



## City Colleges of Chicago Transfer Guide

### Bachelor of Science in Physics

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 50 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.

#### Physics Program Description

The Bachelor of Science in Physics program allows students to pursue careers in teaching, research, and development, or to go on for further graduate study. All instruction is provided by full-time faculty in small classes, affording many opportunities for close personal contact between students and instructors. All advanced undergraduate courses are given in the evening, allowing students to complete studies on either a full- or part-time basis. Faculty members are actively engaged in research projects which offer exciting opportunities for student participation. Also, faculty members offer assistance to students pursuing projects on their own.

#### 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](mailto:TransferSteps@neiu.edu).

**Student Center for Science Engagement (SCSE):** The SCSE supports students enrolled in majors in the biology, chemistry, computer 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](mailto: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 <https://www.neiu.edu/admissions/transfer>.
- Application deadlines are as follows:

Semester Applying	Deadline to Apply	International Student Deadline to Apply
Fall	August 1	June 15
Spring	December 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 or Associate of Science degree will have met Northeastern Illinois University's General Education requirements. For information regarding completing an Associate of Arts or Associate of Science at CCC, including assistance with course selection, please visit [Advising Services at CCC](#). More information is available at their website, or by calling (773) 265-5343.
- **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 <b>42 credit hours</b> of courses distributed among 6 areas.		
Northeastern Illinois University Requirement	Credits	City Colleges of Chicago Equivalent (if any)
<b>Math / Quantitative Reasoning – one course (3 hours)</b>	3	<ul style="list-style-type: none"> <li>● Students who major in Physics at Northeastern fulfill this requirement by taking MATH 143 Precalculus or MATH 207 Calculus &amp; Analytic Geometry I at CCC.</li> </ul>
<b>Social / Behavioral Sciences 3 courses (9 hours)</b>	9	<ul style="list-style-type: none"> <li>● No more than two courses from the same department may be used.</li> </ul>
<b>Natural Sciences 3 courses (9 hours)</b>	9	<ul style="list-style-type: none"> <li>● Students will fulfill the Natural Sciences requirement by completing the major in Physics.</li> </ul>
<b>Fine Arts 2 courses (6 hours)</b>	6	<ul style="list-style-type: none"> <li>● No more than one course from the same department may be used.</li> </ul>
<b>Humanities 3 courses (9 hours)</b>	9	<ul style="list-style-type: none"> <li>● No more than two courses from the same department may be used.</li> <li>● No more than two foreign language courses may be used to fulfill this requirement.</li> </ul>
<b>Non-General Education University Requirements (6 hours)</b>	6	<ul style="list-style-type: none"> <li>● <b>ENGLISH 101</b> Composition at CCC with a grade of "C" or better.</li> <li>● Improving Human Relations requirement – can be met through one of many general education courses. Please see the <a href="#">City Colleges of Chicago Transfer Course Equivalency Guide</a> to find courses meeting Human Relations.</li> </ul>

## Degree Plan\*

Semester-by-Semester Program Plan for Full-Time Students			
<i>*All plans can be modified to fit the needs of part-time students by adding additional semesters</i>			
Semester 1	CCC Category	NEIU Category	Next Actions
ENGLISH 101 – Composition (3)	Communication	Writing Requirement	<b>DO THIS</b> – Meet with advisor to discuss academic goals and plan coursework
MATH 207 – Calculus & Analytic Geometry I (5)	Mathematics	Math/Quantitative Reasoning – MATH 187 Calculus I	
CHEM 201 – General Chemistry I (5)	Physical Science	Major Cognate Elective – CHEM 211 General Chemistry I	
Social and Behavioral Sciences Course (3)	Social Science Human Diversity	General Education	
<b>16 Credit Hours</b>			
Semester 2	CCC Category	NEIU Category	Next Actions
ENGLISH 102 – Composition (3)	Communication	Elective	<b>DO THIS</b> – Mid-term check-in with advisor
MATH 208 – Calculus & Analytic Geometry II (5)	Mathematics	Major Math Requirement – MATH 202 Calculus II	
PHYSICS 235 – Engineering Physics I: Mechanics & Wave Motion (5)	Physical Science	General Education	<b>DO THIS</b> – <a href="#">Apply</a> to NEIU's Guaranteed Admission Program (GAP)
Fine Arts Course (3)	Fine Arts	General Education	
<b>16 Credit Hours</b>			
Semester 3	CCC Category	NEIU Category	Next Actions
SPEECH 101 – Fundamentals of Speech Communication (3)	Communication	General Education	<b>DO THIS</b> – Mid-term check-in with advisor
MATH 209 – Calculus & Analytic Geometry III (5)	Mathematics	Major Math Requirement – MATH 203 Calculus III	
PHYSICS 236 – Engineering Physics II: Electricity & Magnetism (5)	Physical Science	Major Requirement – PHYS 207L University Physics II with Lab	<b>DO THIS</b> – Begin seeking additional four-year funding
Humanities Course (3)	Humanities	General Education	
<b>16 Credit Hours</b>			
Semester 4	CCC Category	NEIU Category	Next Actions
Social and Behavioral Sciences Course (3)	Social Science	General Education	<b>DO THIS</b> – Petition to graduate
MATH 210 – Differential Equations (3)	Mathematics	Major Math Requirement – MATH 301 Ordinary Differential Equations I	
PHYSICS 237 – Engineering Physics III: Heat Light and Modern Physics (5)	Physical Science	General Education	<b>COMPLETION</b> of Associate of Science Degree
BIOLOGY 121 – Biology I (5)*	Life Science	General Education Major Cognate Elective – BIO 201 General Biology I	
<b>16 Credit Hours</b>			
<b>Minimum Total AS Credit Hours: 62 Written Degree Plan Credit Range: 64</b>			

\* It is highly recommended to complete BIOLOGY 121 at CCC, which meets a Physics cognate major requirement at NEIU.

**Note:**

- All City Colleges of Chicago students must complete a course to fulfill the Human Diversity requirement as part of their associate's degree. See your City Colleges of Chicago advisor for course options.
- 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 have earned fewer than 64 credit hours. See the [NEIU Transfer Policy](#) for further information.

Northeastern Illinois University – BSW Track		
<i>All plans can be modified to fit the needs of part-time students by adding additional semesters</i>		
Semester 5	NEIU Category	Next Actions
PHYS 206L – University Physics I with Lab (5)	Major Course	<b>DO THIS</b> – Meet with your advisor
PHYS 305 – Modern Physics I (3)	Major Course ELE-DS Requirement	
PHYS 308 – Introductory Mathematical Physics (3)	Major Course	
PHYS 321 – Electricity and Magnetism I (3)	Major Course	
<b>14 Credit Hours</b>		
Semester 6	NEIU Category	Next Actions
Major Cognate Elective (3-5)	Major Cognate Course	<b>DO THIS</b> – Meet with your advisor
PHYS 307 – WIP: Modern Physics Lab or PHYS 330 – WIP: Experimental Methods (3)	Major Elective Course WIP Requirement	
PHYS 306A – Modern Physics II (3)	Major Course ELE-DS Requirement	
PHYS 311 – Mechanics I (3)	Major Course	
<b>12-14 Credit Hours</b>		
Semester 7	NEIU Category	Next Actions
PHYS 335 – Thermal Physics (3)	Major Course	<b>DO THIS</b> – Meet with your advisor
Physics Major Elective (3)	Major Course	
ELE-X Elective Course (3)	ELE-X Requirement	<b>DO THIS</b> – Meet with Career Services for career counseling
Elective Course (3)	Elective	
Elective Course (3)	Elective	
<b>15 Credit Hours</b>		<b>DO THIS</b> – Apply for graduation
Semester 8	NEIU Category	Next Actions
PHYS 336 – Quantum Mechanics (3)	Major Course	<b>DO THIS</b> – Meet with your advisor <b>DO THIS</b> – Meet with Career Services for career counseling <b>COMPLETION</b> of Bachelor of Science in Physics degree
Physics Major Elective (3)	Major Course	
Elective Course (3)	Elective	
Elective Course (3)	Elective	
Elective Course (1-3)	Elective	
<b>13-15 Credit Hours</b>		
<b>BACHELOR'S DEGREE MINIMUM TOTAL: 120 CREDIT HOURS</b>		

## Tuition, Financial Aid and Scholarships

For information about financing your education at Northeastern, including Financial Aid and Scholarship opportunities, please see our website: <https://www.neiu.edu/financial-aid>. You may also contact our Financial Aid Office directly at (773) 442-5016 or email [Financial-Aid@neiu.edu](mailto: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)
Deans 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](mailto:scholarships@neiu.edu).