

Minor in Chemistry

Many positions in medicine, engineering, biology, polymers, environmental science and chemical management involve a considerable amount of chemistry. Since a minor in Chemistry requires only a few chemistry courses beyond those needed for your major, it is a good investment in your future.

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<http://Chemistry.njit.edu>

FOR MAJORS *OTHER THAN* CHEMICAL ENGINEERING

You must satisfy requirements A & B

A.

Choose one set (A1 or A2)

One year of freshmen chemistry is a required prerequisite for these courses

Set A1 (Physical Chemistry Option)

Chem	231	Physical Chemistry I	(3-0-3)
	235	Physical Chemistry II	(3-0-3)
	243	Organic Chemistry I	(3-0-3)
	235A	Physical Chemistry Lab	(0-4-2)

or

Set A2 (Organic Chemistry Option)

Chem	243	Organic Chemistry I	(3-0-3)
	244	Organic Chemistry II	(3-0-3)
	244A	Organic Chemistry Lab	(0-4-2)
	337	Physical Chemistry for Bio Sciences (preferred; but may substitute Physical Chem I with permission)	(3-0-3)

B.

Plus - Choose two courses from below

Chem	473 (a)	Biochemistry	(3-0-3)
Chem	222	Analytical Chemistry	(3-0-3)
Chem	480 (b)	Analytical Chemistry Laboratory	(0-4-2)
Chem	336	Physical Chemistry III	(3-0-3)
Chem	412	Inorganic Chemistry	(3-0-3)
Chem	440	Fundamentals of Polymers	(3-0-3)
Chem	491 (c)	Research – Independent Study	(3-0-3)

(a) Prerequisite Chem 244 or Chem 245, (b) Prerequisite Chem 222,

(c) Max of 3 credit hours from Chem 491 can apply towards Minor

Minor in Chemistry FOR CHEMICAL ENGINEERING MAJORS

The majority of chemical engineers seek employment in the pharmaceutical industry, petrochemical industry, specialty chemicals companies, various consumer companies such as the cosmetic and flavor industry and food companies as well as companies involved with environmental control.

In order to enhance your chances of success in these industries an additional group of chemistry courses would serve you well.

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Students must choose four courses from the list below

One year of freshmen chemistry is a required prerequisite for these courses

R160: 207	Structure and Bonding	3-0-3
Chem 222	Analytical Chemistry	3-0-3
Chem 336	Physical Chemistry III	3-0-3
Chem 360	Environmental Chemistry I	3-0-3
Chem 361	Environmental Chemistry II	3-0-3
Chem 412	Inorganic Chemistry	3-0-3
Chem 440	Fundamentals of Polymers	3-0-3
Chem 443	Introductory Polymer Lab	1-4-3
Chem 473	Biochemistry	3-0-3
Chem 475	Biochemistry Lab I	0-4-2
Chem 480 (a)	Instrumental Analysis	0-4-2
Chem 484 (b)	Modern Analytical Chemistry	1-4-3
Chem 491	Research Independent Study	3-0-3

(a) Prerequisite Chem 222;
(b) minimum GPA of 3.0 required