

Chemical Engineering

Bachelor of Science in Chemical Engineering

Major: CHE

Degree: BCH

Unit: SS

Students specializing in Chemical Engineering will complete the program outlined below. Two semesters in the General Engineering Studies Division are followed by a further period of study in the Professional School of Engineering. This is comprised of nine semesters in the Basic Studies Division (for the Bachelor of Science degree) and the graduate/professional year in the Higher Studies Division (for the Master of Engineering degree). This curriculum is designed as an integrated five-year program, with a cooperative education component, culminating in the Master of Engineering degree that is accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (EAC/ABET).

	Semester HoursTotal
General Engineering Studies Division	
Engineering Core Courses	
CHEM 201 ^{1,2}	3
EAC 101 ^{1,2} , 102 ²	8
EG 105 ²	1
ENGL 101 ^{1,2} , 102 ^{1,2,4}	6
GES 101 ²	2
PHYS 298 ^{1,2}	4..... 24
Department Specific Courses	
CHEM 202 ² , 207 ² , 208 ² , 209 ²	6..... 6
GES Total	30
Basic Studies Division⁵	
Advanced Chemistry Elective ⁶	3
Arts/CD/Hum/SBS Electives ¹	9
ChE 251, 253, 288, 289, 305, 311, 312, 331, 389, 401, 430, 434, 435, 436, 441, 461, 471, 485, 486, 489, 572	55
CHEM 341, 343	4
COMM 111 ¹ , 112 ¹ , or 115 ¹	3
COMPUTER LITERACY ³	0
EAC 201, 205, 307	8
EG 214	1
Free Electives	6
HIST XXX ¹	3
IE 360	3
PHIL 321 ⁷ , 222 ^{1,7} , 225 ⁷ , 323 ⁷ , or 328 ⁷	3
PHYS 295 ¹ , 296, 299	6
Science Elective ⁸	3..... 107
Minimum Total 137

The curriculum in this degree program is structured to require that students develop skills and competency in Computer and Information Literacy, as one of the modern engineering tools necessary for professional practice.

¹ General Education Content Area requirement for this program; the University-wide General Education requirements are detailed elsewhere in this publication.

² Acceptance into the department of Chemical Engineering requires that a student have a 2.0 GPA in a prescribed set of courses totaling 30 semester hours taken during the first year. The prescribed courses are footnoted in the listing above. In addition, the student must be in good standing with the university. The only possible substitution to the list of courses totaling 30 hours above is noted in footnote 4 below.

³ Students are expected to have an adequate background in PC applications (word processing, spreadsheets) before taking ChE 251 and 305. Students lacking wordprocessing and spreadsheeting capabilities are recommended to take CIS 100. It is the student's responsibility to ensure adequate computer background.

⁴ Students completing ENGL 105 in lieu of ENGL 101 and ENGL 102 are recommended to take ENGL 303 -Technical Writing.

⁵ A student may accumulate no more than three "D" grades in ChE prefixed courses. Any additional "D" grades beyond three must be repeated, according to the "Repetition of Courses" regulation. If a student

accumulates more than one "D" in any one year of the program, it is strongly recommended that s/he repeat one or more of those courses to earn a better grade before proceeding to the next course in the sequence.

⁶ Select one course from the following list: CHEM 342, 445, 450, 515, 527, 545, 550, 557, 561, 576 or ChE 402, 532, 550, 551. The course so chosen cannot be a course, or courses, which have been counted elsewhere, in whole or in part, as part of the degree program.

⁷ This course satisfies the departmental requirement of having an "Ethics" course; only PHIL 222 is accepted for the General Education content requirement in Humanities.

⁸ Select one course from the following list: BIOL 240, 242, 257, 263, 301, 329, 330, or CHEM 342, 445, 450 or PHYS 220, 300, 315 or GEOS 201, 220, 301, 305, 360, 363, 365, 370.