

CHEMICAL ENGINEERING CURRICULUM - 2011-2012

	FALL	Grade	SPRING	Grade
FRESHMAN YEAR				
ES	1000 Orientation to Engr (I, L, C	1 _____	US & Wyo Constitutions	3 _____
MATH	2200 Calculus I	4 _____	MATH 2205 Calculus II	4 _____
CHEM	1050 Adv Gen Chem I	4 _____	CHEM 1060 Adv Gen Chem II	4 _____
ES	1060 Intro Engr Prob Solv	3 _____	PHYS 1210 Engr Physics I *	4 _____
LIFE	1010 General Biology	4 _____	ENGL 1010 English Comp I	3 _____
		<u>16</u>		<u>18</u>
SOPHOMORE YEAR				
MATH	2210 Calculus III	4 _____	MATH 2310 Applied Diff Eqns I	3 _____
CHEM	2420 Organic Chemistry I	4 _____	CHE 2060 Intro CHE Computing	3 _____
CHE	2005 Process Analysis	3 _____	CHEM 2440 Organic Chemistry II	4 _____
PHYS	1220 Engr Physics II	4 _____	ES 2310 Thermodynamics	3 _____
PEAC	1001 PE Activity/Health	1 _____	ES 2330 Fluid Dynamics	3 _____
		<u>16</u>		<u>16</u>
JUNIOR YEAR				
CHE	3015 Multicomponent Thermo	3 _____	CHE 3030 Unit Operations	3 _____
CHE	3025 Transport Phenomena	3 _____	CHE 4060 Reaction Engineering	3 _____
CHEM	4507 Physical Chemistry I	3 _____	CHE 3070 Process Simul & Econ	3 _____
	Cultural Context	3 _____	Elective**	3 _____
	Cultural Context	3 _____	Elective**	3 _____
		<u>15</u>		<u>15</u>
SENIOR YEAR				
CHE	3040 Unit Ops Lab I	3 _____	CHE 4050 Unit Ops Lab II (O)	3 _____
CHE	4070 Process Design I (WB)	3 _____	CHE 4080 Process Design II (WC, C	5 _____
CHE	4090 Process Control	3 _____	Cultural Context	3 _____
	Elective**	3 _____	Elective**	3 _____
	Elective**	3 _____	Elective**	3 _____
		<u>15</u>		<u>17</u>

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), 3 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.