

Chemical Engineering Graduate Program for BS Chemists^a

<u>I. Complete Prerequisites for Graduate Work and Necessary ChE Professional Skills</u>	Semester Hours
CHEN 2100/2101 Principles of Chemical Engineering and Lab	3+1 = 4
ENGR 2010 Engineering Thermodynamics	3
CHEN 2610 Transport I – Fluids and Fluid/Solids	3
CHEN 3370 Phase & Reaction Equilibria	3
CHEN 3620 Transport II – Heat and Mass Transport	3
CHEN 3700 Chemical Reaction Engineering	3
CHEN 3650 Analysis	3
CHEN 3660 ChE Separations	3
CHEN 3820 ChE Lab I ^{b,c}	2
CHEN 4450 Process Economics ^b	<u>2</u>
Total:	29 hours

II. Graduate Work (Select one of the following)

<u>PhD Chemical Engineering</u> w/Research Dissertation ^d 60 hours	<u>MS Chemical Engineering</u> w/Research Thesis ^d 30 hours	<u>MChE Chemical Engineering</u> NonThesis Masters ^d 32 hours
-------------------------------------------------------------------------------------	------------------------------------------------------------------------------	--------------------------------------------------------------------------------

Notes:

- a. BS degree should be from a program accredited by the American Chemical Society. The accreditation assumes that the students have taken: General Physics, Calculus and Differential Equations, General, Organic and Physical Chemistry, Computer Science
- b. Can be taken concurrent with core graduate courses if necessary.
- c. Not needed for PhD Program
- d. See detailed requirements for the selected graduate program. Graduate-level elective work from previous studies, CHEN 6000 level Design and CHEN 6000 level Control courses can be substituted as part of the graduate electives.