

Program Educational Objectives of the Mechanical Engineering Program

PROPOSED: (Version 1.3)

1. Graduates in professional practice perform the duties of a Mechanical Engineer consistent with the expectations of employers.
2. Graduates pursue advanced studies or engage in other life-long learning activities.

CURRENT: (Version 1.2)

1. Graduates entering immediately into professional practice upon graduation are capable of performing duties of an entry-level engineering position.
2. Graduates pursuing graduate studies are capable of successfully completing an advanced degree.
3. Graduates recognize the need for and are capable of pursuing life-long learning.

Recent Document History	
Version	Adopted/Reaffirmed
1.3	xx/xxxx
1.2	10/2002
1.1	10/2001

Note: Adoption of a new Version requires approval of the revision by a majority vote at a Faculty Meeting or comparable event to which all Department Faculty members are invited.

DOCUMENT REVISION HISTORY

Version 1.3 [adopted xx/xxxx]

Changes from previous version:

- Combined PEO #2 and PEO #3 into reworded version of PEO #2.
- Added PEO #3.

Adoption process:

- 9/28/005: draft discussed at Department Faculty Retreat
- 10/26/2005: draft approved at Department Faculty Meeting
- 9/6/2006: draft revised at Department Faculty Meeting
- 9/8/2006: draft adopted via email poll of entire Department Faculty
- 9/??/2006: review and comment by Department Advisory Board
- 9/??/2006: review and comment by alumni on newsletter distribution list
- 9/??/2006: review and comment by student leadership
- 9/??/2006: considering input from the above sources, new version adopted at Department Faculty Meeting

Version 1.2 [adopted 10/2002]

Changes from previous version:

- Document History table added to the document.
- A note defining the process for adopting future changes to the document was added.
- Document Revision History added to the document.

Adoption process: adopted at a Department Faculty Meeting after discussion at Dept. Faculty Retreat.

Version 1.1 [adopted 10/2001]

Changes from previous version:

- A complete revision motivated by a new clarification that Program Educational Objectives “state what it is expected that graduates can do within the first few years after graduation.”

Adoption process: developed and adopted at a Faculty Retreat.

Version 1.0 [adopted 3/2000]

Starting point was a clean sheet of paper. First attempt at satisfying EC2000 Criteria.

Adoption process: developed and adopted at a Faculty Retreat.

Comments on PEOs (jih, 9/6/2006)(to be deleted after draft approval)

1. From 2006-2007 Criteria for Engineering Programs:

“... program educational objectives are broad statements that describe the career and professional accomplishments that the program is preparing graduates to achieve.

Each engineering program for which an institution seeks accreditation or reaccreditation must have in place:

- (a) detailed published educational objectives that are consistent with the mission of the institution and these criteria
- (b) a process based on the needs of the program’s various constituencies in which the objectives are determined and periodically evaluated
- (c) an educational program, including a curriculum that prepares students to attain program outcomes and that fosters accomplishments of graduates that are consistent with these objectives
- (d) a process of ongoing evaluation of the extent to which these objectives are attained, the result of which shall be used to develop and improve the program outcomes so that graduates are better prepared to attain the objectives.”

→ each constituency involved in definition and assessment of achievement of PEOs

→ a periodic assessment of each PEO must be performed

→ ABET does not specify that a minimum number of PEOs must be defined

2. Programs using Outcomes as Objectives have been found to not be in compliance with Criteria and instructed to revise their PEOs during the response period following a visit.

3. It will be advantageous to synchronize Review & Revision and assessment of achievement of PEOs with other departments so that college-level assessment efforts will reduce the burden that this task will place on the department.

This year, the Dean has informed the Chairs of the following timeline:

- Deadline for finalizing constituents, if not already done – September 15
- Deadline for obtaining constituent input – September 29
- Deadline for finalizing PEOs – October 13
- Deadline for distributing Assessment Instrument – November 17