



CURRICULUM GUIDE 2006-2007

ENGINEERING

AS Degree: Transfer Major

The Associate of Science Transfer Degree in Engineering offered by Ohlone College is designed to prepare students for studying Engineering at most universities. The core courses required in the AS Degree in Engineering 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 engineering, 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 Engineering 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 ENGI-120, ENGI-130, and ENGI-140 at Ohlone College.

MAJOR FIELD

CS-116	C++ Programming: An Object-Oriented Language	4
ENGI-101	Introduction to Engineering	3
MATH-101A	Calculus with Analytical Geometry	5
MATH-101B	Calculus with Analytical Geometry	5
MATH-101C	Calculus with Analytical Geometry	5
MATH-104	Differential Equations	5
PHYS-140	Mechanics	4
PHYS-141	Electricity and Magnetism	4
PHYS-142	Optics, Heat, and Modern Physics	4

Select two (2) of the following Engineering courses:	7-8
ENGI-120 Engineering Mechanics - Statics	(3)
ENGI-130 Electric Circuit Analysis	(4)
ENGI-140 Materials Engineering	(4)
	46-47

RECOMMENDED COURSES

The following courses are recommended because they are required in the lower division of some baccalaureate-granting universities:

CHEM-101A General Chemistry	(5)
CHEM-101B General Chemistry	(5)
ENGI-115 Engineering Communication	(4)
MATH-103 Introduction to Linear Algebra	(3)