5).** It is a requirement for students who attended/graduated universities in non-English speaking countries. Florida International University Institutional code is 5206.
- ☐ **Official GRE score not required.**
- ☐ **Statement of purpose:** A well-written statement describing your professional goals and reasons for pursuing the MSEM degree at Florida International University.
- ☐ **Resume:** A current resume is required, which may include education, professional training, internship, and employment history (full time and part time employment).
- ☐ **Three letters of recommendation** from employers, faculty, or professional associates.

*Subject to change

All academic credentials and supporting documents must be submitted to:

Mr. Gary McKenzie

Graduate Recruiter
University of the Commonwealth Caribbean
17 Worthington Avenue
Kingston 5, Jamaica, W.I.
Email: graduateadvisor@ucc.edu.jm
Cell: 876-822-7317

Or directly to FIU:

Mrs. Natalie K. Del Sol-Nuñez

Division of External Programs
Florida International University
College of Engineering and Computing
10555 W. Flagler Street, EC-2454B
Miami, FL 33174
Email: ndelsol@fiu.edu

Begin your online application now at the link below:

<https://go.fiu.edu/graduateapplication>

Notes:

1. Omission of any one of the required items will delay the processing of the application.
2. Admission decisions are made solely by FIU.
3. All admission requirements must be met before a student is fully admitted to the program.
4. An applicant whose GPA does not meet the minimum GPA requirement may be considered for conditional admission.

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Required Courses and Course Descriptions*

EIN 5226 – Total Quality Management for Engineers

Fundamentals of TQM and its historical development. Integration of QC and management tools, QFD, benchmarking, experimental design for scientific management.

MAN 6167 - Leadership in a Global Environment

The course is designed to provide the student with a clear understanding of current thinking in the area of leadership. It focuses on the holistic nature of leadership and the impact leaders have on individuals, groups, and organizations.

EIN 5359 - Industrial Financial Decisions

The use of financial techniques and data in planning, controlling and coordinating industrial activities. This course will familiarize the student with accounting concepts and analytical methods.

ESI 6316 - Applications of OR in Manufacturing

Overview of OR techniques. Manufacturing system and product selection. Shop loading, resource allocation, production scheduling, job sequencing, and plant layout problems.

MAR 6805 - Marketing Management in the Global Environment

Analysis and application of theory and problem solving for marketing management in the global environment. Emphasis will be on the role of marketing in the organization; planning the marketing effort; management of the marketing organization; control of marketing operations; and evaluation of the marketing contribution.

LAW 5072 - Business Law and Intellectual Property for Engineers and Entrepreneurs

Focused on the formation, governance, operation, and legal protection of business; coverage includes contracts, malpractice, product liability, employment law, and intellectual property law.

EIN 6324 - Technology Entrepreneurship

Entrepreneurial process, evaluation of technology, startup operations and strategy, business plans and venture capital, intellectual property and rights, growth and technology management.

EIN 6357 - Advanced Engineering Economy

Review of engineering economy and the evaluation of advanced manufacturing systems. Evaluation of alternative capital investments considering income taxes, depreciation, inflation, risk and uncertainty.

EIN 6336 – Advanced Production Planning and Control

Analytical and algorithmic planning methodologies, planning and scheduling technologies, sequencing rules, control strategies, and line balancing methods.

ESI 6455 - Advanced Engineering Project Management

This course covers entire phases of project management including selection, planning, budgeting, scheduling, monitoring, and control. It focuses on the management of engineering projects through case studies and independent research assignment. Prerequisite: Permission of the instructor.

- ***Course times will be Saturday evenings and Sundays, Saturdays from 6:30 p.m. to 10 p.m. and Sundays from 8 a.m. to 2 p.m.****

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**Contact at University of the Commonwealth
Caribbean**

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Graduate Recruiter
University of the Commonwealth Caribbean
17 Worthington Avenue
Kingston 5, Jamaica, W.I.
Email: graduateadvisor@ucc.edu.jm
Cell: 876-822-7317

Mrs. Dianne Boyd
Director, Administration & Student Services
College of Graduate Studies & Research
University of the Commonwealth Caribbean
17 Worthington Avenue
Kingston 5, Jamaica
Phone: 876-906-3000 Ext. 4006

E-mail: dboyd@ucc.edu.jm
Contact at Florida International University

Mrs. Natalie K. Del Sol-Nuñez
Division of External Programs
Florida International University
College of Engineering and Computing
10555 W. Flagler Street, EC-2427
Miami, FL 33174
Phone: (305) 348-1673 | Fax: (305) 348-1934
Email: ndelsol@fiu.edu | Web: dep.fiu.edu

Please visit us on the web at:

<https://go.fiu.edu/graduateapplication>

Please note that the information contained herein is accurate at the time of printing but is subject to amendment at any time.

Next cohort will begin Summer 2020!* [APPLY NOW!](#)