

Chemical Engineering- Entrepreneurship

1 st YEAR	Session	Course	Chemical Engineering - Entrepreneurial	SH	Pre-Requisite or /Co-Requisite
1 st Semester	All	22M:031	Engineering Math I - Single Variable Calculus	4	P: H.S. Algebra & Trigonometry
	F	59:005	Engineering Problem Solving I	3	
	All	4:011	Principles of Chemistry I	4	
	All	10:003	Accelerated Rhetoric (or 10:001 & 10:002)	4	
	F	52:090	First-year Engineering Seminar	0	
Total				15	
2 nd Semester	All	22M:032	Engineering Math II - Multivariable Calculus	4	P: 22M:031
	S	59:006	Engineering Problem Solving II	3	C: 22M:031
	F/S	29:081	Introductory Physics I	4	C: 22M:031
	All	22M:033	Engineering Math III - Matrix Algebra	2	C: 22M:032
	All	4:012	Principles of Chemistry II	4	P: 4:011
	S	52:090	CBE Departmental Seminar	0	
Total				17	(1-year total = 32)
2nd YEAR					
1 st Semester	All	22M:034	Engineering Math IV - Differential Equations	3	P: 22M:033
	All		General Education Component #1	3	
	All	59:007	Fundamentals of Engineering I - Statics	2	P: 22M:031; C: 29:081
	All	59:008	Engineering Fundamentals II - Electrical Circuits	3	C: 22M:034
	All	59:009	Engineering Fundamentals III - Thermodynamics	3	P: 22M:031, 4:011, 29:081
	F	52:041	Process Calculations	3	P: 22M:031
Total				17	
2 nd Semester	S	52:103	ChE Thermodynamics	3	C: 52:041
	S	52:151	Engineering Flow and Heat Exchange	3	C: 52:041
	All	4:121	Organic Chemistry I	3	P: 4:012
	All		General Education Component #2	3	
	All		General Education Component #3	3	
	F/S	52:091	CBE Professional Seminar	0	Sophomore Status
Total				15	(2 year total = 64)
3rd YEAR					
1 st Semester	F	52:161	Mass Transfer and Separations	3	P: 52:103, 52:151
	F	52:171	Thermodynamics/Transport Laboratory	3	P: 52:151; C: 52:161
	All	4:122	Organic Chemistry II	3	P: 4:121
	All	4:141	Organic Chemistry Laboratory	3	P: 4:121; C: 4:122
	All		General Education Component #4	3	
	F/S	52:091	CBE Professional Seminar	0	Junior Status
Total				15	
2 nd Semester	S	52:105	Chemical Reaction Engineering	3	P: 52:161
	S	52:172	Chemical Reaction Engineering/Separation Lab.	2	P: 52:171; C: 52:105
	S	52:187	Chemical Process Safety	3	P: 52:161; C: 52:105
	All		Elective #1: Statistics Elective	3	
	All		Elective #2: Additional Elective	3	
	All		General Education Component #5	3	
	F/S	52:091	CBE Professional Seminar	0	Junior Status
Total				17	(3 year total = 96)
4th YEAR					
1 st Semester	F	52:185	Process Dynamics & Control	3	P: 52:105
	F		Advanced Chemical Science Elective #1	3	
	F	52:173	Senior Laboratory Experience	2	P: 52:172
	All		Elective #3: Engineering Elective	3	
	All		Elective #4: Additional Elective	3	
	All	57:015	Materials Science	3	P: 4:011; C: 22M:031
	F/S	52:091	CBE Professional Seminar	0	Senior Status
Total				17	
2 nd Semester	S	52:186	Chemical Engineering Process Design	3	P: 52:105, 52:161
	S		Advanced Chemical Science Elective #2	3	
	S		Advanced Chemical Science Elective #3: Lab	3	
	All		Elective #5: Engineering Elective	3	
	All		Elective #6: Additional Elective	3	
	F/S	52:092	Enriching Activities Seminar	0	Senior Status
Total				15	(4 year total = 128)