TO: The Engineering Faculty

FROM: The Faculty of the School of Mechanical Engineering

RE: New Course – ME 19800 PMEA Leadership Prgm

The Faculty of the School of Mechanical Engineering has approved allowing new course ME 19800 PMEA Leadership Prgm. This action is now submitted to the Engineering Faculty with a recommendation for approval.

ME 19800 – PMEA Leadership Prgm

Credit Hours: 1.00. A weekly seminar that includes topics such as leadership, professional skills, teamwork, and the Mechanical Engineering culture. Students will utilize these skills while representing Mechanical Engineering (as Purdue Mechanical Engineering Ambassadors) to current and prospective students, alumni, donors, and other visitors to the school.

Rationale

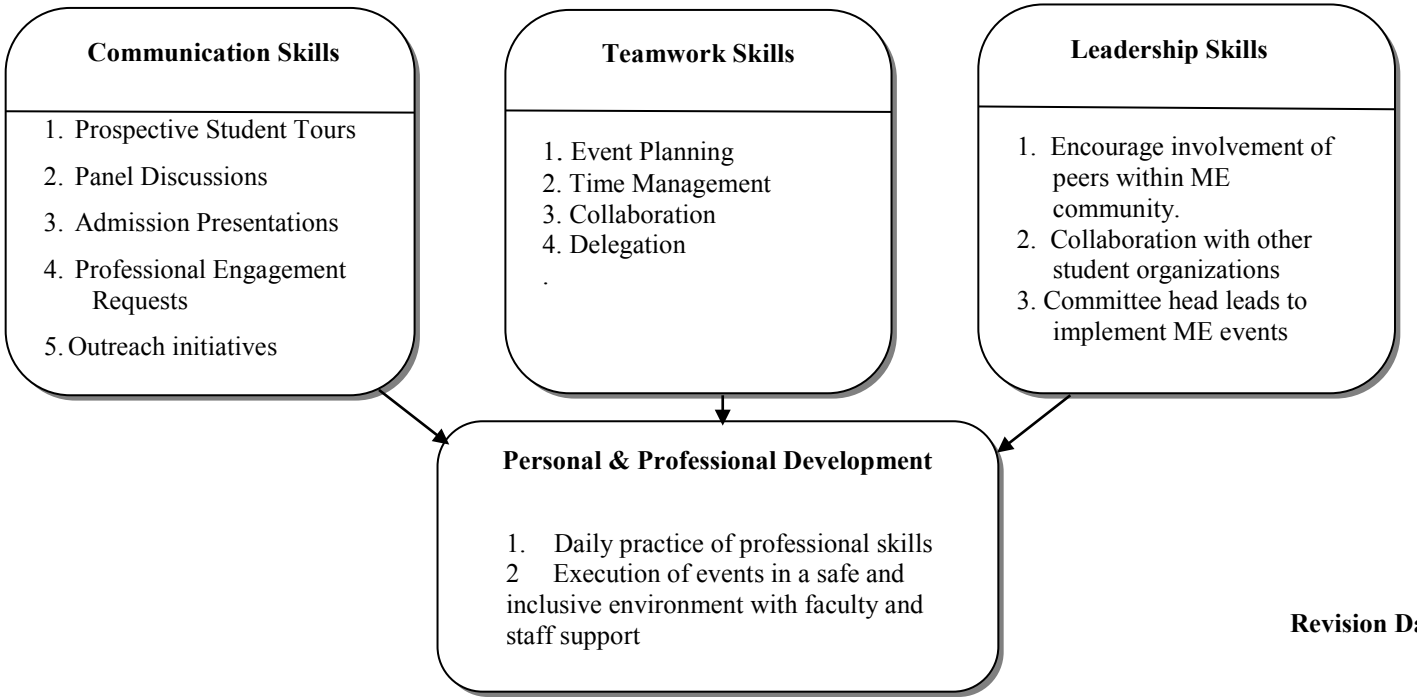
High school students as well as First-Year Engineering students frequently struggle with the decision as to which professional School to pursue. The PMEA ambassadors present to prospective high school students and First-Year Engineering students some of their involvements with the program and provide a student perspective regarding the various programs (Co-op, GEP, Study Abroad, research, etc) the school has to supplement the ME core curriculum. Students must be selected as a Purdue Mechanical Engineering Ambassador and must be currently enrolled as a Mechanical Engineering student. The faculty and ME Undergraduate Academic Advising Office also provide recommendations and input to the selection of the students.

James D. Jones, Associate Head/Professor
School of Mechanical Engineering

ME 19800
PMEA Leadership Program

Course Outcomes

1. Ability to function effectively with a student run team whose members create a collaborative and inclusive environment, plan events, and meet the objectives of the ME Undergraduate Program. (5)
2. Communicate effectively with a range of audiences. (3)
3. Provide students with the opportunity to develop a personal philosophy of leadership that includes an understanding of self, others, and community. (5)



Revision Date: 2/4/2020

COURSE NUMBER: ME 19800 **COURSE TITLE:** PMEA Leadership Prgm

REQUIRED COURSE OR ELECTIVE COURSE: Elective

TERMS OFFERED: Fall and Spring

TEXTBOOK/REQUIRED MATERIAL: None

PRE-REQUISITES: Mechanical Engineering Status – selected by peer PMEA members and nominated by ME faculty and staff

COORDINATING FACULTY: J. Jones

COURSE DESCRIPTION: High school students as well as First-Year Engineering students frequently struggle with the decision as to which professional School to pursue. The PMEA ambassadors present to prospective high school students and First-Year Engineering students some of their involvements with the program and provide a student perspective to regarding the various programs (Co-op, GEP, Study Abroad, research, etc) the school has to supplement the ME core curriculum. Students must be selected as a Purdue Mechanical Engineering Ambassador and must be currently enrolled as a Mechanical Engineering student. The faculty and ME Undergraduate Academic Advising Office also provide recommendations and input to the selection of the students.

COURSE OUTCOMES:

1. Ability to function effectively with a student run team whose members create a collaborative and inclusive environment, plan events, and meet the objectives of the ME Undergraduate Program. (5)
2. Communicate effectively with a range of audiences (3).
3. Provide students with the opportunity to develop a personal philosophy of leadership that includes an understanding of self, others, and community. (5)

ASSESSMENTS TOOLS:

1. Class attendance and participation.
2. Execution of student events

RELATED ME PROGRAM OUTCOMES:

1. Engineering fundamentals
2. Engineering design
3. Communication skills
4. Ethical/Prof. responsibilities
5. Teamwork skills
6. Experimental skills
7. Knowledge acquisition

PROFESSIONAL COMPONENT:

1. Engineering Topics: Engineering Science –1 credit (100%)

NATURE OF DESIGN CONTENT: N/A

COMPUTER USAGE: N/A

COURSE STRUCTURE/SCHEDULE:

1. Lecture – 1 day per week at 50 minutes.

PREPARED BY: J. Jones **REVISION UPDATE:** Jan. 15, 2020