

Chemical Engineering Emphasis Outline

Fall Semester

Spring Semester

Freshman

ENGR120	Intro to Engineering & Design	2	ENGR180	Material Science	4
ENGR125	Engineering Graphics	3	MATH192	Calculus II	4
Math191	Calculus I	4	CHEM132	General Chemistry II	4
CHEM131	General Chemistry I	4	RELT100	God & Human Life	3
HLED120/F	Fit for Life/Fitness Activity	1	ENGR185	Engineering Statics	3
ENGL115	College Writing I	3			
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Sophomore

ENGR225	Circuit Analysis	3	ENGR285	Engineering Dynamics	3
PHYS241	Physics for Scientists I	5	MATH286	Differential equations	3
MATH240	Calculus III	4	GEN ED	Religion (RELB,RELG,RELT)	3
CHEM231	Organic Chemistry I	4	COMM104	Communication Skills	3
FTES	Physical Fitness Activity	1	ENGR485	Community Service	2
			ENGR275	Electronics I	3
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Junior

CPTR151	Computer Science I	3	ENGR310	Linear Systems Analysis	3
CHEM200	Quantitative Analysis	4	ENGR355	ChemE Lab	4
CHEM431	Physical Chem I	3	* ENGR464	Kinetics & Reactor Design	3
* ENGR345	ChemE Fundamentals	3	ENGR360	Fluid Dynamics	3
Gen ED	History	3	ENGL220/ENGL215	Technical Writing/College Writing II	3
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Senior

ENGR491	Review of Engineering Design	1	Elective	ENGR Elective	3
ENGR450	Engineering Economy	2	ENGR492	Senior Design Project	3
ENGR410	Feedback Control Systems	4	ENGR440	Heat & Mass Transfer	3
* ENGR480	Process Design	3	GEN ED	Arts/Humanities	3
GEN ED	Religion (RELB,RELG,RELT)	3	ENGR	ENGR Elective	6
GEN ED	Social Sciences	3	RELT340	Religion & Ethics in ...	3
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* Offered every other year

Suggested 4-year course outline per Bulletin 2018-2019

Total Credits for Graduation

135