

Palomar College Catalog 2009-2010

Engineering (ENGR)

Contact the Physics and Engineering Department for further information.
(760) 744-1150, ext. 2505
Office: NS-355B

Associate in Arts Degrees -

AA Degree requirements are listed in Section 6 (green pages).

- Engineering

Certificates of Proficiency -

Certificate of Proficiency requirements are listed in Section 6 (green pages).

- Engineering Technician

PROGRAMS OF STUDY

Engineering

Provides the background to begin upper division coursework and will prepare the student for entry level jobs that require a knowledge of engineering and engineering related topics. The highly sequential nature of the engineering curriculum necessitates completion of lower division requirements before being admitted into upper division courses.

Engineering students are urged to give priority to the completion of major field requirements over the completion of general education requirements. Engineering lower division requirements are not the same for different universities. These institutions recommend that their particular lower division requirements be completed before transfer. Students should seek early assistance in planning their specific program from the Counseling Department, the Transfer Center, or the Physics/Engineering Department.

A.A. DEGREE MAJOR**

Program Requirements (Select a minimum of 11 units)	Units
DT 125 or DT 128	AutoCAD Introduction to Computer Aided Drafting SolidWorks Introduction to 3D Design and Presentation 3
ENGR/ ECHT 126	Intro Electric/Computer Engineering 4
ENGR 210	Electrical Network Analysis 3
ENGR 210L	Electrical Network Analysis Laboratory 1
ENGR 231	Engineering Measurement Analysis 3
ENGR 235	Engineering Mechanics Statics 3
ENGR 236	Engineering Mechanics Dynamics 3
ENGR 245	Properties of Materials 4

Electives (Select a minimum of 30 units)

Note that mathematics courses are often prerequisite to engineering and physics courses.

MATH 140*	Calculus/Analytic Geometry, First Course	5
MATH 141	Calculus/Analytic Geometry, Second Course	4
MATH 205	Calculus/Analytic Geometry, Third Course	4
MATH 206	Calculus with Differential Equations	4
PHYS 230*	Principles of Physics	5
PHYS 231	Principles of Physics	5
PHYS 232	Principles of Physics	4
CHEM 110*	General Chemistry	3
CHEM 115*	General Chemistry	3
CHEM 110L*	General Chemistry Laboratory	2
CHEM 115L*	General Chemistry Laboratory	2

MINIMUM TOTAL UNITS 41

Recommended Elective: ENGR 100

* Courses marked with an asterisk may be used to fulfill General Education requirements.

ENG 100, ENG 202, and BIOL 100 are highly recommended as electives to fulfill General Education requirements.

**Engineering A.A. Degree Major pending approval by the California Community Colleges System Office at the time of catalog publication.

Engineering Technician

Specifically for individuals employed or seeking employment as a technician in the engineering/technical industry.

CERTIFICATE OF PROFICIENCY

Program Requirements

ENGR 131	Introduction to Electronics	4
ENGR 245	Properties of Materials	4
CSIT 131	Word	1
CSIT 132	Excell	1
DT 128	SolidWorks Introduction to 3D Design and Presentation	3
PHYS 121	General Physics	4

TOTAL UNITS 17