



Roosevelt University Pre-Pharmacy Requirements	Northwestern University Course Equivalents
General Biology I with Laboratory General Biology II with Laboratory	BIOL SCI 210-1 Genetics and Evolutionary Biology and BIOL SCI 210-2 Biochemistry and Molecular Biology and BIOL SCI 210-3 Physiology and Cell Biology Or BIOL SCI 110-1,2,3 (offered only in summer session)
Anatomy and Physiology I with Laboratory	Not offered at NU
Anatomy and Physiology II with Laboratory	Not offered at NU
Microbiology	Not offered at NU
General Chemistry I with Laboratory General Chemistry II with Laboratory	CHEM 101-0 General Chemistry and CHEM 102-0 General Inorganic Chemistry and CHEM 103-0 General Physical Chemistry Or CHEM 171 – Accelerated gen inorganic chem CHEM 172 – Accelerated gen physical chem
Organic Chemistry I with Laboratory Organic Chemistry II with Laboratory	CHEM 210-1 Organic Chemistry I and CHEM 210-2 Organic Chemistry I and CHEM 210-3 Organic Chemistry I
Calculus I	MATH 220-0 Calculus I OR MATH 212 and MATH 213
Physics I with Laboratory	PHYS 130-1 College Physics and PHYS 130-2 College Physics OR PHYS 135-1 and 135-2 (calculus-based sequence)
English Composition I English Composition II	2 Writing courses: Can be made up of the following: WCAS Freshmen seminars, Eng 105-0, ENG 205-0, ENG 305-0, ENG 106-1+2
Speech Communication	GEN CMN 101-0 Interpersonal Communication OR GEN CMN 102-0 Public Speaking OR GEN CMN 104-0 Argumentation and Debate
Economics (micro or macro)	ECON 201-0 Introduction to Macroeconomics OR ECON 202-0 Introduction to Microeconomics
Statistics (general or biostatistics)	STAT 202-0 Introduction to Statistics or any dept. statistics course
Humanities (no studio or performance)	e.g., Art, Philosophy, Literature
Social and Behavioral Sciences	e.g., Psychology, Sociology, Anthropology, Political Science

Contact Information for Northwestern University:

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Notes for the English Requirement:

WRITING PROFICIENCY REQUIREMENT FOR WCAS STUDENTS

Freshmen Seminar Requirement

Northwestern's Weinberg College of Arts and Sciences (WCAS) requires a writing proficiency requirement. Freshman seminars, offered by nearly all departments in WCAS, are small, discussion-oriented courses designed to develop basic intellectual skills: how to read critically, think logically, and communicate effectively, typically through the investigation of a specific theme or issue.

Freshman seminars are limited to 15 or 16 students to encourage discussion, and each seminar requires considerable expository writing – usually a minimum of 15-20 typed pages per quarter. Every Weinberg student is required to complete two freshman seminars. Students who do not write well in their freshman seminars or in other courses may be asked to take English 105 Expository Writing.

WRITING REQUIREMENT FOR ENGINEERING STUDENTS

English 106-1 and English 106-2 are worth .50 credit each and part of the Engineering Design and Communication course for Engineering majors. Many engineering majors will complete ENG 106-1 and 106-2 and then English 105-1 if they need to complete two writing course credits.