Industrial Engineering Program Outcomes

3a) Students will attain *an ability to apply knowledge of mathematics, science, and engineering*

3b) Students will attain *an ability to design and conduct experiments, as well as to analyze and interpret data*

3c) Students will attain *an ability to 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* (includes ability to design and develop integrated systems that include people, materials, information, equipment and energy)

3d) Students will attain *an ability to function on multi-disciplinary teams*

3e) Students will attain *an ability to identify, formulate, and solve engineering problems* (including the ability to improve integrated systems of people, materials, information, equipment, and energy)

3f) Students will attain *an understanding of professional and ethical responsibility*

3g) Students will attain *an ability to communicate effectively*

3h) Students will attain *the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context*

3i) Students will attain *a recognition of the need for, and an ability to engage in life-long learning*

3j) Students will attain *a knowledge of contemporary issues*

3k) Students will attain *an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice* (includes the ability to integrate systems of people, materials, information, equipment, and energy using appropriate analytical, computational, and experimental practices as well as the ability to implement such systems)