

# Physics

## Associate in Science

**Total Required Credits for Degree:** minimum of 64  
*General Education Core Curriculum:* minimum of 37  
*Additional Math/Science:* 10 to 15  
*Additional Coursework:* 12 to 17

**Code:** 8860

**Note:** Consult a faculty adviser or the Counseling and Advising office before planning coursework.

### About the Program

Physicists are employed by industry, business, education and government. They perform applied research in hospitals and clinics, and in educational and federal institutions doing fundamental research. While most physics majors go on for advanced degrees, some jobs are available for those with a bachelor's degree.

The Physics program at College of DuPage has three levels of study. Physics 1100 is a general survey course for liberal arts students. Physics 1201 and 1202 comprise a one-year exploration of general principles. This sequence is recommended for students who desire a one-year sequence of lab science and for those who intend to major in biology or a preprofessional area. Physics 2111, 2112 and 2115 is the sequence of choice for other science majors and for engineering majors.

Program web site:  
[www.cod.edu/academic/acadprog/tranprog/PhysicTr.htm](http://www.cod.edu/academic/acadprog/tranprog/PhysicTr.htm)

### First Semester Possibilities

Students enrolled in a minimum of 12 credits are considered full-time students. The following courses are examples of possible choices for the first semester of study:

Course	Credits
Chemistry 1551.....	5
English 1101.....	3
General Education .....	3 to 5
Mathematics 2231 .....	5

### General Education Core Curriculum

Each candidate for an A.S. degree shall satisfactorily complete a minimum of 37 General Education credits. General Education credit may not be earned using a Satisfactory/Fail grade.

Use the *Student Planning Worksheet* or consult a list of General Education categories and courses for this degree to decide what needs to be taken. Links can be found on the Physics online program guide ([www.cod.edu](http://www.cod.edu), click on "Academics" and then choose this program from the drop-down menu).

Under the specified General Education headings below, the following courses are recommended for the Physics Associate in Science degree:

**Communication:** 9 credits

Written: 6 credits

Oral: 3 credits

**Required courses:** English 1101 and 1102 (grade of "C" or higher required); Speech 1100 (grade of "C" or higher required)

**Physical/Life Sciences:** 7 to 10 credits

Select at least one course from Life Sciences and one course from Physical Sciences. At least one course must have a laboratory component.

**Recommended courses:** Biology 1110; Chemistry 1551, 1552; Physics 2111, 2112. Chemistry 2551, 2552 and Biology 1100 are suggested but not necessary.

**Mathematics:** 3 to 5 credits

Competency through Mathematics 2233. Some transfer schools may require Mathematics 2270, *Differential Equations*.

**Humanities and Fine Arts:** 9 credits

Select at least one course from Humanities and at least one course from Fine Arts.

**Please note:** Only one foreign language course may apply for general education credit. Additional foreign language courses will count as elective credit toward your degree.

Earn no more than 6 credits in History in the Humanities and Fine Arts, and Social and Behavioral Sciences categories combined. Additional credits in History from general education or other categories may be earned as elective credit, unless restricted by degree requirements.  
**Recommended courses:** One year of a foreign language

**Social and Behavioral Sciences:** 9 credits

Courses must be selected from at least two disciplines. See note under Humanities/Fine Arts regarding History courses.

### Additional Math/Science Requirements

**Physical and Life Sciences:** Select two courses up to a maximum of 10 credits.

**Mathematics:** Select one course up to a maximum of 5 credits.

### Additional Coursework

Students are strongly advised to consult with a faculty adviser and/or the transfer institution in selecting 12 to 17 General Elective credits. Students can earn a maximum of 10 credits in technical/occupational areas (the transferability of these courses needs to be validated with a transfer institution).

### Additional A.S. Degree Requirements

These credits can count as either General Education Core Curriculum (in the Humanities category or the Social and Behavioral Sciences category) or as General Elective credit, whichever applies.

(continued on next page)

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(continued from page 1)

**Human Relations:** Complete one course.

**Global/Multicultural Studies or Contemporary Life Skills:**

Complete one course.

*Recommended course:* Computer Information Systems 1110. Consult your transfer school for transferability of specific computer courses.

### **IAI (Illinois Articulation Initiative)**

The IAI General Education Core Curriculum is based on a package concept, in which a package of courses is used to meet the receiving institution's lower-division general education requirements. The entire IAI package must be completed to ensure full articulation.

Always seek the advice of an academic adviser at College of DuPage or an admissions counselor at a transfer institution when choosing major courses. For additional information, check the web site at: [www.itransfer.org](http://www.itransfer.org) or the College of DuPage transfer guide web site at: [home.cod.edu/academics/transferinfo](http://home.cod.edu/academics/transferinfo).

### **Advisers**

If you are considering this program as an area of study, consult with a faculty adviser in this field:

	<b>Location</b>	<b>Phone</b>
Adenuga Atewologun	BIC 2113B	(630) 942-4234
E-mail: <a href="mailto:atewoloa@cod.edu">atewoloa@cod.edu</a>		
Tom Carter	BIC 2057A	(630) 942-3346
E-mail: <a href="mailto:cartert@cod.edu">cartert@cod.edu</a>		
David Fazzini	BIC 1070C	(630) 942-3349
E-mail: <a href="mailto:fazzinid@cod.edu">fazzinid@cod.edu</a>		
Rumiana Nikolova	BIC 1070D	(630) 942-3276
E-mail: <a href="mailto:nikolova@cod.edu">nikolova@cod.edu</a>		