

**REQUIREMENTS LISTED IN CATALOG MUST BE FULFILLED FOR GRADUATION**

**FIRST YEAR (FREDONIA)**

<u>First Semester</u>				<u>Second Semester</u>			
CHEM	115-125	Gen. Chemistry I w/Lab	4	CHEM	116-126	Gen Chemistry II w/Lab	4
MATH	122	Univ. Calculus I	4	MATH	123	Univ. Calculus II	4
ENGL	100	English Composition	3	PHYS	230-232	Univ. Physics I w/Lab	5
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			14				16

**SECOND YEAR (FREDONIA)**

<u>First Semester</u>				<u>Second Semester</u>			
CHEM	215-225	Organic Chem. I w/Lab	4	CHEM	216-226	Organic Chem. II w/Lab	4
MATH	223	Univ. Calculus III	4	CHEM	317-327	Analytical Chem. I w/Lab	4
PHYS	231-233	Univ. Physics II w/Lab	5	-----	-----	CCC ■	3
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			16				14

(If transcript does not list Chemistry as major, see Director to declare Chemistry)

**THIRD YEAR (FREDONIA) +**

<u>First Semester</u>				<u>Second Semester</u>			
CHEM	315-325	Physical Chem. I w/Lab	4	CHEM	316-326	Physical Chem. II w/Lab	4
CHEM	318-328	Analytical Chem. II w/Lab	5	CHEM	496	Seminar II ***	0
CHEM	495	Seminar I ***	1	CHEM	295	Intro. to Research	1
PHYS	321	Engineering Statics +	3	MATH	224	Differential Equations	3
CHEM	462	Inorganic Chemistry	<u>3</u>	-----	-----	2 or 3 Advised Electives ** ■	<u>6-9</u>
			16				14 -17

(See Director for transfer interview)

(See Chemistry Chair for transfer letter)

**FOURTH AND FIFTH YEARS (AFFILIATED INSTITUTION)**

Equivalent to six hours of 400 or 500 level Chemistry courses  
 (normally fulfilled by engineering lecture and/or laboratory courses)

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- Must complete the College Core Curriculum (CCC) either at Fredonia or engineering institution. Upper level is not required for 3-2 students. Also not required for 3-2: second social science course, second speaking intensive course, foreign language if earn 70 or better on Regent's Checkpoint B, and American History category if earn 85 or better on Regent's exam. See the current undergraduate Catalog for details regarding the CCC.
  - \* For students transferring to Syracuse, additional CSIT courses are required.
  - \*\* Recommended electives include PHYS 234 (Modern Physics), PHYS 322 (Mechanics of Solids), PHYS 329 (Engineering Dynamics), courses in Mathematics, Computer Science, Chemistry, Business, Electronics, or other areas consistent with student's goals.
  - \*\*\* It is recommended that students complete the Seminar attendance requirement and certain assignments at Fredonia: actual presentation of the seminar may be delayed until the fourth or fifth year.
  - + Students interested in electrical or computer engineering must also take Circuit Analysis. Mechanical or Civil Engineering require PHYS 322 or 329 in addition to 321. Electrical, computer and chemical engineers may, in most cases, omit PHYS 322 and 329.

**NOTE:** Students wishing to complete an ACS approved degree program should consult with the Chairperson of Chemistry.