

CHEMICAL ENGINEERING CURRICULUM - 2010-2011

FALL		Grade	SPRING		Grade
FRESHMAN YEAR					
ES	1000 Orientation to Engr (I, L, O)	1	US & Wyo Constitutions		3
MATH	2200 Calculus I	4	MATH	2205 Calculus II	4
CHEM	1050 Gen Chem & Qual I	4	CHEM	1060 Gen Chem&Qual II	4
ES	1060 Intro Engr Comp	3	PHYS	1210 Engr Physics I *	4
LIFE	1010 General Biology I	4	ENGL	1010 English Comp I	3
PEAC	1001 PE Activity/Health	1			
		17			18
SOPHOMORE YEAR					
MATH	2210 Calculus III	4	MATH	2310 Applied Math I	3
CHEM	2420 Organic Chemistry I	4	CHE	2060 Intro CHE Computing	3
	Cultural Context	3	CHEM	2440 Organic Chemistry II	4
PHYS	1220 Engr Physics II	4	ES	2310 Thermodynamics	3
			ES	2330 Fluid Dynamics	3
		15			16
JUNIOR YEAR					
CHE	3000 Process Analysis	3	CHE	3030 Unit Operations	3
CHE	3015 Multicomponent Thermo	3	CHE	3040 Unit Ops Lab I	3
CHE	3025 Transport Phenomena	3	CHE	3070 Process Simul & Econ	3
CHEM	4507 Physical Chemistry I	3	CHEM	2230 Quantitative Analysis	4
	Elective**	3		Elective**	3
		15			16
SENIOR YEAR					
CHE	4050 Unit Ops Lab II (O)	2	CHE	4080 Process Design II (WC, O)	5
CHE	4060 Process Kinetics	3		Cultural Context	3
CHE	4070 Process Design I (WB)	3		Elective**	3
CHE	4090 Process Control	3		Elective**	3
	Cultural Context	3			
	Elective**	3			
		17			14

Total Hours: 128

Cultural context courses must meet the following requirements:

1) 1-CH, 1-CS, 1-CA 2) 1-G, 1-D

* The ES 2110/2120 sequence can be substituted for PHYS 1210

** Electives -- Chemical Curriculum allows for Elective Concentrations.

*** Five electives are required based on two options:

Option A: 2 CHE, 1 Departmental (CHE or PETE), 2 flexible technical electives chosen with advisor approval.

Option B: 1 CHE & Remainder chosen to satisfy a departmental concentration. **See Back for Concentration Areas**

A minimum of 48 credit hours must be upper division (3000+) level.