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Florida Institute of Technology

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2023-2024 Florida Tech Catalog

This catalog is the official source of Florida Tech's academic programs, courses, policies and procedures. The catalog should be used as a guide for planning your course of study and understanding the requirements for graduation. When using the online catalog management system (Acalog™), be aware that major program requirements may change from one academic year to the next, and your requirements are based on the term you were admitted to the university.

LOOKING FOR A CATALOG FROM ANOTHER ACADEMIC YEAR?

Visit the archives at <http://www.fit.edu/catalog>
For more information, contact catalog@fit.edu.

If you are new to the online catalog, look through the [Catalog User Guide](#).
www.fit.edu

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Call toll-free 800-888-4348 (undergraduate admission) or 800-944-4348 (graduate admissions) or fax 321-723-9468
Write to Florida Institute of Technology, 150 West University Boulevard, Melbourne, FL 32901-6975
Email admission@fit.edu (undergraduate admission) or grad-admissions@fit.edu (graduate admissions)

This catalog contains current information regarding curricula, educational plans, offerings and requirements of the colleges and schools, including graduate programs, and may be altered from time to time to carry out the purposes and objectives of the university. The provisions of this catalog do not constitute a contract between the university and the enrolled student. The university reserves the right to change any provision, offering, requirement or fee at any time.

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Engineering Management, M.S.



Major Code: 8075

Age Restriction: N

Delivery Models: classroom

Degree Awarded: Master of Science

Admission Status: graduate, main campus, Extended Studies

Location/s: main campus, Aberdeen, Hampton Roads, Northeast, Orlando, Patuxent,, Redstone/Huntsville

Admission Materials: 3 letters of recommendation, résumé, objectives, GRE

The Master of Science in Engineering Management meets the professional needs of the engineer who, although working in a technical field, finds it necessary to update his or her skills in engineering, as well as acquire knowledge in the management of other engineers. Typically, engineers find that as they advance in their chosen fields, the challenges of management increasingly play a role in the overall responsibilities of the position. Many find their careers would best be served by a program addressing the management challenges of their job responsibilities. This interdisciplinary program is designed for those individuals.

Admission Requirements

An applicant for the master's program in engineering management should have a bachelor's degree from an ABET-accredited engineering program, though applicants with bachelor's degrees in physical sciences, computer science or mathematics will also be considered. Applicants who have an undergraduate GPA of less than 3.0 on a 4.0 scale may be asked to submit two letters of recommendation, a résumé, a statement of objectives and GRE results. All students are required to have a combined verbal/quantitative GRE score of 300 or higher (using the 130-170 point per part scoring system).

International applicants for whom English is not their primary language must submit paper-based TOEFL scores of 550 (or the equivalent computer- or Internet-based scores) or higher in addition to the GPA requirement.

General admission requirements and the process for applying are presented in the [Academic Overview](#) section.

Degree Requirements

The degree requires a minimum of 30 semester credit hours. Students without adequate undergraduate courses in linear and matrix algebra, calculus, probability theory and/or statistics will be required to make up these deficiencies. Courses taken to satisfy these deficiencies or any other admission prerequisites cannot be counted toward the degree requirements. Thesis students must complete a minimum of six semester credit hours of thesis ([ENM 5999](#)). More credit hours may be necessary to satisfactorily complete the thesis requirements, but only six may be counted toward the degree requirements. Nonthesis students must pass a final program examination during their final semester before graduation.

General degree requirements are presented in the [Academic Overview](#) section.

Curriculum

The master of science degree program consists of a set of required core courses and a set of elective courses as outlined below. Students who are newly admitted to the program must submit a program plan of study and have that program plan approved by their designated advisor and department head before registering for any course to be applied toward graduation requirements. Students must not register for any courses not on their approved program plan without the approval of their advisor and department head. Students pursuing this degree as a second or subsequent graduate degree must complete the change of major process and new program plan at least two semesters before graduation and no later than four weeks after starting the program. Only graduate courses in engineering, physical sciences, computer science or mathematics may be counted as transfer credit from the first graduate degree program.

There are five required core courses that all students must take, as listed below. Nonthesis students must take an additional five elective courses, subject to the restriction shown. Thesis students will substitute six semester credit hours of thesis for two elective courses.

Required Courses

Complete:

- [ENM 5100 Quality Engineering](#)
- [ENM 5200 Project Engineering](#)
- [ENM 5300 Topics in Engineering Operations and Logistics](#)
- [ENM 5420 Technology Commercialization Strategies](#)
- [ENM 5430 Strategic Situation Analysis Using Game Theory](#)

Elective Courses

A comprehensive list of elective courses is maintained by the department and is available on the department's website. Students must choose the appropriate number of courses from this list (five for nonthesis students and three for thesis students) to meet their elective course requirement.



**View any degree program
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college/school.**

Student ID: _____
Student Name: _____
Adviser Name: _____

Catalog: 2015-2016 Catalog
Program: Engineering Management, M.S.
Minimum Credits Required: _____

Engineering Management, M.S.

Major Code: 8075	Degree Awarded: Master of Science
Age Restriction: N	Admission Status: graduate, main campus, Extended Studies
Delivery Mode/s: classroom	Location/s: main campus, Aberdeen, Hampton Roads, Northeast, Orlando, Patuxent, Redstone/Huntsville
Admission Materials: 3 letters of recommendation, résumé, objectives, GRE	

The Master of Science in Engineering Management meets the professional needs of the engineer who, although working in a technical field, finds it necessary to update his or her skills in engineering, as well as acquire knowledge in the management of other engineers. Typically, engineers find that as they advance in their chosen fields, the challenges of management increasingly play a role in the overall responsibilities of the position. Many find their careers would best be served by a program addressing the management challenges of their job responsibilities. This interdisciplinary program is designed for those individuals.

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Required Courses

Complete:

Course Name	Term Taken	Grade	Gen Ed
ENM 5100 Quality Engineering			
ENM 5200 Project Engineering			
ENM 5330 Topics in Engineering Operations and Logistics			
ENM 5420 Technology Commercialization Strategies			
ENM 5430 Strategic Situation Analysis Using Game Theory			

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Notes:



Once you can see the degree program, select the icon at the top to print a degree planner.



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- Search by subject, prefix, number or keyword

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Filter this list of courses using course prefix, course code, keywords or any combination.

Prefix:	Code or Number:	Type	Keyword or Phrase:	
All prefixes... ▾	<input type="text"/>	All types... ▾	<input type="text"/>	<input type="button" value="Filter"/>

Find whole word or phrase only.

Aviation Human Factors

- [AHF 3101 Introduction to Human Factors](#)
- [AHF 3102 Advanced Human Factors](#)
- [AHF 4001 Research Methods in Human Factors](#)
- [AHF 4302 Human-Automation Interaction](#)



Course Descriptions

- Clicking on a course title opens it to the full description; clicking a second time closes it. Clicking on the prerequisite or corequisite shows that full description.

[BUS 2303 Macroeconomics](#)

BUS 2303 Macroeconomics

Credit Hours: 3

Introduces the concepts that aid in understanding both aggregate economic conditions and the policy alternatives designed to stabilize national economies. Includes the determination of GDP and national income, inflation, unemployment, monetary policy, economic growth and exchange rates.

(SS)

Prerequisite: [MTH 0111](#) or [MTH 1011](#) or [MTH 1012](#) or [MTH 1000](#) or [MTH 1001](#) or [MTH 1002](#) or [MTH 1051](#) or [MTH 1603](#) or [MTH 1701](#) or [MTH 1702](#) or [MTH 1703](#) or [MTH 2001](#) or [MTH 2051](#) or [MTH 2201](#) or [MTH 2202](#) or [MTH 2332](#) or [MTH 2401](#).

[COM 1101 Composition and Rhetoric](#)

[MTH 1701 College Algebra](#)

(15 Credit Hours)

plete:

[BUS 1502 Foundations in Creativity, Innovation, and Entrepreneurship](#)

MTH 2001 Calculus 3

Credit Hours: 4

Cylindrical and spherical coordinates, vectors, functions of several variables, partial derivatives and extrema, multiple integral, vector integral calculus.

Prerequisite: [MTH 1002](#)

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Advanced Search

- Find what you need by using the advanced search function, giving you the ability to find anything, anywhere in the catalog system.



2015-2016 Catalog

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Enter a keyword or phrase.

Find whole word or phrase only.

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★ ?



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1. Do I need to log into the catalog system with my Tracks information?
No. There is no login to view the catalog, but if you want to use the My Personal Catalog and save your selections, you will be prompted to create an account in the system.
2. How do I find out if prerequisites are required for a course? *You can click on any live course to open its full description, including any prerequisites, corequisites or other restrictions to registration.*
3. Where can I find the major code? *The top of the degree program has useful information, including admission requirements, locations where the program is offered and the major code.*