

## CHEMICAL ENGINEERING Practice Concentration with PTE Minor

1 <sup>st</sup> Year	Session	Course	Course Name	SH	P:Prerequisite (in general C or better); C:Corequisite
	F	CHE 1101	Intro to Chem & Petr Engr	1	C:(MA 1313, MA 1323, MA 1453, or MA 1713)
	ALL	CH 1213	Chemistry I	3	ACT Math subscore 24 or P:MA 1313
	ALL	CH 1211	Invst In Chemistry I	1	C:CH 1213
	ALL	MA 1713	Calculus I	3	ACT Math subscore 26 or P:(MA 1323 or MA 1453)
	ALL	EN 1103	En Composition I	3	ACT English subscore 17 or P:EN 0103
	ALL		Social Science Elective	3	
	ALL		Humanities Elective	3	
			<b>Total</b>	<b>17</b>	
	Sp	CHE 2213	Chemical Eng Analysis	3	C:CH 1213; C:(MA 1323, MA 1453, or MA 1713)
	ALL	CH 1223	Chemistry II	3	P:CH 1213
	ALL	CH 1221	Invst Chemistry II	1	P:CH 1211; C:CH 1223
	ALL	MA 1723	Calculus II	3	P:MA 1713
	ALL	PH 2213	Physics I	3	P:MA 1713
	ALL	EN 1113	En Composition II	3	P:(EN 1103, EN 1163, or EN 1183)
<b>2<sup>nd</sup> Year</b>			<b>Total</b>	<b>16</b>	
	F/Sp	CHE 2114	Mass & Energy Balances	4	P:CH 1223; C:MA 1723
	F/Su	CHE 3203	Fluid Flow Op	3	P:PH 2213; C:CHE 2114; C:MA 1723
	ALL	MA 2733	Calculus III	3	P:MA 1723
	ALL	EM 2413	Engineering Mech I	3	P:MA 1723; P:PH 2213
	F	PTE 3953	Petr Reservoir Rock Prop	3	P:PH 2213; C:MA 2733
			<b>Total</b>	<b>16</b>	
	F/Sp	CHE 3113	Chem En Thermo I	3	P:CH 1223; P:PH 2213; C:CHE 2114; C:MA 2733
	ALL	IE 3913	Engr Economy I	3	P:MA 1713
	ALL	MA 2743	Calculus IV	3	P:MA 2733
	ALL	EM 3213	Mech of Materials	3	P:EM 2413; P:MA 2733
	ALL		Fine Arts Elective	3	
<b>3<sup>rd</sup> Year</b>			<b>Total</b>	<b>15</b>	
	ALL	CHE 3123	Chem En Thermo II	3	P:MA 2743; P:CHE 2114; P:CHE 3113
	F/Su	CHE 3413	Eng Materials	3	P:CH 1223; P:PH 2213
	ALL	MA 3253	Diff Equations	3	C:MA 2743
	F	PTE 3903	Petr Reserve Fluid Prop	3	P:PH 2213; C:MA 2733; C:CHE 3113
	F	PTE 3963	Drilling	3	P:CHE 3203; P:EM 3213; P:PTE 3953; C:MA 2743
			<b>Total</b>	<b>15</b>	
	Sp/Su	CHE 3213	Heat Transfer Op	3	P:MA 2743; P:(CHE 3203 or EM 3313); C:CHE 3113; C:MA 3253
	Sp	CHE 3222	Chem Eng Lab I	2	P:(CHE 3203 or EM 3313); C:CHE 3213
	Sp/Su	CHE 3223	Separation Processes	3	P:CHE 3203; C:CHE 3213; C:CHE 3123
	Sp	CHE 3331	Prof Develop Seminar	1	P:Chemical Engineering majors with Junior Standing
	Sp	PTE 4903	Petr Reservoir Eng 1	3	P:CHE 2114; P:CHE 3113; P:PTE 3903; P:PTE 3953; C:MA 3253
	ALL		Social Science Elective	3	
<b>4<sup>th</sup> Year</b>			<b>Total</b>	<b>15</b>	
	F	CHE 3232	Chem Eng Lab II	2	P:CHE 3203; P:CHE 3213; P:CHE 3223
	F	CHE 4113	Chem Reactor Design	3	P:CHE 3123; P:MA 3253
	F	CHE 4134	Process Design	4	P:CHE 3123; P:CHE 3213; P:CHE 3223
	F	PTE 3973	Petroleum Production Ops	3	P:MA 2743; P:CHE 3203; P:PTE 3953; P:PTE 3903
	ALL	GE 3513	Technical Writing	3	P:EN 1103; P:EN 1113; Junior Standing
			<b>Total</b>	<b>15</b>	
	Sp	CHE 4223	Pro Instr & Con	3	P:CHE 4113; P:CHE 3223
	Sp	CHE 4233	Chemical Plant Design	3	P:CHE 4134; P:CHE 4113
	Sp	CHE 4633	Chemical Pro Safety	3	P:CHE 2114; P:CHE 3203; P:MA 1723
	ALL	CH 4513	Organic Chemistry I	3	P:(CH 1223 or CH 1244)
	ALL	CH 4511	Org Chem Lab I	1	P:CH 1221; P:CH 1223; C:CH 4513
	Sp	PTE 4923	Completion Design	3	P:PTE 3963; P:PTE 3973
<b>5<sup>th</sup> Year</b>			<b>Total</b>	<b>16</b>	
	ALL	PH 2223	Physics II (or approved substitute)	3	P:PH 2213; P:MA 1723
	ALL	CH 4523	Organic Chemistry II	3	P:(CH 4513/6513 or CH 4554)
	F/Sp		PTE minor elective <sup>1</sup>	3	
	ALL		Humanities Elective	3	
			<b>Total</b>	<b>12</b>	

<sup>1</sup> May choose among PTE 4913 (Fall offering), PTE 4953 (Spring offering), or PTE 4963 (Spring offering).