

B.S. in Chemical Engineering

Major Requirements (84 sh)

SUMMARY OF MAJOR REQUIREMENTS

- 29 sh of Foundational Courses
 - 28 sh of Mid-Level Courses
 - 18 sh of Upper-Level Courses
 - 9 sh of Chemical Engineering Electives
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- 84 sh total

FOUNDATIONAL COURSES

Course #	Course Name	Course Designations / Notes	Sem/Yr	Grade	Credits
ENGR 01101	Freshman Engineering Clinic I	Satisfies RS requirement			2
ENGR 01102	Freshman Engineering Clinic II				2
CHE 06201	Principles of Chemical Processes I				2
CHE 06202	Principles of Chemical Processes II				2
CHE 06241	Chemical Engineering Fluid Mechanics				2
CHEM 07200	Organic Chemistry I				4
	Approved Chemistry Elective	Examples: CHEM 07201; CHEM 07202, CHEM 09249			3
MATH 01131	Calculus II				4
MATH 01230	Calculus III				4
MATH 01235	Math for Engineering Analysis				4
Subtotal:					29 sh

MID-LEVEL COURSES

Course #	Course Name	Course Designations / Notes	Sem/Yr	Grade	Credits
ENGR 01303	Junior Eng. Clinic I & II				4
CHE 06309	Process Fluid Transport				2
CHE 06310	Chemical Eng. Thermodynamics I				3
CHE 06311	Heat Transfer Processes				3
CHE 06312	Separation Processes I				2
CHE 06314	Separation Processes II				3
CHE 06315	Chemical Eng. Thermodynamics II				3
CHE 06316	Chemical Reaction Engineering				4
CHE 06381	Chemical Eng. Materials				2
CHE 06385	Chemical Engineering Modelling				2
Subtotal:					28 sh

UPPER-LEVEL COURSES

Course #	Course Name	Course Designations / Notes	Sem/Yr	Grade	Credits
CHE 06401	Chemical Process Component Design				3
CHE 06403	Unit Operations Experimental Design & Analysis				3
CHE 06405	Process Dynamics and Controls				3
CHE 06406	Chemical Plant Design				3
CHE 06407	Chemical Process Safety				2
ENGR 01403	Senior Engineering Clinic I & II	Satisfies WI requirement			4
Subtotal:					18 sh

CHEMICAL ENGINEERING ELECTIVES

Course #	Course Name	Course Attributes / Notes	Sem/Yr	Grade	Credits
<input type="radio"/>					3
<input type="radio"/>					3
<input type="radio"/>					3
<input type="radio"/>					
Subtotal:					9 sh

Total Program Credits Required for this Major / Degree: 120 SH