

CHEMICAL ENGINEERING

Petroleum Option

FRESHMAN YEAR		
FALL		
C&PE 111	Introduction to the Profession	2
CHEM 184	Foundations of Chemistry I	5
ENGL 101	Composition	3
MATH 121	Calculus I	5
		Total 15 hours
SPRING		
C&PE 121	Introduction to Computers In Engineering	3
CHEM 188	Foundations of Chemistry II	5
ENGL 102	Composition & Literature	3
MATH 122	Calculus II	5
		Total 16 hours

¹students may take C&PE 117 & 127 – Introduction to the PE Profession

JUNIOR YEAR		
FALL		
C&PE 511	Momentum Transfer	3
C&PE 512	Process Engineering Thermodynamics	3
C&PE 522	Economic Appraisal of C&PE Projects	2
CHEM 646	Physical Chemistry I	3
C&PE 527	Reservoir Engineering II	4
ENGL ____	Advanced English Elective	3
		Total 18 hours
SPRING		
C&PE 521	Heat Transfer	3
C&PE 523	Mass Transfer	4
C&PE 524	Chemical Engineering Kinetics & Reactor Design	3
CHEM 648	Physical Chemistry II	4
_____	Humanities or Soc. Science Elective	3
		Total 17 hours

SOPHOMORE YEAR		
FALL		
C&PE 211	Material & Energy Balances	3
CHEM 624	Organic Chemistry I	3
CHEM 625	Organic Chemistry I Lab	2
MATH 220	Applied Differential Equations	3
MATH 290	Elementary Linear Algebra	2
PHSX 211	General Physics I	4
		Total 17 hours
SPRING		
C&PE 221	Basic Engineering Thermodynamics	3
C&PE 517	Reservoir Engineering I	4
PHSX 212	General Physics II	4
GEOL 101/3	Introduction to Geology and Laboratory	5
		Total 16 hours

SENIOR YEAR		
FALL		
C&PE 613	Chemical Engineering Design I	4
C&PE 615	Introduction to Process Dynamics and Control	3
C&PE 616	Chemical Engineering Laboratory I	3
_____	Engineering Elective	3
_____	Humanities or Soc. Science Elective	3
		Total 16 hours
SPRING		
C&PE 623	Chemical Engineering Design II	2
C&PE 624	Plant & Environmental Safety	3
C&PE 626	Chemical Engineering Laboratory II	3
¹ C&PE ____	Petroleum Engineering Elective	3
_____	Humanities or Soc. Science Elective	3
_____	Humanities or Soc. Science Elective	3
		Total 17 hours

¹Students must take 3 credits of Petroleum Engineering Courses at the 500 level or ab

132 credit hours required for graduation

Revised October 2008 (KVC)