

B.S. in Chemical Engineering

Freshman Year					
First Semester		Credits	Second Semester		Credits
FR ENG 1100 Study & Careers in Engineering.		1	MECH ENG 1720 Intro to Engineering Design		3
CHEM 1100 Lab Safety		1	COMP SCI 1500, 1972/1982, or 1570/1580		3
CHEM 1310 General Chemistry I Lecture		4	CHEM 1320 General Chemistry II Lecture		3
CHEM 1319 General Chemistry I Lab		1	MATH 1215 Calculus II		4
ENGLISH 1120 Exposition & Argumentation		3	PHYSICS 1135 Engineering Physics I		4
HIST 1200, 1300, 1310, or POL SCI 1200		3			
MATH 1214 or 1211 Calculus I or I-B		4			
		17			17
Sophomore Year					
CHEM ENG 2100 Material & Energy Balances		4	CHEM ENG 2110 Thermodynamics I		3
CHEM 2210 Organic Chemistry I Lecture		3	Chemistry Elective: Advanced Lecture		3
MATH 2222 Calculus III		4	Chemistry Elective: Advanced Lab		1
PHYSICS 2135 Engineering Physics II		4	MATH 3304 Differential Equations		3
			STAT 3113 Applied Engineering Statistics		3
			Humanities and Social Sciences Elective		3
		15			16
Junior Year					
CHEM ENG 3101 Transport		4	CHEM ENG 3131 Separations		3
CHEM ENG 3111 Numerical Computing		3	CHEM ENG 3141 Process Operations		3
CHEM ENG 3120 Thermodynamics II		3	CHEM ENG 3150 Reactor Design		3
ECON 1100 or 1200 Micro/Macro Economics		3	ENGLISH 3560 Technical Writing (Comp II)		3
Upper level Humanities or Social Science		3	SP&M S 1185 Principles of Speech		3
		16			15
Senior Year					
CHEM ENG 4091 Chemical Process Design I		3	CHEM ENG 4097 Design II		3
CHEM ENG 4101 Unit Operations I		3	CHEM ENG 4130 Unit Operations II		3
CHEM ENG 4110 Process Control		3	CHEM ENG 4311 Ethics (Spring) (CHEM ENG 2300)		1
CHEM ENG 4241 Process Safety		3	CHEM ENG 5xxx		3
CHEM ENG 4301 Materials (CHEM ENG 2300)		1	CHEM ENG 5xxx		3
CHEM ENG 5xxx		3	CHEM ENG 5xxx		3
		16			16

Total 128

Advanced Chemistry Elective Options: CHEM 2510 (Spring only), or CHEM 4610 and CHEM 4619, or BIO SCI 2213 and BIO SCI 2219, or CHEM 2220 and CHEM 2219, or Bio Sci 3313 and Bio Sci 3319, or CHEM 3420 and CHEM 3459.

CHEM ENG 5xxx Options: Students may use a maximum of 3 credits of 4000 or 4099 for technical elective credit. Students may use a maximum of 3 credits of courses from outside of the department (with an approved substitution form), but only if they were from the approved list for the semester they were taken. Check with the ChBE department before enrolling. Exceptions will not be made.

<http://chemeng.mst.edu>