Academic Assessment Plan

University of Florida

Academic Affairs

Academic Colleges

College of Engineering

Certificates

Cell Engineering & Regenerative Medicine

Mission

To provide engineering students with an intellectually rigorous set of courses that emphasizes both fundamental and advanced aspects of cell engineering and regenerative medicine and provides students with the knowledge required to pursue both academic and industry careers in this field.

Responsible Roles: Associate Professor (Lele, Tanmay)
Program: Cell Engineering & Regenerative Medicine
Progress:

PG 1: Program Goal

The Cell Engineering and Regenerative Medicine certificate will enroll at least 5 students annually. Of those that enroll, at least 75% should complete the certificate. These students will complete the certificate in the first three years of being in the program.

Evaluation Method

Enrollment figures will be used to evaluate.

Responsible Role: Associate Professor (Lele, Tanmay)
Progress:

SLO 1: Knowledge

Demonstrates knowledge of cellular engineering and regenerative medicine to apply, analyze, identify, distinguish and evaluate assumptions, methodology and/or evidence of concepts, constructs and theory to provide a valid response, conclusion or recommendation.

SLO Area (select one): Knowledge (Grad)
Responsible Role: Associate Professor (Lele, Tanmay)
Progress:

Assessment Method

Student learning outcomes are taught and assessed according to the following:

- Instruction: Required courses
- Assessment: Specific exam questions that address the SLOs described above will be selected for each course. These questions will be selected by the course instructor in collaboration with the Institute Director or Associate Director, and will be assessed by the course instructor.

Cell Engineering & Regenerative Medicine Academic Assessment Plan

Start: 7/1/2016
End: 6/30/2017
Progress: Completed
Providing Department: Cell Engineering & Regenerative Medicine
Responsible Roles: Associate Professor (Lele, Tanmay)

Research (Graduate and Professional AAPs only)

There is no research component to this certificate.

Assessment Timeline (Graduate and Professional AAPs only)

Student Learning Outcomes	Assessment
KNOWLEDGE	
Broad-based knowledge	Each Semester: SLO-based Exam Questions
Critically read and evaluate literature	An assessed component of literature review and evaluation is in the required course BME 6330 (Stem Cell Engineering), and the electives EMA 6583 (Bioadhesion Science & Engineering) and BME 6938 (Magnetic Biomaterials).

Curriculum Map (UG AAPs only)

Assessment Cycle (All AAPs)
Analysis and Interpretation: July – August

Program Modifications: Completed by August 31

Dissemination: Completed by September 30

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Student Learning Outcomes	Year				
KNOWLEDGE	2015-16	2016-17	2017-18	2018-19	2019-20
Broad-based knowledge	X			X	
Critically read and evaluate literature	X			X	

Methods and Procedures (UG and Certificate AAPs)
Rubrics for assessing the SLOs are the primary method of assessment.

SLO Assessment Rubric (All AAPs)

Student Learning Outcomes	Assessment
KNOWLEDGE	
Broad-based knowledge	Each Semester: Exams
Critically read and evaluate literature	An assessed component of literature review and evaluation is in the required course BME 6330 (Stem Cell Engineering), and the electives EMA 6583 (Bioadhesion Science & Engineering) and BME 6938 (Magnetic Biomaterials).
Assessment Rubric	In each course, 70% of students will achieve 70% correct answers (on average) on the exams.

Measurement Tools (Graduate and Professional AAPs Only)
Assessments are measured using course exams and instructor evaluation of in-class projects/presentations that require students to review scientific literature, perform an appropriate analysis, assimilate, and present to the entire class.

Assessment Oversight (All AAPs)

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Academic Assessment Plan Entry Complete: ☑