

CHEMICAL ENGINEERING 128-HOUR CURRICULUM WORKSHEET

Chemical Engineering Research and Development Concentration

FRESHMAN YEAR

First Semester			Credit Hours	Grade Earned	Second Semester			Credit Hours	Grade Earned
CH 1211	Inv. in Chemistry		1		CH 1221	Inv. in Chemistry	1		
CH 1213	Fund. of Chemistry		3		CH 1223	Fund. of Chemistry	3		
CHE 1101	CHE Freshman Seminar		1		CHE 2213	CHE Analysis	3		
EN 1103	English Comp. I		3		EN 1113	English Comp. II	3		
MA 1713	Calculus I		3		MA 1723	Calculus II	3		
	Humanities Elective		3		PH 2213	Physics I	3		
	Social Science Elective		3						
	Total		17			Total	16		

SOPHOMORE YEAR

First Semester			Credit Hours	Grade Earned	Second Semester			Credit Hours	Grade Earned
CHE 2114	Mass and Energy Balances		4		CHE 3113	CHE Thermo I	3		
CHE 3203	Fluid Flow Ops*		3		MA 2743	Calculus IV	3		
MA 3113	Intro Linear Algebra		3		MA 3253	Differential Equations	3		
MA 2733	Calculus III		3		IE 3913	Engineering Economy I	3		
PH 2223	Physics II		3			Fine Arts Elective	3		
	Total		16			Total	15		

JUNIOR YEAR

First Semester			Credit Hours	Grade Earned	Second Semester			Credit Hours	Grade Earned
CH 4511	Organic Chem. Lab I		1		CH 4523	Organic Chemistry II	3		
CH 4513	Organic Chemistry I		3		CHE 3213	Heat Transfer Ops**	3		
CHE 3123	CHE Thermo II		3		CHE 3223	Mass Transfer Ops**	3		
MA 3353	Differential Equations II		3		CHE 3331	Professional Dev. Seminar*	1		
	Technical Elective		3		GE 3513	Technical Writing	3		
	Humanities Elective		3			Statistics Elective	3		
	Total		16			Total	16		

SENIOR YEAR

First Semester			Credit Hours	Grade Earned	Second Semester			Credit Hours	Grade Earned
CH 4413	Physical Chemistry I*		3		CHE 4223	Process Controls**	3		
CHE 3222	CHE Lab I*		2		CHE 4233	CHE Plant Design**	3		
CHE 4134	CHE Process Design*		4		CHE 3232	CHE Lab II**	2		
CHE 4113	CHE Reactor Design*		3		CHE 4313	Transport Phenomena	3		
CHE 3413	Engineering Materials*		3			Chemistry Elective	3		
						Social Sciences Elective	3		
	Total		15			Total	17		

* Taught during fall semester only

** Taught during spring semester only

Note: Statistics elective: Choose either MA/ST 4543 (Introduction to Mathematical Statistics I) or IE 4613 (Engineering Statistics I)

Chemistry Elective: choose from approved chemistry elective list.

Technical Elective: choose from approved technical elective list.