

**Note:** Cross listed as R DT 200; may be taken 2 times

**Transfer acceptability:** CSU

Advanced techniques in the operation of AutoCAD software for architectural applications on IBM-compatible computers. Preparation of various architectural working drawings from a preliminary residential design.

**DT 202      Advanced Computer Aided Architectural Drafting II** (4)

8 hours lecture/laboratory

**Recommended preparation:** DT/R DT 200

**Note:** Cross listed as R DT 202; may be taken 2 times

**Transfer acceptability:** CSU

Third-party architectural software for use in conjunction with AutoCAD software. Preparation of 3D architectural models and their manipulation for preparation of individual architectural working drawings including: dimensioned floor plans, building sections, elevations, etc.

**DT 210      Printed Circuit Board Design** (3)

6 hours lecture/laboratory

**Prerequisite:** A minimum grade of 'C' in DT 110

**Note:** May be taken 2 times

**Transfer acceptability:** CSU

Instruction in printed circuit board design generally required for entry level positions in the electronic industry. Includes artwork and complete documentation for analog and digital multi-layer, flexible and high-speed boards using current IPC standards. Drafting will be performed on the computer using high-end printed circuit board software.

**DT 211      Advanced Printed Circuit Board Design** (3)

6 hours lecture/laboratory

**Prerequisite:** DT 210

**Note:** May be taken 2 times

**Transfer acceptability:** CSU

Advanced problems and instruction in printed circuit board design generally required for entry-level position in the electronic industry. Special emphasis will be placed on advanced applications including surface mount technology. Includes artwork and complete documentation for analog and digital multi-layer, flexible and high-speed boards using current IPC standards. Drafting will be performed on the computer using AutoCAD and PADS software.

**DT 215      Architectural Design Fundamentals I** (5)

10 hours lecture/laboratory

**Recommended preparation:** DT 144 and 155

**Transfer acceptability:** CSU; UC - DT 144, 145, 160, 215, 216 and ART 102, 103 combined: maximum credit, 18 units

Development of problem solving and analytical skills in architectural design involving consideration of factors of architectural form in two- and three-dimensional compositions, and design concepts and applications.

**DT 216      Architectural Design Fundamentals II** (5)

10 hours lecture/laboratory

**Recommended preparation:** DT 145 and 215

**Transfer acceptability:** CSU; UC - DT 144, 145, 160, 215, 216 and ART 102, 103 combined: maximum credit, 18 units

Complex architectural problems involving consideration of factors of structure, site, and climate.

## Earth Sciences (ES)

Contact the Earth, Space, and Aviation Sciences Department for further information.

(760) 744-1150, ext. 2512

Office: NS-110G

### COURSE OFFERINGS

**ES 100      The Earth as a System: Case Studies of Change in Space and Time** (3)

3 hours lecture

**Transfer acceptability:** CSU; UC

An overview of the fields of geology, geography, oceanography, and astronomy that approach Earth as a system. Areas of study include those related to plate tectonics, earthquakes, volcanoes, geologic time, landscape evolution, weather systems, ocean circulation, climate change, and exploration of the solar system.

**ES 105      Earth System Science: Climate Change** (3)

3 hours lecture

**Transfer acceptability:** CSU; UC

Introduction to the science of global change that includes an overview of the international political debate and the mechanisms of the climate system. Topics also examine climate change on different time scales including the Ice Ages and the outlook for climate change.

**ES 115      Natural Disasters and Environmental Hazards** (3)

3 hours lecture

**Note:** Cross listed as GEOG 115

**Transfer acceptability:** CSU; UC

Examination and analysis of natural disasters and environmental hazards including earthquakes, tsunamis, volcanic activity, hurricanes, flooding, air and water pollution, and global climate change.

**ES 195      Regional Field Studies in Earth Science** (1,2,3)

2, 4 or 6 hours lecture/laboratory

**Note:** May be taken 4 times

**Transfer acceptability:** CSU

Extended field studies that examine Earth Science-related topics in selected regions. Emphasis is upon field observation, interpretation, and analysis of varying Earth Science phenomena including formation of landforms, natural resources, ecosystems, climate patterns, tectonic processes and human impacts.

## Economics (ECON)

Contact the Economics, History and Political Science Department for further information.

(760) 744-1150, ext. 2412

Office: P-17K

For transfer information, consult a Palomar College Counselor.

### Associate in Arts Degrees -

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

- Economics

### Certificates of Achievement -

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

- Economics

### PROGRAM OF STUDY

#### Economics

Provides lower division preparation for pursuing advanced studies in economics or prepares a complementary base for many professions and areas of interest including business administration, law, engineering, journalism, public administration, and environmental studies. Transfer students should consult the four year college or university catalog for specific requirements or see a Palomar College counselor.

### A.A. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

Program Requirements		Units
ECON 101	Principles of Economics (Macro)	3
ECON 102	Principles of Economics (Micro)	3
<b>Group I (Select 6 units)</b>		
ECON 110	Comparative Economic Systems	3
ECON 115	Economic History of the United States	3