



CURRICULUM GUIDE 2006-2007

PHYSICS

AS Degree: Transfer Major

The Associate of Science Transfer Degree in Physics offered by Ohlone College is designed to prepare students for studying Physics at most universities. The core courses required in the AS Degree in Physics will fulfill the lower division requirements for most campuses of the UC and CSU systems. This program will enable students to develop a strong foundation in physics and mathematics. Furthermore, the theoretical knowledge and laboratory skills acquired by students in this program will also enhance their success with obtaining entry-level jobs that require two years of college-level science and math.

Since some curriculum requirements may vary among transfer universities, it is imperative that students entering Ohlone's AS degree program in Physics meet with a counselor at the start of their academic work. Counselors will assist students in preparing a Student Education Plan that will prepare them to transfer to the university of their choice. Counselors will also advise students on the general education plan that best prepares them for future transfer.

Requirements for AS Degree:

- a) Complete the Major Field courses with a 2.0 grade point average.
- b) Complete Plan A, B, or C General Education requirements. These are specified in the Ohlone College catalog.
- c) Complete at least 60 degree-applicable units with a 2.0 grade point average.
- d) Complete at least 12 units at Ohlone College.
- e) Complete at least 50% of the Major Field courses at Ohlone College.
- f) Complete PHYS-140, PHYS-141, and PHYS-142 at Ohlone College.

MAJOR FIELD

CHEM-101A	General Chemistry	5
CHEM-101B	General Chemistry	5
MATH-101A	Calculus with Analytical Geometry	5
MATH-101B	Calculus with Analytical Geometry	5
MATH-101C	Calculus with Analytical Geometry	5
MATH-103	Introduction to Linear Algebra	3
MATH-104	Differential Equations	5
PHYS-140	Mechanics	4
PHYS-141	Electricity and Magnetism	4
PHYS-142	Optics, Heat, and Modern Physics	4
		45

RECOMMENDED COURSES

The following course is recommended because it is required in the lower division of some baccalaureate-granting universities:

MATH-159 Elements of Statistics and Probability (5)