CHEMICAL ENGINEERING
Recommended course plan

YEAR	FIRST SEMESTER	HOURS	SECOND SEMESTER	HOURS
FRESHMAN	First Year Writing I	3	First Year Writing II	3
	Chem 105/115 – General Chemistry I, Lab	4	Chem 106/116 – General Chemistry II, Lab	4
	Math 261 – Calculus I	3	Phys 211/221 – Calc-based Physics I, Lab	4
	ChE 101 – Intr. to Chemical Engineering	2	Math 262 - Calculus II	3
	Social Science, Humanities or Fine Arts	3	ChE 251 – Programming for Chemical Engr.	3
	TOTAL CREDIT HOURS	15	TOTAL CREDIT HOURS	17
SOPHOMORE	Math 263 – Calculus III	3	Math 264 – Calculus IV	3
	Chem 221/225 – Organic Chemistry I, Lab	4	Math 353 – Differential Equations	3
	ChE 307 – Chemical Engr. Processes I	2	Phys 212/222 – Calc-based Physics II, Lab	4
	ENGR 321 – Thermodynamics	3	ChE 316 – Chem. Engr. Fluid Mechanics	3
	Social Science, Humanities or Fine Arts	3	ChE 308 – Chemical Engr. Processes II	2
			Social Science, Humanities or Fine Arts	3
	TOTAL CREDIT HOURS	15	TOTAL CREDIT HOURS	18
JUNIOR	ChE 421 – Chem. Engr. Thermodynamics	3	ChE 345 – Engineering Economy	3
	ChE 318 – ChE Heat & Mass Transfer	3	ChE 417 – Separation Processes	3
	ChE 431 – Mass & Energy Balance Lab	1	ChE 423 – Chemical Reactor Analysis	3
	ENGR 310 – Engineering Analysis I	3	Engineering Elective	3
	Advanced Science Elective	3	Tech Elective	3
	Social Science, Humanities or Fine Arts	3		
	TOTAL CREDIT HOURS	16	TOTAL CREDIT HOURS	15
SENIOR	ChE 411 – Chemical Engineering Seminar	1	ChE 433 – Chem. Engineering Design Lab	2
	ChE 412 – Process Control and Safety	3	ChE 450 – Process Optimization	1
	ChE 432 – Unit Operations Lab	1	ChE 452 – Product and Process Development	3
	ChE 449 – Process Design	3	Engr 313 – Material Science	3
	Tech Elective	3	Tech Elective	3
	Social Science, Humanities or Fine Arts	3	Tech Elective	3
	Social Science, Humanities or Fine Arts	3		
	TOTAL CREDIT HOURS	17	TOTAL CREDIT HOURS	15
			MINIMUM TOTAL CREDIT HOURS	**128**

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