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.

Advisor: Dr. Roumiana Petrova, 366 Tiernan Hall, 973-642-4076, E-mail: @njit.edu
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 (3-0-3)
(preferred; but may substitute Physical Chem I with permission)

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>R160: 207</td>
<td>Structure and Bonding</td>
<td>3-0-3</td>
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<tr>
<td>Chem 222</td>
<td>Analytical Chemistry</td>
<td>3-0-3</td>
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<tr>
<td>Chem 336</td>
<td>Physical Chemistry III</td>
<td>3-0-3</td>
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<tr>
<td>Chem 360</td>
<td>Environmental Chemistry I</td>
<td>3-0-3</td>
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<tr>
<td>Chem 361</td>
<td>Environmental Chemistry II</td>
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<tr>
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<td>Fundamentals of Polymers</td>
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<tr>
<td>Chem 443</td>
<td>Introductory Polymer Lab</td>
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<tr>
<td>Chem 473</td>
<td>Biochemistry</td>
<td>3-0-3</td>
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<tr>
<td>Chem 475</td>
<td>Biochemistry Lab I</td>
<td>0-4-2</td>
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<tr>
<td>Chem 480 (a)</td>
<td>Instrumental Analysis</td>
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</tr>
<tr>
<td>Chem 491</td>
<td>Research Independent Study</td>
<td>3-0-3</td>
</tr>
</tbody>
</table>

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

12/13/06