

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>			
PHYS	231-233	Univ. Physics II w/Lab	5	MATH	224	Differential Equations	3
PHYS	321	Engineering Statics	3	MATH	231	Linear Algebra	4
PHYS	329	Engineering Dynamics**	3	MATH	325	Numerical Analysis +	3
MATH	210	Math Structures & Proof	4			or	
MATH	223	Univ. Calculus III	<u>4</u>	PHYS	322	Mechanics of Solids ***	4
			19	PHYS	234	Modern Physics	<u>4</u>
							14-16

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

THIRD YEAR (FREDONIA)

<u>First Semester</u>				<u>Second Semester</u>			
MATH	329	Mathematical Modeling	3	PHYS	426	Math. Phys II	3
PHYS	425	Math. Physics I	3	PHYS	333	Elec. & Magnetism ++	3
STAT	350	Probability & Stats.	3			or	
PHYS	323	Circuit Analysis **	4	-----	----	CCC ■	
PHYS	331	Theoretical Mechanics ++	3	-----	----	Requirement/Elective	3
		or		MATH	405	Sr. Seminar	1
		CCC ■	<u>3</u>	PHYS	322	Mechanics of Solids	4
			16			or	
				MATH	325	Numerical Analysis +	3
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							16-17

(See Director for transfer interview)

(See Mathematics Chair for transfer letter)

FOURTH AND FIFTH YEARS (Affiliated Institution)

CCC's ■ 6

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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.
 - ** Students interested in electrical or computer engineering must take Circuit Analysis. Electrical, computer and chemical engineers may, in most cases, omit PHYS 322 and 329.
 - *** Required for non-electrical engineering areas: for other areas, see **
 - + Offered alternate years.
 - ++ One of PHYS 331 or 333 is required.
 PHYS 234, Modern Physics, is required at some institutions, particularly Columbia and UB Electrical Engineering (spring semester).