

Cover Sheet: Request 14606

New milestone requirement for Environmental Engineering program

Info

Process	Major Curriculum Modify Ugrad/Pro
Status	Pending at PV - University Curriculum Committee (UCC)
Submitter	Elliot Douglas elliott.douglas@essie.ufl.edu
Created	1/14/2020 10:23:32 AM
Updated	10/27/2020 11:52:04 AM
Description of request	Add a requirement that students take the Fundamentals of Engineering exam prior to graduation. This exam is the first step towards professional licensure and will help prepare students for professional practice. There is no requirement for a particular score on the exam.

Actions

Step	Status	Group	User	Comment	Updated
Department	Approved	ENG - Environmental Engineering Sciences 19100000	Chang-Yu Wu		1/14/2020
FE exam requirement 2019 catalog.docx					1/14/2020
College	Recycled	ENG - College of Engineering	Heidi Dublin	Recycled per the Department's Request	1/29/2020
No document changes					
Department	Approved	ENG - Environmental Engineering Sciences 19100000	Michael Annable		4/29/2020
No document changes					
College	Recycled	ENG - College of Engineering	Heidi Dublin	Approved by the HWCOE Curriculum committee. Faculty Council reviewed this proposal and would like to see more details on how to handle the fee before it passed along.	7/20/2020
No document changes					
Department	Approved	ENG - Environmental Engineering Sciences 19100000	Michael Annable		9/10/2020
No document changes					
College	Approved	ENG - College of Engineering	Heidi Dublin	Approved by HWCOE Curriculum Committee and Faculty Meeting (9/29).	9/29/2020
No document changes					
Associate Provost for Undergraduate Affairs	Approved	PV - APUG Review	Casey Griffith		10/27/2020
No document changes					
University Curriculum Committee	Pending	PV - University Curriculum Committee (UCC)			10/27/2020
No document changes					

Step	Status	Group	User	Comment	Updated
Office of the Registrar					
No document changes					
Student Academic Support System					
No document changes					
Catalog					
No document changes					
Academic Assessment Committee Notified					
No document changes					
College Notified					
No document changes					

Major|Modify_Curriculum for request 14606

Info

Request: New milestone requirement for Environmental Engineering program

Description of request: Add a requirement that students take the Fundamentals of Engineering exam prior to graduation. This exam is the first step towards professional licensure and will help prepare students for professional practice. There is no requirement for a particular score on the exam.

Submitter: Elliot Douglas elliot.douglas@essie.ufl.edu

Created: 8/14/2020 9:47:43 AM

Form version: 3

Responses

Major Name Environmental Engineering

Major Code ENE

Degree Program Name Bachelor of Science in Environmental Engineering

Undergraduate Innovation Academy Program No

Effective Term Earliest Available

Effective Year Earliest Available

Current Curriculum for Major The curriculum currently encourages students to take the Fundamentals of Engineering Exam, which is the first step towards professional licensure.

Proposed Curriculum Changes Students will be required to take the Fundamentals of Engineering exam prior to graduation.

UF Online Curriculum Change No

Pedagogical Rationale/Justification Professional practice as an environmental engineer typically requires a Professional Engineers license. The Fundamentals of Engineering exam is the first step in that process, and is based on topics from the undergraduate curriculum. Thus the FE exam serves as a culminating experience for students to bring together all of the topics they have learned throughout their degree. Preparation for the exam will thus reinforce a holistic view of the field and how the different elements fit together, rather than graduating with a siloed understanding of topics from different classes. Adding this requirement will also support professional accreditation by ensuring students are prepared for careers in environmental engineering.

Impact on Enrollment, Retention, Graduation There is no impact on current students. The requirement will not be applied to students currently in the major, and it does not affect any course offerings. The cost of the exam is \$175. The department will be looking for funds to create an endowment that will pay for the cost. The department will provide assistance for the fee to students with proof of need. Since the next available catalog change is for the fall 2021 catalog, the first students under this requirement will graduate no earlier than spring 2025. This provides sufficient time to obtain the funds.

Assessment Data Review Impetus for this change largely comes from the department industrial advisory board. They have suggested this change as a way to better prepare students for professional practice.

Academic Learning Compact and Academic Assessment Plan No modifications are required as no courses are being modified.

Catalog Copy Yes

DEPARTMENT REQUIREMENTS

Before graduating, all students must take the Fundamentals of Engineering Exam, which is the first exam leading to professional licensure as an engineer.

Qualified students are encouraged to pursue master's and doctoral studies to increase their knowledge and broaden their employment opportunities.

EDUCATIONAL OBJECTIVES

Environmental engineering graduates will continue to develop and apply their knowledge and skills to identify, prevent, and solve environmental problems. Evidence of achievement of this objective includes one or more of the following:

- Passing the Fundamentals of Engineering Examination
- Obtaining and maintaining a Professional Engineering License
- Admission to graduate school, including medical, law or other professional schools
- Completing educational and professional short courses

Program graduates can aspire to careers that benefit society as a result of their educational experiences in science, analysis and design, as well as in their social and cultural activities. Evidence of achievement of this objective includes the following:

- Employment as an engineer or in a related technical capacity
- Participating in professional organizations
- Providing community service

Program graduates will be able to communicate and work effectively in all work settings including those that are multidisciplinary. Evidence of achievement of this objective includes one or more of the following:

- Publication in scientific and engineering journals
- Presenting at scientific and engineering conferences
- Teaching
- Contributing to scientific and engineering studies
- Service as a task or team leader

MISSION

The mission of the Department of Environmental Engineering Sciences (EES) is to provide quality undergraduate and graduate educational programs in environmental engineering sciences, to conduct an internationally recognized environmental research program that benefits humanity, and to provide authoritative guidance to individuals and organizations charged with preventing and solving local, state, national and global environmental problems. EES serves as a leader in interdisciplinary programs aimed at solving environmental problems and as a major on campus crucible for identification, conceptualization and resolution of environmental issues.

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