

(For all students in the Program)

Undergraduate Minor Program in Chemistry

Except for those studying the BSc program in Chemistry, any undergraduate student with a CGA of 1.85 or above may enroll in the Chemistry Minor Program. Students must declare their intention to enroll in the minor program no earlier than the first regular term of their second year but no later than the last day of the add/drop period in the first regular term of their final year of study. Students who wish to withdraw from the minor program should apply before the last day of the add/drop period in the first regular term of their final year of study.

Minor Requirements

To graduate with a minor in Chemistry, the students must be enrolled in the minor program, complete a minimum total of 18 credits and all of its requirements, as well as all the requirements of their major program of study; and have attained an average grade point of at least 1.5 in courses taken within the minor program.

For credit transfer, students can transfer a maximum total of 6 credits to the Minor Program.

Out of the total credits required by the minor program, at least 9 credits should be single-counted within the minor and are not used to fulfill any other requirements for graduation except the 120-credit degree requirement.

Students may use no more than 6 credits earned from courses offered in pure online delivery mode to satisfy the graduation requirements of a degree program. This 6-credit limit does not apply to credits obtained through the credit transfer procedures of the University.

Required Course(s)

			Credit(s) attained
CHEM	1030	General Chemistry II	3
CHEM		Note: (CHEM 2110 <u>OR</u> CHEM 2111) <u>OR</u> CHEM 2210 <u>OR</u> (CHEM 2310 <u>OR</u> CHEM 2311) <u>OR</u> CHEM 2410 (3 courses out of 4 course groups)	9
CHEM	2110	Organic Chemistry I	3
CHEM	2111	Fundamentals of Organic Chemistry	3
CHEM	2210	Inorganic Chemistry I	3
CHEM	2310	Fundamentals of Analytical Chemistry	3
CHEM	2311	Analytical Chemistry	3
CHEM	2410	Physical Chemistry I: Equilibrium Thermodynamics and Statistical Mechanics	3

Elective(s)

			Minimum credit(s) required
CHEM		Chemistry Elective (2 courses from the specified elective list, out of which at least 3 credits must be at 4000-level.)	6
CHEM	2155	Fundamental Organic Chemistry Laboratory	1
CHEM	2355	Fundamental Analytical Chemistry Laboratory	1
CHEM	3120	Organic Chemistry II	3

School of Science - Undergraduate Minor Program in Chemistry

CHEM	3220	Inorganic Chemistry II	3
CHEM	3320	Instrumental Analysis	3
CHEM	3420	Physical Chemistry II	3
CHEM	4110	Structural Elucidation in Organic Chemistry	3
CHEM	4120	Biomolecular Chemistry	3
CHEM	4130	Medicinal Chemistry	3
CHEM	4140	Intermediate Organic Chemistry	3
CHEM	4210	Solid State Chemistry	3
CHEM	4220	Materials Chemistry	3
CHEM	4230	Materials Characterization Method	3
CHEM	4240	Intermediate Inorganic Chemistry	3
CHEM	4310	Environmental Chemistry	3
CHEM	4320	Environmental Analytical Chemistry	3
CHEM	4330	Separation Science	3
CHEM	4340	Bioanalytical Techniques	3
CHEM	4410	Physical Chemistry in Biological Applications	3
CHEM	4420	Statistical Machine Learning Methods for Chemical Data Analysis	3
CHEM	4430	Symmetry in Chemistry and Spectroscopy	3
CHEM	4620	Organometallic Chemistry	3
CHEM	4640	Chemistry for Advanced Solar Cell Technologies	3
CHEM	4680	Undergraduate Research	3