**Environmental Engineering program**

**Master of Environmental Engineering (M.E.V.E.) Degree**

**DEGREE INFORMATION**

**Program Admission Deadlines:**

**Fall:** February 15

**Spring:**  October 15

**Summer:** February 15

**Minimum Total Hours:** 30

**Program Level:** Master’s

**CIP Code:** 14.1401

**Dept. Code:** EGX

**Program (Major/College):** EVE EN

**Approved:** 1997

**CONTACT INFORMATION**

**College:** Engineering

**Department:** Civil and Environmental Engineering

**Contact Information:** [www.grad.usf.edu](http://www.grad.usf.edu/)

**PROGRAM INFORMATION**

The M.E.V.E. degree provides a student with the opportunity to earn the advanced degree by coursework only. Students must have an accredited first degree in engineering or complete a list of makeup engineering coursework. Graduates of the program are prepared for careers with governmental agencies, nongovernmental organizations (NGOs), or private industry and firms involved in planning, design, research and development, or policy.

**Accreditation:**

Accredited by the Commission on Colleges of the Southern Association of College and Schools.

**Major Research Areas:**

The major areas of study are water quality engineering; air quality engineering; fate and transport of contaminants in the environment; environmental biotechnology and nanotechnology; waste management; sustainability and ecological engineering; surface water hydrology and hydraulics; groundwater hydrology; water reuse; green engineering; renewable energy; fate of emerging contaminants; and humanitarian engineering with a focus on the developing world.

**ADMISSION INFORMATION**

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

**Program Admission Requirements**

* Undergraduate GPA ≥ 3.0 preferred.
* GRE with preferred minimum scores of V 145 (25th percentile), Q 155 (60th percentile), AW 3.0 (15th percentile); or valid Fundamentals of Engineering (FE) certificate. Verification of FE certification should be obtained from the professional engineering (PE) board where the FE certification was obtained. See the CEE department website for more information: <http://www2.eng.usf.edu/cee/graduate/apply.htm>.
* TOEFL (international applicants only) 79 (550 paper-based exam); or IELTS 6.5.
* Two Letters of Reference provided at the time of application.
* Statement of Purpose provided at the time of application.
* Resume provided at the time of application.
* Exceptions made on a case-by-case basis where warranted.

**DEGREE PROGRAM REQUIREMENTS**

**Total Program Minimum Hours 30 hours**

The minimum coursework requirement for the Master of Engineering in Environmental Engineering degrees is 30 credit hours. No research thesis is required. All students must take three “principles” courses (Physical/Chemical Principles; Biological Principles; Aquatic Chemistry), at least one “sustainability” course, and at least two environmental engineering “process” elective courses.

**Core Courses (required) - 12 hours minimum**

ENV 6002 3 Physical & Chemical Principles of Environmental Engineering

EES 6107 3 Biological Principles of Environmental Engineering

ENV 6666 3 Aquatic Chemistry

And at least one of the following:

CGN 6933 3 Green Engineering for Sustainability ***or***

CGN 6933 3 Green Infrastructure for Sustainable Communities ***or***

ENV 6510 3 Sustainable Development Engineering

**Elective Courses-18 hours minimum**

(≥18 hours, at least two courses must be from this list)

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ENV 6519 3 Physical & Chemical Processes for Groundwater Remediation

ENV 6564 3 Environmental Engineering Design

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**Comprehensive Exam**

Portfolio and oral interview are used in lieu of a comprehensive exam. The purpose of the portfolio and interview is for students to demonstrate that they have achieved a minimum level of proficiency in stipulated competencies. Specifically, by the time they graduate, students will demonstrate

* an ability to plan, compose, and integrate verbal, written, virtual, and graphical communication of a project to technical and non-technical audiences, and
* an ability to formulate and solve complex problems in Environmental Engineering using relevant data and techniques.

Additional details regarding portfolio requirements will be provided to students by the Department.

**COURSES**

See [http://ugs.usf.edu/course-inventory](http://www.ugs.usf.edu/sab/sabs.cfm)