

Bachelor of Science in Chemical Engineering

College of Engineering

For Students Graduating in Calendar Year 2011 (Co-op students graduating in Calendar Year 2012)

A total of 135 semester credits are required for graduation

FRESHMAN YEAR

CHEM 1035.....	General Chemistry.....	3	___
CHEM 1045.....	General Chemistry Lab.....	1	___
CHEM 1036.....	General Chemistry.....	3	___
CHEM 1046.....	General Chemistry Lab.....	1	___
ENGE 1024 [†] , ENGE 1114 [†] or ENGE 1104 [†]	Engr. Explorations, Exploration Engr. Design or Digital Future.....	2	___
ENGL 1105 [†] , 1106 [†]	Freshman English.....	3	___
MATH 1205, 1206.....	Calculus.....	3	___
MATH 1114, 1224.....	Linear Algebra, Vector Geometry.....	2	___
PHYS 2305.....	Foundations of Physics I & Lab.....	4	___
Elective*.....	3	___

SOPHOMORE YEAR

CHE 2114.....	Mass & Energy Balances.....	3	___
CHE 2004.....	ChE Sophomore Seminar.....	1	___
CHE 2124.....	ChE Simulations.....	2	___
CHE 2164.....	ChE Thermodynamics.....	3	___
CHEM 2535, 2536 (or 2565, 2566).....	Organic Chemistry.....	3	___
CHEM 2545 [†] , 2546 [†]	Organic Chemistry Lab.....	1	___
CHEM 3615.....	Physical Chemistry.....	3	___
CHEM 3625 [†]	Physical Chemistry Lab.....	1	___
MATH 2224.....	Calculus.....	3	___
MATH 2214.....	Intro to Differential Equations.....	3	___
PHYS 2306.....	Foundations of Physics I & Lab.....	4	___
Electives*.....	3	___

JUNIOR YEAR

CHE 3015.....	Process Measurements & Control.....	3	___
CHE 3114.....	Fluid Transport.....	3	___
CHE 3134.....	Separation Processes.....	3	___
CHE 3144.....	Mass Transfer.....	3	___
CHE 3044.....	Heat Transfer.....	2	___
CHE 3184.....	Chemical Reactor Analysis & Design.....	3	___
CHE 4134.....	Chemical Process Modeling.....	2	___
ENGL 3764 [†]	Technical Writing.....	3	___
MATH 4564.....	Operational Methods.....	3	___
STAT 4604 or 4705.....	Stat Methods for Engr or Statistics for Engr.....	3	___
Electives*.....	3	___

SUMMER (Must precede senior year)

CHE 4014 [†]	ChE Laboratory.....	5	___
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SENIOR YEAR

CHE 4104.....	Process Materials.....	3	___
CHE 4185 [†] , 4186 [†]	Process & Plant Design.....	4	___
ESM 2214.....	Statics & Mechanics of Materials.....	3	___
Electives*.....	6	___

ELECTIVES			
University Curriculum for Liberal Education (CLE):		Other:	
Area 2: *6 hrs.	Area 6: * 1 hr.	Technical Electives: *3 hrs.	
Area 3: *6 hrs	Area 7: *3 hrs.	Free Electives: 6 hrs.	

*Choose from approved lists.

[†] Courses for the approved Visual Expression, Writing and Speaking (ViEWS) Requirement for Chemical Engineering

Foreign Language requirement - students who did not complete 2 units of a foreign language in high school must earn 6 credit hours of a college-level foreign language, such credits to be in addition to those normally required for graduation. Entry into this restricted degree program requires a minimum 2.0 GPA overall, C- or better in ENGE 1024, and credit for ENGE 1114 or 1104; MATH 1205, 1206, 1114, 1224; CHEM 1035, 1045 1036, 1046; ENGL 1105, 1106; PHYS 2305. For **progress toward a degree**, students must make C- or better in all ChE-prefix courses and maintain a minimum in-major GPA of 2.0. If in-major GPA drops below 2.0, students will be placed on departmental probation. If an in-major GPA of 2.0 or better is not achieved after two semesters of departmental probation, the student is suspended from the department and prohibited from registering for ChE courses for at least one semester. Following suspension, permission of the ChE department head is required for registration in ChE courses. All ChE credits are used to calculate the in-major GPA. Each student must complete 135 credit hours with a minimum overall GPA of 2.0 and a minimum in-major GPA of 2.0. There are no hidden prerequisites in this program of study.