

# Harper College Transfer Planning Guide

## Associate in Science – Physics Sample Plan

### Transfer & Career Notes

A bachelor or master degree qualifies one to work in an engineering-related area or other scientific field to work as a technician, or to assist in setting up laboratories. Some may be qualified for applied research jobs in private industry or non-research positions in the Federal Government. A doctoral degree is the usual educational requirement for physicists because most jobs are in research and development or in teaching at large universities or 4-year colleges.

Growing numbers of physicists are specializing in combined fields such as biophysics, chemical physics, and geophysics.

### Suggested Courses

This sample transfer planning guide meets the requirements of the Fall 2017 AS degree. Students are also encouraged to complete course sequences at the same institution prior to transfer. **Transfer institution requirements may vary – students should check individual college/university requirements before completing the sample plan as outlined.** Baccalaureate admission may be competitive; completion of these courses alone does not guarantee admission.

**Requirements for schools vary. Students should check the individual school requirements before completing the curriculum as outlined.**

Courses	Semester Hours
<b>First Semester</b>	
Communication - ENG 101 English Composition I	3
Mathematics - MTH 200 Calculus with Analytic Geometry I	5
Physical and Life Sciences - CHM 121 General Chemistry I	5
Social and Behavioral Science – <b>See Group 5 in the AS Degree and transfer school information</b>	3
<b>Second Semester</b>	
Communication - ENG 102 English Composition II	3
Additional Mathematics - MTH 201 Calculus with Analytic Geometry II	5
Additional Science- PHY 201 General Physics I	5
Major Discipline and Transfer Elective – CHM 122 General Chemistry II recommended	5
<b>Third Semester</b>	
Communication - SPE 101 Fundamentals of Speech Communication	3
Major Discipline and Transfer Elective - MTH 202 Calculus with Analytic Geometry III	5
Major Discipline and Transfer Elective - PHY 202 General Physics II	5
Humanities and Fine Arts* – <b>See Group 4 in the AS Degree and transfer school information</b>	3
<b>Fourth Semester</b>	
Humanities and Fine Arts* – <b>See Group 4 in the AS Degree and transfer school information</b>	3
Social and Behavioral Science – <b>See Group 5 in the AS Degree and transfer school information</b>	3
Physical and Life Sciences - <b>See Group 3 in the AS Degree and transfer school information</b>	3
Major Discipline and Transfer Elective – PHY 203 General Physics III Thermal and Quantum Physics	5
Major Discipline and Transfer Elective – MTH 212 Differential Equations	3

\*For Humanities and Fine Arts select one course from humanities and one from fine arts. Interdisciplinary courses may count in either category.

For students following the 2005-2006 catalog or later, one course from humanities and fine arts or social and behavioral sciences must meet the world cultures and diversity requirement.

## Transfer Information

Many schools offer the physics major. A sampling of some include:

- Bradley University
- DePaul University
- Eastern Illinois University
- Elmhurst College
- Illinois Institute of Technology
- Illinois State University
- Loyola University
- North Central College
- Northeastern Illinois University
- Northern Illinois University
- University of Illinois at Chicago
- University of Illinois at Urbana Champaign

## More Information

For additional transfer resources and to make an appointment with an advisor or counselor, please contact one of our advising offices.

Academic Advising and Counseling	I-117	847-925-6393
Center for Multicultural Learning	A-347	847-925-6522
Career Development Center	A-347	847-925-6220

Occupational Outlook Handbook  
The Princeton Review  
American Institute of Physics

<http://www.bls.gov/oco/>  
<http://www.princetonreview.com/>  
<http://www.aip.org/>