

## CHEMICAL ENGINEERING CURRICULUM

(for students entering UW Fall 2018 or later)

	FALL	Grade		SPRING	Grade
<b>FRESHMAN YEAR</b>					
	1101 First Year Seminar (FYS)	3		MATH 2205 Calculus II	4
	None			C in MATH 2200	
MATH	2200 Calculus I (Q)	4		CHEM 1060 Adv Gen Chemistry II	4
	C Math 1405 or 1450, MPE 5, ACT 27, SAT 600			CHEM 1050 (or CHEM 1020)	
CHEM	1050 Adv Gen Chemistry I (PN)	4		PHYS 1210 Engr Physics I* (PN)	4
	Concurrent MATH 2200			C in MATH 2200, Concurrent MATH 2205	
LIFE	1010 General Biology I	4		ENGL 1010 Coll Comp & Rhet (COM1)	3
	C in MATH 0921 or MPE 2, ACT 21, SAT 600			None	
		15		CHE 1005 Intro to Chemical Eng.	1
				Concurrent with MATH 2200	
					16
<b>SOPHOMORE YEAR</b>					
MATH	2210 Calculus III	4		MATH 2310 Applied Differential Eqns I	3
	C in MATH 2205			C in MATH 2205	
CHEM	2420 Organic Chemistry I	4		CHEM 2440 Organic Chemistry II	4
	CHEM 1060 (or CHEM 1030)			CHEM 2420	
CHE	2005 Chem Process Analysis	3		CHE 2060 CHE Computing	3
	Concurrent MATH 2205, C- in CHEM 1050 (or CHEM 1020)			C- in CHE 1005 or ES 1060, C- in CHE 2005, & Concurrent MATH 2310	
PHYS	1220 Engr Physics II	4		CHE 2070 Chemical Thermo I	3
	C in MATH 2200, 2205, Concurrent in MATH 2210			C- in CHE 2005, PHYS 1210 & C in Math 2210	
COM 2		3		CHE 2080 Che. Eng. Fluid Mechanics	3
	(O,WB)			C- in CHE 2005 & PHYS 1210, C in MATH 2210 & Concurrent MATH 2310	
		18			16
<b>JUNIOR YEAR</b>					
CHE	3015 Chemical Thermo II	3		CHE 3028 Mass Transfer	3
	C- in CHE 2060 & CHE 2070 or ES 2310			C- in CHE 2060 & CHE 2080 or ES 2330	
CHE	3026 Heat Transfer	3		CHE 3070 Process Simul & Econ	3
	C- in CHE 2060 & CHE 2080 or ES 2330			C- in CHE 3015 & CHE 3026 and Concurrent CHE 3028	
CHEM	4507 Physical Chemistry I	3		CHE 4060 Reaction Engineering	3
	MATH 2210, PHYS 1220, CHEM 1060 or 1030			C- in CHE 3015 & CHE 3026 and concurrent CHE 3028	
	Technical Requirement**	3		Human Culture (H)	3
	Technical Requirement**	3		None	
		15		Technical Requirement**	3
					15
<b>SENIOR YEAR</b>					
CHE	3040 Unit Ops Lab I	3		CHE 4050 Unit Ops Lab II	3
	C- in CHE 3026, CHE 3028 & CHE 4060			C- in CHE 3040	
CHE	4070 Process Design I	4		CHE 4080 Process Design II (COM3)	4
	C- in CHE 3028, CHE 3070 & CHE 4060			C- in CHE 4070 & COM 2	
CHE	4090 Process Dyn & Control	3		US & Wyo Const (V)	3
	C- in CHE 3028 and CHE 4060			None	
	Human Culture (H)	3		Technical Requirement**	3
	Technical Requirement**	3		Technical Requirement**	3
		16			16
Total Hours:	127				

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

\*\*Chemical Engineering Curriculum allows for the following Elective Concentrations:

- Petroleum Engineering
- Biological Engineering
- Environmental Engineering
- Graduate School Preparation

18 credits of Technical Requirements required (ten credits must be 3000+)

Self directed requires 9 credits of CHE Technical Courses and 9 credits of approved technical courses

Approved minors require a minimum of 6 credits of CHE Technical Courses

Approved concentrations:

Students must follow the required number of CHE Technical Courses for their approved concentration

Elective courses can also be used to obtain a concurrent Chemistry major (Plan 1 BS or BA) or a minor (Math, Business, Management, Agricultural Business, etc.), or to satisfy pre-med recommended courses. Students are referred to the respective