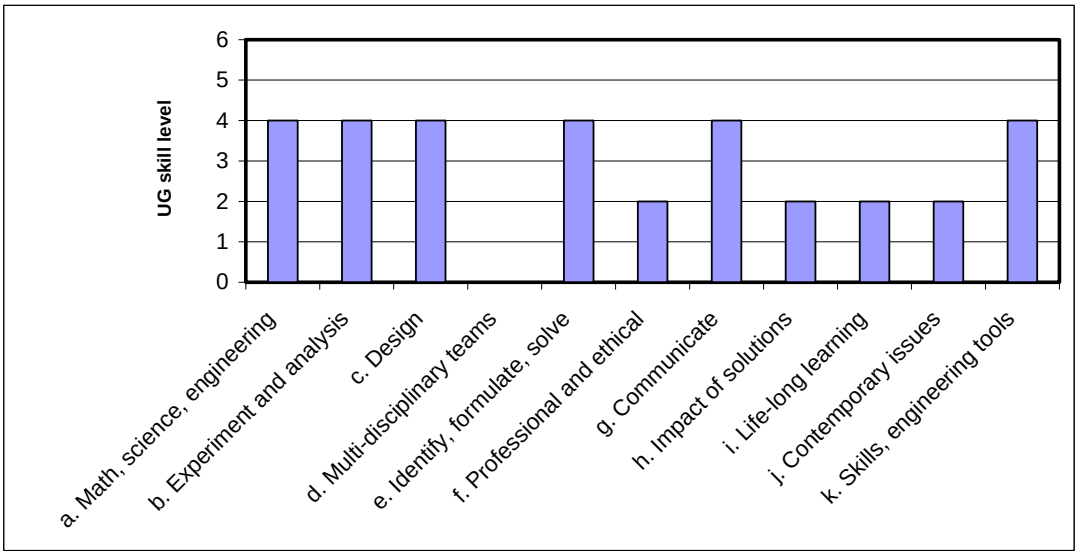
General Educational Outcome Objectives

Expectations for Courses in CHE

Class No.:	CH EN	4253
Title:		Process Design I
Instructor:		Ring
Date:		15-Aug-09

Outcome	UG skill level
a. Math, science, engineering	4
b. Experiment and analysis	4
c. Design	4
d. Multi-disciplinary teams	n/a
e. Identify, formulate, solve	4
f. Professional and ethical	2
g. Communicate	4
h. Impact of solutions	2
i. Life-long learning	2
j. Contemporary issues	2
k. Skills, engineering tools	4



Outcomes

The program outcomes are statements that describe what students are expected to know and be able to do by the time of graduation.

a) an ability to apply knowledge of mathematics, science, and engineering
b) an ability to design and conduct experiments, as well as to analyze and interpret data
c) 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
d) an ability to function on multi-disciplinary teams
e) an ability to identify, formulate, and solve engineering problems
f) an understanding of professional and ethical responsibility
g) an ability to communicate effectively
h) the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context
i) a recognition of the need for, and an ability to engage in life-long learning
j) a knowledge of contemporary issues
k) an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.