





Principal Course Indicators Map

4/11/2003

Rubric	Num	Core	a	b	c	d	e	f	g	h	i	j	k	L	M	Title	Instructor
CH E	100									33		33			33	Freshman Seminar	Seymour
CH E	213				60							20	20			Materials Science	John Mandell
CH E	215		83				50								17	Elementary Principles I	Jim Duffy
CH E	215		5				23						9			Elementary Principles I	Deibert
CH E	216						23									Elementary Principles II	Deibert
CH E	216		86				57								14	Elementary Principles II	Duffy
CH E	220		76												94	Computations in Chemical Engineering	Larsen
CH E	251 V							50	67	50		17		33		Societal Impacts of Chemical Engineering	Phil Stewart
CH E	307			21			79							16		Chemical Equilibrium	Sears
CH E	322		60		36		60							16		Fluid Mechanics and Heat Transfer	Ron Larsen
CH E	323		91		73									9		Mass Transfer Operations	Duffy
CH E	328		60			20	20									Chemical Reaction Kinetics	Daniel L Shaffer
CH E	400								33		33					Professionalism in Chemical and Biological Engineering	Larsen
CH E	402				33		67							6		Chemical and Petroleum Industries	Sears
CH E	411 C		40		60	20			20							Design of Chemical and Petroleum Processes I	Shaffer
CH E	412 C		25		25	20			25						25	Design of Chemical and Petroleum Processes II	Shaffer
CH E	415				45									10		Design Case Studies	Deibert
CH E	424		100				60							80		Transport Analysis	Joseph Seymour
CH E	438		43		14									71		Bioprocess Engineering	Stewart
CH E	441		29	43			29		14						43	CH E Laboratory	Sears, Seymour, Yurt
CH E	444							25		25	50	25				Hazardous Waste Management	Shaffer
CE	445		60		80	10	60	20	10	30		10	20	40	10	Hazardous Waste Treatment	King
CH E	451		69	13	13		81							69		Process Dynamics and Control	Larsen

- a** Ability to apply knowledge of math, engineering, and science.
- b** Ability to design and construct experiments.
- c** Ability to design a system, component, or process.
- d** Ability to function on multi-disciplinary teams.
- e** Ability to identify, formulate, and solve engineering problems.
- f** Understanding of professional and ethical responsibility.
- g** Ability to communicate effectively.
- h** Have the broad education necessary to understand the impact of engineering solutions in a global and societal context.
- i** Recognition of the need for and ability to engage in life-long learning.
- j** Knowledge of contemporary issues.
- k** Ability to use techniques, skills, and modern engineering tools necessary for engineering practice.
- L** Quickly contribute in their focus area.
- M** Team contributors.

Notes

-  Yellow background indicates these courses were drawn from the "2" (secondary indicator) list.
-  Green background indicates that scores for these courses have yet to be established
-  Heavy border indicates courses that will be used as a principal indicators for this program outcome
-  Shaded background (any color) indicates program outcomes that will be tagged for each course.