



City Colleges of Chicago Transfer Guide Bachelor of Science in Chemistry

Available at:
NEIU Main Campus (Chicago, IL)

Why Choose Northeastern?

Northeastern Illinois University is committed to providing an affordable education. That's why our tuition and fees are among the most affordable of the Illinois public universities. We offer a **tuition guarantee program** that guarantees incoming students the same tuition rate for four years.

Northeastern offers more than 40 undergraduate degree and certificate programs, with classes on weekdays, evenings, weekends, and online. Small class sizes allow for students to pursue a more personal academic experience in one of the most ethnically diverse universities in the nation.

Chemistry Program Description

The Department of Chemistry offers an ACS-certified Bachelor of Science degree in Chemistry with two major concentrations to choose from.

The Biochemistry concentration requires courses in General Biology, Cell Biology, and Biochemistry in addition to core Chemistry courses. The biochemical training that students receive will prepare them to enter professional degree programs such as Medicine, Dentistry, Pharmacy, and other health related fields. The Biochemistry concentration is also recommended for students who want to obtain graduate degrees in Biochemistry, or work in the biomedical industry.

The Chemistry concentration gives students a strong foundation in Organic, Analytical, Inorganic, and Physical Chemistry. Hands-on laboratory and research skills are emphasized. This concentration is recommended for students who want to have careers in the chemical industry and those who plan to enter a Chemistry Master's or Ph.D. program.

Contact Information

Northeastern Illinois University Transfer Center: Students who have questions about the program prior to admission may contact the Northeastern Illinois University Transfer Center at (773) 442-4076 or email TransferSteps@neiu.edu.

Student Center for Science Engagement (SCSE): The SCSE supports students enrolled in majors in the biology, chemistry, computer science, earth science, environmental science, math, physics, and psychology fields. For more information, please contact Laura West, Student Academic Services Specialist in STEM, at 773-442-5664 or L-West2@neiu.edu.

Admission Requirements

- Students must have earned a minimum cumulative grade point average of 2.0 or higher for all college or university course work attempted. Students must be in good academic standing at the last college or university attended.
- Required documents are: application for admission, \$30 nonrefundable application fee, and official transcripts from all colleges and universities.
- Additional admission and application materials, including the option to apply online can be found at www.neiu.edu/Transfer.
- Application deadlines are as follows:

Semester Applying	Deadline to Apply	International Student Deadline to Apply
Fall	July 15	June 15
Spring	November 1	October 1
Summer I	April 1	March 1
Summer II	May 1	April 1

General Education Requirements

Three options are available to students who plan to complete their General Education requirements at City Colleges of Chicago.

- **Associate of Arts or Associate of Science degree:** Students who transfer with an approved Illinois Community College Board (ICCB) Model Associate of Arts degree will have met Northeastern Illinois University's General Education requirements. Students who transfer with an Associate of Science degree granted December 2016 or later may need to take one additional Humanities course and one additional Social and Behavioral Sciences course to meet Northeastern's General Education requirements.
- **Completion of the Illinois Articulation Initiative (IAI):** Students who transfer after completing the Illinois Articulation Initiative (IAI) will have met their General Education requirements.
- **Transfer Course Lists for City Colleges of Chicago:** Students may choose to meet their General Education requirements by selecting courses from Northeastern's [Transfer Course Equivalency Guides](#). *When choosing this option, please use the following Northeastern Illinois University General Education guide:*

Northeastern Illinois University General Education Program		
The General Education Program requires a minimum of 36 credit hours of courses distributed among 5 areas.		
Northeastern Illinois University Requirement	Credits	City Colleges of Chicago Equivalent (if any)
Math / Quantitative Reasoning – one course (3 hours)	3	<ul style="list-style-type: none"> Students will fulfill the Math/Quantitative Reasoning requirement by completing the major in Chemistry.
Social / Behavioral Sciences 3 courses (9 hours)	9	<ul style="list-style-type: none"> No more than two courses from the same department may be used.
Natural Sciences 3 courses (9 hours)	9	<ul style="list-style-type: none"> Students will fulfill the Natural Sciences requirement by completing the major in Chemistry.
Fine Arts 2 courses (6 hours)	6	<ul style="list-style-type: none"> No more than one course from the same department may be used.
Humanities 3 courses (9 hours)	9	<ul style="list-style-type: none"> No more than two courses from the same department may be used. No more than two foreign language courses may be used to fulfill this requirement.
Non-General Education University Requirements (3-6 hours)	3-6	<ul style="list-style-type: none"> ENGLISH 101 Composition I at City Colleges of Chicago with a grade of "C" or better. Improving Human Relations Requirement – can be met through one of many general education courses. Please see the Transfer Course Equivalency Guide to find courses meeting the Human Relations requirement at your school.

Degree Plan*

D: Degree GECC: General Education Core Curriculum					
Semester-by-Semester Program Plan for Full-Time Students					
*All plans can be modified to fit the needs of part-time students by adding additional semesters					
D	GECC	Semester 1	CCC Category	NEIU Category	Next Actions
•	•	ENGLISH 101 Composition I (3)	Communication	Writing Requirement	DO THIS – Meet with advisor to discuss academic goals and plan coursework
•	•	Social/Behavioral Science Course (3)	Social Science	General Education	
•	•	MATH 140 College Algebra (4)	Prerequisite	Math/Quantitative Reasoning	
•	•	Fine Arts Course (3)	Fine Arts	General Education	
•	•	SPEECH 101 Fundamentals of Speech Communication (3)	Communication	General Education	
16 Credit Hours					
D	GECC	Semester 2	CCC Category	NEIU Category	Next Actions
•	•	ENGLISH 102 Composition II (3)	Communication	Elective	DO THIS – Mid-term check-in with advisor
•	•	CHEM General Chemistry I (5)	Physical Science	General Education Major Requirement – CHEM 211	
•		MATH 141 Plane Trigonometry (3)	Prerequisite	Math/Quantitative Reasoning	DO THIS – Apply to NEIU’s Guaranteed Admission Program (GAP)
•	•	PHYSICS 221 Mechanics, Waves, and Heat (5) or PHYSICS 231 General Physics I: Mechanics & Wave Motion (4)	Physical Science	General Education Cognate Requirement – PHYS 201L or PHYS 206L	
15-16 Credit Hours					
D	GECC	Semester 3	CCC Category	NEIU Category	Next Actions
•	•	MATH 207 Calculus & Analytic Geometry I (5)	Mathematics	Cognate Requirement – MATH 187	DO THIS – Mid-term check-in with advisor
•		PHYSICS 222 Electricity, Light and Modern Physics (5) or PHYSICS 232 General Physics II: Electricity & Magnetism (4)	Elective	General Education Cognate Requirement – PHYS 202L or PHYS 207L	
•	•	CHEM 203 General Chemistry II (5)	Physical Science	General Education Cognate Requirement – CHEM 211	DO THIS – Apply for admission to NEIU
14-15 Credit Hours					
D	GECC	Semester 4	CCC Category	NEIU Category	Next Actions
•		CHEM 205 Organic Chemistry I (6)	Elective	Major Requirement – CHEM 231	DO THIS – Petition to graduate COMPLETION of Associate of Science Degree DO THIS – Register for NEIU orientation (once admitted)
•	•	Social/Behavioral Science Course (3)	Social Science	General Education	
•	•	Humanities Course (3)	Humanities	General Education	
•	•	Life Science Course (3-4)*	Life Sciences	General Education	
15-16 Credit Hours					
MINIMUM TOTAL AS CREDIT HOURS: 60 WRITTEN DEGREE PLAN CREDIT RANGE: 60-63					

Notes:

- All students who earn an Associate of Science degree from City Colleges of Chicago enter Northeastern with 64 hours of transfer credit, even if they earned less than 64 credit hours. See the [NEIU Transfer Policy](#) for further information.
- All City Colleges of Chicago students must complete the Human Diversity requirement as part of their associate's degree. See your City Colleges of Chicago advisor for course options.
- *Students who will concentrate in Biochemistry at NEIU should take BIOLOGY 121 Biology I as their Life Science GECC course.
- **The above plan does not include the additional Social/Behavioral Science and Humanities courses required to meet general education at Northeastern. If these courses are not taken at City Colleges of Chicago, they will need to be taken at Northeastern. All substitutions in the plan should be made in consultation with the student's advisor.

Northeastern Illinois University – Chemistry Concentration

All plans can be modified to fit the needs of part-time students by adding additional semesters

Semester 5	NEIU Category	
CHEM 213 WIP: Quantitative Analysis (5)	Major Requirement	DO THIS – Meet with the Chemistry Department to declare your major, have your transcripts evaluated, and get advice about the next courses you should take.
CHEM 232 Organic Chemistry II (4)	Major Requirement	
Social Behavioral Science Course (3)	General Education	
MATH 202 Calculus II (4)	Cognate Requirement	
15 Credit Hours		
Semester 6	NEIU Category	Next Actions
Humanities Course (3)	General Education	DO THIS – Meet with your Chemistry advisor
CHEM 311 Physical Chemistry I (4)	Major Requirement	
CHEM 316 Inorganic Chemistry (4)	Major Requirement	
CHEM 330 Instrumental Analysis: Spectroscopy or CHEM 331 Instrumental Analysis: Quantitative Methods (5)	Major Requirement ELE-DS Requirement (330 only)	
16 Credit Hours		
Semester 7	NEIU Category	Next Actions
CHEM 312 Physical Chemistry II (4)	Major Requirement	DO THIS – Meet with your Chemistry advisor DO THIS – Apply for graduation DO THIS – Meet with Career Services for career counseling
CHEM 300 Level Elective (4)	Major Requirement	
ELE-X 300 Level Elective (select in consultation w/advisor) (3)	ELE-X Requirement	
CHEM 300 Level Elective (4)	Major Requirement	
15 Credit Hours		
Semester 8	NEIU Category	Next Actions
CHEM 391 Chemistry Capstone Seminar (3)	Major Requirement ELE-DS Requirement	DO THIS – Meet with your Chemistry advisor DO THIS – Meet with Career Services for career counseling
300 Level Elective or ELE-DS Elective (if 331 was taken) (3)	Upper Division/ELE-DS Elective	
300 Level Elective (3)	Upper Division/Elective	
300 Level Elective (3)	Upper Division/Elective	
12 Credit Hours		COMPLETION of Bachelor of Science Degree
BACHELOR'S DEGREE MINIMUM TOTAL: 122 CREDIT HOURS		

Northeastern Illinois University – Biochemistry Concentration

All plans can be modified to fit the needs of part-time students by adding additional semesters

Semester 5	NEIU Category	
CHEM 213 WIP: Quantitative Analysis (5)	Major Requirement	DO THIS – Meet with the Chemistry Department to declare your major, have your transcripts evaluated, and get advice about the next courses you should take.
CHEM 232 Organic Chemistry II (4)	Major Requirement	
Social Behavioral Science Course (3)	General Education	
MATH 202 Calculus II (4)	Cognate Requirement	
16 Credit Hours		
Semester 6	NEIU Category	Next Actions
Humanities Course (3)	General Education	DO THIS – Meet with your Chemistry advisor
CHEM 311 Physical Chemistry I or CHEM 312 Physical Chemistry II (4)	Major Requirement	
CHEM 316 Inorganic Chemistry (4)	Major Requirement	
BIO 202 General Biology II (4)	Cognate Requirement	
BIO 250 Essential Skills for Biologists (2)	Cognate Requirement	
17 Credit Hours		
Semester 7	NEIU Category	Next Actions
CHEM 330 Instrumental Analysis: Spectroscopy or CHEM 331 Instrumental Analysis: Quantitative Methods (5)	Major Requirement ELE-DS Requirement (330 only)	DO THIS – Meet with your Chemistry advisor
BIO 301 Cell Biology (4)	Cognate Requirement ELE-DS Requirement	
ELE-X 300 Level Elective (select in consultation w/advisor) (3)	ELE-X Requirement	DO THIS – Apply for graduation DO THIS – Meet with Career Services for career counseling
CHEM 362 Biochemistry (4)	Major Requirement	
16 Credit Hours		

Semester 8	NEIU Category	Next Actions
CHEM 391 Chemistry Capstone Seminar (3)	Major Requirement ELE-DS Requirement	DO THIS – Meet with your Chemistry advisor DO THIS – Meet with Career Services for career counseling COMPLETION of Bachelor of Science Degree
CHEM 372 Biochemistry of Metabolism (3)	Major Requirement	
CHEM 300 Level Elective (4)	Major Requirement	
CHEM 300 Level Elective (4)	Major Requirement	
300 Level Elective (2)	Upper Division/Elective	
16 Credit Hours		
BACHELOR'S DEGREE MINIMUM TOTAL: 129 CREDIT HOURS		

Financial Aid and Scholarships

For information about financing your education at Northeastern, including Financial Aid and Scholarship opportunities, please see our website: <http://www.neiu.edu/financial-aid/>. You may also contact our Financial Aid Office directly at (773) 442-5016 or email Financial-Aid@neiu.edu. If you are completing the Free Application for Federal Student Aid (FAFSA), Northeastern's federal School code is **001693**.

Provost and Deans Merit Scholarships for TRANSFER students*:

Scholarship	Amount Awarded	Credit Hour Requirement	GPA Requirement	Residency Requirement	NEIU Enrollment Requirement
Provost Merit	\$2,000	60+ credit hours	3.50 GPA	Illinois Residency	Full-Time (12+ credit hours)
Dean's Merit	\$1,000	60+ credit hours	3.0 GPA	Illinois Residency	Full-Time (12+ credit hours)

Until all of the scholarships are awarded, students who meet these qualifications will automatically be considered for the Provost and Deans Merit Scholarships at the time of applying for admission to Northeastern. Completing an additional application is not necessary. The Office of Scholarships may be reached at (773) 442-4606 or scholarships@neiu.edu.