

Two year **PRE-ENGINEERING** program for students
Transferring to an appropriate engineering institution

Eng
2-2
2016-2018

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
-----	----	Elective NTE *	3	-----	----	Elective NTE	3
PHYS	199	Freshman Seminar	<u>1</u>	PHED	----	Physical Ed. **	<u>1</u>
			15				17

SECOND YEAR (FREDONIA)

<u>First Semester</u>				<u>Second Semester</u>			
MATH	223	Univ. Calculus III	4	MATH	224	Differential Equations	3
PHYS	231-233	Univ. Physics II w/Lab	5	PHYS	234	Modern Physics ***	4
PHYS	321	Engineering Statics	3	PHYS	322	Mechanics of Solids ****	4
PHYS	329	Engineering Dynamics	3				
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			18	PHED	----	Physical Ed **	<u>1</u>
							15

(See Director)

* Electives NTE (Non-Technical Electives). Three to six credit hours in Economics are strongly recommended (ECON 101, 201, 202); other courses are: HIST 105, 106, 115 or 116; PHIL 115 or 116; POLI 120 or 150; PSY 129; SOC 116.

** Optional. Check requirements of engineering school.

*** Required at some of the engineering institutions, especially for Electrical Engineering.

**** Required for non-electrical engineering areas.

***** For students transferring to Syracuse, additional CSIT courses are required.

Students interested in Electrical or Computer Engineering must take Circuit Analysis. (There are Junior-year courses – taken at Fredonia only if a third year is taken there).

Probability and Statistics (STAT 350) is required at some affiliated institutions for students interested in Electrical or Industrial Engineering. Also, linear Algebra (MATH 231) is strongly recommended.