Program Outcome Assessment Matrix (Updated June 2006)

Assessment Tool Mapping - Student examples, standardized exams, and surveys

Assessment Tool	a	b	c	d	e	f	g	h	i	j	k	l	m	Title	Assessed/Reviewed by:
Student Examples	P	P	P		P	P	P	P	P	P	P		P	See next page	Faculty & DAC/Faculty
FE Exam	P					P			P						/Faculty & DAC
Senior Exit Survey	P	P	P	P	P	P	P	P	P	P	P	P	P		Student/Faculty & DAC
Alumni Survey	S	S	S	S	S	S	S	S	S	S	S	S	S		Alumni/Faculty & DAC
Employer Survey	S	S	S	S	S	S	S	S	S		S		S		Employer/Faculty & DAC

Course Mapping - Required Courses

Course	a	b	c	d	e	f	g	h	i	j	k	l	m	Title	Assessed/Reviewed by:
CHBE 100	P	P					S			S	S		S	Intro. CHBE	Students/Faculty
CHBE 120	P										P			Intro. CHBE Comp.	Students/Faculty
CHBE 213	P									S				Materials Science	Students/Faculty
CHBE 215	P				P								S	Elem. Principles I	Students/Faculty
CHBE 216	P				P			S		P			S	Elem. Principles II	Students/Faculty
CHBE 307	P										S		S	Thermodynamics I	Students/Faculty
CHBE 321	P		S		P									Fluid Mechanics Ops	Students/Faculty
CHBE 322	P		S		P						P			Heat Transfer Ops	Students/Faculty
CHBE 323	P		S		P								S	Mass Transfer Ops	Students/Faculty
CHBE 328	P	S	P		P		S			S				Reaction Engineering	Students/Faculty
CHBE 407	P				P						S			Thermodynamics II	Students/Faculty
CHBE 410	P		P			P		P		S				Intro to Proc. Design	Students/Faculty
CHBE 411R	P		P				P	P	P	S	P		P	Design I	Students/Faculty
CHBE 412R	P		P				P		P	S			P	Design II	Students/Faculty
CHBE 424	P		S		P						P			Transport Analysis	Students/Faculty
CHBE 438	P		S		P					S		P		Bioprocess Engineering	Students/Faculty
CHBE 442	P	P			S		P						S	CHBE Laboratory I	Students/Faculty
CHBE 443	P	P			S		P						S	CHBE Laboratory II	Students/Faculty
CHBE 451	P		P		S						S			Proc. Dynamics & Cont.	Students/Faculty

Course Mapping - Focus area electives and CORE 2.0 courses

ENVE 444						P		P	S	P		P		Haz. Waste Manage.	Students/Faculty
ENVE 445	P		P		P	S	S	S		S		P		Haz. Waste Treatment	Students/Faculty
CHBE 452										S		P		Adv. Eng. Materials	Students/Faculty
CHBE 463		P			P		S					P		Composite Materials	Students/Faculty
CHBE 467							S			S		P		Intro. Polymer Eng.	Students/Faculty
University Seminar							P							or equivalent	
ENGL 121W							P							College Writing	
CORE (15 credits)								P						Diversity, IH, IS, IA	

P = primary course or assessment tool, S = secondary course or assessment tool

Program Outcomes: Students will attain:

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. the 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.
l. an awareness of a particular career option through study in their focus area.
m. an ability to be team contributors.