

Cover Sheet: Request 14586

Advanced Engineering Ceramics

Info

Process	AAPs/SLO New/Change Ugrad/Grad/Pro
Status	Pending at PV - Academic Assessment Committee
Submitter	John Mecholsky jmech@mse.ufl.edu
Created	1/7/2020 4:21:12 PM
Updated	7/20/2020 11:09:35 PM
Description of request	Approval of Advanced Engineering Ceramics for the Undergraduate Program in Materials Science & Engineering

Actions

Step	Status	Group	User	Comment	Updated
Department	Approved	ENG - Materials Science and Engineering 011909000	John Mecholsky		4/28/2020
No document changes					
College	Recycled	ENG - College of Engineering	Heidi Dublin	Recycled. Needs form to be attached. Will send form to submitter via email now.	5/4/2020
No document changes					
Department	Approved	ENG - Materials Science and Engineering 011909000	John Mecholsky		5/4/2020
Advanced_Engineering_Ceramics.docx					
College	Approved	ENG - College of Engineering	Heidi Dublin		5/8/2020
No document changes					
Academic Assessment Committee	Conditionally Approved	PV - Academic Assessment Committee	Timothy Brophy	The Academic Assessment Plan reviewed this request at its May 12, 2020 meeting. They conditionally approved this plan. Here is the condition: "The assessment plan states that course grades are used as the SLO assessment. This is not permitted by SACSCOC. Please identify the specific assessment methods that are used". Once these changes are made, I will review these and proceed accordingly.	5/13/2020
No document changes					
College	Conditionally Approved	ENG - College of Engineering	Heidi Dublin	See comments from Academic Assessment Committee. Resubmit when all have been addressed.	5/14/2020
No document changes					
Department	Approved	ENG - Materials Science and Engineering 011909000	John Mecholsky		5/14/2020
No document changes					

Step	Status	Group	User	Comment	Updated
College	Approved	ENG - College of Engineering	Heidi Dublin	Department indicates that concerns have been addressed.	7/20/2020
No document changes					
Academic Assessment Committee	Pending	PV - Academic Assessment Committee			7/20/2020
No document changes					

SLO-AAP|New for request 14586

Info

Request: Advanced Engineering Ceramics

Description of request: Approval of Advanced Engineering Ceramics for the Undergraduate Program in Materials Science & Engineering

Submitter: John Mecholsky jmech@mse.ufl.edu

Created: 5/14/2020 3:07:19 PM

Form version: 2

Responses

Name of Major Materials Science and Engineering

College Engineering

Effective Term Earliest Available

Effective Year Earliest Available

Request Type New Certificate Academic Assessment Plan

Campus Labs Planning The AAP has not been submitted into Campus Labs Planning

New SLO or SLOs SLO1: Apply principles of engineering, math, and science to solve complex problems in ceramic materials

Program Type Undergraduate

Indicate the areas of the SLOs (undergraduate) Critical Thinking

Indicate the areas of the SLOs (graduate and professional) N/A request is Undergraduate

What types of assessments will be used? Course Assessments/Assignments

Describe other type of assessment: Evaluation of selected problem(s) in the course indicated below using the following rubric:

- 1) No solution is proposed or minimal progress towards a solution is made
- 2) Solution is fundamentally incorrect due to inaccurate application of one or more principles
- 3) Significant progress is made to a solution, but the problem is not solved in its entirety
- 4) Only a few minor errors are found in path to solution
- 5) Solution is correct and complete

The threshold of acceptability is 80% of students scoring 3 or higher.

What assessment methods will be used? Rubric

Who applies the method? Single Faculty Member

Academic Learning Compact Statement The Herbert Wertheim College of Engineering is pleased to offer an Advanced Engineering Ceramics Certificate for engineering undergraduate students. The Certificate primarily serves students who are majoring in Materials Science and Engineering, but can be completed by students in any major. This Certificate consists of a sequence of courses in the area of Advanced Engineering Ceramics, offering broad and deep coverage of processing, structure, processing, and performance for these materials.

ALC Graduation Requirement Statement Students have successfully passed EMA 3050, EMA 4144 and EMA 4145

ALC Standard Learning Outcomes Apply principles of engineering, math, and science to solve complex problems in ceramic materials

ALC Types of Assessment Evaluation of selected problem(s) in the course indicated below using the following rubric:

- 1) No solution is proposed or minimal progress towards a solution is made
- 2) Solution is fundamentally incorrect due to inaccurate application of one or more principles
- 3) Significant progress is made to a solution, but the problem is not solved in its entirety
- 4) Only a few minor errors are found in path to solution
- 5) Solution is correct and complete

The threshold of acceptability is 80% of students scoring 3 or higher.

New Undergraduate Certificate Academic Assessment Plan

Name of the certificate:

Advanced Engineering Ceramics

Program (Certificate) Mission:

The Herbert Wertheim College of Engineering is pleased to offer an Advanced Engineering Ceramics Certificate for engineering undergraduate students. The Certificate primarily serves students who are majoring in Materials Science and Engineering, but can be completed by students in any major. This Certificate consists of a sequence of courses in the area of Advanced Engineering Ceramics, offering broad and deep coverage of processing, structure, processing, and performance for these materials.

Program Goal

Title

PG1: Increase enrollment in the certificate program

Evaluation Method

The number of students enrolled in the certificate will be tabulated each spring. This tabulation will be interpreted in light of the fact that there are 5 certificates offered (Advanced Engineering Ceramics, Biomaterials, Metallurgical Engineering, Polymer Science and Engineering, and Semiconductor Materials) that can be completed by students pursuing a major in Materials Science and Engineering with careful, but mutually-exclusive selection of electives.

Student Learning Outcome

Title

SLO1: Apply principles of engineering, math, and science to solve complex problems in ceramic materials

Evaluation Method

Evaluation of selected problem(s) in the course indicated below using the following rubric:

- 1) No solution is proposed or minimal progress towards a solution is made
- 2) Solution is fundamentally incorrect due to inaccurate application of one or more principles
- 3) Significant progress is made to a solution, but the problem is not solved in its entirety
- 4) Only a few minor errors are found in path to solution
- 5) Solution is correct and complete

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Assessment Timeline for Advanced Engineering Ceramics

Key: I ntroduced

R einforced

A ssessed

Course:	EMA 3050	EMA 4144	EMA 4145
SLOs			
Content Knowledge			
#1	I	R	A

Assessment Cycle

Year	18-19	19-20	20-21	21-22	22-23	23-24
SLOs						
Content Knowledge						
#1		X	X	X	X	X

Assessment Oversight

Name	Department Affiliation	Email Address	Phone Number
Hans van Oostrom	HWCOE	oostrom@ufl.edu	352-392-1345