



## Oakton Community College Transfer Guide Bachelor of Science in Physics

Available at:  
NEIU Main Campus (Chicago, IL)

### Physics Program Description

The Bachelor of Science degree in Physics prepares students for further graduate study in physics and develops skills which enable them to enter careers in business, teaching, research and technology.

### Contact Information

**Northeastern Illinois University Transfer Center:** Students who have questions about the program prior to admission may contact the Northeastern 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, earth 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 [www.neiu.edu/Transfer](http://www.neiu.edu/Transfer).
- Application deadlines are as follows:

		<i>International Applicants</i>
<b>Fall</b>	July 1	June 1
<b>Spring</b>	November 1	October 1
<b>Summer I</b>	April 1	March 1
<b>Summer II</b>	May 1	April 1

### Transfer Policies

- Students with an AA degree from an Illinois Community College and/or completion of the IAI will have fulfilled Northeastern Illinois University's general education requirements.
- A maximum of 64 semester hours may be transferred to Northeastern from a community college. In cases where both a community college and university were attended, a maximum of 90 semester hours are accepted, with a maximum of 64 semester hours allowed at the community college level.
- Additional information about transferring and transfer policies are available at [www.neiu.edu/Transfer](http://www.neiu.edu/Transfer).

## Northeastern Illinois University Degree Requirements

- 1.) **General Education:** 36 credit hours (see requirements below)
- 2.) **English 101 or equivalent (grade of “C” or higher):** At Oakton, take EGL 101 – Composition I.
- 3.) **Total Credits and Credit Levels:** A minimum of 120 semester hours must be earned by every undergraduate student to be eligible to graduate from Northeastern. **Students must complete a minimum of 40 semester hours at the 300 level to meet the Upper Division requirement.**
- 4.) **Major Program:** Undergraduate students must declare and complete a major. Students must earn a grade of “C” or higher in all courses counted toward the major. No “P” grades will count toward a major.
- 5.) **Residency:** Must complete a minimum of 30 credit hours at Northeastern.
- 6.) **GPA:** Students must have a minimum cumulative 2.0 GPA (overall “C” average). Some academic programs and departments have other specific grade requirements.
- 7.) **Improving Human Relations:** The Improving Human Relations requirement may be met through the General Education program. Courses are available in both the Humanities and Social / Behavioral Sciences categories. You may choose a course that meets the Improving Human Relations requirement **and** Humanities or Social / Behavioral Sciences.
- 8.) **Writing Intensive Program:** Students must successfully complete a writing intensive course within their discipline. **This course must be taken at Northeastern.** Students completing the Bachelors of Sciences in Physics fulfill this requirement by taking PHYS 307 – WIP: Modern Physics Laboratory.
- 9.) **University Core Curriculum (UCC):** Students must complete three Engaged Learning Experience (ELE) courses. ELE courses are either Boundary Crossing (ELE-X) or Discipline Specific (ELE-DS) and are chosen in consultation with the student’s advisor. At least one course must be at the 300 level and one course must be an ELE-X course as part of meeting the requirement.

## General Education Requirements

Four options are available to students who plan to complete their General Education requirements at Oakton.

- **Associate of Arts:** 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. For information regarding completing an Associate of Arts at Oakton, including assistance with course selection, please visit the Office of Advising and Counseling. More information is available at their website (<http://www.oakton.edu/student-services/advising-counseling/contactus.php>) or by calling (847) 635-1741 (Des Plaines campus) or (847) 635-1400 (Skokie campus).
- **Associate of Science:** Students who transfer with an approved Illinois Community College Board (ICCB) Model Associate of Science degree granted August 2016 or earlier will have met Northeastern Illinois University’s General Education requirements. Students who transfer with an approved ICCB Model Associate’s 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. For information regarding completing an Associate of Arts at Oakton, including assistance with course selection, please visit the Office of Advising and Counseling. More information is available at their website (<http://www.oakton.edu/student-services/advising-counseling/contactus.php>) or by calling (847) 635-1741 (Des Plaines campus) or (847) 635-1400 (Skokie campus).

- **Completion of the Illinois Articulation Initiative (IAI):** Students who transfer after completing the Illinois Articulation Initiative (IAI) will have met their General Education requirements. For information regarding the Illinois Articulation Initiative, including courses at Oakton that fulfill General Education requirements, please visit the iTransfer web site at [www.itransfer.org](http://www.itransfer.org).
- **Transfer Course Lists for Oakton Community College:** Students may choose to meet their General Education requirements by selecting courses from Northeastern's Transfer Course Equivalency Guides, available at: [www.neiu.edu/Transfer](http://www.neiu.edu/Transfer). **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>36 credit hours</b> of courses distributed among 5 areas.		
Northeastern Illinois University Requirement	Credits	Oakton Community College 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 can fulfill this requirement at Oakton by taking MAT 250 – Calculus I.</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>

## Physics Major Requirements

Northeastern Illinois University Physics Major: 65-69 credits (41 in Physics and 24-28 in cognate areas)			
Northeastern Illinois University Course	Credits	Oakton Community College Equivalent (if any)	
PHYS 206L University Physics I with Lab	4	PHY 221 General Physics I	
PHYS 207L University Physics II with Lab	4	PHY 222 General Physics II	
PHYS 305 Modern Physics I	3	PHY 223 Modern Physics	
PHYS 306A Modern Physics II	3	<i>No Equivalencies at Oakton.</i>	
PHYS 307 WIP: Modern Physics Laboratory (This course must be completed at Northeastern)	3		
PHYS 308 Introductory Mathematical Physics	3		
PHYS 311 Mechanics I	3		
PHYS 321 Electricity and Magnetism I	3		
PHYS 330 Intermediate Physics Lab	3		
PHYS 335 Thermodynamics and Kinetic Theory	3		
PHYS 336 Quantum Mechanics I	3		
<b>Physics Electives (at least 6 credits):</b>			
<i>Majors are required to take two additional 300-level physics courses totaling at least six hours of credit.</i>	6		<i>No Equivalencies at Oakton.</i>
<i>Please note that 15 or more credits from the above must be taken at Northeastern.</i>			

<b>Required Mathematics Courses (15 credits):</b>		
MATH 187 – Calculus I	4	MAT 250 – Calculus I
MATH 202 Calculus II	4	MAT 251 – Calculus II
MATH 203 Calculus III	4	MAT 252 Calculus III
MATH 301 Ordinary Differential Equations	3	<i>No Equivalency at Oakton.</i>
<b>Cognate Courses (9-13 credits):</b>		
Three of the following STEM Cognate electives must be chosen from at least two different departments		
CHEM 211 General Chemistry I	5	CHM 121 – General College Chemistry I
CHEM 212 General Chemistry II	4	CHM 122 General College Chemistry II
CS 200 Programming I	3	<i>No Equivalencies at Oakton.</i>
CS 207 Programming II	3	
CS 334 Open Source Systems	3	
BIO 201 General Biology I	4	BIO 121 General College Biology I
BIO 202 General Biology II	4	BIO 122 General College Biology II
BIO 301 Cell Biology	4	<i>No Equivalencies at Oakton.</i>
BIO 311 History of Science	3	
ESCI 207 Global Climate & Weather	4	
ESCI 211 Physical Geology	4	EAS 101 Physical Geology
ESCI 306 Rocks and Minerals	4	<i>No Equivalency at Oakton.</i>
ESCI 312 Historical Geology	4	EAS 102 Historical Geology
ESCI 335 Meteorology	4	<i>No Equivalencies at Oakton.</i>
ESCI 337 Principles of Hydrogeology	4	
MATH 253 Linear Algebra I	3	MAT 260 Introduction to Linear Algebra
MATH 302 Ordinary Differential Equations II	3	<i>No Equivalencies at Oakton.</i>
MATH 303 Partial Differential Equations	3	
MATH 304 Introduction to Numerical Analysis	3	
MATH 305 Probability and Statistics	3	
MATH 328 Complex Variables	3	
MATH 340 Computing for Mathematicians	3	
<b>Physics Major Policies</b>		
<ul style="list-style-type: none"> <li>• Students must earn a grade of “C” or higher in all courses counted toward the major. No “P” grades will count toward a major. Physics courses with "D" grades may be used as university electives.</li> <li>• Transfer courses must be approved by the department before being applied to the major or minors.</li> <li>• For transfer students at least one half of the courses applied to the major (15 semester hours) must be taken at Northeastern.</li> </ul>		

## Tuition, Financial Aid and Scholarships

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.

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](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:**

**Provost Merit Scholarship**

Scholarships in the amount of **\$2,000** will be awarded to new transfers who meet the following criteria and who apply early for admission. Scholarships will be awarded on a first-come first-serve basis:

- Admitted entering transfer students with an Associate of Arts or Associate of Science (or at least 60 earned credits).
- Must have at least a cumulative transfer GPA of 3.50.
- Must be an Illinois resident.
- Must be enrolled as a full-time student at Northeastern.

**Deans Merit Scholarship**

Scholarships in the amount of **\$1,000** will be awarded to new transfers who meet the following criteria and who apply early for admission. Scholarships will be awarded on a first-come first-serve basis:

- Admitted entering transfer students with an Associate of Arts or Associate of Science (or at least 60 earned credit hours).
- Must have at least a cumulative transfer GPA of 3.00.
- Must be an Illinois resident.
- Must be enrolled as a full-time student at Northeastern.

*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).*