

CALIFORNIA STATE POLYTECHNIC UNIVERSITY, POMONA  
ACADEMIC SENATE

ACADEMIC PROGRAMS COMMITTEE  
REPORT TO  
THE ACADEMIC SENATE  
AP-018-190

Elevation of Materials Engineering Emphasis in the Master of Science in Engineering to  
a full Master of Science in Materials Engineering Degree (State-Support)

Academic Programs Committee

Date: 03/06/2020

Executive Committee  
Received and Forwarded

Date: 04/22/2020

Academic Senate

Date: 05/06/2020  
First Reading

## BACKGROUND:

The Department of Chemical and Materials Engineering has long offered graduate instruction via the Emphasis in Materials Engineering under the Master of Science in Engineering. However, EO 1071 requires that all emphases or options under a program have a majority of their coursework in common. Because the Emphasis in Materials Engineering is quite distinct from the other emphasis under the Master of Science in Engineering, the Department of Chemical and Materials Engineering proposes to elevate the existing emphasis to a full-fledged, independent program that is essentially identical in content to the long-existing program (recently revised for semester conversion). This program will continue to provide the student with a comprehensive preparation for advanced work in the materials engineering profession.

The MSMTE program will be the kernel of an interdisciplinary, cross-cutting, postgraduate education initiative designed for students from across engineering disciplines and the physical sciences. The program addresses numerous topics in materials design and processing as they impact the energy, aerospace, chemical and biomedical engineering sectors.

The program is to facilitate applied research on relevant engineering topics. Such research should 1) serve societal needs by addressing contemporary issues, 2) contribute to the professional development of both students and faculty and 3) provide preparation for further academic study and research for those students who wish to pursue a Ph.D. degree.

The Academic Programs Committee has reviewed these documents and completed a university wide consultation.

## RESOURCES RECOMMENDED:

Dean of College of Engineering  
Associate Deans of all Colleges  
Department Chairs  
College of Extended University  
Budget committee

## RESOURCES CONSULTED:

Dean of College of Engineering  
Associate Deans of all Colleges  
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### DISCUSSION

Before reaching the Academic Programs Committee, this program was reviewed by the Department Curriculum in Department of Chemical and Materials Engineering, the College Curriculum Committee in the College of Engineering, and the Office of Academic Programs. All concerns raised at those levels were addressed. The Academic Programs Committee then conducted campus-wide consultation, as well as its own review of the program. No concerns were raised.

### RECOMMENDATION:

The Academic Programs Committee recommends approval of the new Master of Science in Materials Engineering (MSMTE) (Self-Support).