

**New Common Program Outcomes [PO] for Engineering
And Engineering Technology in the College of Engineering**

Effective Fall 2009 Term Revised 2-9-09

Our programs must demonstrate that our senior students have the:

- PO “A”** Ability to apply current knowledge and applications of mathematics, science, engineering and technology
- PO “B”** Ability to design and conduct laboratory experiments as well as analyze and interpret data to improve processes
- PO “C”** Ability to creatively design a system, component or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability
- PO “D”** Ability to function effectively on multi-disciplinary teams
- PO “E”** Ability to identify, formulate, analyze and solve technical and engineering problems
- PO “F”** Understanding of professional, ethical and social responsibilities
- PO “G”** Ability to communicate effectively in writing, speaking and making presentations
- PO “H”** Broad education necessary to understand the impact of technical and engineering solutions in a global, economic, environmental and societal context
- PO “I”** Recognition of the need for, and the ability to engage in life-long learning
- PO “J”** Knowledge of contemporary issues including diversity
- PO “K”** Ability to use the techniques, skills and modern technical tools necessary for technical or engineering practice
- PO “Z”** Understanding of the commitment to quality, timeliness and continuous improvement

SMR 9Feb09