

Bachelor of Science in Chemical Engineering
College of Engineering
Graduating Class of 2009 (co-op students graduating 2010)
A total of 134 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	2 ___
ENGL 1105 [†] , 1106 [†]	Freshman English.....	3	3 ___
MATH 1205, 1206.....	Calculus.....	3	3 ___
MATH 1114, 1224.....	Linear Algebra, Vector Geometry.....	2	2 ___
PHYS 2305.....	Foundations of Physics I.....	4	___
Elective*.....		3	___

SOPHOMORE YEAR

CHE 2114.....	Mass & Energy Balances.....	3	___
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	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 II.....	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.....	Statistical Methods for Engrs.....	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 (WI, WI).....	4	4 ___
ESM 2214.....	Statics & Mechanics of Materials.....	3	___
Electives*.....		6	10 ___

CORE CURRICULUM:	ELECTIVES:
Area 2: *6 hrs. Area 6: * 1 hr. Area 3: *6 hrs Area 7: *3 hrs.	Technical Electives: *3 hrs. Free Electives: 6 hrs.

*Choose from approved lists.

[†] Courses for the approved Visual Expression, Written and Spoken (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. As part of **progress toward a degree**, a student must achieve a grade of C- or better in all ChE-prefix courses and maintain a GPA of 2.0 or above in all ChE prefix courses. If in-major GPA drops below 2.0 at any time, the student will be placed on departmental probation. The student cannot remain on departmental probation for more than two consecutive semesters. In the case that a student has not achieved an in-major 2.0 or better after two semesters, the student is prohibited from registering for any ChE courses for at least one semester and after only with permission of ChE department head. All ChE credits are used to calculate in-major GPA. Each student must complete 134 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.